

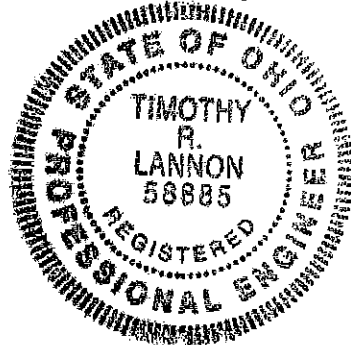
2020 Pavement Repair Program

&

2020 Striping Program

City of Willowick

January 2020



Tim
1-14-20

200233

CITY OF WILLOWICK OFFICIALS

ADMINISTRATION

Rich Regovich, Mayor/Safety Director

Cheryl Benedict, Finance Director

Robert A. Pauley, Municipal Services Director

Stephanie Landgraf, Law Director

Julie Kless, Recreation Director

Tim Lannon, P.E., City Engineer

COUNCIL

Robert Patton, President

Michael Vanni, Ward I

Monica Koudela, Ward I

Ann Turk, Ward II

Ken Pintar, Ward II

Bob Reho, Ward III

Charlie Malta, Ward III

Sue Wovrosh, Clerk of Council

ADVERTISEMENT FOR BIDS/PUBLIC NOTICE TO BIDDERS

Sealed bids will be received at the office of the Finance Director, City of Willowick, 30435 Lakeshore Boulevard, Willowick, Ohio 44095 until 12:00 p.m. Noon on January 28, 2020 and will be opened and read immediately thereafter for the

**2020 PAVEMENT REPAIR PROGRAM
OPINION OF PROBABLE CONSTRUCTION COST: \$700,000.00
&
2020 STRIPING PROGRAM
OPINION OF PROBABLE CONSTRUCTION COST: \$40,000.00**

COMPLETION DATE: AUGUST 7, 2020

Bids must be in accordance with plans & specifications and on forms available from CT Consultants, Inc. at a non refundable cost of One Hundred Twenty-Five Dollars (\$125.00). Instructions for obtaining hard copies of the documents (including bid forms) are at www.ctconsultants.com/bidinfo/index.html.

The drawings, bid specifications (without bid forms), plan holders list, addenda, and other bid information may be viewed, downloaded, and/or printed at no charge via the web site. The bidder shall be responsible to check for Addenda and obtain same from the web site prior to submitting a bid.

Publish: *The News Herald*
January 14, 2020
January 21, 2020

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SECTION 1
BID DOCUMENTS

INSTRUCTIONS TO BIDDERS

PART 1 GENERAL

- 1.1 Sealed bids shall be received by the Owner at the location specified and until the time and date specified in the Advertisement for Bids/Public Notice to Bidders.
- 1.2 Each bid shall contain the full name and address of each person or company interested in said bid. If no other person be so interested, the Bidder shall distinctly so state the fact.
- 1.3 Bid forms must be completed in ink or by typewriter. Any corrections to the bid forms prior to submission must be initialed by the person signing the bid. Failure to submit any bid form(s) or other required document(s) may be cause for rejection of the bidder's bid at the sole discretion of the Owner.
- 1.4 Bids by Corporations must be executed in the corporate name by the President, Vice President, or other officer accompanied by evidence of authority to sign and the corporate seal must be affixed and attested by the Secretary on the Corporate Resolution form.
- 1.5 Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature.
- 1.6 All names must be typed or printed below the signature.
- 1.7 The bid shall contain an acknowledgment of receipt of all Addenda.
- 1.8 If a Bidder wishes to withdraw their bid prior to the opening of bids, they shall state their purpose in writing to the Owner before the time fixed for the opening, and when reached it shall be handed to them unread.
- 1.9 After the opening of bids, no Bidder may withdraw their bid for a period of 60 days.

PART 2 EXAMINATION OF CONTRACT DOCUMENTS AND SITE

- 2.1 Before submitting a bid, each Bidder must
 - A. Examine the Contract Documents thoroughly.
 - B. Visit the site to familiarize themselves with local conditions that may in any manner affect cost, progress, or performance of the work.
 - C. Familiarize themselves with Federal, State, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress, or performance of the work.
 - D. Study and carefully correlate Bidder's observations with the Contract Documents.

- 2.2 Reference is made to the Specific Project Requirements for the identification of any reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the work which have been relied upon by the Engineer in preparing the drawings and specifications. Owner will make copies of such reports available to any Bidder requesting them if not made available with the bid documents. These reports are not guaranteed as to accuracy or completeness; nor are they part of the Contract Documents. Before submitting their bid each Bidder will, at their own expense, make such additional investigations and tests as the Bidder may deem necessary to determine their bid for performance of the work in accordance with the time, price and other terms and conditions of the Contract Documents.
- 2.3 Upon request, the Owner will provide each Bidder access to the site to conduct such reasonable investigations and tests as each Bidder deems necessary for submission for their bid.
- 2.4 The lands upon which the work is to be performed, rights-of-way for access thereto, and other lands designated for use by Bidder in performing the work are identified on the Drawings.
- 2.5 The submission of a bid will constitute an incontrovertible representation by the Bidder that they have complied with every requirement of this section and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the work.

PART 3 ESTIMATED QUANTITIES

- 3.1 In Unit Price Contracts, the quantities of the work itemized in the bid are approximate only and the bidders are hereby notified that the estimated quantities made by the Engineer are merely for the guidance of the Owner in comparing on a uniform basis all bids received for the work.
- 3.2 The contract quantities, where itemized, are based on plan horizontal and vertical dimensions unless otherwise specified. It is the Contractor's responsibility to verify and determine actual quantities of materials such as pipe, pavement, subgrade, etc. in their ordering materials.
- 3.3 Payments, except for lump sum contracts and except for lump sum items in unit price contracts, will be made to the Contractor only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications.
- 3.4 The successful Bidder will be required to furnish the Owner with a complete breakdown of the lump sum bid items, to the satisfaction of the Engineer/Architect, before signing the Contract documents.

PART 4 CONTRACTOR'S QUALIFICATION

- 4.1 Bidder shall provide detailed information relating to similar projects completed within the past 5 years which demonstrates the bidder's capability, responsibility, experience,

skill, and financial standing to undertake this type of project and shall include a list of all projects currently under construction including status and contact person.

- 4.2 Bidder shall own, have rental or lease agreements for, or otherwise have readily available any and all equipment and tools necessary for proper execution of the work. The Owner reserves the right to request lists of equipment or tools available for the project including sources.
- 4.3 Bidder shall provide pertinent information to the Owner relative to any pending suits or outstanding liens. If no information is provided by the Bidder, the Owner shall assume that any such suits or liens do not exist.
- 4.4 The Owner may require similar information on any or all subcontractors proposed by the Bidder.
- 4.5 Bids of corporations not chartered in the state in which the work will take place must be accompanied by proper certification that the corporation is authorized to do business in that state.

PART 5 SUBCONTRACTORS

- 5.1 The Bidder shall state on the appropriate bid form the names of all Subcontractors proposed and the items of work they are to be assigned. All work not assigned to a Subcontractor shall be assumed by the Owner to be performed by the Bidder.
- 5.2 The Owner reserves the right to approve all subcontractors proposed by the Bidder. If the Owner, after due investigation, rejects the use of a proposed subcontractor, the apparent successful Bidder may either submit an acceptable substitution without increase in bid price or decline substitution and withdraw their bid without sacrificing their bid security. Any listed subcontractor to whom the Owner does not make written objection prior to award of contract, shall be deemed acceptable to the Owner.
- 5.3 Requests for changes of Subcontractor by the Bidder after the award shall be subject to the Owner's approval and shall not change the contract bid prices.
- 5.4 No contractor shall be required to employ any Subcontractor, person or organization against whom they have reasonable objection.

PART 6 BID REVIEW BY OWNER

- 6.1 The Owner reserves the right to reject any and all bids, to waive as an informality any and all irregularities, and to disregard all nonconforming, nonresponsive or conditional bids.
- 6.2 All extensions and totals of unit prices and quantities submitted as part of the bid shall be considered informal until verified by the Owner. All bids must be made on the forms contained herein and the bid prices must be written therein, in figures only. Unit prices shall be separately written for "Unit Price Labor," "Unit Price Material," and "Total Unit Price" for each item listed. Should an error in addition and/or multiplication

be determined while checking the Contractor's math and verifying their total bid, the "Unit Price Labor" and the "Unit Price Material" figures shall govern in determining the correct "Total Unit Price" and the correct "Item Total."

- 6.3 Each bidder must bid on all Items, Alternates, Deductions, and Additions contained in the Bidding Forms. All bids not in conformity with this notice may be considered non-responsive and may be rejected.
- 6.4 In evaluating bids, the Owner may consider:
- A. The qualifications and experience of the Bidder, proposed subcontractors, and principal material suppliers as outlined in the plans and specifications.
 - B. Financial ability and soundness of the Bidder and proposed subcontractors.
 - C. Completeness of all bid forms and bid requirements.
 - D. Alternates and unit prices requested in the Bid Forms.
 - E. Unit prices or schedules of values that are or appear to be unbalanced.
 - F. Previous contractual experience with the Owner.
 - G. Whether or not the bid package complies with the prescribed requirements.
 - H. The proposed completion date, if applicable.
 - I. Any other matter allowed by law or local ordinance or resolution.
- 6.5 Owner may conduct further investigations as they deem necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications, and financial ability of the Bidders, proposed Subcontractors, and other persons and organizations to do the work in accordance with the Contract Documents to Owner's satisfaction within the prescribed time.
- 6.6 Owner reserves the right to reject the bid of any Bidder who does not pass any such evaluation to Owner's satisfaction.
- 6.7 The Contract award shall be based on the lowest and best bid or lowest responsive and responsible bid (as applicable for the public contracting agency receiving bids) for the base bid and selected alternate items (if any) for this project.

PART 7 BID SECURITY

- 7.1 Each bid must be accompanied by a certified or cashier's check in the amount of 10% of the amount bid, an irrevocable letter of credit in the amount of 10% of the amount bid or an original bond in the amount of 100% of the amount bid per ORC 153.54 and 153.571. The certified or cashier's check, or irrevocable letter of credit shall be from a financial institution authorized to transact business in the State of Ohio and acceptable to the Owner. The bond shall be underwritten by a Surety Company authorized to transact business in the State of Ohio having an Ohio agent and listed on the most current Department of the Treasury Circular 570, "Surety Companies Acceptable on

Federal Bonds." The bond shall be a "Bid Guarantee and Contract Bond" ("rollover bond") per O.R.C. sections 153.54 and 153.571 submitted for the full amount of the bid **including all alternates**, if any.

If bid security is made by bond, the Bidder and their Surety shall sign the Supplemental Bond Acknowledgement form and submit with their bid.

- 7.2 The certified or cashier's check, irrevocable letter of credit, or bond shall be made payable to the Owner and shall serve as a guarantee that in the event the bid is accepted and a contract is awarded to the successful Bidder, the contract will be executed by the bidder including any certifications, certificates or additional bonds required by the contract.
- 7.3 Failure on the part of the successful Bidder to execute the contract documents will cause the certified or cashier's check, irrevocable letter of credit, or bond to be forfeited to the Owner as damages.
- A. If the Owner awards the contract without rebidding, the Bidder (and the Surety on their bond if a bond was submitted) shall be liable to the Owner for a penal sum not to exceed the difference between the low bid and the next lowest bidder or 10% of the amount of the bid, whichever is less.
- B. If the Owner does not award the Contract to the next lowest Bidder, but resubmits the project for bidding; the Bidder (and the Surety on their bond if a bond was submitted) shall be liable to the Owner for a penal sum not to exceed the costs in connection with the resubmission of bids or 10% of the amount of the bid, whichever is less.
- 7.4 Checks or letters of credit for bid security of all bidders will be returned in the manner and timeframe stipulated in the Ohio Revised Code.

PART 8 CONTRACT BOND

- 8.1 As security for faithful performance and payment of all obligations under the Contract, the Owner shall require and the successful Bidder shall furnish either:
- A. *If submitted as Bid Security at time of bid:* "Bid Guarantee and Contract Bond" (AKA "rollover bond") per O.R.C. sections 153.54 and 153.571.
- B. *If a cashier's check or irrevocable letter of credit is submitted as Bid Security at time of bid:* Contract Bond per Ohio Revised Code Sections 153.54 and 153.57, in the amount of 100% of the Contract Price. The Contractor and their Surety shall sign the Supplemental Bond Acknowledgement form and submit with the Contract forms
- 8.2 The bond shall be underwritten by a Surety Company authorized to transact business in the State of Ohio having an Ohio agent and listed on the most current Department of the Treasury Circular 570, "Surety Companies Acceptable on Federal Bonds."

- 8.3 The contract bond shall cover correction of the work for the period stated in the specifications and the correction period shall start upon Final Acceptance of the entire project and final payment by the Owner.
- 8.4 Nothing in the performance of the Engineer's service to the Owner in connection with this project shall in any way imply any undertaking for the benefit of the successful Bidder, its subcontractor(s), or the surety of any of them.

PART 9 AWARD AND EXECUTION OF CONTRACT

- 9.1 After the Owner's legislative body awards the project, the successful bidder will receive the unsigned contract documents. Within 10 days after their receipt, the successful Bidder shall sign and deliver to the Owner said contract documents including any certifications, certificates, or additional bonds required by the contract.
- 9.2 The Owner shall execute the Contract within 60 days after the day of the bid opening. When necessary and by mutual consent between the Owner and the Successful Bidder, this 60-day period may be extended.
- 9.3 The date of the Owner's signature on the Contract Agreement shall be the effective contract date.
- 9.4 The Owner shall execute and deliver to the successful Bidder one set of fully executed contract documents.

PART 10 INSURANCE

- 10.1 Verification of limits for public liability, property damage, automobile, Worker's Compensation, or any other insurance required by the provisions of this Contract must be submitted to the Owner prior to execution of the Contract.
- 10.2 All insurance shall be endorsed so that it cannot be cancelled for non-payment of premium for 10 days or cancelled or non-renewed for any other reason in less than 30 days after a written notice of such proposed action by the insurer is given to the Owner. The cancellation clause on the Certificate(s) of Insurance shall read as specified in the Supplementary Conditions and failure to submit an insurance certificate and/or policy endorsement verifying same shall be reason for the Owner to consider the Contractor non-responsive in complying with the requirements for contract execution and may be cause for forfeiture of the Bid Security to Owner.
- 10.3 The Contractor's Liability Insurance policy(s) shall be endorsed such that limits are on a Per Project basis.
- 10.4 The Contractor shall also provide an Owner's and Contractor's Protective Policy.

PART 11 NON-COLLUSION AFFIDAVIT

- 11.1 Each bid must be accompanied by a completed Noncollusion Affidavit provided within the contract documents.

- 11.2 Where there is reason to believe collusion or combination among bidders exists, the Owner reserves the right to reject the bid of those concerned.

PART 12 DELINQUENT PERSONAL PROPERTY STATEMENT

- 12.1 Included with the contract documents is a Delinquent Personal Property Statement to be filled out by the successful Bidder.
- 12.2 The statement shall be sent to both the County Auditor and the County Treasurer. A signed copy shall remain in the contract documents as well.

PART 13 ORIGINAL DOCUMENTS

- 13.1 All bid forms, contract forms, bonds and any other bid documents or contract documents requiring signatures shall be submitted with original signatures. No photo copies or faxed copies of signed documents shall be accepted.

PART 14 ADDENDA

- 14.1 The bidder shall be responsible to obtain Addenda from the web at www.ctconsultants.com/bidinfo/index.html .

END OF SECTION 04/22/2019

PRICES TO INCLUDE

PART 1 - GENERAL

Any work shown on the plans or required in the specifications but not paid for separately as a bid item shall be included in the cost of other bid items. The amount bid for each Bid Item shall include the following:

- 1.1 All labor, materials, tools, equipment, and transportation necessary for the proper execution of the work in accordance with the Contract Documents.
- 1.2 All assistance required by the Engineer to verify compliance with the Contract Documents, including measuring for final pay quantities.
- 1.3 Project coordination and scheduling.
- 1.4 Detailed breakdown of lump sum bid items as requested by the Engineer.
- 1.5 All provisions necessary to protect workmen, the general public, and property along the work in accordance with the Contract Documents.
- 1.6 Protection and/or replacement of existing property corner monuments.
- 1.7 Record drawings of the installed location of all underground electrical conduit, sewers, tees, wyes, laterals, etc.
- 1.8 Reimbursement to Owner for costs of re-inspection or re-testing of any work not installed in compliance with the Contract Documents.
- 1.9 All erosion control measures needed commensurate with the contractor's means and methods.
- 1.10 Construction staking of the improvements.
- 1.11 Mobilization, including toilet facilities for duration of project.
- 1.12 The unit price shall include saw cutting, removal and disposal if the proposal item includes removal.
- 1.13 The unit price for surface courses shall include the cost to seal any cracks which may develop in the asphalt pavement during the Correction Period. The sealing shall be done just prior to the end of the Correction Period unless, due to the season and inclement weather, a time extension is granted and the Correction Period is extended.
- 1.14 All concrete utilized on this project: 1) All aggregate shall meet the requirements of ODOT 703.02, Loss, sodium sulfate soundness test, 12% maximum; 2) If #57 or #67 size coarse aggregate is used, it shall be tested in accordance with ASTM C 666, Procedure B, and meet the requirements of ODOT 703.13. Copies of actual test reports and manufacturers certifications are required and shall be representative of the aggregate source proposed for use and shall be no more than 6 months old to time of submittal; 3) Class C concrete - Options 1, 2, and 3 will not be allowed.; 4) All surfaces shall be sealed with an approved cure and seal, not standard ODOT curing compound.
- 1.15 Reference to ODOT 401.20 "Asphalt Binder Price Adjustment" is to be deleted and will not apply.

PART 2 - ITEMS

All work proposed by this contract shall be quantified and paid for in accordance with the pertinent O.D.O.T. specification except as specifically altered by other provisions of this contract.

2.1 BONDS AND INSURANCES

Basis of Payment

A "Bonds and Insurances" item (including "Owner/Contractor Protective Policy" **and/or endorsements to fully comply with all contract requirements**) has been included in the bid proposal.

2.2 PARTIAL DEPTH PAVEMENT JOINT REPAIR, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of square yards installed per the plans and specifications calculated from the length measured along the center of the existing joint being repaired times the width directed to be milled and patched.

Basis of Payment

The unit price shall include all work to mill the existing joint to a width directed (but no less than 12") and to a depth to remove all loose and deteriorated concrete (but no greater than T/3), and install tack coat and asphalt concrete.

2.3 PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

Basis of Payment

All grindings shall be disposed of by the contractor except for up to 5 truckloads to be delivered to one location within the City of Willowick.

The unit price will also include the installation of a temporary apron wedge (ramp) as directed out of asphalt or asphalt millings for any apron lip more than 3" height after planing and must be maintained throughout the project to the satisfaction of the Engineer and Owner. All temporary wedges shall be removed prior to paving any course and reinstalled as needed

2.4 PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, GUTTER GRINDING, AS PER PLAN

Basis of Payment

All grindings shall be disposed of by the Contractor.

The unit price shall include the removal of all Inlet Basin grates, wrapping these grates with ODOT Type A filter fabric, and replacing with fabric in place **prior** to the start of any planning. The Contractor shall maintain this filtering system throughout the project and remove the filtering system within 72 hours after the surface course placement.

2.5 FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT, CLASS QCMS, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of square yards installed per the plans and specifications calculated from the length measured along the center of the existing joint being repaired times the width directed to be replaced.

Basis of Payment

Payment shall be made in accordance with ODOT Item 255 and shall also include the cost for all full depth diamond blade saw cutting, integral curb, and 3" subbase course of ODOT Item 304 (if subbase course does not already exist). Transverse joints shall have 5/8" diam. hook bolts at 18" O.C.

2.6 FULL DEPTH PAVEMENT REMOVAL & RIGID REPLACEMENT, CLASS QCMS, JOINT REPLACEMENT, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number of square yards installed calculated from the length measured along the center of the existing longitudinal or transverse joint being repaired times the width directed to be replaced. The width shall be 30".

Basis of Payment

Payment shall be made in accordance with ODOT Item 255 and shall also include the cost for all full depth diamond blade saw cutting, integral curb, and 3" subbase course of ODOT Item 304 (if subbase course does not already exist). Transverse joints shall have 1" X 18" dowel bars at 19" O.C. Longitudinal joints shall be hook-bolted at 30" O.C.

2.7 SINGLE CHIP SEAL, TYPE A, PRE-COATED SLAG AGGREGATE, AS PER PLAN

Method of Measurement

Measurement will be made on a square yardage basis for the actual area of single chip seal installed as measured in the field.

Basis of Payment

The unit price bid shall include all labor, material and equipment necessary to apply the bituminous material and pre-coated aggregate in place, completed and accepted in accordance with the specifications or as directed by the Engineer. The unit price shall also include vacuuming and/or sweeping of loose stone on streets after curing time and before final acceptance by the City.

2.8 ASPHALT CONCRETE INTERMEDIATE COURSE, AS PER PLAN

The work, method of construction and materials for asphalt concrete surface course shall be in accordance with ODOT Item 448 with the following modifications:

- A. Compacted thickness shall be as detailed on the plans.
- B. Reclaimed or recycled materials shall not be used, only new materials shall be used.

Method of Measurement

The measurement of asphalt concrete intermediate course of the thickness specified shall be the number of cubic yards of asphalt concrete intermediate course completed and accepted in place. The area for measurements will be as shown on the plans, or as otherwise directed in writing by the Engineer. The plan quantities as adjusted for changes, errors and deviation in excess of allowable tolerances will be the method of measurement.

Basis of Payment

The accepted quantities of asphalt concrete intermediate course of the thickness specified shall be full compensation for furnishing and placing all materials, including furnishing all labor, tools, appliances, equipment and all other appurtenances necessary to complete the work as specified or as shown; including any necessary pavement saw cuts and pavement planing.

2.9 ASPHALT CONCRETE SURFACE COURSE

The work, method of construction and materials for asphalt concrete surface course shall be in accordance with ODOT Item 448 with the following modifications:

- A. Compacted thickness shall be as detailed on the plans.
- B. All gutters, street castings and joints shall be sealed with an approved liquid bituminous material 4 inches in width and the cost is to be included with the bid item.
- C. Necessary butt or tapered edge joints and pavement saw cuts shall be considered incidental costs to be included in this bid item.
- D. Reclaimed or recycled material shall not be used. Only new materials shall be used.

- E. Replacement of all pavement striping removed or marred on improvement and adjacent streets shall be considered incidental costs to be incurred in the Bid Item.

Method of Measurement

The measurement of asphalt concrete surface course of the thickness specified shall be the number of cubic yards of asphalt concrete surface course completed and accepted in place. The area for measurements will be as shown on the plans, or as otherwise directed in writing by the Engineer. The plan quantities as adjusted for changes, errors and deviation in excess of allowable tolerances will be the method of measurement.

Basis of Payment

The accepted quantities of asphalt concrete surface course of the thickness specified shall be full compensation for furnishing and placing all materials, including sealing materials, pavement striping, and furnishing all labor, tools, appliances, equipment and all other appurtenances necessary to complete the work as specified or as shown; including feathering at drives as necessary and butt or taped edge joints and necessary pavement saw cuts

2.10 CONCRETE WALK, INCLUDING REMOVAL, AS PER PLAN

Method of Measurement

The quantity of the thickness and class of concrete specified to be paid for shall be the actual square dimension, as indicated in the Proposal of finished surface complete in place.

Basis of Payment

The unit price shall include the excavation, immediate removal and disposal of structures and obstructions, furnishing all materials, sub-grade compaction, grading, forming, finishing of the walk, tooling of edge, and pavement including removal and disposal of existing grass, sod, topsoil, necessary pavement saw cutting, excavation and/or backfill to required line and grade; saw cutting, asphalt pavement removal and installation of concrete grout at road edge; concrete; self-degrading resin-based curing compound, and expansion joint material; work shall include installation of vertical curb backing to match existing walk; furnishing of all labor, tools, materials and equipment necessary to complete the work as specified or as shown.

2.11 CURB RAMP, INCLUDING REMOVAL, AS PER PLAN

Method of Measurement

The number, square feet, of curb ramps to be paid for shall be the actual number of square feet of ramp installed, completed and accepted.

Basis of Payment

The unit price shall be full compensation for excavation, removal and disposal of existing curb ramps and pavement, including necessary saw cuts, and any additional materials, including truncated dome plate, grading, forming and finishing of the ramp and the furnishing and placing of all material, labor, tools and equipment necessary to complete the work as specified or as shown in the contract drawings.

2.12 CURB, INCLUDING REMOVAL, AS PER PLAN

ODOT Item 499 Concrete, Class QC MS mix shall be used for all curb.

Basis of Payment

Payment shall be made in accordance with ODOT Item 609 and shall also include full depth diamond blade saw cutting as needed and removal of existing pavement, curb, or curb and gutter.

2.13 INLET BASIN, MANHOLE ADJUSTED TO GRADE, METHOD D.1, (BRICK), AS PER PLAN

Basis of Payment

Structures shall be adjusted in accordance with ODOT 611.10 method D.1. Payment shall be made in accordance with ODOT Item 611 and shall also include rebuilding of the top 12 inches of masonry on each structure. Also included are the sawcutting and the removal of all spoil material.

On streets with full depth asphalt or existing asphalt overlay, fill for the excavated area needed to facilitate the adjustment shall be ODOT Class QCMS concrete and shall be installed as per the Engineer at no additional cost to the Owner.

2.14 SPECIAL – MISCELLANEOUS METAL

Basis of Payment

The unit price shall include supplying a new frame and grate or frame and cover for catch basins and manholes directed to be replaced. The adjustment to grate of the catch basin, inlet basin or manhole shall be paid as a separate item. The existing frame and grate or cover shall become property of the Contractor.

2.15 MAINTAINING TRAFFIC

The work, method of construction and materials for maintaining traffic shall be in accordance with ODOT Item 614 and the Ohio Manual of Uniform Traffic Control Devices (OMUTCD).

Basis of Payment

The lump sum price shall include all costs for labor, materials, tools and appurtenances necessary to complete the work as specified. Payment shall be made progressively throughout the contract period in proportion to the percentage of work complete or as otherwise approved by the Engineer.

2.16 MONUMENT BOX RECONSTRUCTED TO GRADE

Basis of Payment

Payment shall be made in accordance with ODOT Item 623. The existing casting shall be cleaned and reused, all work shall be in accordance with the project detailed drawing, and the existing monument pin shall be referenced and reset by a registered surveyor. Fill for the excavated area needed to facilitate the adjustment and reconstruction shall be ODOT Class "QCMS" concrete and shall be installed at no additional cost to the Owner.

2.17 VALVE BOX ADJUSTED TO GRADE, RISER RING, AS PER PLAN

Method of Measurement

The quantity to be paid shall be the number directed to be adjusted with a riser ring.

Basis of Payment

The unit price shall include all labor and materials to adjust the valve box to grade with a new riser ring of the proper height to make the valve box lid flush with the surface of the finished work.

2.18 CONTINGENCY/DISCRETIONARY ALLOWANCE

A Contingency/Discretionary Allowance has been included in the Bid Proposal in each contract to be utilized as directed by the Engineer for unscheduled work items not included on the proposal forms or other changes in the work. The contingency allowance or portions thereof shall only be released upon execution of approved Change Orders or as approved by the Engineer. Any portion of the allowance not utilized shall be credited to the Owner.