

CITY OF TOLEDO, OHIO

Department of Transportation
Division of Engineering and Construction Management



PART 'A' - STANDARDS - 2025

Covering City of Toledo Projects and
Private Site Projects Approved by the
City of Toledo

Wade Kapszukiewicz

MAYOR

Jeremy Mikolajczyk
ACTING DIRECTOR
DEPARTMENT OF
TRANSPORTATION

Christy L. Soncrant, P.E.
COMMISSIONER
ENGINEERING AND CONSTRUCTION
MANAGEMENT

TABLE OF CONTENTS

SPECIFICATIONS	A-1 to A-66
GENERAL PROVISIONS	GP-1 to GP-11
CONTRACTOR/ CONSULTANT EVALUATION FORM	E-1 to E-10

Revisions to the 2025 Part 'A' Standards are in **bold text.**

PART 'A' STANDARDS – 2025
Specifications

The 2023 State of Ohio Department of Transportation, "Construction and Materials Specifications", issued January 1, 2023, as amended to below, shall govern for City of Toledo Projects.

All materials and construction shall also be in accordance with the **2025** City of Toledo Construction Standards. Standards can be viewed and downloaded from the City of Toledo website www.toledo.oh.gov under Departments> Transportation> Engineering and Construction Management> **For Consultants & Contractors**> Construction Standards.

This document shall remain in effect unless updated by the City of Toledo.

ADDENDA TO THE 2023 STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS

The following item numbers correspond to designations listed in the State of Ohio Department of Transportation, "Construction and Materials Specifications".

101 DEFINITIONS AND TERMS

101.01 Add -

"The definitions and abbreviations as contained in these specifications shall be construed as hereinafter mentioned. Any references in these definitions in the State of Ohio Specifications to qualification of bidders, contractors or subcontractors is subject to the stipulations of this Proposal."

101.02 Add -

The following supersede the abbreviations contained in the State of Ohio, Department of Transportation Construction and Material Specifications:

DCA - City of Toledo Construction Engineer

DCE - City of Toledo Construction Engineer

DDD - Commissioner of the Division originating the contract, or his authorized representative.

A-2

101.03 Delete reference to ORC sections in the definitions of "Bidder", "Contract Bond", "Contractor", "Extra Work Contract", "Questionnaire", and "Subcontractor".

Delete Questionnaire.

Add -

"The following supersede the definitions contained in the State of Ohio, Department of Transportation Construction and Material Specifications:"

Department. City of Toledo.

Director. Director of department originating the contract, City of Toledo, or his duly appointed representative.

District. City of Toledo.

Engineer. City of Toledo Project/Construction Engineer

Inspector. An authorized representative of the Engineer.

Laboratory. The person or company designated to perform material tests, or other tests, by the Engineer.

State. City of Toledo acting through its authorized representative.

Add to the current definitions –

Bid Documents: "Part A Standards, Part B Bid Book."

Contract Documents: "Part A Standards, Part B Bid Book, Construction Plans, and any other document incorporated into the contract on the executed Contract forms."

Substantially Complete: Completion of all bid items per the contract specifications, including all underground utilities, final pavement surface, pavement markings, all structures adjusted in the pavement and all restoration items included in the contract.

102 BIDDING REQUIREMENTS AND CONDITIONS

102.05 Add the following after the second sentence in the first paragraph -

In addition, the contractor shall research all aspects of the contract including but not limited to understanding any and all plan notes, plan details, and reviewing all plan requirements.

102.05.C Add after the second paragraph –

D. If test borings, test excavations, or other subsurface investigations have been made that are not part of the contract documents, copies of the soil report(s) will be on file at the office of the Division of Engineering and Construction Management, Toledo, Ohio, and may be viewed during the hours of 8:00 a.m. to 4:45 p.m., Monday through Friday, excluding all holidays. Said test information is not warranted to show the actual subsurface conditions.

Delete the last paragraph and replace with -

Should a question arise at any time during the examination of the bid documents or investigation of the site the bidder shall seek clarification by submitting a pre-bid question. Submit all pre-bid questions in writing as specified in the City of Toledo Part B Bid Book, Notice to Bidders item No.3. Deadline for pre-bid questions is provided on the Planet Bids website. The City of Toledo will not delay bid openings or guarantee answers to bid questions due to questions asked after the pre-bid question deadline.

102.06 Delete the last sentence in the first paragraph.

Delete the last sentence in the second paragraph.

Delete the third paragraph and replace with –

Properly execute the Proposal by completing and signing the required paperwork within the Documents and Attachments Tab on Planet Bids.

102.07 Delete and replace the first sentence of the second paragraph with the following -

Failure to provide the required notification four (4) working days

prior to opening of bids shall constitute a waiver by the Contractor and does not obligate the City of Toledo for any costs based upon any apparent or patent ambiguity arising from insufficient data or obvious errors in the bid documents.

102.09 Delete first paragraph and replace with –
No proposal will be considered unless accompanied by a Bid Guaranty and in an amount not less than the amount indicated in the proposal form made payable to the City of Toledo.

102.10 Delete the first three sentences and replace with –
Place each completed Proposal and the Proposal/Bid Guaranty in a sealed envelope.

102.11 Delete the last sentence and replace with -
A bidder may withdraw their bid, by written request, any time after the City receives the bid and before bid opening. A bidder may, by written request, withdraw their bid within 48 hours after bid opening, if there is reasonable proof that an inadvertent mistake was made and the correction cannot be determined with reasonable certainty. If the Department suspects that the lowest bid contains a mistake, it may ask the bidder for written confirmation of its bid. The Department may permit a bidder alleging an inadvertent error to correct its bid, after opening, only if the mistake and the correction are clearly evident from the bid and the correction does not affect the amount of the bid or otherwise give the bidder an unfair competitive advantage.

102.14 Delete items (I) and (M).

103 AWARD AND EXECUTION OF CONTRACT

103.02 Delete and replace the first sentence of the first paragraph with -
The award of contract, if it be awarded, will be made within forty-five (45) calendar days after the opening of proposals to the lowest and best bidder whose proposal complies with all the requirements prescribed.

Delete the second paragraph.

103.06 Delete "notice of award" in the first sentence and replace with – "being requested."

Delete "within 20 days" and replace with "within 45 days"

104 SCOPE OF WORK

104.02.D.2 Add the following after Table 104.02-2 for non ODOT Local Public Agency (LPA) funded projects within the City of Toledo

A quantity overrun is defined as follow:

- 1. the estimated quantity of a contract item exceeds four units, and**
- 2. the increase in quantity of any unit price Contract Item exceeds 25 percent of the estimated quantity, and**
- 3. the total of all such adjustments for all Contract Items is more than \$400.**

Then after a final determination of final quantities according to 109.12.C, the Engineer will adjust the unit prices for the Contract Items exceeding 25 percent of the estimated quantity. The factor obtained from Table 104.02-3 is only applied to the quantity exceeding 125% of the estimated quantity.

TABLE 104.02-3

% Increase	Factor
25 to 28	0.95
29 to 35	0.94
36 to 42	0.93
43 to 51	0.92
52 to 61	0.91
62 to 72	0.90
73 to 85	0.89
86 to 100	0.88
101 to 117	0.87
118 to 138	0.86
139 to 163	0.85
164 to 194	0.84

195 to 233	0.83
234 to 284	0.82
285 to 354	0.81
355 to 400	0.80

104.02.D.2 Revise the first sentence in the last paragraph as follows:

When the increase in quantity or decrease in quantity of any unit price contract item does not exceed the limits set forth in Tables 104.02-1, 104.02-2 **and 104.02-3**, the change is considered a minor change.

104.02.D.2 Add to the end of the last paragraph -

Contingency **and change order** quantities will not be included in the quantity change calculation used for the unit price adjustment factors shown in Table 104.02-2. In addition, quantity changes related to items that the decrease/increase is due to an exchange of quantities on similar work items (i.e. Catch Basin Adjusted to grade vs. Reconstructed to grade or Manhole Adjusted to grade vs. Reconstructed to grade), will not be considered for a price adjustment.

105 CONTROL OF WORK

105.02 Change the Title of this section to:

“Plans, Working Drawings and Submittals”

At the end of the third paragraph, add-

SUBMITTALS

All submittals shall be directed from the Contractor to the Project Engineer, unless otherwise specified. Direct submittals from subcontractors or suppliers will not be accepted.

All submittals shall reference the appropriate contract item, the Contractor's name, the contract title and location, and the date of submission.

a. Information for the Record

1. The Contractor shall submit to the Engineer a copy of all certificates, licenses, and permits required by Local, State, and Federal laws.
2. Material Certificates. shall be submitted for materials such as, topsoil, seed, tack, etc. The certificate shall state that the products have been sampled and tested in accordance with the proper industrial and governmental standards and meet the requirements of the Specifications.
3. Progress Schedules. See 108.03(A)
4. Pipe laying schedules shall be submitted to the Engineer.
5. Shop Drawings. The Contractor shall submit shop drawings for the Engineer's project file. The contractor shall be responsible for approving shop drawings from their suppliers. In addition, the Contractor shall indicate all variances, if any, from the contract documents.

b. Information for Review and Approval

1. Concrete, asphalt, or other material mix designs must be submitted to the Engineer for review and approval prior to use.
2. Samples. shall be provided as required in the specifications. Samples shall be of the precise material proposed to be furnished. The number of samples and sample size shall be of industry standard unless otherwise stated.

105.04 Delete Items A,B,C,D, E & F and add the following –

- A. Addenda
- B. Part B Bid Book
- C. Plans
- D. Part A – Standards & Specifications
- E. City of Toledo Standard Construction Drawings

- F. Ohio Department of Transportation, Supplemental Specifications
- G. Ohio Department of Transportation, Construction and Material Specifications
- H. Ohio Department of Transportation, Standard Drawings

105.05 Delete the first paragraph and replace with the following –

The Department will supply the Contractor with one set of Contract Documents in a digital format.

105.07 Add after paragraph four -

The Contractor shall conduct his work and activities so that all valves and regulators are accessible in case of emergency. The Contractor shall also leave the facility accessible and notify the utility of any leaks, suspected leaks, or damages to any facility of the utilities.

In no case shall the Contractor operate, disconnect or disturb any valve or appurtenance of the utilities without approval for each specific case.

Where excavations are made near or under any utility facilities, the Contractor shall make proper arrangements with the utilities involved, and provide evidence in writing from the utility that proper arrangements have been made for supporting the utility facility in an approved manner, and which is sufficiently substantial to insure against settlement when the trench is backfilled. Supporting utility facilities will be at no cost to the City of Toledo.

Service boxes shall be raised or lowered as required to meet finish grades in sidewalks, drives and lawn areas. Contractor to obtain permission from utility owner prior to adjusting service boxes. Cost for service box adjustments will be included in the appropriate bid item and at no additional cost to the City of Toledo.

Where service boxes are located in new concrete pavement, asphalt pavement or sidewalk, the service box covers shall be cleaned, be free of concrete and or asphalt and shall be operational. Cost for cleaning will be at no cost to the City of Toledo.

105.13 Add –

Haul Routes: TMC 339.01 (b)(1)(2)(3) requires contractors to establish haul routes if 300 cubic yards or more of excavation or fill materials are moved to or removed from a site. Haul route requests shall be submitted, in writing, for approval, to the Division of Traffic Management (fax 419-245-1310) as representative for the Director of the City of Toledo Department of Transportation.

Unless authorized by haul permit, the Contractor is prohibited from transporting equipment, materials and surplus excavation on boulevards or streets with posted load limits.

105.14 Add at the end of the second paragraph -

When work is suspended for winter shut down, the contractor shall ensure that any exposed subgrade is covered with the aggregate base and that the underdrain system is operating as designed. Leaving the subgrade exposed to the weather is not permitted.

105.16 Change the title of this section to –

“Borrow, Waste Areas and Disposal of Material”

Add –

DISPOSAL OF MATERIAL

The Contractor shall make excess excavated materials, not required on the project, available to abutting properties at no cost to them, in amounts and kind determined by the Engineer. The Contractor shall not enter upon such abutting property until the owner thereof has given his written consent to enter his property, and holding both the City and the Contractor free from any liability for damages to the property caused by depositing dirt or other materials thereupon. Any materials not required for the project in excess of the above stipulation shall be disposed of as follows:

- A. The Contractor will handle all environmentally sensitive materials in a manner consistent with all regulations that govern the treatment and disposal. The Contractor shall advise the City of the specific location(s) he intends to utilize

in conjunction with the disposal of any potentially environmentally sensitive materials. The City reserves the right to approve or disapprove any such locations, and the Contractor shall provide whatever available information the City requests to aid the City's evaluation of the Contractor's proposed disposal site.

B. The Contractor may wish to make arrangements with the Manager of Solid Waste at 419-936-3077 for the disposal of any clean excavated materials such as sand, stone, bricks, or stone pavement materials to be used at City Landfill sites.

The Manager of Solid Waste reserves the right to limit, direct, and even prohibit the disposal of materials at such landfill sites at any time during the term of this contract, and such actions by the Manager of Solid Waste will be no cause for adjustment to any unit bid price in the Contractor's proposal, if the Contractor chooses this option.

C. Any material not to be disposed of as herein specified shall be the property of the Contractor and be disposed of by him in either case with no additional compensation than that set forth in the unit prices bid in the Contractor's Proposal, under the Unit Price Contract.

D. In any event, the Contractor shall comply with the provisions of Chapter 753, Toledo Municipal Code, "Waste Hauling Services", to the extent it is applicable. Chapter 753 of the TMC says, in part, that dirt, rock, and concrete may be deposited upon private property with written approval of the property owner, and in accordance with applicable local, state, and federal law. If the material being deposited is to be reused, recycled, or reclaimed for the beneficial use of the private property or the contractor, then a waste hauler's license is not required. However, the Contractor, for itself and its related entities, agents, employees, subcontractors and the agents and employees of said subcontractors, agrees to and shall indemnify, hold harmless and defend Toledo, its successors, assigns, officers, employees, agents and appointed and elected officials, for any claim, cost, loss, damage or obligation whatsoever in nature (including reasonable attorney fees and expenses) arising out of or through in any way from any contractor third party agreement regarding the handling of said materials. Should

it be necessary to dispose of materials other than those excluded from consideration in TMC Chapter 753, the contractor shall provide to the Engineer, prior to conducting the work, the name, address, and phone number of the hauling subcontractor, the type of waste being hauled, and the location where the materials will be deposited. In such case, the contractor or subcontractor shall secure a waste hauler's license.

- E. No material may be disposed of in a regulatory floodplain, floodway, wetland or streambed without obtaining the required permits from the City Division of Building Inspection and the Corps of Engineers and obtaining prior written approval from the Engineer.

REMOVAL OF EXCAVATED MATERIAL, CONSTRUCTION DEBRIS AND STORAGE OF MATERIAL

All excess excavated material that has been stockpiled at the work site and any construction debris, which will not be used for backfill or other fill purposes, must be removed from the project area within forty-eight (48) hours. In all cases, stockpiles of all excavated material and all construction materials shall be of limited size and shall be neatly maintained in such a manner that they will not inhibit drainage or be hazardous to pedestrian or vehicular traffic in any way. The size limitations of said stockpiled materials shall be as determined by the Engineer. The limitation relative to the stockpiling of all excavated material and all construction materials shall be controlled by the Engineer. In the event the Contractor fails to remove excess excavated material as required above, or fails to satisfactorily modify his operations relative to the stockpiling of excavated or construction materials upon order of the Engineer, all work except cleanup operations will be stopped, and remain stopped, until the order of the Engineer has been complied with."

107 LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

107.01 Add –

PREVAILING WAGE RATES

Pay to all labor employed on the Contract, wages in accordance with the prevailing labor wage schedules of Toledo, Ohio, and in accordance with Ordinance No. 91-57, amending and

supplementing Section 187.12 of the Toledo Municipal Code and with the provisions outlined under House Bill 1304 (O.R.C. Section 4115).

No contract award will be made until the successful bidder submits proof that he pays and will continue to pay, during the life of this contract, a minimum wage in accordance with the "Schedule of Prevailing Hourly Wage Rates Ascertained and Determined by the Department of Industrial Relations, State of Ohio, for the Toledo Area", in effect at the time of the contract bid advertising date, for the industry involved.

Contractors performing contracts within the City of Toledo are subject to the provisions of the Fair Labor Standards Act, as amended by Congress. All provisions within said Act are to be strictly adhered to by the contractor, particularly as to minimum wage and the maximum number of hours that may be worked before overtime wages are paid.

ANTI-DISCRIMINATION ORDINANCE

Any contract awarded must comply with the provisions of Ordinance No. 487-54, the 1964 Civil Rights Act, and the contractor "shall not refuse to employ any person on account of the race, color, sex, national origin, age, ancestry, sex or religion of such person."

TOLEDO INCOME TAX ORDINANCE

Contractors and their subcontractors performing contracts within the City of Toledo, are subject to the provisions of the Toledo Income Tax ordinance requiring them to pay the current effective tax rate on net profits attributable to their activities in Toledo, and to withhold Toledo tax on wages paid to non-resident employees performing services within the City of Toledo, and to withhold Toledo tax on the entire wages paid to employees who are residents of the City of Toledo whether such residents are employed within or outside of the City of Toledo

107.10 Add after first paragraph -

The Contractor, where possible, shall limit access to the bare minimum to reduce construction dirt and debris and to protect both public and private property. All trees and shrubs not specifically shown to be removed shall be protected at the Contractors expense. In addition, the contractor shall not park any vehicles or

store equipment or materials in the grass area within the drip line of any trees.

At no time will the Contractor enter private property without the express written consent of the property owner prior to entry. Any damage to public or private property shall be repaired immediately at the Contractor's expense.

Any sidewalk or driveway that is currently in existence shall be replaced promptly (48 hours) if removed due to inadvertent damage as part of the construction.

107.13 Delete and replace with -

When the City notifies the contractor that a motorist reported damage to its vehicle within the work zone either verbally or in writing, the Contractor shall respond to that motorist within three days of such notification to handle any potential claims.

107.19 Add –

PREVENTION OF AIR POLLUTION THROUGH DUST AND DIRT CONTROL

It shall be the responsibility of the Contractor to prevent air pollution through dust and dirt control on the project. This applies to the work areas within the limits of the contract as well as all haul roads leading to or away from the project that are used by the Contractor, his sub-contractors, and his material suppliers, and paved areas that could be subject to soil erosion from the project.

Control of Fugitive Dust: As required by the Toledo Municipal Code section 1783.01 and the Ohio Administrative Code 3745-17-08(B), the Contractor shall take all reasonable available control measures to prevent fugitive dust from becoming airborne.

At a minimum, the following methods of control shall be used:

- A. The streets and haul roads shall be swept by an automatic self-contained mechanical sweeper meeting the requirement of Elgin-White Wing-Model 475, Wayne Model 475, Wayne Model 880, or an approved equal having a dust control water system.

- B. Water or other suitable dust suppression chemicals shall be used for control of fugitive dust from grading of roads, demolition of existing buildings or structures, and construction operations including saw cutting.
- C. Dust collection equipment, such as hoods and fans, shall be installed to adequately enclose, contain, capture and vent the fugitive dust emitted from operations when application of water and chemicals is not adequate to prevent dust from becoming airborne.
- D. All excessive dirt on the pavement shall be removed by means of hand shoveling or appropriate mechanical equipment and the area swept as in Method A above.
- E. Sidewalks and driveways shall be cleaned by means of shovels and hand brooms or approved mechanical equipment.
- F. If authorized or directed by the Engineer, any dust remaining shall be controlled as per Section 616, State of Ohio, Department of Transportation "Construction and Materials Specifications".

The Contractor shall comply with the above requirements on a daily basis. If the Contractor fails to perform the above work in a satisfactory manner, all work, except cleanup operations, will be stopped immediately by the Engineer until the Contractor has complied with the above requirement to the satisfaction of the Engineer. If the Contractor is found to be in violation of the Toledo Municipal Code section 1783.01 and the Ohio Administrative Code 3745-17-08(B), the Contractor may be subject to a Notice of Violation and enforcement actions by the Ohio Environmental Protection Agency. All costs incurred for the prevention of air & water pollution through dust and dirt control shall be included in the appropriate bid items.

OZONE ACTION DAYS

In order to prevent the release of ozone creating substances, this could put Lucas and Wood counties in violation of federal ozone standards, the City of Toledo requests that contractors suspend construction operations on declared Ozone Action Days. Contractors will be notified by the Construction Engineer of this status on the afternoon preceding the Ozone Action Day. The

contract completion date will be extended by two days for each occurrence if the contractor decides to postpone operation by 4:30 pm the day prior to the Ozone Action Day; hence, liquidated damages will not be assessed for this delay.

SEDIMENT AND EROSION CONTROL REQUIREMENTS

Any person (contractor) performing earth-disturbing activities within the City of Toledo is responsible for any sediment and erosion control on the project site, including compliance with all Local, State and Federal regulations and permits applicable to this work. If such person (contractor) is found to be in violation of the Toledo Municipal Code section 941 they may be subject to a Notice of Violation and enforcement actions by the Ohio Environmental Protection Agency.

Any person performing earth-disturbing activities within the City of Toledo shall employ temporary sediment and erosion control Best Management Practices (BMP's) during construction. Temporary BMP's shall be designed and installed per the latest Ohio EPA General Stormwater NPDES permit.

A Stormwater Pollution Prevention Plan (SWP3) shall be developed for all sites that entail an earth disturbance of 2,500 sq. ft. or greater. The SWP3 shall be in compliance with all City of Toledo, Ohio Environmental Protection Agency (OEPA), National Pollution Discharge Elimination System (NPDES), Ohio Department of Natural Resources (ODNR) and Clean Water Act regulations and permits. SWP3 plans must be submitted to the City of Toledo Division of Engineering and Construction Management for review. No earth disturbing work may occur until the initial SWP3 has been reviewed and accepted by the City. Plan approvals and building permits for private construction within the City of Toledo will not be signed off on by City of Toledo Stormwater until an initial SWP3 has been reviewed and accepted by the City of Toledo Division of Engineering and Construction Management.

Any project that entails an earth disturbance of 2,500 sq. ft. or greater shall be subject to Post-Construction Best Management Practices per the City of Toledo Infrastructure Design & Construction Standards and the OEPA NPDES permit.

Any project which entails earth disturbing work over 1 acre must submit a Notice of Intent (NOI) or Co-Permittee NOI to the OEPA.

Contractor is to notify City of Toledo, Division of Environmental Services at 419-936-3015 three days prior to starting construction for the purpose of monitoring erosion and bmp measures.

107.21

Revise the second through fourth sentences to read -

Contractors are prohibited from holding retainage from subcontractors that can provide a bond. For unbonded subcontractors and suppliers, promptly release any retainage held, as set forth in any subcontractor or supplier agreement, 30 days after the work is satisfactory completed. For purposes of this section, satisfactory completed will be interpreted as when the subcontractor has completed all physical work and submitted any necessary documentation required by the specifications and the Department.

108 PROSECUTION AND PROGRESS

108.02 Delete Entire first paragraph on Partnering

108.02.A Replace the second sentence with -

3 days prior to the preconstruction meeting, contractor shall submit the initial progress schedule, emergency contact information and the maintenance of traffic plans to the City of Toledo Construction Engineer. Progress schedule to be in a bar chart format according to 108.03.

108.02.B Delete entire section.

108.02.C Delete the last sentence.

108.02.D Delete entire section.

108.02.E Delete entire section.

108.02.G Delete subsections 1, 2, 3, & 4 and add:

Dispute Resolution and Claims Process

Dispute Process

The City will accept disputes and claims from the Contractor on behalf of itself or its

subcontractors and suppliers. Disputes and claims directly from subcontractors and suppliers will not be accepted. Disputes and claims include but are not limited to disagreements, matters in question, and differences of opinion between the City of Toledo's personnel and the Contractor and requests for additional money and/or time.

The process includes two steps; the first of which must be fully completed before the second step may be exercised. All work, including that in dispute, shall continue during this process and the City will continue to pay for work as it and this dispute process progress.

Step 1 (Initial Consideration)

Within two working days of receipt of the Contractor's Written Early Notice, as set forth in 108.02.F.2, the City's Project Engineer and supervising Senior Professional Engineer, or their alternates (the "City Team"), will meet with the Contractor's superintendent. They shall review all pertinent information and contract provisions applicable and attempt to reach a resolution. The City Team will issue a written decision of the Step 1 dispute within 14 calendar days of the meeting. If the dispute is not resolved the Contractor must either abandon or escalate the dispute to Step 2.

Step 2 (Review Committee)

Within seven calendar days of receipt of the Step 1 decision, the Contractor must submit a written request for a Step 2 committee meeting to the Commissioner of the City's Division of Engineering and Construction Management. The Commissioner shall call together a Review Committee comprised of any City employees or agents needed to comprehensively analyze the dispute. Within 14 days of said request the Contractor shall submit an original and two copies of a dispute packet (the "Packet") to the Commissioner containing the following:

1. A cover page that clearly identifies the project title, Contractor name and any subcontractor or supplier name if applicable.
2. An explanation that clearly and, in sufficient detail, gives the required information including precise dollar amount, for each item of additional compensation sought and the precise amount of time extension requested.
3. A narrative of the disputed work or project circumstances at issue, which shall include applicable dates of the work or circumstances at issue and the date of the Written Early Notice.
4. Each issue identified above shall include a reference to the applicable provision of the plans, specifications, proposal or other Contract documents and a copy of the specific provision, specification, proposal or document.

5. All relevant correspondence, pertinent documents and cost and supporting documentation to justify the Contractor's dollar amounts sought and its position.

The Step 2 meeting shall take place within 14 days of receipt of the dispute packet, and the commissioner's written decision within 14 days after the Step 2 meeting.

108.02.H Delete entire section and replace with –

A post construction meeting may be scheduled at the request of the contractor or the engineer.

108.02.I Delete entire section.

108.03.A.3 Add after last sentence –

The Contractor shall submit an updated schedule with each pay estimate during the duration of the project in order to show work completed and any changes to the schedule. Failure to submit this schedule could result in withholding the pay estimate until the updated schedule is supplied.

108.06.A Delete the last sentence in the first paragraph and replace with -

Any extension of the completion date will be agreed to on a change order, then executed through a supplemental agreement to the contract.

108.06.D.2. Delete and replace with -

“Delays due to City owned utilities.”

109 ACCEPTANCE, MEASUREMENT AND PAYMENT

109.05.A Replace the first sentence of the second paragraph -

In establishing the method of payment for contract changes or extra work, force account procedures shall ONLY be used, when strictly necessary, as authorized by the engineer and when the engineer has determined that a reasonable unit price is not attainable; such as when the extent of work is unknown or is of such character that a price cannot be determined to a reasonable degree of accuracy. The reason(s) for using force account procedures shall be

documented.

109.05.B Add to the end of second paragraph –

Failure to submit within five business days shall result in liquidated damages of \$500 per occurrence for change orders up to \$5000.00 and 10% per occurrence for change orders above \$5000.00.

109.05.B.2 Delete the first sentence and replace with -

Average unit price awarded for the item(s).

109.05.C.1 Add to the end of paragraph two –

Contractor shall submit all force account paperwork to the Engineer within 45 days of completing force account work. Failure to submit paperwork within this required time frame shall result in liquidated damages of \$500 per occurrence for force accounts up to \$5000.00 and 10% per occurrence for force accounts above \$5000.00.

109.05.C.10 At the beginning of paragraph six –

Delete “Upon conclusion” and replace with “Within 30 days of completion”

109.05.D.2.f Delete entire section

109.05.D.2.g Delete entire section

109.09 Delete first sentence of the first paragraph and replace with –

If satisfactory progress is being made, the Contractor will receive monthly payments equaling 96% of the work and materials in place, with the balance being retainage. In addition, a Contractor Affidavit and DBE / MBE Affidavit shall be executed, on forms provided by the City, and submitted with each payment.

Add –

Execute on forms provided by the City and submit an affidavit for each pay estimate.

109.10 Delete the first sentence of the first paragraph and replace with-

When the contractor requests payment for stored materials, the City, at the discretion of the Engineer, may pay up to 75% of the applicable contract item, for the invoiced cost of the delivered and approved materials before they are incorporated in the work. Applicable items considered for payment will be large or special order items that represent a significant portion of the project cost and will not be incorporated into the project within 30 days of delivery. In addition, approved materials must be delivered, accepted, and properly stored on the project or stored in an acceptable storage place in the vicinity of the Project.

109.12.D.4 Add -

In addition, a waiver of lien, a final wage payment affidavit, a maintenance bond and supplemental agreement, if applicable, will be required before the final payment will be made.

The date as specified on the "Final Inspection Report" shall be the date of acceptance of the project.

109.12.E Add -

MAINTENANCE BOND

Maintain the work for a period of TWO (2) years beginning on the date of the FINAL INSPECTION REPORT issued by the City for the work. Maintain the work in "good order and repair". The determination of what is "good order and repair" will be by the "Director", and his decision will be final and conclusive and binding upon the parties, subject to the provisions of this Proposal, bound herewith.

The Contractor shall execute a Maintenance Bond on the form provided by the City, in an amount equal to fifty percent (50%) of the final cost of the project, with sufficient Surety or Sureties to the satisfaction of the Mayor. Said Maintenance Bond shall be executed prior to the Final Payment for the work."

201 CLEARING AND GRUBBING

201.06 Add -

Trees indicated to be removed, or directed for removal by the Engineer, will be paid for under the appropriate unit price bid item. Additional tree removals requested by the Contractor must be

approved by the Engineer and shall be performed at no additional cost. If City crews elect to perform tree removal, Contractor shall reimburse the City for the actual cost of any tree removal requested by the Contractor which is not indicated for removal on the plans or directed for removal by the Engineer.

202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

202.04 Add –

Removal and disposal of pipe **4-inch** inside diameter and smaller shall be incidental to the cost of excavation.

202.05 Add -

Removal of any underdrain to be included in the cost of curb removed.

202.11 Delete the first paragraph and replace with -

For all manholes, catch basins, pull boxes, etc. to be abandoned, remove existing structure to a minimum of 12 inches below any pavement subgrade (incl. walk, drive, etc.) and fill remaining structure with low strength mortar backfill per Item 613 to an elevation three feet below finish grade, Remainder of structure to be filled with backfill materials specified in 611.02, unless otherwise directed by the Engineer.

Add the following after the third paragraph –

For all pipes to be abandoned, fill with Low Strength Mortar Backfill per Item 613. Both ends of each pipe shall be sealed using concrete stoppers or masonry of a type and thickness to fill the pipe, unless otherwise directed by the Engineer.

202.13 Revise the first sentence to read -

Payment is full compensation for all work involved in the removal and storage, reuse, or disposal of structures and obstructions, including excavation and backfill incidental to their removal, saw cutting, removing the contents of the underground storage and septic tanks and the custody, preservation, storage on the Right-of-Way, and disposal as provided in this specification.

A-22

203 ROADWAY EXCAVATION AND EMBANKMENT

203.06 Add –

F. Excavated areas that are to become subgrade under proposed pavement, paved shoulder, paved median, curb and gutter, or driveway shall be compacted in accordance with Item 204.03.

204 SUBGRADE COMPACTION AND PROOF ROLLING

204.02 Delete the fifth paragraph and replace with -

Furnish Geogrid that conforms to:

Product Properties

<u>Index Properties</u>	<u>Test method</u>	<u>Units</u>	<u>MD value¹</u>	<u>XMD value¹</u>
• <u>Aperture dimensions</u>	<u>Direct measurement²</u>	<u>in.</u>	<u>1.0 – 1.6</u>	<u>1.0 – 1.6</u>
• <u>Minimum rib thickness</u>	<u>Direct measurement²</u>	<u>in.</u>	<u>0.05</u>	<u>0.05</u>
• <u>Tensile strength @ 2% strain</u>	<u>ASTM D6637-01</u>	<u>lb/ft</u>	<u>410</u>	<u>620</u>
• <u>Tensile strength @ 5% strain</u>	<u>ASTM D6637-01</u>	<u>lb/ft</u>	<u>810</u>	<u>1,340</u>
• <u>Ultimate tensile strength</u>	<u>ASTM D6637-01</u>	<u>lb/ft</u>	<u>1,310</u>	<u>1,970</u>

Structural integrity

• <u>Junction efficiency</u>	<u>GRI-GG2-05</u>	<u>%</u>	<u>93</u>
• <u>Flexural stiffness</u>	<u>ASTM D7748</u>	<u>mg-cm</u>	<u>750,000</u>
• <u>Aperture Stability</u>	<u>US ACE method³</u>	<u>N-m/deg</u>	<u>0.65</u>

Durability

• <u>Resistance to installation damage (SC/SW/GP soil)</u>	<u>ASTM D6637-01</u>	<u>%</u>	<u>95/93/90</u>
• <u>Resistance to long-term degradation</u>	<u>ASTM D6637-01</u>	<u>%</u>	<u>100</u>
• <u>Resistance to UV degradation</u>	<u>ASTM D4355-05</u>	<u>%</u>	<u>100</u>

A-23

1. Unless indicated otherwise, values shown are Minimum Average Roll Values (MARV)
2. Maximum inside dimension in each principal direction measured by calipers.
3. Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 N-m) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with U.S. Army Corps of Engineers Methodology for measurement of Aperture Stability Modulus (Torsional Rigidity).

204.03 Delete and replace the third sentence of the first paragraph with –
Determine the maximum dry density using AASHTO T 99.

204.04 Add after the third paragraph –

When additional undercutting is required to stabilize a previously stabilized subgrade, the contractor shall remove and replace the aggregate, geotextile fabric and geogrid to an area and depth determined by the Engineer. Bid unit prices shall be used for payment of this work.

206 SUBGRADE STABILIZATION

206.05D Delete the last sentence in the first paragraph and replace with –
Utilize white curing compound per 451.11.

304 AGGREGATE BASE

304.05 Delete the first sentence of the fifth paragraph and replace with –
The Engineer will determine the maximum dry density using AASHTO T 99. The Engineer will use at least 100% of the maximum dry density for acceptance.

304.08 Add –
Failure to provide material tickets to the City within five (5) work days shall result in non-payment for the material.

305 PORLTAND CEMENT CONCRETE BASE

305.02 Add to the end of the fifth paragraph –

The curing membrane shall be non-wax based, W.R. Meadows 1625, or approved equal.

401 ASPHALT CONCRETE FIELD OPERATIONS

401.05 Delete the last sentence in the fourth paragraph and replace with -

Use an approved chemical WMA additive during production, if approved, with the minimum pavement and air temperatures of 40° F (5° C).

401.08.D Add at the end of the **third** paragraph -

Pavement having a width of 20 foot or less shall be paved full width with a single unit paver unless otherwise authorized by the Engineer.

401.10 Add the following before the last sentence of the last paragraph -

Surface course shall not pond water more than 3/8" at any location, including at the transition from existing pavement to new, nor more than 1/4" at new curb ramps. After surface course is placed, any location of ponding water will be brought to the attention of the contractor for correction before final release of retainage.

401.12 At the end of the first paragraph, add -

Failure to provide material tickets to the City within five (5) work days shall result in non-payment for the material.

407 Tack Coat

407.08 Add –

Provide material tickets to the Department the same day paving operations occurred. Material tickets shall have certified weights converted to gallons. For weights that are questionable or

unknown, a volume-measuring device is required before accepting the material.

Failure to provide material tickets to the City within five (5) work days shall result in non-payment for the material.

441 ASPHALT CONCRETE – MIX DESIGN AND QUALITY CONTROL

441.04 Add –

The Department will pay for accepted quantities in accordance with the plans. Any asphalt placed over plan quantity and/or thickness specified shall be done only as directed by the Engineer.

442 SUPERPAVE ASPHALT CONCRETE

442.04 Replace in first paragraph –

PG64-28 with PG70-22M

446 ASPHALT CONCRETE CORE DENSITY ACCEPTANCE

446.04 Add to Table 446.04-2 -

If more than two (2) cores have density results of less than 93% or greater than 96.9% compaction no bonus for compaction will be given.

451 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

451.07 Add at the end of the 8th paragraph -

The Contractor is responsible for protecting concrete during cold weather. Cold weather protection will be at no additional cost to the City.

451.10 Delete the last paragraph.

451.11 Add to the end of the fifth paragraph –

A-26

"When the atmospheric temperature is 32°F (0°C) or less at the time concrete is placed, or it is predicted by weather forecasts to occur during the curing period, concrete pavement, base, curb, sidewalk, etc. shall be cured a minimum of five (5) days with straw and sheeting per 705.06 or burlap blankets per 705.05. A membrane curing compound shall not be used."

451.13 Add the following before the last sentence in the third paragraph:

Finished concrete surface shall not pond water more than 3/8" at any location, including the transition from existing pavement to new, no more than 1/4" at new curb ramps. After concrete surface is placed, any location of ponding water will be brought to the attention of the contractor for correction before final release of retainage.

455 QUALITY CONTROL PLAN, TESTING AND ASSURANCE FOR QC/QA CONCRETE

455.01 Add –

City of Toledo testing is always considered quality assurance "QA" to verify at any time that the contractor provided product that meets specifications. The City may choose to test any concrete item at any time for quality assurance. This includes but is not limited to compressive strength from concrete cylinders, modulus of rupture from beam breaks, air tests, slump test, etc.

602 MASONRY

602.03.E Delete and replace the last two paragraphs with -

Mortar shall be proportioned as follows: one (1) part Type 1A cement, two and one-half (2 1/2) parts mason sand and one twentieth (1/20) part hydrated lime by volume. The non-shrinking mortar shall be Five Star Grout, Grout Corp.; Sauereisen F-100 Grout, Sauereisen Cement Company or equal.

608 WALK, CURB RAMPS AND STEPS

608.03.C Delete and Replace "Saw or form" in the sixth sentence with "Tool"

Add -

Sidewalks on bridge decks shall be saw cut every 10 feet as a minimum.

Add -

"Tool longitudinal joints."

Delete and replace the last sentence with –

Construct transverse expansion joints per City of Toledo Construction Standards and in such a manner that the joint will be filled to within one-half inch (1/2") of the surface of the walk, at intervals of not more than twenty-five feet (25'), unless otherwise specified by the Engineer. Place joints at the grooved division lines, truly normal to the grade. Whenever concrete sidewalks abut other walks, steps, curbs, manholes, catch basins, building foundations, utility poles, etc., provide one-half inch (1/2") thick expansion joints. Effectively separate walk at expansion end of bridge and approach. Clean all concrete from the top of the pre-molded joints and edge as specified above.

608.07

Add –

Construct curb ramps to meet City of Toledo **Construction Standards and Public Right Of Way Accessibility Guidelines (PROWAG)**. Finished curb ramps shall not pond water more than 1/4" at any location. After curb ramp and adjacent pavement is placed, Contractor shall test each curb ramp for ponding in the presence of the Inspector using hydrant water or rain water. Any location of ponding water shall be corrected before payment of the curb ramp item and final release of retainage. If the completed ramp does not meet the specifications, the contractor shall remove and replace the ramp at no additional cost to the City.

When a new curb ramp is constructed adjacent to an existing asphalt pavement, the asphalt along the new curb and ramp shall be saw cut at a minimum distance of 2 feet from the face of curb, removed (milled) to a depth of 1-1/2 inches, and replaced with Item 441 Asphalt Concrete Surface Course, Type 1. This patch shall be sealed around the perimeter with asphalt cement. Cost for this

work shall be included in the unit price bid for Item 608 Curb Ramp.

608.09 Add –

Detectable Warning devices shall be included in the Curb Ramp item. Concrete walk and curb within the entire Curb Ramp area will be paid for separately under their respective walk and curb items related to either Curb Ramp item.

609 CURBING, CONCRETE MEDIANS, AND TRAFFIC ISLANDS

609.04.A Add after the first sentence of the fourth paragraph –
Test the alignment of all exposed faces of the curb or curb and gutter for trueness during construction and after removal of the forms. Satisfactorily correct any variations or displacement that exceeds one-quarter inch (1/4") from the established line in a ten-foot (10') length or replace the curb or curb and gutter, as directed by the Engineer. Make height transitions from 6" curb to curbs of lesser-exposed height over a distance of 5 feet.

609.04.B Delete and Replace the Second Paragraph with -

Place concrete for curb that is integral with the concrete base or pavement at the same time that the pavement is placed. If this is not possible, as determined by the Engineer, install No.5 tie bars vertically in the pavement at one-foot intervals and in a line 3 inches inside of and parallel to the edge forms. Install these tie bars 3-1/2 inches into the pavement and 2-1/2 inches above the pavement surface when placed. Water cure this horizontal construction joint between the concrete base or pavement and the curb, or membrane cure the concrete base or pavement and remove the membrane before placing the curb. Immediately before placing the concrete curb, brush mortar consisting of one part cement to one part sand and ½ part water into the surface of the pavement or base on which the concrete curb is to be placed. Place curb within 90 minutes. Do not allow the mortar to dry before placing the curb on top of it.

611 Pipe Culverts, Sewers, Drains, and Drainage Structures

611.01 Delete last sentence and add -

This work shall include excavating for pipe and foundations for same, including clearing and grubbing and the removal of all pavements, materials and obstructions necessary for placing the pipe except removals listed separately; furnishing and placing granular or concrete bedding, and initial backfill and backfill as required; supporting adjacent and crossing utilities; constructing and subsequently removing all necessary cofferdams, cribs and sheeting; pumping and dewatering; sealing or banding all pipe joints where required; furnishing and installing all necessary pipe bends and branches of a type at least equal to the conduit of which they become a part; joining to existing and proposed appurtenances as required; performing leakage tests as specified; and restoration of disturbed facilities and surfaces when a separate bid item is not provided.

Milling and removal of the temporary stone and or asphalt within the trench limits shall be incidental to the unit price of the conduits and or structures.

611.02 Delete all references to conduits listed under Type A, B, and C except for the following:

	<u>Material</u> <u>Specs</u>	<u>Joint</u> <u>Specs</u>
<u>Reinforced concrete circular pipe</u>	<u>706.02</u>	<u>ASTM C-443</u>
<u>Reinforced concrete elliptical pipe</u>	<u>706.04</u>	<u>ASTM C-990</u>
		<u>ASTM C-877</u>
<u>Precast reinforced concrete box sections</u>	<u>706.05</u>	<u>ASTM C-990</u>
		<u>ASTM C-877</u>
<u>Vitrified clay pipe (extra strength only)</u>	<u>706.08</u>	<u>ASTM C-425</u>
<u>Polyvinyl chloride solid wall pipe</u>	<u>707.45,</u> <u>(Cell Class 12454)</u>	<u>ASTM D-3212</u>
<u>Polyvinyl chloride solid wall pipe (> 15-inch)</u>	<u>707.48,</u> <u>(PS115, Cell Class 12454)</u>	<u>ASTM D-3212</u>

All pipes and fittings shall be appropriately marked in accordance to applicable ASTM Standards for the purpose of identification and shall be subject to inspection and rejection at the factory, project or other point of delivery.

Add the following table of pipes permissible for conduits Type A, B and C (less than or equal to 30 inch size) for storm sewers on private projects, outside of the right-of-way.

	<u>Material Specs</u>
Aluminized CMP	
Corrugated aluminum alloy pipe	707.21 or 707.22
Corrugated aluminum box culverts	707.25
Corrugated steel spiral rib pipe	707.12
Corrugated aluminum spiral rib pipe	707.24
Corrugated polyethylene smooth lined pipe	707.33
Smooth-wall polyvinyl chloride underdrain pipe	707.41
Polyvinyl chloride corrugated smooth interior pipe	707.42
Polyvinyl chloride profile wall pipe	707.43

Pipe materials for private underground detention systems other than specified above, will be allowed with the inclusion of PE stamped and signed shop drawings and an As-Built certification of the installation method.

Delete section H and replace with -

Bedding and initial backfill materials shall be durable gravel, sand or crushed stone meeting the requirements of 703.11 Type 1, Type 2 or Type 3.

Backfill materials shall meet the requirements of 703.11 Type 1. Suitable backfill material may be used in areas outside the pavement area as defined in 203.02.R.

The fraction of these materials passing a No. 40 sieve shall have a liquid limit not greater than 30 and a plasticity index not greater than 6.

The sodium sulfate soundness loss for all aggregates except sandstone shall not exceed 15 percent. However, where the major portion of the unsound material in a coarse aggregate acquires a mud-like condition when tested for soundness, the maximum loss shall be five percent for all uses. In addition, open-hearth and basic-oxygen furnace slag shall conform to stockpiling and aging requirements of 703.01.

In lieu of the above granular material, the Contractor may use, at his own expense, unless otherwise specified on the plans, Low Strength Mortar Backfill (LSMB) Type 1 or Type 2 per Item 613. The LSMB shall be cement based fill material that can be deposited in a fluid state. It shall be composed of Portland cement, fly ash/fine aggregate material, and water.

A-31

Removed or excavated materials may be incorporated into the work when the material conforms to the specifications, is free of foreign matter or frozen fragments and approved by the Engineer; if not, then recycle or dispose of the material according to 105.16 and 105.17.

Delete second to last paragraph starting with "If a precast reinforced concrete box..."

611.03 Definitions.

Delete 'Backfill' and replace with -

Backfill- Material used to fill the trench or excavation, not including the bedding or initial backfill material.

Add -

Initial Backfill- For Rigid conduit, the haunch and side-fill embedment material above the bedding to the pipe springline. For Flexible conduit, the haunch and side-fill embedment material above the bedding to 12" over the top of the pipe.

Long span structure- Includes all of the following material kinds: 706.05, 706.051.

Premium Joint- For rigid conduits resilient and flexible gasketed joints. For flexible conduit elastomeric gasketed joints.

Rise- The conduit rise is the vertical distance from outside wall to outside wall measured at the middle of the conduit.

611.04.B Installation Plan – Delete this section in its entirety.

611.04.C Construction Inspection Forms – Delete this section in its entirety.

611.04.D Performance Report – Delete this section in its entirety.

611.05 Delete the entire section and replace with-

Excavation. Measure trench width at the span of the conduit. Center the trench excavation about the centerline of the conduit. Use Method A for a cut situation, and use Method B for a fill situation.

Method A. Excavate the trench for the conduit. Provide vertical trench walls to 1' over the top of the pipe.

If long span culvert is used, provide a minimum trench width of the span plus 2 feet on each side.

If rigid pipe is used, provide a minimum trench width of the span times 1.33.

If plastic or corrugated metal pipe is used, provide a minimum trench width of the span times 1.25 plus 1 foot.

Increase these minimums to a width that allows the jointing of the conduit, and the placement and compaction of the backfill.

Method B. Construct the embankment to a height at least half of the rise and to width on each side of the conduit two times the span of the conduit before excavating for the conduit. Excavate the trench in the constructed embankment to a width conforming to method A above.

Furnish a firm foundation for the conduit bed for its full length. The Engineer will require the removal of unsuitable material below the conduit bedding or below the bottom of the conduit if the bedding is not required for the width of the trench. Replace the unsuitable material with structural backfill. Remove rock or shale in the conduit foundation for at least 6 inches below the bottom of the bedding. Replace the rock or shale with structural backfill. Unless in the contract documents, the Department will pay for this work according to 109.05.

If the Engineer changes the flow line by more than one foot, the Department will pay according to 109.05.

611.06 Delete the entire section and replace with –

Type 1 bedding consists of structural backfill extending at least 6 inches below the bottom of the conduit for the full width of the trench.

Use type 1 bedding for 706.05 or 706.051.

Type 2 bedding consists of structural backfill extending at least 3 inches for all rigid pipe and 6 inches for all flexible pipe below the

bottom of the conduit for the full width of the trench. Provide initial backfill extending up around the pipe for a depth of not less than 50 percent of its outside diameter or rise for rigid pipe, and a depth 12" over the pipe for flexible conduits. Shape the bedding to fit the conduit with recesses shaped to receive the bell of bell and spigot pipe. Leave the bedding below the middle 1/3 of the pipe span uncompacted.

Use Type 2 bedding for Types A, B, C, and D conduits except for long span structures.

Below all drainage structures including manholes and catch basins, provide bedding consisting of a minimum of 8" of approved granular material that is level and allows uniform support of the entire area of the structure base. Construct bedding material for a minimum distance of 1' from the outside wall of the structure.

Place and compact backfill. Do not use compaction equipment exceeding 1 ton or hoe packs until 2 feet of backfill is compacted on top of the pipe. Do not use compaction equipment exceeding 8 tons until 4 feet of backfill is compacted on top of the pipe.

For Long Span Structures: Place and compact structural backfill over the top of the section to a minimum depth of 4' or to the subgrade elevation whichever is less and for a width of 2' on each side of the section. Use soil embankment, or structural backfill to construct the adjacent embankment and for the remaining depth to the subgrade. Construct the adjacent material according to Item 203.

For Type A, B and D Conduits (except for Long Span Structures): Place and compact approved granular material or LSMB above the initial backfill for the full depth and width of all trenches. Pavement shall include, but is not limited to roadways, curbs, sidewalks, service walks, driveway approaches, parking lots or any proposed paved surface or as defined in the City of Toledo Construction Standards.

For Type C Conduits: For flexible conduit, place and compact the initial backfill to 12" over the top of the pipe. Then place and compact approved excavated material for the full depth of the trench. For all other conduit, place and compact approved excavated material for the full depth of the trench. This material may only be used in areas outside the pavement area as defined above.

Place soil or granular material in lifts not to exceed 8". The City will perform all compacting testing. Compact soil and granular material to 100 percent of its maximum dry density and in accordance to Supplement 1015. Compact using mechanical devices, hoe packs, jumping jacks, hand devices, vibrating plates, or other equipment that meets the restrictions in this section. Provide compaction equipment that compacts the material under the haunch. If the compaction equipment cannot fully compact the material under the haunch, supplement the compaction equipment by using shovel slicing, spud bars, or mechanical spud bars to compact the material under the haunch of the pipe. Use shovel slicing and spud bars in conjunction with the compaction operations to compact the material and to manipulate the material under the haunch of the pipe. If using trench boxes, configure the trench box so that the bedding, initial backfill and backfill material is compacted directly against the trench walls.

Backfill all structures, regardless of location, unless otherwise approved by the engineer, with approved granular material or LSMB. Extend the backfill material for a minimum distance of 1' from the outside wall of the structure.

Where drainage around structures is required, the drainage system should be installed and backfilled with a granular material before the placement of LSMB mix. The quality control test procedure for LSMB by the manufacturer shall include: Test for Unit Weight, ASTM C-138, and Test for Compressive Strength, ASTM C-39. No special protection for the LSMB is needed under normal construction conditions, except extremely early loading. When traffic will be maintained, the contractor shall furnish plates to bridge the trench for the first 24 hours, or as directed by the engineer. After 24 hours, or as directed by the Engineer, the Contractor may install permanent or temporary paving materials.

611.07

Delete the last three sentences of the second paragraph.

Delete the third paragraph and replace with –

Lay the conduit in the center of the trench at the invert elevation shown on the plans. Start at the outlet end with the bell or groove-end laid upgrade. Ensure that the conduit is in contact with the bedding for its full length and maintain the line and grade of the conduit. Rejoin, re-lay, or replace conduit that have settled, or that

are damaged as determined by the Engineer. Installation of plastic gravity sewer pipe to be in accordance with ASTM D2321, unless otherwise amended by City Standards.

Delete the 4th paragraph and replace with -

“Lay all conduits according to the following requirements.”

Delete 611.07 “M” and replace with -

“Fill all lifting holes in rigid conduit with non-shrink mortar. Lift holes are not permitted for conduits designed for sanitary sewer applications.”

Add new section 611.07 Q. after section 611.07 P. –

Q. When a sewer conduit is installed by the boring method, a continuous steel casing pipe shall be used per 748.06. The casing shall be of large enough diameter to provide a minimum clearance of 2 inches between the pipe bell and the inside of the casing, to allow the conduit to be blocked and/or wedged to prevent floatation. The casing shall then be filled with LSMB commencing in a manner to expel air until the entire casing is filled.

Add new section 611.07 R. after section 611.07 Q. –

R. When sewer bypass pumping is required, bypass pumps and or generators to be housed in a sound attenuation enclosure capable of reducing pump noise to 69 dB or less at 30 feet.

611.08 Delete the second & third paragraph and replace with -

Assemble joints and install conduit in accordance with the pipe manufacturer's recommendations unless otherwise amended by this document. All completed premium joints shall provide a watertight seal. Fittings such as wyes, tees, bends, adaptors, etc., shall be factory made in accordance with the approved manufacturer's shop drawings to equal dimensions and will provide equivalent strength and joints when assembled as compared to the mainline specifications.

Delete section B in it's entirely and replace with –

B. All Type A, B, C, D & E conduits used for construction of storm and sanitary sewer shall contain premium joints, (excluding long span structures and 706.04 pipe), and conform to the approved pipe materials listed under Item 611.02.

1. For all rigid conduit, (706.02, 706.04, and 706.08), seal the joint using the applicable method.
 - a. For 706.04 pipe, apply 706.10 to the pipe in sufficient quantity to completely fill the joint once the pipe is placed in its final position at a gap of 1" or less. After placing the pipe in its final position, point and trowel the 706.10 to form a smooth transition on the inside and a complete seal on the outside. Cover the exterior joint with a 12-inch wide strip of joint wrap in accordance with the manufacturer's recommendation. Center the joint wrap on the joint. Use a continuous length of joint wrap sufficient to extend around the top of the pipe to the bedding material on both sides.

-or-

Apply 706.14 to the pipe in sufficient quantity to seal the joint but not necessarily fill the joint once the pipe is in its final position at a gap of 1" or less. Before installing the joint sealant, prime both surfaces of the joint, (bell & spigot), with asphalt based primer according to the joint seal manufacturer's recommendations. Cover the exterior joint with a 12-inch wide strip of joint wrap in accordance with the manufacturer's recommendation. Center the joint wrap on the joint. Use a continuous length of joint wrap sufficient to extend around the top of the pipe to the bedding material on both sides.

2. After placing 706.05 or 706.051 in their final position with a (max) joint gap of 1", clean the joint gap or joint of all debris and perform the following:
 - a. For 706.05 joints, fill the top exterior joint gap and the bottom and side interior joint gap with mortar. Next, for any exterior joint not covered by membrane waterproofing, cover the exterior joint with a 12" wide strip of joint wrap. Center the joint wrap on the joint. Use a continuous length of joint

wrap sufficient to extend from the bottom of the vertical face on one side to the bottom vertical face on the other side.

- b. For 706.051, fill the top keyway joint with 705.22. The side or leg joints shall also be filled with 705.22 for the key way type joint or filled per 706.05 for a tongue and grove type joint. Clean the joint of all debris immediately before installing the joint filling material. Prepare, place, and cure the 705.22 according to the manufacturer's recommendations. Wet all surfaces of the keyway joint, but do not allow excess water in the joint. Next, for any exterior joint not covered by membrane waterproofing, cover the exterior joint with a 12" wide strip of joint wrap. Center the joint wrap on the joint. Use a continuous length of joint wrap sufficient to extend from the bottom of the vertical face on one side to the bottom vertical face on the other side.

Delete section C and replace with -

Plastic Conduit. "Join plastic conduit using elastomeric gaskets. If using bell and spigot joints drive the spigot securely into the bell and ensure that the gasket is properly seated after joining."

Add the following Section E –

E. When it becomes necessary to connect two (2) conduits of different size and/or dissimilar material, up to and including twenty-four inches (24"), for any reason, make the connection using a flexible coupling or donut as manufactured by the Fernco Joint Sealer Co., Ferndale, Michigan; Logan Clay Pipe Co., Logan, Ohio; Mission Clay Products Corp., Corona, California; or equal. For conduits in excess of twenty-four inches (24") in diameter, the construction of a masonry collar shall be required as shown on the plans or as directed by the engineer. The cost for the flexible connections and collars, including any extra excavation or labor for their placement, shall be included in the unit bid price for the appropriate 611 item.

611.10 Add to the third paragraph -

"Fill all lift holes with non-shrinking mortar. Joints between manhole sections shall conform to ASTM Specification C-443 (Rubber Gaskets) and sanitary sewer manholes shall also contain a 7/8-inch mastic bead per ASTM C990."

Add to seventh paragraph with –

“Unless otherwise specified, sanitary sewer conduits shall be connected to new precast structures using a Kor-N-Seal boot, or approved equal. Storm sewer conduits shall be connected to new precast structures using a waterstop gasket and non-shrinking mortar or Kor-N-Seal boot. When connecting a storm or sanitary conduit to an existing precast structure, the connection shall be core drilled, then use a waterstop gasket and non-shrinking mortar to make the connection. When a storm or sanitary sewer conduit is connected to an existing brick or block structure, use a waterstop and non-shrinking mortar to make the connection, unless otherwise stated on the plans or as directed by the engineer.”

Approved waterstop gasket shall be Fernco Type Concrete Manhole Adapters or equal as approved by the Engineer.

Delete paragraph D.1 and replace with -

“Carefully remove and clean the existing casting, remove and repair/replace up to twelve inches (12") of the existing brick or block structure as necessary, adjust the height of the supporting walls and reset the casting in a bed of concrete mortar or structure concrete to the new grade.”

Add -

“Whenever a structure is adjusted or reconstructed to grade in a pavement, the work shall include the removal and replacement of any necessary pavement and curb, and the installation of the concrete collar per City of Toledo Construction Standards. Type 3 and 3A Catch Basins adjusted or reconstructed shall also include providing and installing a new precast top section with beam. All costs associated with this work shall be included in the unit price bid for the appropriate 611 item.

Add –

Install internal chimney seals in all new sanitary and storm manholes and in all sanitary or storm manholes to be adjusted or reconstructed. The chimney seal shall cover the area from the casting to the precast concrete dome section. Cover all of the adjusting rings. Contact the City of Toledo for a current list of acceptable products. If H.D.P.E. adjusting rings are installed in

accordance with the Current City of Toledo Construction Standards, in lieu of concrete adjusting rings, chimney seals will not be required.

Add –

After the work is done on any drainage structure, final acceptance by the City of Toledo will not occur until all construction materials and/or debris is removed from the structure and disposed of.

611.11 Delete the last two sentences of the first paragraph.

611.12 Delete entire section and replace with –

Performance Testing. Perform deflection testing on all flexible conduit for sanitary & storm sewers. Test all sections between structures (i.e. manholes, catch basins, inlets, chambers, headwalls, etc.). Deflection shall not exceed 5% of the pipe diameter. Test pipe at least 30 days after pipe installation.

Storm & Sanitary sewers shall be televised after installation. Dewater the conduit if the water level hinders the performance of the equipment. Pan and tilt type camera shall be used. Operator shall pan up all laterals. All construction debris shall be removed from the sewer. If construction debris is found, the sewer shall be cleaned and re-televised. This process shall be repeated until all construction debris is removed from the sewer. Any visible leakage shall be repaired. Structure numbers shall be displayed on the video indicating which structure the inspector is traveling from and to, regardless of flow direction. Structure numbers (i.e. legacy identification numbers) shall be obtained from the City of Toledo. General manhole and catch basin numbers shown on plans shall not be used. All video shall be recorded in a digital (mpeg) format and shall be accompanied by a written log. A separate file and log sheet shall be provided for each sewer segment televised, named with the corresponding structure numbers televised. Cost for all work under this item shall be included in the unit price for the sewer. One copy of the video shall be provided to the city.

Test type B and C conduits with premium joints for infiltration and exfiltration per ASTM C-969, or individual joint acceptance per ASTM C-1103, or ASTM F1417 time-pressure drop method for 1 psig pressure drop; except the leakage rate for sanitary sewers shall not exceed 100 gallons per inch of diameter, per mile of

conduit, per 24 hours. The Engineer may waive this requirement if connections to active taps make it impractical. In this case the sewer shall be televised in accordance with the previous paragraph.

Vacuum test all new sanitary manholes per ASTM C-1244. Test from top of casting to invert. Provide documentation of test results.

611.13 Delete this section in its entirety.

611.14 Delete this section in its entirety.

611.15 Delete the second sentence.

611.17 Add –

If the “Basis of Payment” for Manholes is bid per Vertical Foot, the payment for the construction of the manholes will be as measured from the structure invert to the top of the casting.

613 LOW STRENGTH MORTAR BACKFILL

613.03 Add -

Provide mixes with an unconfined compressive strength between 50 and 100 pounds per square inch at 28 days when tested according to ASTM D 4832. Ensure that the long term (12-month) unconfined compressive strength is less than 100 pounds per square inch.

614 MAINTAINING TRAFFIC

614.03 Add –

Maintenance of Traffic shall conform to the requirements presented herewith:

General

Traffic shall be maintained at all times during the construction of the project. The maintenance of traffic, including furnishing of all labor, materials and equipment (including lights, barricades and signs) shall be the responsibility of the Contractor at no additional cost to

the City of Toledo in accordance with the current editions of the Ohio Manual of Uniform Traffic Control devices, the Ohio Temporary Traffic Control Manual, and the City of Toledo Manual for Uniform Traffic Control for Construction and Maintenance. Performance shall be in accordance with Item 614. In addition, the contractor shall coordinate traffic control with the public utilities working in the right-of-way, such as but not limited to Columbia Gas, Toledo Edison, Ameritech, the Division of Water, Buckeye Cablevision and their subcontractors.

The above is not meant or to be construed to specifically exclude or absolve any agency of the responsibility for providing the necessary elements of traffic control to safely guide the public through the construction areas.

The Ohio Temporary Traffic Control Manual and the City of Toledo Manual for Uniform Traffic Control for Construction and Maintenance, current editions, shall govern traffic control operations on this project, except as modified in this document.

Special emphasis will be placed on the following items:

Drum and Vertical Panel Spacing: Drum and Vertical panel spacing used in delineation applications shall be no further than 10 feet apart within fifty feet of all intersections and 25 feet apart for all other applications.

Arrow Boards: The Contractor will be required to supply arrow boards on all streets where the posted speed limit is above 25 MPH during all construction phases according to "The Ohio Manual of Uniform Traffic Control Devices for Streets and Highways", the Ohio Temporary Traffic Control Manual, and the City of Toledo Manual for Uniform Traffic Control for Construction and Maintenance, current editions, or as directed by the Commissioner of Traffic Management.

Traffic Lanes: One ten-foot (10ft) traffic lane in each direction shall be provided at all times and a left turn lane shall be provided at all signalized intersections. The Commissioner of Traffic Management may allow further lane restrictions and/or lane closures when requested by the contractor for unusual or unforeseen circumstances, but may also require other conditions be met (i.e. use of arrow boards, flaggers, restricted hours, additional signage, etc.)

The use of one traffic lane with alternating 2-way traffic will be allowed ONLY when approved by the Commissioner of Traffic Management. If approved, then at least two flaggers must be used during work hours along with any other conditions necessary during non-working hours in accordance with the Ohio Temporary Traffic Control Manual and the City of Toledo Manual for Uniform Traffic Control for Construction and Maintenance, current editions.

Except as herein provided, paragraphs 107.07 and 108.04 of the State of Ohio Construction and Material Specifications shall govern. The Contractor shall be required to adhere to the "Restricted Construction Area" listed as indicated in the "City of Toledo Manual for Uniform Traffic Control for Construction and Maintenance".

Overhead Lane Control Signage: The contractor shall be responsible for the modification of overhead lane controls to coordinate with Maintenance of Traffic lane usage. This may entail, but is not limited to, covering, moving and/or replacing said signage.

Maintaining work zone: Once a project work zone is set up, the contractor is responsible for maintenance of all items within the project limits (including existing pavement defects, dips, etc. in the traffic zone) that may be hazardous, and any obstructions or structures in the traffic lanes that could cause problems. Existing defects in the travel lanes within the project limits as mentioned above shall be temporarily patched or protected, to the satisfaction of the Engineer, to alleviate potential hazards to the travelling public during construction. The Contractor shall monitor said patches, protective devices, signage, etc. for any corrective action needed. Any costs associated with the above mentioned work shall be included the pertinent Maintenance of Traffic Item.

Unless otherwise noted in the contract documents, openings and/or trenches in local roadways/routes need to be temporarily filled to the surface with compacted granular material over granular backfill as specified until the permanent pavement is placed. Openings and/or trenches in roadways other than local roadways/routes will require a minimum of three inch (3") temporary asphalt (or cold patch material) over compacted granular backfill as specified until the permanent pavement is placed. The contractor shall monitor and repair all temporary patches as needed. All work to install, maintain, and remove said patches shall be at no additional cost to the City of Toledo. Failure to properly maintain these patches will

result in liquidated damages of \$300 per calendar day. Local roadways/routes are depicted on the Lucas County Functional Routes Map. A copy of the map can be found at: http://www.dot.state.oh.us/Divisions/Planning/ProgramManagement/MajorPrograms/MapRoom/Rural%20County%20Map_Lucas.pdf

The Contractor shall, at his own expense, place and maintain temporary accesses or walkways (i.e. boardwalks, driveways, bridges, crossings, etc.) deemed necessary by the Engineer to reasonably accommodate the public. If it becomes necessary for the Contractor to suspend work during winter months, he shall provide and maintain said items until work is resumed on the project. Should the Contractor fail to provide these items within a reasonable time after suspension of work, the City will do the work at the Contractor's expense. The Contractor shall provide lights and barricades necessary to protect the public and the work. The Contractor must maintain proper barricades and fences to properly protect persons, animals and property against injury. He shall also furnish and maintain all required traffic control devices on all approaches leading to his work as may be directed by the Engineer. These statements of specific duties of the Contractor shall not be construed as a limitation on the general duties imposed by the specifications. Failure to abide by the above requirements will result in liquidated damages of \$300.00 per calendar day.

Existing signs and traffic control devices within the work limits shall remain in use during the construction period unless otherwise specified by the Engineer. If the Contractor needs to relocate or modify existing signs or other traffic control devices as a consequence of his work, he shall provide suitable supports and may modify the devices after obtaining approval from the Engineer and the City of Toledo Division of Traffic Management. The Contractor shall reinstall all signs to the position and condition, which existed prior to construction as directed by the Engineer.

If the Contractor desires to totally close a street or a traffic lane thereof, he shall notify, in writing, the Division of Traffic Management (fax 419-245-1310) AT LEAST SEVEN (7) DAYS prior to starting work and shall have obtained approval of his request from the Division of Traffic Management prior to commencing work. A copy of the closure request shall be provided to the Engineering and Construction Management Project Engineer. Road closures will not generally be permitted for the removal and/or installation of curb, walk, driveways or drainage

structures on any street, unless necessary to provide a safe environment for traffic, as determined by the Commissioner of Traffic Management. During these types of construction activities, flaggers shall be used, where necessary, to provide safe access to traffic.

Road closures and major traffic lane modifications requiring Division of Traffic Management personnel support for traffic signal work will be scheduled by Division of Traffic Management crews during normal working hours, which are from 7:00 a.m. to 3:30 p.m. Monday through Friday, excluding City holidays, unless otherwise approved by the Commission of the Division of Traffic Management.

Road closures and major traffic lane modifications requiring detour routes shall be setup and maintained by the contractor in accordance with the contract documents. All material, equipment and labor costs for detour route establishment, including necessary signage, message boards, etc., shall be included in Item 614 ~ Maintaining Traffic.

The Contractor shall notify the Division of Traffic Management (419-245-1300), at least forty eight (48) business hours prior to the need for removal of any sign(s)/post(s) within the project area. The Division of Traffic Management may choose to perform the removal of these signs/posts. The Contractor shall, under no circumstance, remove and/or relocate any Stop sign or Yield sign. The Division of Traffic Management shall be notified immediately of any damage or disruption to such traffic control devices.

In the event that the Division of Traffic Management deems it necessary that no parking signs be erected on streets where construction is to take place, and that it would be in the best interest of the City of Toledo that the Contractor erect said signs; after giving a minimum of five (5) days' notice to the Division of Traffic Management, the Contractor shall pick up the necessary signs from the Division of Traffic Management Sign Shop, 110 N. Westwood Avenue, (419-245-1300). The signs shall be placed by the Contractor 24 hours preceding the start of work and at maximum 200 foot spacing. The signs shall be removed immediately following completion of the roadway work or as determined by the City Construction Engineer.

Adjustments or reconstruction of structures and any road surface

irregularities created by the Contractor shall be identified by warning signs giving notice thereof; i.e., the "Rough Road" sign (W8-8) with the appropriate advisory speed sign (OW13-1). Cost for said signs shall be included in the Maintenance of Traffic bid item.

The contractor shall provide sufficient barricades, signs, and other measures necessary to keep pedestrians, vendors and vehicles from marring and defacing new concrete curb, driveways, sidewalks, pedestrian curb ramps, etc. In the event concrete marring and acts of vandalism do occur prior to the concrete hardening, resulting concrete blemishes shall be completely repaired or replaced to the satisfactions of the Engineer at no additional cost to the City.

The Contractor shall designate a person whose primary responsibility will be to maintain all traffic control devices and to insure their proper functioning at all times. This person shall be available to begin repairs or replacement of any damaged, deficient, or improperly placed traffic control items within thirty (30) minutes of notification of said damage or deficiency. The Contractor shall also furnish the Project Engineer and Engage Toledo Customer Service Center (419-245-1000) the name and telephone number where any traffic control difficulties may be reported, on a twenty-four (24) hour basis, any time the designated traffic control person is not on the project.

The Contractor shall be responsible for inspecting the placement, condition and operation of all traffic control devices at least once per night between the hours of 11:00 p.m. and 4:00 a.m. including, but not limited to, weekends and holidays during the duration of the contract. If, on such inspection, the placement, condition and operation of any of the traffic control devices fails to comply with the requirements of the contract and the regulations outlined in the Ohio Temporary Traffic Control Manual and the City of Toledo Manual for Uniform Traffic Control for Construction and Maintenance, current editions, the Contractor shall take whatever immediate steps are necessary to correct any and all deficiencies in this regard.

The Contractor shall insure that each piece of heavy equipment and/or each work area is clearly marked in a conspicuous place with a sign giving the name(s) and telephone number(s) of the person(s) to call in the event of an emergency. Sufficient numbers

should be listed to insure that a responsible person can be contacted at all times.

Access for residents and emergency vehicles shall be maintained where possible. Inconvenience to the adjacent residents shall be kept to a minimum.

The Contractor shall furnish, install, maintain, and remove proper temporary retro-reflective pavement markings on all pavements, within the work limits, exposed to traffic. Centerlines and lane lines shall consist of 12" x 4" segments spaced at a maximum 20 foot center to center. Double yellow segments shall be required at all intersections and as directed by the Engineer. If proper temperatures for final pavement markings and/or surface course are not obtainable, the temporary markings will be required at no additional cost to the City.

Markings shall be accurately laid out in conformance with 614.11 and shall be located in a true line on the centerline, lane line or channelizing line where normal permanent markings would be, unless otherwise specified in the plans or as directed by the Division of Traffic Management.

614.09

Add -

A Law Enforcement Officer (LEO) may be required for the following tasks:

- Lane closures during initial set-up periods, tear down periods, substantial shifts in traffic flow.
- During the advance preparation for a complete blockage of traffic when a closure sequence is required.
- During a traffic signal installation.

LEO's should not be used where OMUTCD calls for flaggers to be used. The LEO's are considered to be employed by the contractor and the contractor shall be responsible for their actions. However, the Engineer shall have control over their replacement if deemed necessary. The official patrol car shall be a public safety vehicle as required by the Ohio Revised Code.

The Contractor shall make arrangements for these services by contacting the following:

Lucas County Sheriff
1622 Speilbusch Ave.
Toledo, OH 43604
Phone: 419-245-4900

State Highway Patrol
Toledo Patrol Post
10391 Airport Hwy
Toledo, OH 43558
Phone: 4119-865-5544

The City of Toledo
Police Department
525 North Erie St.
Toledo, OH 43604
Phone: 419-245-3246

The hours paid shall include minimum show-up time required by the Law Enforcement Agency involved. LEO's, including patrol car, shall be paid for per hour under Item 614 – Law Enforcement Officer with Patrol Car.

If the contractor wishes to use utilize LEO's for flagging and traffic control other than for that required in these plans, he may do so at his own expense. Costs associated with the above mentioned additional use of LEO's shall be included under Item 614 Maintaining Traffic.

614.11 Delete paragraph 614.11 G.1.b. – Covering Conflict Markings

614.14 Add –

The Contractor shall furnish, install, maintain and remove proper temporary retro-reflective pavement markings on all pavements, within the work limits, exposed to traffic.

NON-COMPLIANCE IN PERFORMING MAINTENANCE OF TRAFFIC ITEMS: If the Contractor fails to immediately correct Maintenance of Traffic deficiencies after verbal notification from the City, the City may enforce liquidated damages in the amount of \$750.00 per violation per calendar day. Violations may be

identified as but not limited to: proper signage and barricading, height of signs, use of arrow boards, pavement markings, proper lane and/or road closures, etc.

Project/Phase Completion

As the contractor nears completion of a project or project phase, the re-opening of the roadway and/or traffic lanes must be anticipated and coordination of modifications to and/or re-installation of traffic control devices must occur. The contractor shall notify the Division of Traffic Management at least seven (7) days in advance of re-opening a roadway and/or traffic lanes. The Division of Traffic Management will perform the fabrication and installation of required permanent traffic control signs. The contractor shall ensure that all permanent pavement markings are installed prior to re-opening the roadway to traffic. The contractor shall be responsible for removal of all temporary traffic control pavement marking when determined to be no longer required.

Repair of Damages to Traffic Signal Installations

The Contractor shall perform his operations at all times to ensure that traffic signal facilities are not disturbed or disrupted as part of these operations. In the event that the Contractor damages traffic signal conduit, it is his responsibility to immediately contact the Division of Traffic Management (419-245-1300) during normal working hours or via Engage Toledo Customer Service Center (419-245-1000) after normal working hours for investigation and repair. This contact must be made independent of whether the traffic signal continues to function following the damage. Repairs will, at the City's discretion, either be made by the Division of Traffic Management at the earliest opportunity, or direction will be given to the contractor by the Division as to the repairs he will be required to make. The Contractor will be required to assist in the repair(s) by removing debris and/or backfill within the excavation area in order to provide proper access by City Personnel. The Division of Traffic Management reserves the right to invoice the Contractor for repair of any damages found to be directly attributable to the construction either during the construction or at any time following contract completion.

Permanent Traffic Control Devices in Sidewalk and/or Median Areas.

At least one week prior to placing any concrete for median areas or

sidewalk areas directly adjacent to the curb, the Contractor shall contact the Division of Traffic Management (419-245-1300) to evaluate the need for and to mark locations of permanent signing to be located in these areas. The Division of Traffic Management will provide to the contractor, at no charge, PVC conduit "sleeves" to be installed by the contractor at these locations prior to placing concrete and/or decorative brick. In the event that the Contractor does not comply with this provision, the City will, at its sole discretion, either require the Contractor to perform core drilling to allow installation of signs, or will perform core drilling and deduct the cost from final payment.

614.16.B Add –

7. Work zone pavement markings.

614.16.C Delete last sentence from the last paragraph starting with "The Department will pay for aggregate and calcium chloride ..." and replace with -

Aggregate and calcium chloride, authorized by the Engineer and used for maintaining traffic, will be included in payment for Item 614, 'Maintaining Traffic.' When the proposal unit price contract does not contain a bid item for maintaining traffic, include the cost of maintaining traffic, as described under Section 614, in the appropriate bid items.

616 DUST CONTROL

616.04 Add -

When the proposal unit price contract does not contain a bid item for Dust Control items, include the cost of dust control operations, as described under 107.19 and Section 616 in the appropriate bid items.

619 FIELD OFFICE

619.02 At the end of the first paragraph, add -

"But no later than seventeen (17) days from the date of Notice to

Proceed"

Add –

"Location shall be approved by the Engineer prior to placement and shall not be on the Contractor's property. Field office shall be a trailer separate from the Contractor's field office, and shall be kept free of vermin for the duration of the contract"

619.03 Delete the last sentence.

623 Construction Layout Stakes and Survey Monuments

623.06 Add after the first paragraph –

Contractor to contact City of Toledo Survey Department at 419-936-2685 to obtain vertical control information.

623.08 Add after the first paragraph -

When the City of Toledo or Contractor's surveyor performs the construction layout stakes and surveying, the following shall apply: Stakes shall be placed at an interval of 50 feet on all straight sections of roadway and marking all horizontal/vertical changes. In a horizontal/vertical curve the stakes will be at an interval of 25 feet. The Contractor is responsible for the preservation of all stakes and marks. Lath will be provided when offset stakes are not visible from the proposed centerline of survey due to a vertical change of more than 3 feet. If any City of Toledo placed construction stakes, marks, or lath have been carelessly or willfully destroyed or disturbed by the Contractor, the cost of replacing them will be deducted from the payment for the work.

Upon request of the Contractor, the surveyor will stake right-of-way at changes in alignment and at intermediate intervals if necessary due to limited visibility along the right-of-way line.

If any portion of the project's construction layout is provided by electronic methods, the contractor must use equipment with a real time survey grade global positioning satellite (GPS) receiver or a Total Station and data collector. These devices must meet *ODOT Surveying & Mapping Specifications, Section 602.2 for Total Stations and Section 602.3 for GNSS Receivers*.

A-51

623.08 Add to the end of fifth paragraph –
Notes shall include cut-fill sheets.

623.09 Delete first paragraph and replace with -
If Electronic Instrumentation is used for measurement, the Contractor shall provide the data files used in the field for construction, including but not limited to: DEM's (digital elevation models), DTM's (digital terrain models), TIN's (triangulated irregular network), DXF's (drawing exchange formats), XML Files. DWG's (autocad files), DGN's (microstation), PRO's (terramodel), so that the City can verify the construction layout, perform check sections, and document pay items. All costs associated with the above shall be at no addition expense to the City of Toledo.

624 MOBILIZATION

624.04 Add -
D. When the proposal unit price contract does not contain a bid item for 'Mobilization', the cost of Mobilization, as described under Section 624, shall be considered as a subsidiary cost obligation of the contractor under the various unit price bid items contained in the contract.

630 TRAFFIC SIGNS AND SIGN SUPPORTS

630.05 Add after the second sentence in the first paragraph -
"When excavating for overhead sign support foundations, use hydro-excavating method, earth auger excavation will only be permitted as directed by the Engineer."

632 TRAFFIC SIGNAL EQUIPMENT

632.14 Add to the end of the second paragraph-
"When excavating for poles and/or overhead sign support

foundations, use hydro-excavating method, earth auger excavation will only be permitted as directed by the Engineer.”

638 WATER MAINS AND SERVICE BRANCHES

638.01 Delete the last paragraph -

638.01.A Add after the first sentence –

“This work shall include clearing and grubbing, and removal of all pavements, materials and obstructions necessary for the placement of the pipe, except removals listed separately”

638.01.G Add to end of the first sentence –

“and **enhanced** polyethylene encasement indicated on the plans.”

638.01.I Add –

“City of Toledo personnel will take bacteria samples. Samples are taken on two consecutive days with the second sample taken at least 24 hours after the first. Both samples are read by the City’s lab at least 48 hours after being turned in. Contractor has the option to have samples collected by City personnel Monday through Sunday. Laboratory fees will be assessed to the contractor according to Table 1.”

Table 1 - Water Sample Laboratory Processing Fee Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Scenario No.1	Sample 1 Collected	Sample 1 Coliform Results and Sample 2 Collected	Sample 1 Plate Count Results and Sample 2 Coliform Results	Sample 2 Plate Count Results			
Scenario No.2		Sample 1 Collected	Sample 1 Coliform Results and Sample 2 Collected	Sample 1 Plate Count Results and Sample 2 Coliform Results	Sample 2 Plate Count Results		
Scenario No.3			Sample 1 Collected	Sample 1 Coliform Results and Sample 2 Collected	Sample 1 Plate Count Results and Sample 2 Coliform Results	Sample 2 Plate Count Results, Contractor \$200 Lab Processing Fee	
Scenario No.4				Sample 1 Collected	Sample 1 Coliform Results and Sample 2 Collected	Sample 1 Plate Count Results and Sample 2 Coliform Results, Contractor \$200 Lab Processing Fee	Sample 2 Plate Count Results, Contractor \$250 Lab Processing Fee
Scenario No.5		Sample 2 Plate Count Results			Sample 1 Collected	Sample 1 Coliform Results and Sample 2 Collected, Contractor \$200 Lab Processing Fee	Sample 1 Plate Count Results and Sample 2 Coliform Results, Contractor \$250 Lab Processing Fee
Scenario No.6		Sample 1 Plate Count Results and Sample 2 Coliform Results	Sample 2 Plate Count Results			Sample 1 Collected, Contractor \$200 Lab Processing Fee	Sample 1 Coliform Results and Sample 2 Collected, Contractor \$250 Lab Processing Fee
Scenario No.7		Sample 1 Coliform Results and Sample 2 Collected	Sample 1 Plate Count Results and Sample 2 Coliform Results	Sample 2 Plate Count Results			Sample 1 Collected, Contractor \$250 Lab Processing Fee

Notes:

1. Above schedule assumes passing of two consecutive samples.
2. Fees are based on sample bottles delivered to laboratory per day per project.
3. Set of samples shall be collected every 1200 feet of new water main, plus one set from the end of the line and at least one set from each branch greater than on length of pipe.

638.01.K Add to end of the first sentence –

“unless listed separately.”

638.01.M Add to the end of the first sentence –

“as shown on the plans.”

638.02 Under “Miscellaneous” –

Delete “Granular Material....605.02”

Delete “Pipe bedding....611.02H” and replace with “Pipe Bedding... Natural Sand 703.11 Type 2 (DIP); 703.01, Table 1 – Size No.8 (PVC).

Delete the first paragraph and replace with –

“The Engineer will allow Type 3 Structural Backfill, conforming to 703.11 Size No. 57, to be used as bedding below the pipe only when pumping operations do not control severe ground water problems. Place at least 12 inches of Structural Backfill Type 1, Item 304 on top of the Type 3 Structural Backfill.

638.03.B In the first sentence, after the word “pipes” delete the word “sewers”.

Add to the end of the first sentence -

and any vertical clearances less than 18 inches between new mains and existing sewers.

638.05 Delete and replace with -

“Provide pipe bedding. For ductile iron pipe, use natural sand bedding meeting the requirements of 703.11 Type 2. Use a minimum depth of six (6) inches. The bedding material used in the haunching and initial backfill areas shall be of the same material and extend to a height of not less than six (6) inches above the pipe. For PVC pipe, use granular bedding material meeting the requirements of 703.01, Table 1 – Size No.8. Use a minimum depth of **six (6)** inches. The bedding material used in haunching and initial backfill areas shall be of the same material and extend to a height of not less than twelve (12) inches above the pipe. Provide a uniform and continuous support for the pipe. Compact bedding material as specified by 611.06, as amended in this addenda.”

638.06.C Delete and replace with –

“Do not operate any valve, other control, hydrant, air valve or service stop unless a representative of the maintaining agency is present.”

638.06.I Delete and replace with –

“Install tracer wire over non-metallic waterlines, including service lines.”

638.06.L Delete and replace with –

“Pipe joints shall be restrained per City of Toledo Construction Standards and Water General Notes. Fittings and valves shall be restrained by means of mechanical joints with wedge action restraint per City of Toledo Construction Standards and Water General Notes.

Add new section 638.06.M. after section 638.06.L. –

“Lay pipe a distance of at least 4 feet horizontally from any structure or underground utility, and maintain a minimum 10 feet horizontal separation and 18 inches vertical separation from sanitary and storm sewers.”

638.07 Delete and replace the first sentence with –

“Furnish ductile iron pipe with either push-on joints, mechanical joints, boltless-restrained joints or ball-and-socket joints. Fittings shall be ductile iron, mechanical joint with wedge action restraint.”

Add –

“For ductile iron pipe, use bronze wedges at all push-on joints (two per joint for 4 thru 12 inches and four per joint for larger diameter pipe). Drive wedges into the push-on joint to provide electrical conductivity.” City of Toledo personnel will perform an electrical conductivity test on the new water main after the pressure test has passed. Contractor shall be required to repair, at no additional cost to the city, those joints that fail the conductivity test.

638.08 Delete the first paragraph and replace with –

Complete backfill from the initial backfill to the finished grade, or to the subgrade surface in paved areas. All backfill under pavement shall be granular material. **Backfill material for water mains and appurtenances shall meet the requirements included in the City of Toledo Construction Standards and Water General Notes.** Compaction for water mains and appurtenances shall meet the requirements of 611.06, as amended by this addenda.”

Add –

“Do not use controlled density fill unless the pipe is encased in

A-56

polyethylene. Blast furnace slag will not be permitted."

638.09 Delete the following –

$$L = \frac{ND\sqrt{P}}{7400} \quad (L = \frac{ND\sqrt{P}}{130,000})$$

Replace with the following –

$$Lg = \frac{SD\sqrt{P}}{148,000} \text{ Gallons}$$

in which:

L = Allowable leakage in gallons per hour

S = Length of pipe in feet tested

D = Nominal diameter of pipe, in inches

P = Test pressure during leak test in psi

Pressure not to fall below 150 psi for public water mains

Pressure not to fall below 200 psi for private water mains

Add to the end of the first sentence –

"Plastic blowoff/sampling pipe shall not be permitted."

638.10 After the second paragraph, add –

City of Toledo personnel will take bacteria samples.

638.11 Delete the fourth and fifth paragraph and add –

Ensure that the inside diameter of the casing allows the water main to be removed without disturbing the casing or roadbed. Ensure that the inside diameter of the casing is at least 4 inches greater than the largest outside diameter of the water main joints or couplings. Install casing spacers and end seals per manufacturer's recommendations.

638.12 Delete the first sentence and replace with –
Lay ductile iron pipe and fittings with an enhanced polyethylene encasement.
Delete the second sentence and replace with –
Enhanced polyethylene encasement shall be installed in accordance with AWWA C600 and ANSI/AWWA C105/A21.5.
At the end of the paragraph, add –
Cost of polyethylene encasement shall be included in the unit price bid for Item 638 – Water Main, Ductile Iron Pipe or Item 638 – Water Main, PVC C900.

638.13 In the third paragraph, delete the first sentence and replace with –
Install manholes or chambers on all valves unless otherwise specified on the plans or by the Engineer. Where valve boxes are used,

638.14 Delete the last sentence of the first paragraph and replace with -
Cost of hydrant branch (including up to 20 feet of 6-inch diameter waterline), anchor couplings, fire hydrant, gate valve, and valve box shall be included in the unit price bid for Item 638 – Fire Hydrant Assembly.

638.14.A After the first sentence, add -
Hydrant drain holes shall be plugged using a removable drain plug, if the hydrant is to be located within ten (10) feet of a sanitary sewer, storm sewer, or storm drain. Where the drain holes are not plugged, a stone pocket shall be placed around the base of the hydrant, as shown on the City of Toledo Construction Standards.

638.14.C Delete and replace with –
Construct hydrant branches as shown in the City of Toledo Construction Standards.

638.15 Delete the last sentence of the first paragraph.

638.16 Delete and replace with –
Furnish and install service branches as shown in the Contract Documents.

638.20 Add -
Payment will be limited to 85% of the measured length of pipe installed until testing, compaction, and surface restoration work included in this item are complete.

653 TOPSOIL FURNISHED AND PLACED

653.02 Delete and replace with -
Furnish topsoil consisting of natural, fertile, sandy loam material capable of sustaining vigorous plant growth and of uniform composition throughout. Furnish topsoil that is free of stone, grass, brush, and roots.

Mechanical analysis shall be as follows:

	<u>Range</u>	<u>Average</u>
Sand (0.05 - 2.00 mm dia. range)	30 - 70%	50%
Silt (0.002 - 0.5 mm dia. range)	20 - 45%	33%
Clay (less than 0.002 mm dia. range)	5 - 30%	17%
90% of topsoil shall pass a 2.0 mm sieve		
Organic Matter	6 – 10%	8%
PH	6.0 – 7.5	

If topsoil that has been removed from the site and stockpiled by the Contractor is reused, modify it to meet these requirements:

Topsoil shall be free from stone, lumps, vegetation, plant parts, and all deleterious material.

It shall also meet the same organic matter and PH requirements as for new topsoil.

Add –

The contractor shall provide certification that the topsoil to be used on the project meets the City of Toledo's specifications 14 days prior to placement of any topsoil on the project. (Test data in certification must be within **180** days of the date it is provided to the

City) The contractor will be subject to liquidated damages in the amount of \$100/day for failure to provide proper certification by the time specified above. The City reserves the right to perform random testing on all topsoil placed by the contractor. Any topsoil placed that fails to meet the City's specifications, shall be removed and replaced, reseeded and mulched at the contractor's expense. In addition, the contractor shall reimburse the City for all testing costs associated with this activity.

653.03 Add to the end of the first paragraph –
Unless otherwise specified on the plans, topsoil shall be placed at a thickness of 4 inches.

653.04 Delete and replace with -
The City will measure areas where Topsoil is Furnished and Placed. The number of cubic yards for payment will be computed utilizing the measured areas at the specified thickness. To convert topsoil ticket quantities from tons to cubic yards, a conversion factor of 1.3 tons per cubic yard will be used. Topsoil tickets shall list the suppliers name, address, phone number, mix designation, project location, date of delivery, quantity delivered and truck number.

653.05 Add –
Failure to provide material tickets to the City within five (5) work days shall result in non-payment for the material.
The City will not pay for topsoil placed for restoration of contractor staging and storage areas.

659 SEEDING AND MULCHING

659.09 Table 659.09-1: Delete Class 1 and Replace with –
The seeding mixture for residential and other areas shall be as follows:

Turf Type Ryegrass – Premium,	
Provost, Top Gun II or Accent II	5 lbs/1000 SF (50%)
Creeping Red Fescue	3 lbs/1000 SF (30%)
Kentucky Bluegrass	2 lbs/1000 SF (20%)

All areas defined in Item 104.04 shall be seeded at the rate of not less than eight (8) pounds per 1,000 square feet nor more than ten (10) pounds per 1,000 square feet with the above percentages. All percentages are by weight.

Add -

The seeding mixture for parks and boulevards shall be as follows:

Thunderstruck Tall Fescue (Turf Type)	3 lbs/1000 SF (30%)
Black Tail Tall Fescue (Turf Type)	3 lbs/1000 SF (30%)
Quest Tall Fescue (Turf Type)	3 lbs/1000 SF (30%)
Kentucky Bluegrass	1 lbs/1000 SF (10%)

All areas defined in Item 104.04 shall be seeded at the rate of not less than eight (8) pounds per 1,000 square feet nor more than ten (10) pounds per 1,000 square feet with the above percentages. All percentages are by weight.

A certificate of conformity shall be provided by the seed supplier to the City before any seed is placed.

- 659.10 Delete "of 3 inches (75 mm) or greater in any dimension".
- 659.10 A. Delete "1 inch (25 mm) or greater in any dimension".
Add the following section -
- 659.10.C In the event that temporary seed or volunteer vegetation has been established in areas designated to receive permanent seeding, the contractor shall:
Thoroughly remove any old grass and weeds, either mechanically, by hand or by using herbicide spray. Do not use a residual herbicide as this will remain in the soil. It is important that removal of vegetation is done thoroughly in order that the new seed is not in competition with any existing weeds or plants.
- After removing temporary seeding and vegetation, contractor shall follow standard seedbed preparation for permanent seeding (i.e. tilling, raking or loosening of soil, top dressing with topsoil, fertilizing, etc..).
- 659.12 In the third paragraph –
replace "If broadcast seeding," with "If broadcast seeding is approved by the Engineer," and replace "October 30" with September 30".

Delete the fourth paragraph and replace with –

Between March 1 and September 30, the Contractor shall use hydro-seeding, which applies the mulch, seed, water, and commercial fertilizer in the same operation, unless otherwise approved by the Engineer.

In the fifth paragraph, delete the first sentence and replace with -

Between October 1 and February 28 apply seed according to the project Storm Water Pollution Prevention Plan (SWP3).

659.13 Delete the first paragraph and replace with –

For slopes 3:1 or flatter, mulch materials shall consist of wood fiber, as specified herein. Mulching operation to strictly comply with the hydro-seeding equipment manufacturer's installation instructions and recommendations. Do not mulch during high winds. If broadcast seeding is approved by the Engineer, hydro-mulching will be applied immediately after seeding operation.

659.14 Add the following before the first sentence –

Straw mulch is not permitted within the public right-of-way. Straw mulch is permitted on private projects, outside of the public right-of-way.

659.15 Add -

Mulch for hydro-seeding mixture shall be wood cellulose such as ConWed or Terra-Blend brands or an approved equal.

659.17 Replace at the end of the first paragraph “the mulch material” with -
“the seed, mulching material, or soil.”

659.23 Add before first paragraph –

The Contractor shall guarantee the production of a healthy, uniform, close stand of grass. The grass shall be free of weeds and insects. Bare spots of more than 2% of the total will be unacceptable and the Contractor shall reseed following the specification for the initial installation. All costs associated with growth of the grass shall be the Contractors'.

A-62

659.25 Add-

The City will not pay for seeding and mulching of contractor staging and storage areas.

700 MATERIAL DETAILS

661 Replace “Verify company and brand name is on QPL at time of use.” with “Only accept materials from licensed nurseries. See OMM website for list of Ohio Department of Agriculture list of licensed suppliers.

703 AGGREGATE

703.16.C.3 Delete entire section and Replace with the following –

Granular Material Type C, Modified. Furnish a mixture consisting of 60% material meeting Size No. 1 & 2 per table under 703.19.A and 40% material meeting Item 304 per table 703.17.A.

706 CONCRETE AND CLAY PIPE

706.13 Add –

Supply a certificate from the manufacturer certifying compliance with this section.

748 WATER MAIN AND SERVICE BRANCH MATERIAL

748.00 Add –

For each shipment, furnish a manufacturer's sworn statement that the products furnished and all the materials used in the products' construction conform to the requirements of this specification. All material shall be manufactured in the United States of America. Disregard all statements in this section referring to the Department's Qualified Product List (QPL).

748.01 Delete the last sentence of the second paragraph.

At the end of the second paragraph, add –

“Restrained push-on joints **for ductile iron pipe 24-inch diameter and smaller** shall be Tyton Joints with Field Lok 350 gaskets, Fastite Joints with Fast-Grip gaskets, or equal.”

In the second sentence of the fourth paragraph, delete –

“16-inches (406 mm) or larger”

Add to the fourth paragraph -

“Fittings shall be ductile cast iron, minimum Class 350, and have mechanical joint ends with ductile iron retainer glands. Mechanical joint restraints shall be used on all mechanical joints. **Mechanical joint restraints for ductile iron pipe** shall be EBAA Iron Megalug Series 1100, Uniflange Series 1400 by Ford Meter Box Company, or equal. **Mechanical joint restraints for PVC pipe** shall be **EBAA Iron Megalug Series PV2000, Uniflange Series 1500 by Ford Meter Box Company, Romagrip by Romac Industries, Inc., or equal.** Wedge assembly coating system shall be MEGA-BOND by EBAA Iron, Uniflange E-Coat by Ford Meter Box Company, **Romabond by Romac Industries, Inc.,** or equal. All T-bolts and nuts shall be Cor-Blue, Xylan or equal. Pipe and fittings shall be furnished with a petroleum-asphaltic coating.”

748.02 Delete and replace the first sentence with –

“Furnish PVC pipe conforming to AWWA C900, minimum DR14/Pressure Class 305.”

At the end of the first paragraph, add –

“Restrained push-on joints shall be C900 Certa-Lok, DR14, 305 psi; EBBA Iron Series 1600; Uni-Flange Series 1390 by Ford Meter Box, or approved equal.”

Delete the second paragraph and replace with –

“Fittings for PVC pipe shall be ductile cast iron and shall conform to 748.01, as amended in this addenda.

748.03 In the first paragraph, delete the second sentence.

748.07 Delete and replace with –

Enhanced polyethylene encasement shall meet the requirements of **ANSI A21.5 (AWWA C105)**. In addition, polyethylene encasement shall consist of three layers of co-extruded linear low density polyethylene (LLDPE) **film**, fused into a single thickness of not less than 8 mils.

The inside surface of the polyethylene wrap to be in contact with the pipe exterior shall be infused with a blend of anti-microbial biocide to mitigate microbiologically influence corrosion and a volatile corrosion inhibitor to control galvanic corrosion.

748.08 Delete and replace the first paragraph with –

Gate Valve (12-inch diameter and smaller)

Furnish gate valves conforming to either

- 1) AWWA C509, resilient wedge, or
- 2) AWWA C515, reduced-wall resilient wedge

Delete and replace the second paragraph with –

Gate valves shall be designed for 250 psi working pressure and tested at 500 psi hydrostatic pressure. Gate valves shall open clockwise. Valves shall be furnished with a 2-inch square operating nut with the direction indicated by a clearly visible arrow cast into the valve. Valves shall be supplied with O-ring seals at all joints. No flat gaskets will be accepted. Nuts and bolts shall be 316 stainless steel. Use valves suitable for mechanical joints for ductile iron pipe, unless otherwise specified on the plans.

Add after the second paragraph –

Before shipping, submit 3 certified copies of performance tests, as specified in Section 6 of AWWA C509 or Section 5 of AWWA C500 or AWWA C515 to the Engineer for review.

Delete and replace the first two sentences in the third paragraph with –

Furnish valve boxes that are three-piece adjustable screw type, with a 5-1/4 inch shaft, with cast iron full flange ring and lid and a base corresponding to the size of the valve. For valve boxes in pavement, use Tyler Pipe 6860 Series, or equal, with cast iron body. For valve boxes outside of pavement, use Highline by Oldcastle, Model RVB 111140-03_5-245-48, or equal, with polyiron body.

Add –

Resilient wedge gate valves shall be **ductile iron, mechanical joint**, non-rising stem valves manufactured by American, Kennedy, Mueller, U.S. Pipe, EJIW or Clow.

748.11 Delete the third sentence and replace with –

Tapping sleeves shall be stainless steel with a full circumferential gasket.

748.15 Add to the third paragraph –

The operating nut shall be pentagon shaped and have a tamper-resistant device as approved by the City of Toledo.

Delete and replace the fourth paragraph with –

The main valve port shall be at least 5 1/4 inch diameter. The valve shall be rubber faced.

Delete and replace the last sentence of the fifth paragraph with-

Furnish mechanical joint conforming to ANSI/AWWA C111/A21.11. Nuts and bolts exposed to soil shall be 316 stainless steel.

Delete and replace the first sentence of the sixth paragraph with –

Ensure that the hydrant has one center-front pumper nozzle of 5-inch internal diameter with Storz connector from Harrington, Inc. or Mueller Co. Storz connector shall be an integral part of the hydrant assembly. Add-on Storz-compatible adapters are not acceptable. Secure Storz caps to the hydrant using an 1/8-inch diameter, vinyl-

coated, galvanized aircraft cable, with a minimum length of 18 inches.

Add to the end of the sixth paragraph –

Secure nozzle caps to the hydrant using welded, hot-dipped galvanized or plated chains with links of 3/16-inch diameter steel.

Delete and replace the seventh paragraph with –

Hydrant exterior shall be shop coated using Pittsburgh Paint Brilliant Red (Safety Red) 7-801 Industrial enamel with white bonnet. **Storz connector and cap not to be painted. If finished painted surface is marred or damaged** after the hydrant is installed, the Contractor shall paint the hydrant with one coat of paint.

Add to the eighth paragraph –

Furnish hydrants model Kennedy Guardian K-81-A, Mueller Super Centurion 250 (A-423) or American-Darling B-62-B-5.

832 SUPPLEMENTAL SPECIFICATION – TEMPORARY EROSION AND SEDIMENT CONTROL

832.04 EDA Requirements. Add following before the first sentence – Within the City of Toledo Jurisdiction a Stormwater Pollution Prevention Plan (SWP3) is required for all sites that disturb 2,500 sq. ft. or greater, regardless of the scenarios listed below.

995 SUPPLEMENTAL SPECIFICATION - PRECAST WATER QUALITY STRUCTURE

Wherever reference is made to “precast water quality structure” replace with –

“precast concrete water quality structure”

PROPOSAL

GENERAL PROVISIONS1. MISCELLANEOUS

- a. The quantities shown in the proposal are estimated quantities. The Engineer reserves the right to increase or decrease the estimated quantity for any of the respective items throughout the life of the contract.
- b. Deviations from the requirements and procedures outlined within the proposal can only be granted by written permission from the Commissioner of Engineering and Construction Management or his authorized representative.
- c. When removing or replacing curb, driveway, or walk, if adjacent pavement is damaged due to the Contractor's operations, it is the Contractor's responsibility to repair said pavement at his own expense.
- d. All sewer manhole castings or catch basin castings that are removed and/or replaced under this contract are to be delivered to the City of Toledo Division of Sewers and Drainage Services at 4032 Creekside Ave., between the hours of 7:30am and 2:30pm Monday through Friday (excluding City holidays). The cost of delivery shall be included in the applicable bid items. The contractor shall coordinate delivery with the Engineer.
- e. All existing water manhole and valve box castings that are removed and/or replaced under this contract shall be disposed of by the contractor. Cost for disposal to be included in the applicable bid items.

2. CONDUCT OF WORK

All work shall commence at such points as the Engineer may direct. If the work under this contract conflicts with other work to be done in the same territory for or by the City or public service corporations, utilities or companies, the Engineer will determine when and how the work shall proceed.

The Commissioner of the Division of Engineering and Construction Management, due to public necessity, adverse weather conditions or other reasons, may order all work to be suspended; whereas the Contractor must stockpile all material neatly, fill depressions, provide temporary boardwalks, crossings and take such other means as necessary to protect the public, the work, and to facilitate traffic. The completion date of the contract shall be extended in an amount equal to that

lost by the Contractor. During the progress of the work, the Contractor shall in a reasonable manner accommodate both vehicular and pedestrian traffic.

The Contractor shall at all times perform his work in a neat and proper manner, in accordance with the highest degree of workmanship as accepted in the industry. The Engineer may reject work which, in his/her opinion, does not meet these requirements and/or is considered as having unsatisfactory quality. In such cases, the Contractor shall then remove the deficient work and replace it with work of specified quality.

3. TIME FOR DOING WORK

The Contractor will be required to carry out all work under this contract between the hours of 6:00 a.m. and 8:00 p.m. on residential streets and between the hours of 5:00 a.m. and 9:00 p.m. on all other streets or as otherwise defined within the Maintenance of Traffic provisions in the plans and specifications. No work will be permitted outside of the aforementioned hours or on Sundays, except in cases of emergency, and then only on written permission of the Commissioner of Engineering and Construction Management.

4. PROPERTY TO BE SECURED BY THE CITY

It is the City's intent to provide and make available to the Contractor the real property specified in the plans and specifications in their present form.

5. SALES TAX AND FEDERAL TRANSPORTATION TAX

Contractor shall confer with City Purchasing Agent, who will give him authority to procure certificate, exempting him from sales tax on all materials entering into this contract.

All materials entering into this contract are exempt from Federal Transportation Tax under Internal Revenue code, Section 3475(b), as amended. The Contractor shall have all shipping papers clearly show that the construction material is consigned to the City of Toledo, in care of the Contractor. No certificates of exemption are required.

6. INSPECTION

The Construction Engineer (419-936-2847) and Best Management Practice Inspection (419-936-3015) shall be notified at least seven (7) days in advance of any construction in order to arrange for inspection of the project.

No material of any kind can be used until it has been inspected and certified by the manufacturer, City representative or testing company designated by the Engineer and accepted by the Engineer. The Contractor must furnish all labor necessary in handling such material for inspection. The inspection and supervision by the City is intended to aid the Contractor in supplying all materials and in doing all work in accordance with plans and specifications, but such inspection shall not operate to release him from any of his contract obligations. Materials or workmanship found at any time to be defective shall be immediately remedied by the Contractor regardless of any previous inspection. If the Contractor fails to promptly comply with these requirements, the Engineer may authorize other parties to do this work and deduct the cost thereof from any money due or which may become due the Contractor.

7. BLASTING

Blasting will not be allowed unless the Contractor first obtains a permit from the Police Division, and then only on condition that all blasting powder, dynamite, etc., shall be kept in a secure and approved manner, shall be at all times under the special care of a watchman, and that each blast shall be covered with heavy timber or mats before firing, when so directed. The City reserves the right to revoke such permit at any time. All blasting shall be done in the most careful manner, so as not to endanger life or property; the blasts shall be fired only at such times as may be permitted, and whenever directed the number and/or the size of charge shall be reduced; no claim for loss or delay will be allowed on this account. The explosive to be used shall be subject to the approval of the Police Division. All laws and ordinances relative to the storage and use of explosives must be observed. The Contractor will be held responsible for any damage to the water, gas or drain pipes, sidewalks, conduits, etc.

8. MAINTENANCE OF SEWERS, PIPES, PAVEMENT AND BUILDINGS

Unless otherwise agreed upon in writing, the Contractor shall conduct his operations so that the flow of all sewers which are to remain in service shall be maintained at all times. The contractor shall leave in satisfactory condition any sewers, pipes, submarine power cables, or other conduits uncovered or disturbed by his operations; and, if necessary, he must remove the old ones and build new ones. Also, weep holes in existing retaining walls and abutments shall be opened and caused to flow. All costs associated with the above mentioned work with reference to maintaining sewers, necessary pumping, conduit repair/replacement, etc. shown on the plans or exposed to inspection shall be included in the appropriate contract bid item.

The contractor shall proceed with caution when working in areas adjacent to

existing sewers. Any damage to existing sewers resulting from the contractor's operations or negligence, as determined by the Engineer, shall be immediately repaired by the Contractor at no additional cost to the City of Toledo.

The Contractor shall so conduct his work as to minimize disturbance to existing pavement and buildings, and shall repair and/or reconstruct, to the satisfaction of the Engineer, all such property affected by his operations. The cost of such work shall be included in the unit price bid for the respective construction item.

9. SOILS

The soils in northwestern Ohio, including those at the site of this project, contain background levels of naturally-occurring arsenic which may exceed certain regulatory standards. The reports listed below were used in evaluating this condition and are available for review at the Division of Engineering and Construction Management. It is the responsibility of the Contractor to dispose of all excess soils on this project in areas that will accept this soil with the background levels of naturally-occurring arsenic.

Report dated: July 2008
Prepared by: Mannik & Smith Group
Titled: 'Remedial Action Completion Report'

Report dated: June 21, 1996
Prepared by: Cox-Colvin & Associates
Titled: 'Evaluation of Background Metal Concentrations in Ohio Soils'

Report dated: February 1983
Prepared by: The Ohio State University - Ohio Agricultural Research and Development Center
Titled: 'Evaluation of Background Metal Concentrations in Ohio Soils'

10. SEWER, DRAINAGE, WATER and TRAFFIC STRUCTURES

The Contractor shall be responsible for maintaining reasonably unrestricted access to all public sewer, drainage, water, and traffic structures and valves affected by construction. Access to said structures is required through castings that are not obstructed by lids/grates that are either sealed to their frame or covered with asphalt, stone or other material. The Division of Sewer and Drainage, the Division of Water Distribution and the Division of Traffic Management response crews are not equipped to unseal, uncover, or clear obstacles from these structures in the event of an emergency. If this occurs, the contractor shall unseal, uncover, or remove obstructions in a timely manner at no additional cost to the City.

In the event there is a scheduled suspension of work, i.e. winter shutdown, etc., which prevents final casting adjustments, the contractor shall, when directed by the Engineer, temporarily adjust the castings to grade to provide City personnel access to structures at no additional cost to the City.

The Contractor must conduct all work on or around public manholes in the City of Toledo in a safe manner in accordance with ORD 338-99.

11. USE OF CITY WATER

The Contractor must secure a permit, rent a hydrant meter and wrench and pay for use of City water in this contract per the Department of Public Utilities Rules and Regulations.

12. PROPER SUPPORT OF WATER MAINS AND HOUSE SERVICE LINES

Whenever it becomes necessary to expose, undercut, or in any way disturb the soil supporting a water main or water service lines in the conduct of any of his operations, the Contractor shall be responsible for adequately supporting the water main or water service line, without deflection, during the period in which it is exposed. Proper care shall also be taken to insure that no deflection of the water line occurs during or after back-filling. Water lines may be supported by securing them to planks extending into and anchored in undisturbed ground. These planks shall be left in place during and after backfilling operations. Alternate methods of providing proper support for water mains or house services shall require the approval of both the Division of Water Distribution and the Division of Engineering and Construction Management.

13. EXISTING MONUMENTATION

All existing monuments in the City of Toledo are of permanent character and are a critical part of referencing all survey & design information. Therefore, the exact location of the existing monuments within the project limits must be properly documented, and it will be the contractor's responsibility to contact the City's Chief Surveyor (phone: 419-936-2685 or fax: 419-245-1260) at least 24 hours in advance of disturbing. This referencing will also include any monument that the contractor may locate that is not shown on the plans. Failure to properly document an existing monument will result in the contractor being held monetarily responsible for reestablishing that monument.

14. CLAIMS AGAINST CONTRACTOR

The Contractor hereby agrees that he will promptly pay all bills for labor and materials contracted by him on account of the work herein contemplated. If at any time during the progress of the work or before final payment of any money due the Contractor under the terms of this contract, any claim for labor and materials or for damages by reasons of any acts, omission or neglect of said Contractor in the prosecution of the work, shall be presented to the City, the City may retain such sum or sums from the monies due the Contractor under the contract as would be necessary to discharge all such claims whether for labor or materials or for damages as aforesaid until the validity of such claims shall be established and finally determined. And if established and finally determined as valid, all such claims shall be paid from the amount so retained if it be sufficient for that purpose; otherwise, or if at any time the City shall be satisfied that any of such claims are invalid and groundless, any amount so retained shall be paid to said Contractor, and neither the City nor any official thereof shall be liable to any individual, firm or corporation making such claims for failure or refusal to hold and retain any money due under this contract for the purpose of payment of such claim. If the monies so retained under this contract are insufficient to pay all such claims presented to the City and adjudged by any court of competent jurisdiction to be valid obligations of said Contractor, the party of the first part may, at its discretion, pay the same, and the Contractor shall repay said party of the first part all sums so paid. The said party of the first part may also, on the written consent of the Contractor, use any monies due or to become due under this contract for the purpose of paying any claims presented to the City for labor or materials used in the work.

The Contractor shall furnish waivers of all liens before the final payment, and at such other times as may be required by the Commissioner of Engineering and Construction Management.

15. VERBAL STATEMENTS NOT BINDING

The written terms and provisions of this Agreement shall supersede all verbal statements of the Mayor, Director, or other representative of the City, and such statements shall not be effective or be construed as entering into, or forming a part of, or altering in any way whatsoever, the written Agreement.

16. DBE / MBE AFFIDAVIT

The Contractor shall execute a Disadvantaged Business Enterprise (DBE) and/or Minority Business Enterprise (MBE) affidavit, on forms provided by the City, before each partial payment and final payment. This requirement is in addition to the contractor affidavit requirements per the State of Ohio Construction and Material Specifications.

The City of Toledo has the right to deny payment until the contractor is in complete compliance with regard to their Affirmative Action Program.

17. MAYOR

The Mayor is the Mayor of the City of Toledo. Any other stipulation in this Proposal, in the contract, or the aforementioned State of Ohio specifications notwithstanding, the Mayor is the Contracting Office of the City of Toledo, and he shall have final authority on all questions arising under the contract subject to the stipulations of the contract in the settlement of disputes.

18. PROVIDE STORM DRAINAGE DURING CONSTRUCTION

In the event that an existing Catch Basin or Inlet is adjusted to grade for an extended period of time prior to paving, or the Contractor is directed to begin construction during the present construction season and to finish the work during the following spring, then it shall be the Contractor's responsibility to provide adequate roadway drainage at those locations where work has taken place; such as, radius cutbacks, catch basins/inlets adjusted to grade that are higher than the adjacent pavement, etc.

19. NOTIFICATION

Any legal notice permitted or required to be given under this Agreement shall be sufficient if deposited in the U.S. Mail, postage prepaid, addressed as follows:

Mayor Wade Kapsukiewicz
One Government Center, Suite 2200
Toledo, Ohio 43604-2293

Copy correspondence to the following:

Jeremy Mikolajczyk, Acting Director
Department of Transportation
420 Madison Avenue, Suite 100
Toledo, OH 43604

Christy L. Soncrant, P.E., Commissioner
Division of Engineering and Construction Management
One Lake Erie Center, Suite 200
Toledo, Ohio 43604

Bryan Benner, Commissioner
Division of Purchases and Supplies
One Government Center, Suite 2000
Toledo, Ohio 43604-2293

All other project correspondence shall be directed to the Project Engineer. Each Contractor and/or Subcontractor must submit a certified copy of their complete payroll for each date exhibited for each employee in which wages are paid to his or her name, current address, social security number, number of hours worked each day during the pay period, and the total for each week, his or her hourly rate of pay, job classification, fringe benefits, and deductions from his or her wages. The aforementioned information, in addition to a schedule of dates during the life of the contract on which wages are paid, are required from the Contractor and Subcontractors within ten days of payroll, and supplemental reports for each week thereafter until contract completion.

20. APPLICABLE LAW AND REGULATION/COMPLIANCE

Attention is hereby directed to the fact that all applicable and pertinent State of Ohio laws as well as City of Toledo ordinances, shall apply to this contract throughout, and same will be deemed to be included in the contract as though herein written in full.

The Contractor will secure all necessary permits and/or licenses required to perform the duties and responsibilities pursuant to this contract. The Contractor and/or any sub-contractors shall possess a City of Toledo license for sewer and/or sidewalk work prior to commencing that type of work under this contract.

21. SEVERABILITY CLAUSE

If any provisions, clause, sentence or paragraph of this contract shall be held invalid, such invalidity shall not affect the other provisions.

22. CONTRACT AWARD DISCLAIMER

The City of Toledo is a public entity that must comply with certain legal requirements and internal review procedures prior to awarding any contract. No party has a right to expect that he/she/it will be awarded a contract with the City absent adherence to these legal requirements and review procedures. All contracts with the City of Toledo must contain the signature of the Mayor or the

Mayor's duly authorized designee. The City reserves the right to refuse to enter into a contract with any party until all legal requirements have been met, all internal review procedures have been adhered to, and the Mayor or the Mayor's duly authorized designee executes the contract.

23. O.S.H.A.

The contractor shall, throughout his involvement in this contract, comply with all rules, regulations, and provisions established by the Occupational Safety and Health Administration (O.S.H.A.) which are pertinent to his execution of any and all provisions contained within this contract.

24. OHIO NPDES CONSTRUCTION PERMIT

The contractor must comply with Ohio's NPDES construction permit. Refer to the project Stormwater Pollution Prevention Plan (SWP3).

25. CONSTRUCTION NEAR STREET TREES

Listed below are regulations governing construction activities in the vicinity of street trees. These regulations apply to all types of construction activity, being performed with or in close proximity to public rights-of-ways and easements.

- A. For trees measuring thirty-eight inches (38") in circumference (equivalent to twelve inches (12") diameter) or less, soil excavation work or root cutting shall not occur closer than three feet (3') from the outer bark of the tree. The circumference of the tree here and elsewhere in these requirements shall be taken two feet (2') above the ground level. For multi-stemmed trees, the circumference shall be taken at the narrowest point within the first two feet (2') above the ground surface.
- B. For trees measuring greater than thirty-eight inches (38") in circumference, soil excavation work or root cutting shall not occur closer than the distance measured by the circumference of the tree, or the maximum distance of six feet (6'), whichever is less.
- C. Soil excavation work is permitted closer than the distance parameters established under the above two categories, provided all excavation of soil is accomplished by hand shovel or auger, and no roots greater than two inches (2") in diameter are severed.

D. If there is an inability to perform the requirements established under the aforementioned three situations, a representative from the Division of Forestry (telephone 419-936-2988 or 419-936-2020 after business hours) shall be called to the tree site to make an inspection and recommendation pertaining to the need to remove the tree.

Additional costs that may be incurred by the contractor to comply with the aforementioned four requirements shall be included under the appropriate bid item. For trees that require complete removal, as approved by the Engineer, to accomplish certain construction activities, compensation will be authorized under the appropriate Item 201 Tree Removal and/or Clearing and Grubbing bid items.

26. SIDEWALK POLICY IN HISTORICAL DISTRICTS

Whenever sandstone sidewalk or curb in the right-of-way is to be removed within a City of Toledo Historic District, it is the policy of the City of Toledo that the sandstone materials remain with the respective abutting property owner for their use. The contractor and/or agency doing the work shall notify said property owner prior to the materials being removed. If the property owner wants the material, the contractor or agency will carefully place the material on the abutting property. The contractor or agency will not be responsible for securing sandstone materials left on the property after removal. Cost for said work shall be included in the applicable 202 removal Item.

However, if said property owner and/or Historic District representative states that they do not want the sandstone material, then the contractor or agency shall remove the sandstone walk or curb from the work site per Item 202.

In addition, when concrete sidewalk is replaced in a Historical District, it shall be cured with clear curing compound, having no white pigment.

27. CONCRETE QUALITY CONTROL

If the specification for compressive strength of 4000 psi is not met at the 28-day cylinder break for Item 608 ~ Walks, Curb Ramps, and Steps or Item 609 ~ Curbing, Concrete Medians, and Traffic Islands, liquidated damages will be applied for each failed test as follows:

\$500.00 for compressive strength less than 4000 psi and greater than or equal to 3500 psi. \$1000.00 for compressive strength less than 3500 psi.

28. CONTRACTOR EVALUATION FORMS

In order to provide the citizens of the City of Toledo with a cost effective and quality service, the Division of Engineering and Construction Management will be evaluating the performance of contractors and consultants. A sample form is included in this bid packet (section "E"). A post contract meeting may be set up to review the evaluation by the person directly responsible for overseeing the project with the contractor/consultant representative.

CONTRACTOR/CONSULTANT EVALUATION FORM

PURPOSE:

To evaluate the performance of contractors and/or consultants who provide service to the City of Toledo. This document will also provide an avenue to communicate our expectations as it relates to providing timely, cost-effective, and quality service to the citizens of the City of Toledo.

This evaluation document is included in the contract documents (or request for proposal) to be completed by the City employee(s) that are directly responsible for overseeing the project. This evaluation is to be reviewed and/or discussed at the post-construction/contract meeting with the contractor/consultant. Each evaluation will be kept on file at the City of Toledo and placed in a database for use by all Divisions. The information may also be utilized in the award process when evaluating future bids with the City of Toledo.

Date: 10/10/2024

Project Name: _____

Contractor: _____

SCORE

City of Toledo

E-2

Contractor/Consultant: _____

Contract Name: _____

Contract Start Date: _____ Contract End Date: _____

Name of Evaluator: _____

Post Construction Meeting: _____

Contract Number: _____

Contract Amount: _____

Instructions: Please rate all areas applicable to the project/contract just completed. For areas rated "Did not meet Expectation", please attach back-up documentation (i.e., inspector reports, etc.) to support the rating or provide information in comment section, as necessary. Be sure to adjust the final score based on the number of criteria being rated.

A. ORGANIZATION AND MANAGEMENT

1. Were management personnel available with full authority to execute the directions of the engineer?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

2. Were management personnel competent and effective in scheduling the work and organizing construction operations?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

3. Were management personnel knowledgeable with respect to the plans, specifications, and contract documents?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

City of Toledo

E-4

4. How adequately was the project staffed with appropriate skilled workers?

<input type="radio"/> Always	<input type="radio"/> Most of the time	<input type="radio"/> At least half of the time	<input type="radio"/> Some of the time	<input type="radio"/> Rarely	<input type="radio"/> N/A
------------------------------	--	---	--	------------------------------	---------------------------

Comments:

5. Did the contractor/consultant furnish the required documentation and/or reports in a timely manner (i.e., certification of materials, progress schedule, shop drawings, material tickets, etc.)?

<input type="radio"/> Always	<input type="radio"/> Most of the time	<input type="radio"/> At least half of the time	<input type="radio"/> Some of the time	<input type="radio"/> Rarely	<input type="radio"/> N/A
------------------------------	--	---	--	------------------------------	---------------------------

Comments:

6. Did the contractor/consultant inform project personnel in advance of scheduled day-to-day items of work?

<input type="radio"/> Always	<input type="radio"/> Most of the time	<input type="radio"/> At least half of the time	<input type="radio"/> Some of the time	<input type="radio"/> Rarely	<input type="radio"/> N/A
------------------------------	--	---	--	------------------------------	---------------------------

Comments:

7. Was the chain of authority in the City of Toledo respected by the contractor/consultant (positive attitude toward project personnel, etc.)?

<input type="radio"/> Always	<input type="radio"/> Most of the time	<input type="radio"/> At least half of the time	<input type="radio"/> Some of the time	<input type="radio"/> Rarely	<input type="radio"/> N/A
------------------------------	--	---	--	------------------------------	---------------------------

Comments:

City of Toledo

E-5

8. Did the contractor/consultant comply with the direction of project personnel without delay?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

9. How well did the contractor/consultant coordinate/ cooperate with other contractors/consultants/agencies performing work on adjacent or related projects?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

10. Did the contractor/consultant comply with all wage rates and labor regulations, and submitting accurate payrolls?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

11. Did the contractor inform the adjacent residents/business owners of the construction operations?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

12. Did the contractor/consultant effectively handle situations involving problem employees brought to their attention by the City of Toledo?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

B. EQUIPMENT

1. Did the contractor provide the appropriate number and type of equipment necessary for performance of the work?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

2. Did the contractor provide reliable equipment so as not to impede the progress of the project?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

B. WORK PERFORMANCE

1. Was the work site maintained in a safe, clean and orderly condition?

<input type="radio"/> Always	<input type="radio"/> Most of the time	<input type="radio"/> At least half of the time	<input type="radio"/> Some of the time	<input type="radio"/> Rarely	<input type="radio"/> N/A
------------------------------	--	---	--	------------------------------	---------------------------

Comments:

2. Did the contractor comply with maintenance of traffic items (signs, lights, barricades, flaggers, etc.) in accordance with Ohio Manual of Uniform Traffic Control Devices?

<input type="radio"/> Always	<input type="radio"/> Most of the time	<input type="radio"/> At least half of the time	<input type="radio"/> Some of the time	<input type="radio"/> Rarely	<input type="radio"/> N/A
------------------------------	--	---	--	------------------------------	---------------------------

Comments:

3. Did the contractor/consultant meet plan requirements and contract documents without instruction from the City of Toledo?

<input type="radio"/> Always	<input type="radio"/> Most of the time	<input type="radio"/> At least half of the time	<input type="radio"/> Some of the time	<input type="radio"/> Rarely	<input type="radio"/> N/A
------------------------------	--	---	--	------------------------------	---------------------------

Comments:

4. To what degree was the overall quality of work performed by the contractor/consultant?

<input type="radio"/> Excellent	<input type="radio"/> Very Good	<input type="radio"/> Average	<input type="radio"/> Fair	<input type="radio"/> Poor	<input type="radio"/> N/A
---------------------------------	---------------------------------	-------------------------------	----------------------------	----------------------------	---------------------------

Comments:

City of Toledo

E-8

5. Did the contractor/consultant properly notify and coordinate work with other agencies/utility companies in protection of existing facilities?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

6. Did the contractor/consultant minimize urgencies of construction that would require the City of Toledo to compromise the quality of work or abandon good construction/engineering practices in order to complete the project?

Always Most of the time At least half of the time Some of the time Rarely N/A

Comments:

7. Did the contractor/consultant finish the work by the contract completion date? (including extensions granted by the City.)

Yes No N/A

Comments:

City of Toledo

E-9

8. Was the contractor/consultant fair and professional with respect to contract scope of work changes?

Yes No N/A

Comments:

9. Did the contractor/consultant offer any value engineering to help control the cost of the project?

Yes No N/A

Comments:

10. Was final clean up and punch list items completed in a timely manner?

Yes No N/A

Comments:

B. SUBCONTRACTOR MANAGEMENT

1. Did the contractor/consultant properly schedule/ coordinate the work of their subcontractors?

Always

Most of the time

At least half of the time

Some of the time

Rarely

N/A

Comments:

2. Did the contractor/consultant monitor their subcontractor(s) activities to ensure that approved materials were being used and that the work was being performed properly?

Always

Most of the time

At least half of the time

Some of the time

Rarely

N/A

Comments:

3. Did the contractor/consultant ensure that their subcontractor(s) complied with proper wage rates and submitted certified payrolls?

Always

Most of the time

At least half of the time

Some of the time

Rarely

N/A

Comments:

4. Did the contractor/consultant meet the MBE/DBE goal specified in the original contract?

Yes

No

N/A

Comments: