



PUBLIC WORKS WATER POLLUTION CONTROL

ADMINISTRATION

50 MARKET STREET, KANSAS CITY, KANSAS 66118

(913) 573-1300

AMENDMENT NO. 2

UNIFIED GOVERNMENT OF WYANDOTTE COUNTY / KANSAS CITY, KANSAS
ENGINEERING DIVISION, PUBLIC WORKS DEPARTMENT
ON-CALL SANITARY AND STORM SEWER COLLECTION SYSTEM REPAIR AND REPLACEMENT
PROJECT I.D. 6301 / RFP R40989

August 14, 2024

Offerors on ON-CALL SANITARY AND STORM SEWER COLLECTION SYSTEM REPAIR AND REPLACEMENT are hereby notified that the following amendments are made to the Project's Contract Documents. Proposals to be submitted on August 22, 2024, shall conform to these amendments. This amendment adds, changes, or clarifies the following:

AMENDMENTS TO THE CONTRACT SPECIFICATIONS:

1. TABLE OF CONTENTS

- A. Change the number of pages for Section 1100 – Progress and Payment from “22” to “36”.

2. REQUEST FOR PROPOSAL

- A. Page 5: In the second sentence of the second bullet of Article I, Section 1.03, replace “two (2) hours” with “four (4) hours”.
- B. Page 5: Replace the third sentence of the third bullet in Article I, Section 1.03 with the following sentences:
“Estimates shall utilize contract pricing along with an authorization-specific Special Conditions Construction Allowance, if necessary. The Special Conditions Construction Allowance may be established by the contractor and agreed to by the Unified Government to cover the costs of work identified to be beyond the scope of the provisions provided in the proposal item measurement and payment descriptions.”
- C. Page 27: Insert the following sentence at the end of the second bullet in the first paragraph of Article VI, Section 6.01:
“The Offeror may submit a blank Sample Project Price Proposal; in this case, the Owner's Proposal Evaluation Committee will fill in the blank spaces using the unit rates provided in the Offeror's Price Proposal.”
- D. Page 27: In the second sentence of the second paragraph of Article VI, Section 6.01, insert “(except where otherwise indicated)” immediately after “all blank spaces must be filled in”.



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3. PROPOSAL QUESTIONNAIRE

- A. Page 16: Delete question 34 regarding the organization representative responsible for visiting and inspecting the project sites in its entirety.
- B. Page 16: Delete question 35 regarding subsurface and physical conditions in its entirety.
- C. Page 20, Cooperative Procurement: Insert the following sentence after the last bullet point:
 - “The Offeror reserves the right to require, a) a minimum purchase order amount to ensure that the Offeror can offset initial mobilization and operational costs, or b) reimbursement for additional mobilization costs for the initial setup and deployment of services.”

4. PRICE PROPOSAL

- A. Page 12: In Table H, insert the following footnote immediately after footnote 2:
“(3)Due to the proprietary nature of Price Proposal Item Numbers H-5, H-6, and H-7, unit prices for these Price Proposal items may be left blank. Leaving these Price Proposal items blank will not affect award.”
- B. Page 13: In Table I, change the Units for Price Proposal Item Numbers I-5a, I-5b, and I-5c from “Vertical Feet” to “Each”.
- C. Page 16: In Table K, replace footnote 2 in its entirety with the following:
“(2)Contractors are required to respond with a company representative to the repair site within four (4) hours upon notification by Unified Government staff. Contractor will be given time to assess the scope of work and the appropriate equipment and personnel needed to complete the work. Contractor is then required to begin mobilization on a timeline as directed by the Unified Government after completing the initial site visit. Mobilization times will vary depending on the specific urgency of the project, but typically 24 to 48 hours after the initial site visit. Because this work may involve the repair of buried infrastructure, the scope of each job may not be entirely known until work commences.”
- D. Page 17: In Table L, replace footnote 2 in its entirety with the following:
“(2)Contractors are required to respond with a company representative to the repair site within four (4) hours upon notification by Unified Government staff. Contractor will be given time to assess the scope of work and the appropriate equipment and personnel needed to complete the work. Contractor is then required to begin mobilization on a timeline as directed by the Unified Government after completing the initial site visit. Mobilization times will vary depending on the specific urgency of the project, but typically 24 to 48 hours after the initial site visit. Because this work may involve the repair of buried infrastructure, the scope of each job may not be entirely known until work commences.”



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5. APPOINTMENT OF PROCESS AGENT FORM

- A. Page 1: In item 3 of the Processing Instructions, delete, “Pursuant to paragraph 13 of the Instructions and Information to Bidders”.

6. SUPPLEMENTAL GENERAL CONDITIONS

- A. Page 1: In the third sentence of Paragraph C., delete “Main Sewer and Manhole”.
- B. Page 4: In the second paragraph of Paragraph G., delete “Main Sewer and Manhole”.

7. SECTION 1100 – PROGRESS AND PAYMENT

- A. Replace Section 1100 – Progress and Payment in its entirety and replace it with the attached Section 1100 – Progress and Payment that is attached to this Amendment No. 2. Revisions to the section include the following:
 - 1. Information regarding the Special Conditions Construction Allowance were provided for each Price Proposal item.
 - 2. Paragraph 1.01, F.K.: The last sentence regarding response time was replaced.
 - 3. Paragraph 1.01, F.L.: The last sentence regarding response time was replaced.
 - 4. Paragraph 1.01, F.O.: Flared end sections were added as subsidiary to the culvert installation (paved and unpaved locations).

8. SECTION 1400 – PROJECT INTERNAL TELEVISION INSPECTION

- A. Page 1400-4, Paragraph 3.03, D.: In the first sentence, replace “At the end of the project” with “Prior to substantial completion”.

9. SECTION 2534 – POLYMER CONCRETE MANHOLES

- A. Page 2534-4, Paragraph 2.01, M.: Delete the paragraph in its entirety and replace it with the following: “Frame and Covers: All frames and covers for polymer concrete manholes shall be EJ (East Jordan) COM2400 DUROSTREET composite manhole assembly with 2-1/4-inch turn latches or equal.”

10. SECTION 5300 – CURED-IN-PLACE PIPE (CIPP) LINING

- A. Page 5300-3, Paragraph 1.08, B.4.: Delete the paragraph in its entirety and replace it with the following:
“Contractor must verify that a 24-hour response time can be met to perform emergency repairs if a liner is causing loss of flow or causing a backup.”



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CLARIFICATIONS:

1. GENERAL:

- A. Refer to Amendment No. 1 for revisions to the list of forms (Article V, Section 5.01 of the Request for Proposals) to be submitted with the Proposal Questionnaire.
- B. In Table D of the Price Proposal, pipe diameter ranges are provided for the various Price Proposal Items. It is understood that some pipe diameters within those ranges may not be available, e.g., 21-inch diameter RCP.
- C. Besides the exclusion of Price Proposal Item Numbers H-5, H-6, and H-7 noted above, prices shall be provided for all items in the Price Proposal, including polymer concrete manholes that may not be produced locally.
- D. As noted in Article I, Section 1.02 of the Request for Proposals, the contract may be awarded to more than one contractor to ensure resources are available when they are needed. Also, if more than one contractor is awarded a contract, the Unified Government has sole discretion in selecting which contractor is awarded each project (Article I, Section 1.03).
- E. As noted in Article I, Section 1.03 of the Request for Proposals, Authorizations of Work shall be acceptable to and signed by both parties, i.e., the Unified Government and the contractor.
- F. The contract does not preclude a contractor from making a claim or requesting price adjustments. Procedures for claims and price adjustments are provided in the General Conditions. Producer Price Indexes and other commodity price benchmarks may be submitted by the contractor for use in such claims and requests.
- G. Reducing sections may be necessary for large diameter manholes, including for Price Proposal Item Numbers I-5 and I-6.
- H. In Section 1100, Paragraph 1.01, C., existing utility removal, replacement and relocation are listed as items subsidiary to the work. Additional detail regarding utility location is provided in Paragraph 45.1 of the General Conditions.

There are no further changes to the ON-CALL SANITARY AND STORM SEWER COLLECTION SYSTEM REPAIR AND REPLACEMENT at this time.

Acknowledge receipt and acceptance of this amendment in the appropriate space provided on the PRICE PROPOSAL form.

Attachments: Section 1100 – Progress and Payment

SECTION 1100 – PROGRESS AND PAYMENT

PART 1 - GENERAL

1.01 Measurement and Payment

- A. Scope: This section lists bid items, their unit of payment, method and limits of measurement, and subsidiary work included in the pay item.
- B. Entire Cost: The unit prices shown in the bid shall reflect the entire cost for the construction of the complete work, in conformance with the plans and specifications. Cost for items called for in or reasonably inferred as necessary from the construction documents, for which a specific unit price or lump sum price is not listed in the bid, shall be included in the price for the closest applicable items.
- C. Non-Pay Items Subsidiary to the Work as a Whole: The following items are subsidiary to the whole work. The cost of these items shall be balanced throughout the separate pay items. Timely completion of subsidiary work shall be a condition for recommendation of progress payments.

Subsidiary items: all supervision, testing, labor, materials, equipment, and all necessary incidentals required to furnish and install the Work, as well as payment for mobilization, bonds, insurance, permits, and licenses; profit, overhead, markups, safety, and coordination; Contractor's supervision, work plan, progress schedules, and site meetings; environmental controls; temporary facilities; temporary fencing; all erosion control materials and installation; all clearing and grubbing; connection to existing manholes, including installation of new line into the manhole, reshaping the invert to accept the flows; connection to existing pipes; trench excavation; rock excavation; embedment; backfill, granular trench backfill; disposal of excavated material not used as backfill; dewatering as required; bypass pumping; compaction; granular backfill material or concrete required by trench widths exceeding the maximum allowable trench width for any pipe as shown on the plans; concrete encasement as indicated on the plans; impervious ditch checks as indicated on the plans; existing utility removal, replacement and relocation; parking and traffic control; photographic record; job site water, electrical power, trash and sanitary services, field office, and project sign; construction staking and layout; protection and restoration of existing improvements and utilities; adjustment, relocation and repair of existing water service lines including service meter boxes and service shut off valves; protection and repair of completed portions of the work; correction of defective work; surface restoration; replacement of unsuitable pipe foundation material; driveway, sidewalk, curb and gutter, and pavement removal and replacement; fence repair and replacement; tree removal and saving; and sodding and seeding required therewith.

Existing conditions on the Rehabilitation Schedules, including manhole and pipe depths, diameters, and materials; pipe lengths; and point repair locations; are from previous inspection efforts and/or sewer records and have not been field verified or surveyed. Subsidiary items shall also include field inspection and verification of existing conditions as necessary to perform the work, including confirmation of depths, diameters, and materials; presence of drop pipes; and number and size of pipes entering/existing manholes, prior to installation.

- D. The Contractor shall accept the compensation, as provided in the Contract, in full payment for furnishing all materials, labor, tools and equipment necessary to the completed work and for performing all work contemplated and embraced under the Contract; also, for loss or damage arising from the nature of the work, 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 Owner, and for all risks of every description connected with the prosecution of the work; also, for all expenses incurred in consequence of the suspension or discontinuance of the work as herein specified; and for completing the work according to the Contract Documents.

- E. Contractor shall make partial payments to Subcontractors for work completed.
- F. Measurement and payment for each work item shall be in accordance with the following:

A. CURED-IN-PLACE PIPE (CIPP) LINER (GRAVITY SANITARY AND STORM)

ITEMS A-1 through A-15 Install Gravity Sewer CIPP Liner

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the pipe diameter and liner thickness specified.

All costs associated with the installation of CIPP including but not limited to take and submit pre-construction photographs, all cleaning (including light and heavy cleaning) and repairs of sewer required to perform pre-construction CCTV and to install the CIPP, cutting of protruding service connections, investigation and determination of active services, locating manholes, verifying pipe depth, bypass pumping, installation of CIPP end seals (water stops), installation and placement and curing of CIPP Liner, reinstating active service connections, strength and tightness testing, backfilling and restoration as required, and post-rehabilitation CCTV inspection and reports shall be included in the Unit Price for the size of CIPP installed.

Contractor shall submit post lining CCTV prior to payment. CCTV data shall be reviewed and approved by Owner/Engineer prior to payment being made.

Unit of measurement is linear foot, field measured; accurate to the nearest foot. Measurement shall run from center of manhole/structure to center of manhole/structure.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.

- Bypass Pumping: Refer to Table A.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

B. CURED-IN-PLACE PIPE (CIPP) LINER ADDITIONAL THICKNESS (GRAVITY SANITARY AND STORM)

ITEMS B-1 through B-15 CIPP Liner Additional Thickness

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the pipe diameter and the additional liner thickness required for a pipe as approved by the Engineer.

All costs associated with adding additional material thickness to a proposed CIPP liner shall be included.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Not applicable.
- Traffic Control. Not applicable.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Not applicable.

C. EXCAVATION REQUIRED PIPE REHABILITATION (POINT REPAIRS: GRAVITY SANITARY AND STORM)

ITEMS C-1 through C-12 Install Pipe

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the pipe diameter, pipe depth, pipe material, and surface condition specified.

All costs associated with pipe point repairs including but not limited to site preparation and excavation; existing utility removal, replacement, or relocation; disposal of excavated material not used for backfill; dewatering/bypass pumping as necessary; backfilling and compaction; final grading; debris disposal; surface restoration to match or exceed existing conditions; detailed construction staking; clearing and grubbing; connection to existing manholes or structures; fittings and connections to existing pipe; removal of existing pipe; location and verification of service laterals; granular backfill material or concrete required by trench widths exceeding the maximum allowable trench width; abandonment or removal of existing pipe; reconnection of existing active service laterals with tee connections, piping and fittings of the correct size; removal and replacement of unsuitable pipe

foundation material; street, driveway, sidewalk, curb and gutter, and pavement removal and replacement to match existing; fence repair and replacement; tree trimming, removal and disposal, and protection/saving; and resetting and re-establishing property corners, pins, bars, or markers removed; and post-construction CCTV inspection and reports

Contractor shall submit post-construction CCTV prior to payment. CCTV data shall be reviewed and approved by Owner/Engineer prior to payment being made.

Measurement for payment shall be for each linear foot of DR26 PVC pipe installed as measured along the centerline of the pipe from end to end of the pipe installed, measured to the nearest foot as indicated. Pipe depth at the flow line shall be measured at the pipe beginning and end point, with the average of the two measurements being used for determination of depth for payment.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. None.

D. EXCAVATION REQUIRED PIPE REPLACEMENT (TOTAL PIPE REPLACEMENT: GRAVITY SANITARY AND STORM)

ITEMS D-1 through D-26 Install Pipe

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the pipe diameter, pipe depth, pipe material, and surface condition specified. When total pipe replacement is indicated, the new pipe diameter shall be the same as the existing pipe diameter, unless otherwise indicated on the Rehabilitation Schedule.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary

incidentals needed to install sewer pipe as shown, specified, and directed. The unit price shall include, but not be limited to, take and submit pre-construction photographs; traffic control; safety equipment; site preparation and excavation; existing utility removal, replacement, or relocation; disposal of excavated material not used for backfill; dewatering/bypass pumping as necessary; backfilling and compaction; final grading; debris disposal; testing; erosion control; cleanup; and surface restoration to match or exceed existing conditions; detailed construction staking; temporary facilities; temporary fencing; clearing and grubbing; installation and subsequent removal of silt fencing and/or erosion control devices as required; connection to existing manholes or structures; fittings and connections to existing pipe; removal of existing pipe; location and verification of service laterals; granular backfill material or concrete required by trench widths exceeding the maximum allowable trench width for any pipe as shown on the Drawings; pipe anchors and cradles, and impervious ditch checks as indicated on the Drawings; abandonment or removal of existing pipe; reconnection of existing active service laterals with tee connections, piping and fittings of the correct size; removal and replacement of unsuitable pipe foundation material; street, driveway, sidewalk, curb and gutter, and pavement removal and replacement to match existing or as shown on the Drawings; fence repair and replacement; tree trimming, removal and disposal, and protection/saving; resetting and re-establishing property corners, pins, bars, or markers removed; and post-construction CCTV inspection and reports; all as shown, specified, and directed.

Contractor shall submit post-construction CCTV prior to payment. CCTV data shall be reviewed and approved by Owner/Engineer prior to payment being made.

Payment shall be per horizontal length of pipe (linear feet) actually installed as determined from the construction survey stationing. Piping shall be measured along the center line of the sewer.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration (Unpaved). No Special Conditions Construction Allowance.

- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. None.

E. SEWER PIPE CLEANING

ITEMS E-1 through E-9 Sewer Pipe Cleaning

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the pipe diameter and cleaning type indicated.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to complete light or heavy cleaning as shown, specified, and directed. The unit price shall include, but not be limited to, traffic control, water for cleaning equipment, debris collection and disposal, all as shown, specified, and directed.

Payment shall be per horizontal linear feet of pipe cleaned. Cleaning length shall be measured along the center line of the sewer from manhole to manhole.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping: Refer to Table E.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

E. SEWER PIPE TELEVISIONING

ITEMS F-1 through F-9 Sewer Pipe Televising

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the pipe diameter indicated.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to complete the CCTV as specified, and directed. The unit price shall include, but not be limited to, traffic control, water for cleaning equipment, flow control as necessary, CCTV deliverables as specified, all as shown, specified, and directed.

Payment shall be per horizontal linear feet of pipe actually televised. CCTV length shall be measured along the center line of the sewer from manhole to manhole.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping: Refer to Table F.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

G. NON-EXCAVATION REQUIRED MANHOLE REHABILITATION

ITEM G-1 Replace Manhole Frame Gasket

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove the existing gasket, prepare the surface, install the new gasket, reset the existing cover, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each new manhole frame gasket furnished and installed in place.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Not applicable.

- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping: Not applicable.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEM G-2a Replace Existing Cover with UG Standard Cover

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove and salvage the existing cover, provide and install a new UG standard cover as specified, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each new UG standard cover furnished and installed in place.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping: Not applicable.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEM G-2b Replace Existing Cover with UG Standard Bolt Down Cover

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove and salvage the existing cover, provide and install a new UG standard bolt down cover with bolts as specified,

provide and install a new frame gasket for UG standard bolt down covers, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each new UG standard bolt down cover furnished and installed in place.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping: Not applicable.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEM G-3 Install Flexible Liner

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, repair active infiltration, provide and install the flexible liner, perform quality control and inspection, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that the frame seal and chimney grade adjustment is repaired with a new flexible liner.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.

- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping: Not applicable.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEM G-4 Repair Cracks and Joints

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, repair active infiltration, repair manhole cracks and joints, perform quality control and inspection, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that the cracks and joints are repaired.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. Manhole depth is 15 feet or less. Manhole diameter is 72-inches or less.

ITEM G-5 Repair and Grout Pipe Seals

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, repair active infiltration, repair and grout the pipe seals, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that all existing pipe seals have been repaired (regardless of the diameter of pipes entering and exiting the manhole).

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. Manhole depth is 15 feet or less. Manhole diameter is 72-inches or less.

ITEMS G-6a through G-6c Repair Bench and Trough

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, repair active infiltration, repair the bench and trough, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that the bench and trough are repaired.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. Manhole depth is 15 feet or less.

H. MANHOLE LINING

ITEMS H-1a through H-1c Install Cementitious Liner

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, remove manhole steps and plug step anchor holes, repair active infiltration, apply cementitious liner, perform product testing, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot of cementitious liner installed, measured to the nearest 0.1 vertical foot from the lowest invert to the top of the liner.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.

- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEMS H-2a through H-2c and H-3a through H-3c Install Epoxy Liner

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter specified and whether it is a new or existing manhole.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, remove manhole steps and plug step anchor holes, repair active infiltration, apply epoxy liner to the existing manhole, perform quality control and inspection, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot of epoxy liner installed, measured to the nearest 0.1 vertical foot from the lowest invert to the top of the liner.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEMS H-4a through H-4c Install Cementitious and Epoxy Liners

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, remove manhole steps and plug step anchor holes, repair active infiltration, apply cementitious liner, perform product testing, apply epoxy liner, perform quality control and inspection, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot of epoxy liner installed, measured to the nearest 0.1 vertical foot from the lowest invert to the top of the liner.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEMS H-5a through H-5c Install OBIC Armor 1000 Aromatic Polyurea Liner

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, remove manhole steps and plug step anchor holes, repair active infiltration, apply liner, perform product testing, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot of cementitious liner installed, measured to the nearest 0.1 vertical foot from the lowest invert to the top of the liner.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

ITEMS H-6a through H-6c and H-7a through H-7c Install Monoform Interior Liner

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter specified and the type of Monoform liner installed.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, prepare the surface, remove manhole steps and plug step anchor holes, repair active infiltration, apply liner, perform product testing, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot of cementitious liner installed, measured to the nearest 0.1 vertical foot from the lowest invert to the top of the liner.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.

- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

I. EXCAVATION REQUIRED MANHOLE REHABILITATION

ITEM I-1a Replace Existing Frame and Cover with UG Standard Frame and Cover

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove and salvage the existing frame and cover, provide and install a new UG standard frame and cover as specified, repair damage to existing grade adjustment and/or cone, install leveling surface, seal frame and grade adjustment/cone joints, apply joint wrap-around sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that a new UG standard frame and cover as specified, is furnished and installed in place.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. No Special Conditions Construction Allowance.
- Price Proposal Item Specific. None.

ITEM I-1b Replace Existing Frame and Cover with UG Standard Bolt Down Frame and Cover

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove and salvage the existing frame and cover, provide and install a new UG standard bolt down frame and cover as specified, repair damage to existing grade adjustment and/or cone, install leveling surface, seal frame and grade adjustment/cone joints, apply joint wrap-around sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that a new UG standard bolt down frame and cover, as specified, is furnished and installed in place.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. No Special Conditions Construction Allowance.
- Price Proposal Item Specific. None.

ITEM I-1c Replace Existing Frame and Cover with Polymer Frame and Cover

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove and salvage the existing frame and cover, provide and install a new polymer frame and cover as specified, repair damage to existing grade adjustment and/or cone, install leveling surface, seal frame and grade adjustment/cone joints, apply joint wrap-around sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that a new polymer frame and cover, as specified, is furnished and installed in place.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. No Special Conditions Construction Allowance.
- Price Proposal Item Specific. None.

ITEM I-2 Replace Grade Adjustment

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove the existing frame and cover and grade adjustment, repair damage to existing cone, install leveling surface, reinstall the existing frame and cover, install new grade adjustment riser rings as specified (between 3-inches above and 12-inches below grade), seal frame and grade adjustment/cone joints, apply joint wraparound sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that the existing frame and cover are reinstalled in place and the top elevation adjusted to grade.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.

- Restoration. No Special Conditions Construction Allowance.
- Price Proposal Item Specific. Adjustment will be limited between 3-inches above grade and 12-inches below grade.

ITEM I-3 Add Grade Adjustment

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor’s proposal for the surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, remove the existing frame and cover and grade adjustment, salvage the existing frame and cover, repair damage to existing cone, install leveling surface, provide and install a new UG standard frame and cover or standard bolt down frame and cover as specified, provide and install a new frame gasket for UG standard bolt down covers, install new grade adjustment riser rings as specified (between 3-inches and 18-inches above grade), seal frame and grade adjustment/cone joints, apply joint wraparound sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole that a new UG standard frame and cover or standard bolt down frame and cover, as specified, are furnished and installed in place and the top elevation adjusted to grade.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. No Special Conditions Construction Allowance.
- Price Proposal Item Specific. Adjustment will be limited between 3-inches and 18-inches above grade.

ITEMS I-4a through I-4c Install Flattop on Existing Manhole

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor’s proposal for the manhole diameter and surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and

all necessary incidentals needed to take and submit pre-construction photographs, demolish, remove, and dispose of the existing frame and cover, grade adjustment, and cone, salvage the existing frame and cover, repair damage to existing cone, install an adequate bearing surface, provide and install a new flattop, provide and install a new UG standard frame and cover or standard bolt down frame and cover as specified, provide and install a new frame gasket for UG standard bolt down covers, install new grade adjustment riser rings as specified, seal frame and grade adjustment/cone joints, apply joint wraparound sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each existing manhole that a new flattop, grade adjustment, and UG standard frame and cover are installed on the existing manhole.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. The maximum depth of brick cone removal is 36-inches.

ITEMS I-5a through I-5c Replace Existing Manhole Cone and Above

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter and surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, demolish, remove, and dispose of the existing frame and cover, grade adjustment, and cone to the required elevation, salvage the existing frame and cover, install an adequate bearing surface, provide and install a new cone, provide and install a new UG standard frame and cover or standard bolt down frame and cover as specified, provide and install a new frame gasket for UG standard bolt down covers,

install new grade adjustment rings as specified, seal frame and grade adjustment/cone joints, apply joint wraparound sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each existing manhole that a new cone and above are installed on the existing manhole.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. The maximum depth of cone and above replacement is 5-feet.

ITEMS I-6a through I-6c Replace Existing Manhole Barrel, Cone and Above

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter and surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, demolish, remove, and dispose of the existing frame and cover, grade adjustment, cone, and barrel to the required elevation, salvage the existing frame and cover, install an adequate bearing surface, provide and install a new cone and barrel, provide and install a new UG standard frame and cover or standard bolt down frame and cover as specified, provide and install a new frame gasket for UG standard bolt down covers, install new grade adjustment rings as specified, seal frame and grade adjustment/cone joints, apply joint wraparound sleeves, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot of new manhole barrel, cone, grade adjustment, and UG standard frame and cover furnished and installed in place, measured to the nearest 0.1 vertical foot from the bottom of the new barrel to the top of the frame.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. The maximum depth of combined cone and barrel removal is 10-feet.

ITEMS I-7a through I-7c Replace Existing Manhole with Precast Concrete Manhole (0 – 8.0 Feet Depth)

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter and surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, demolish, remove, and dispose of the existing manhole, cleanout, or lamphole, salvage the existing frame and cover, provide and install a new manhole, construct invert, provide necessary ladder steps, provide and install a new UG standard frame and cover or standard bolt down frame and cover as specified, provide and install a new frame gasket for UG standard bolt down covers, install new grade adjustment rings as specified, seal frame and grade adjustment/cone joints, reconnect existing lines using pipe and flexible couplings and integral flexible manhole pipe to wall gaskets, apply joint wraparound sleeves, perform infiltration testing, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each manhole installed, 0 to 8' in depth as indicated.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed

with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.

- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. Manhole depths is 8-feet or less. Manhole depth greater than 8-feet will be paid thru Price Proposal Item I-9 in lieu of the Special Conditions Construction Allowance.

ITEMS I-8a through I-8c Replace Existing Manhole with Polymer Concrete Manhole

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter and surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, demolish, remove, and dispose of the existing manhole, cleanout, or lamphole, salvage the existing frame and cover, provide and install a new polymer concrete manhole, provide necessary ladder steps, provide and install a new polymer frame and cover as specified, install new grade adjustment rings as specified, seal frame and grade adjustment/cone joints, reconnect existing lines using pipe and flexible couplings and integral flexible manhole pipe to wall gaskets, apply joint wraparound sleeves, perform infiltration testing, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each polymer manhole installed, 0 to 8' in depth, as indicated.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.

- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. Manhole depths is 8-feet or less. Manhole depth greater than 8-feet will be paid thru Price Proposal Item I-9 in lieu of the Special Conditions Construction Allowance.

ITEMS I-9a through I-9c Install Precast Concrete Manhole Extra Depth

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter and surface condition specified for extra depth of wall for manholes greater than the standard manhole depth (measured as described in Item I-7).

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to provide and install additional manhole wall depth, provide necessary ladder steps, reconnect existing lines using pipe and flexible couplings and integral flexible manhole pipe to wall gaskets, apply joint wraparound sleeves, perform infiltration testing, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot in excess of the standard manhole depth (measured as described in Item I-7), measured to the nearest 0.1 vertical foot.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Not applicable.
- Traffic Control. Not applicable.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Not applicable.

ITEMS I-10a through I-10c Install Polymer Concrete Manhole Extra Depth

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the manhole diameter and surface condition specified for extra depth of wall for manholes greater than the standard manhole depth (measured as described in Item I-8).

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to provide and install additional manhole wall depth, provide necessary ladder steps, reconnect existing lines using pipe and flexible couplings and integral flexible manhole pipe to wall gaskets, apply joint wraparound sleeves, perform

infiltration testing, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each vertical foot in excess of the standard manhole depth (measured as described in Item I-8), measured to the nearest 0.1 vertical foot.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Not applicable.
- Traffic Control. Not applicable.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Not applicable.

ITEM I-11 Replace Existing Inlet with Precast Concrete Inlet (5' x 3', 0 to 8 Feet Depth)

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the inlet replacement specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, demolish, remove, and dispose of the existing inlet, salvage the existing frame and cover, provide and install a new inlet, construct invert, provide necessary ladder steps, provide and install a new UG standard frame and cover or standard bolt down frame and cover as specified, provide and install a new frame gasket for UG standard bolt down covers, reconnect existing lines using pipe and flexible couplings and integral flexible manhole pipe to wall gaskets, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each inlet installed, 0 to 8 feet in depth as indicated.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.

- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. Inlet depth is 8-feet or less. Inlet depth greater than 8-feet will be paid thru Price Proposal Item I-11 in lieu of the Special Conditions Construction Allowance.

J. MISCELLANEOUS CONSTRUCTION

ITEMS J-1a through J-1b Install Inside Drop Bowl, Fittings, and Piping

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the drop pipe diameter specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, install drop bowl, anchor bolts, clamp and brackets, pinch bolt and nuts, drop pipe, fittings, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each inside drop installed.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Standard bypass pumping includes bypass of flow in or around a manhole with up to and including a 15-inch diameter outlet pipe.
- Restoration. Not applicable.
- Price Proposal Item Specific. The length of the drop pipe is 13-feet or less.

ITEM J-2 Repair Cave-In

Payment for this item(s) shall be in accordance with the lump sum price set forth in the Contractor's proposal.

The lump sum price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to fill the cave-in site and restore the surface to

match existing conditions as shown, specified, and directed. The lump sum price shall include, but not limited to, traffic control, safety equipment, site preparation and excavation; saw cutting of existing pavement; existing utility removal, replacement, or relocation; disposal of excavated material not used for backfill; dewatering as necessary; backfilling and compaction; final grading; granular fill material; flowable fill backfill material in pavement, fence repair or replacement; tree removal and saving; final grading; installation of top soil; installation of sub base and pavement replacement in streets, driveways, and sidewalks; debris disposal; testing; erosion control; cleanup; and surface restoration to match or exceed existing conditions; all as shown, specified, and directed.

Payment shall be for each cave-in site repaired and restored to match existing conditions.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Repair site is up to 100 square feet in area and 8-feet in depth.

ITEMS J-3a through J-3c Mow Easement for Site Access

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the corridor width specified.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to cut existing surface vegetation to a 6-inch depth for the entire width of the existing permanent sewer easement. Contractor shall assume sewer pipe is centered in the easement. The unit price shall include, but not limited to, traffic control; safety equipment; surface restoration to match or exceed existing conditions if area becomes rutted due to weather conditions; all as shown, specified, and directed. Payment shall be for each linear foot of area mowed to the width required.

Payment shall be per horizontal linear feet of area mowed over the existing pipe.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 1,000 feet of a paved access road or path.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Not applicable.

ITEMS J-4a through J-4c Clear Easement for Site Access

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the corridor width specified.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to clear existing surface vegetation and trees up to and including 6" diameter for the entire width of the existing permanent sewer easement. Contractor shall assume sewer pipe is centered in the easement. Tree diameter shall be measured 2' above the surrounding ground surface. The unit price shall include, but not limited to, traffic control; safety equipment; removal of all vegetative matter; disposal of all vegetative matter; removal and replacement of fences; moving surface features that can be removed and replaced; surface restoration to match or exceed existing conditions if area becomes rutted due to weather conditions; all as shown, specified, and directed. Payment shall be for each linear foot of area cleared to the width required.

Payment shall be per horizontal linear feet of area cleared over the existing pipe.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 1,000 feet of a paved access road or path.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Not applicable.

ITEMS J-5a through J-5d Remove Trees for Site Access

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the tree diameter specified.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to remove each tree. Tree diameter shall be measured 2' above the surrounding ground surface. Trees shall only be removed from November 1 to March 31. The unit price shall include, but not limited to, traffic control; safety equipment; removal of the tree complete down to ground surface; disposal of all vegetative matter; surface restoration to match or exceed existing conditions if area becomes rutted due to weather conditions; all as shown, specified, and directed.

Payment shall be for each tree removed.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 1,000 feet of a paved access road or path.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Not applicable.

K. HOURLY WORK – LABOR

ITEMS K-1 through K-9 Hourly Work - Labor

The unit costs set forth in the Contractor's proposal for Hourly Work shall be used as compensation for work identified in writing by the Owner which does not meet the description of other items for which the Contractor has provided a bid price. The work will be paid on a time and materials basis. The Contractor will have a response time as defined in Table K, and the pricing on Table K will be good for such occasions.

L. HOURLY WORK – EQUIPMENT

ITEMS L-1 through L-6 Hourly Work - Equipment

The unit costs set forth in the Contractor's proposal for Hourly Work shall be used as compensation for work identified in writing by the Owner which does not meet the description of other items for which the Contractor has provided a bid price. The work will be paid on a time and materials basis. The Contractor will have a response time as defined in Table L, and the pricing on Table L will be good for such occasions.

M. DITCH INSTALLATION

ITEMS M-1 through M-6 Install Ditch

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the slope, ditch depth, and ditch shape specified.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to install the ditch as shown, specified, and directed. The unit price shall include, but not be limited to, take and submit pre-construction photographs; traffic control; safety equipment; site preparation and excavation; existing utility removal, replacement, or relocation; disposal of excavated material not used; final grading; debris disposal; erosion control; cleanup; and surface restoration to match or exceed existing conditions; detailed construction staking; temporary facilities; clearing and grubbing; installation and subsequent removal of silt fencing and/or erosion control devices as required; all as shown, specified, and directed.

Payment shall be per horizontal length of ditch (linear feet) actually installed as determined from the construction survey stationing.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 200 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. Flat bottom ditches may be up to 10-foot wide at the bottom.

N. DITCH RESTORATION

ITEMS N-1a through N-1c Install Nyloplast Drain Basin

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the drain basin diameter and depth specified.

The unit price shall be the total cost for, but not limited to, furnishing all mobilization, supervision, testing, labor, materials, equipment, and all necessary incidentals needed to take and submit pre-construction photographs, install the drain basin, make necessary pipe connections, and the necessary subsidiary items listed above, as shown, specified, and directed.

Measurement for payment shall be for each drain basin installed as indicated.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 200 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. None.

ITEMS N-2a through N-2c and N-3a and N-3c Restore Ditch Cross-Section

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the ditch depth and ditch shape specified.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to install the ditch as shown, specified, and directed. The unit price shall include, but not be limited to, take and submit pre-construction photographs; traffic control; safety equipment; site preparation and excavation; existing utility removal, replacement, or relocation; disposal of excavated material not used; final grading; debris disposal; erosion control; cleanup; and surface restoration to match or exceed existing conditions; detailed construction staking; temporary facilities; clearing and grubbing; installation and subsequent removal of silt fencing and/or erosion control devices as required; all as shown, specified, and directed.

Payment shall be per horizontal length of ditch (linear feet) actually restored as determined from the construction survey stationing.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 200 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration. Not applicable.
- Price Proposal Item Specific. None.

O. CULVERT INSTALLATION

ITEMS O-1 through O-12 Install Culvert

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the culvert diameter, culvert depth, culvert material, and surface condition specified.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to install culvert and flared end sections as shown, specified, and directed. The unit price shall include, but not be limited to, take and submit pre-construction photographs; traffic control; safety equipment; site preparation and excavation; existing utility removal, replacement, or relocation; disposal of excavated material not used for backfill; dewatering/bypass pumping as necessary; backfilling and compaction; final grading; debris disposal; testing; erosion control; cleanup; and surface restoration to match or exceed existing conditions; detailed construction staking; temporary facilities; temporary fencing; clearing and grubbing; installation and subsequent removal of silt fencing and/or erosion control devices as required; abandonment or removal of existing culvert; removal and replacement of unsuitable pipe foundation material; street, driveway, sidewalk, curb and gutter, and pavement removal and replacement to match existing or as shown on the Drawings; fence repair and replacement; tree trimming, removal and disposal, and protection/saving; and post-construction CCTV inspection and reports; all as shown, specified, and directed.

Contractor shall submit post-construction CCTV prior to payment. CCTV data shall be reviewed and approved by Owner/Engineer prior to payment being made.

Payment shall be per horizontal length of culvert (linear feet) actually installed as determined from the construction survey stationing.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.
- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping. Not applicable.
- Restoration (Unpaved). No Special Conditions Construction Allowance.
- Restoration (Paved). Standard paved surfaces as defined in Section 2533, Paragraph 1.01, E.
- Price Proposal Item Specific. None.

P. CULVERT CLEANING

ITEMS P-1 through P-9 Culvert Cleaning

Payment for this item(s) shall be in accordance with the unit price set forth in the Contractor's proposal for the culvert diameter and cleaning type indicated.

The unit price shall be the total cost for, but not limited to, furnishing all supervision, labor, materials, equipment, and all necessary incidentals needed to complete light or heavy cleaning as shown, specified, and directed. The unit price shall include, but not be limited to, traffic control, water for cleaning equipment, debris collection and disposal, and post-cleaning culvert televising, all as shown, specified, and directed.

Payment shall be per horizontal linear feet of culvert cleaned. Cleaning length shall be measured along the center line of the culvert from end to end.

The Price Proposal price shall include provisions for the following work and any conditions beyond the scope of these provisions shall be addressed through a Special Conditions Construction Allowance:

- Access. Site is within approximately 500 feet of a paved access road or path. Standard clearing and grubbing can be completed with typical hand and power tools and includes removal of three-inch and smaller caliper trees. Removal and replacement of surface features can be performed by hand and with typical hand and power tools.

- Traffic Control. Standard traffic control includes vehicle lighting and traffic cones.
- Bypass Pumping: Not applicable.
- Restoration. Standard restoration is a work area where the surface can be restored to match existing conditions with typical hand and power tools.
- Price Proposal Item Specific. None.

1.02 Rehabilitation Schedules

1. Existing conditions on the Rehabilitation Schedules, including manhole and pipe depths, diameters, and materials; pipe lengths; and point repair locations; are from previous inspection efforts and/or sewer records and have not been field verified or surveyed. Contractor shall field inspect and verify existing conditions as necessary to perform the Work.

1.03 Technical Data

1. An online GIS Site Map and Dashboard showing the location of the sewer pipe and manhole repairs identified in the Rehabilitation Schedules will be provided to the Contractor.
 - a. The GIS Site Map and Dashboard may be accessed using a standard internet browser. Contact Tanner Stark, Unified Government, at 913-573-1383 for any access issues or concerns.
 - b. The GIS Site Map and Dashboard has filter, zoom, and search capabilities and other GIS data layers are available to view.
 - c. An electronic GIS shapefile of the online GIS Site Map is also available for download using the menu at the top right of the GIS Site Map and Dashboard.
 - d. Location of existing main sanitary sewers, storm sewers, and water lines shown on the GIS Site Map was obtained from the Unified Government GIS. Indicated scale is approximate; do not scale. The locations shown are believed to be reasonably correct, but do not purport to be absolutely so.
 - e. Location of existing right-of-way/property lines shown on the GIS Site Map was obtained from the Unified Government GIS. The locations shown are believed to be reasonably correct, but do not purport to be absolutely so.
 - f. Manholes identified to be **Rehabilitated** on the GIS Site Map include work specified as:
 - i. Non-Excavation Required Manhole Rehabilitation,
 - ii. Manhole Lining,
 - iii. Excavation Required Manhole Rehabilitation, and/or
 - iv. Miscellaneous Construction in the Sanitary Manhole and Storm Manhole and Structure Rehabilitation Schedules.
 - g. Manholes identified to be **Replaced/Installed** on the GIS Site Map include work specified as:
 - i. Install Flattop on Existing Manhole,
 - ii. Replace Existing Manhole Cone and Above,
 - iii. Replace Existing Manhole Barrel, Cone and Above, or
 - iv. Replace Existing Manhole in the Sanitary Manhole and Storm Manhole and Structure Rehabilitation Schedules.

2. In preparation of the Contract Documents, the following information regarding existing sewers and manholes were used:
 - a. Internal manhole inspection videos. Available internal manhole inspection videos may be viewed at the Unified Government, 61 Market Street. Call 913-573-1360 to schedule an appointment.
 - b. Internal CCTV inspection videos. Available, individual internal CCTV inspection videos may be viewed at the Unified Government, 61 Market Street. Call 913-573-1360 to schedule an appointment.
3. The online GIS Site Map and Dashboard and information regarding existing sewers and manholes detailed above shall be considered technical data upon which Contractor may rely. It shall be understood that the information provided is not guaranteed by Owner or Engineer to be more than a general indication of the physical conditions likely to be found.
4. Contractor may rely upon the general accuracy of the "technical data" contained in such inspections and maps, but such inspections and maps are not Contract Documents. Except for such reliance on such "technical data," Contractor may not rely upon or make any Claim against Owner, Engineer, or any of Engineer's Consultants with respect to:
 - a. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
 - b. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
 - c. any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.
5. Responsibility for differing site conditions shall be determined in accordance with the Clause in the Invitation for Bids entitled "Differing Site Conditions" (Section 16 - General Conditions).
6. No other reports of explorations and tests or drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site are available.

1.04 Construction

1. No effort has been made by the Engineer to locate existing utilities. Before starting Work, the Contractor shall notify all utilities involved, and shall request them for cooperation effort to avoid breaking utility lines. The utility shall be notified immediately should a break occur in a line during construction under this contract. Any lines so broken by the Contractor shall be repaired according to the utility company's standards at the expense of the Contractor.
2. Contractor shall be held responsible for contacting all utility companies for field location of all underground utility lines, whether shown on the GIS Site Map or not, prior to any excavation.
3. Contractor shall provide protection to prevent undermining or damage to the structural integrity of all utility poles, fences, road signs, or other items that parallel or cross the site and make arrangements with owning entity to provide temporary support or protection during construction.
4. Existing private sanitary sewer facilities serving buildings may not be shown. Contractor shall be held responsible for any damages done to these facilities during construction, and shall maintain continuous service to all buildings.

5. Contractor shall verify location, material, and diameter of existing service laterals and connections prior to construction. Provide fittings and materials, including reducers, as necessary to make necessary connections.
6. Contractor shall be responsible for verifying the location of all active service connections. Only active service connections shall be reinstated.
7. It shall be the responsibility of the Contractor to see that no water, silt, or foreign material enters the lines of the existing sanitary sewer to which these sewers are connected.
8. Blasting shall not be allowed to complete any of the work detailed on the Rehabilitation Schedules.
9. Construction activity (including demolition, clearing, storage of equipment and materials, installation of materials and equipment, and employee parking) shall be restricted to street right-of-way and Unified Government-owned property, along with other areas secured by Contractor by private agreement. If necessary to perform proposed Work, Contractor shall negotiate access agreements with property owners. Engineer shall be informed of Contractor's private arrangements for construction access and shall be supplied a copy of the written agreement(s).
10. Flow in existing sanitary mains and service lines shall be maintained at all times and shall not be discharged to the environment.
11. Contractor shall utilize Best Management Practices to control erosion and sediment migration into storm drainage structures or channels. Contractor shall evaluate drainage patterns and provide erosion control devices as necessary. All costs associated with providing erosion control devices shall be considered subsidiary to the payment items provided on the Bid Form.
12. Contractor shall restore the project sites to conditions equal to or better than those existing prior to entry. All existing items and construction removed or damaged during the performance of the Work, regardless of location and whether or not indicated on these Rehabilitation Schedules, shall be repaired or replaced as detailed in the Contract Documents unless otherwise indicated on these Rehabilitation Schedules.

PART 2 - PRODUCTS - NOT APPLICABLE

PART 3 - EXECUTION - NOT APPLICABLE

END OF SECTION 1100