



Samir Amin, P.E.
Transportation Infrastructure
Engineer in Charge

Department of Public Works
Infrastructure Services Division
Field Operations – Construction Section

September 14, 2016

OFFICIAL NOTICE NO. 97-2016
Project 1

Addendum No. 1

NOTICE TO CONTRACTORS intending to bid on the above noted **Official Notice No, 97** which appeared in the Daily Reporter on **September 2, 2016** with a Bid Opening Date on **August 16, 2016** at 10:30 A.M.

This addendum is issued to notify Contractors of changes to the construction documents which include revisions to the following, the plan group, special provisions, completion date, and bid items quantities:

Item 1: ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing) location has been added to this project.

Item 2: The Contractor shall use the attached Special Provisions (pages 1 -12)

Item 3: The Contractor shall use the attached Sewer drainage and CUC Adjusting tables.

Item 4: The time of completion for work to be completed in 2016 is revised to read:

All work on Project No. ST211170103 and Project No. ST211170104 shall be completed by November 12, 2016.

Item 5: Remove the Bid Item pages (1-7) and replace them with the revised attached sheets (1-8).

Item 6: Remove the Project Breakdown pages (1-2) and replace them with the revised attached Sheets (1-3).

The bidder shall acknowledge receipt of this addendum on the acknowledgement page of the bid documents (paper bid) and/or the section of Bid Express.

Very truly yours,



William Frasch, P.E.
Chief Construction Engineer

WF/rct
Attachments
c: Roger Reed

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

1. The work on this contract is governed by the *City of Milwaukee Street Construction Specifications*, dated July 1, 1992.
2. All work on Project No. ST211170103 and Project No. ST211170104 shall be completed by November 12, 2016.
3. The Contractor has the option of constructing Project No. ST211110112 on this contract in either 2016 or 2017. If the contractor starts work on this project in 2016, all work shall be completed by November 12, 2016. If the contractor constructs this project in 2017, all work shall be completed by June 17, 2017.
4. The Contractor shall be required to coordinate construction activities so that all work on an individual project is complete as per *Section 305.6.2 of the Specifications* within the following time limitations:

Project No. ST211110112

Twenty (20) Project Workdays

S. 5th Street –

W. Lincoln Avenue to

W. Becher Street

Project No. ST211170103

Twenty (20) Project Workdays

W. Becher Street –

S. 7th Street to

S. 10th Street

Project No. ST211170104

Ten (10) Project Workdays

W. Oklahoma Ave. –

At S. 10th St.

All contract work shall be complete within 30 contract workdays as per *Section 305.6.1 of the Specifications*.

5. This special provision is a substitute for Section 305.7 of the *Street Construction Specifications*, dated 1992. The amount of the per diem charge for inspection as referred to in part two (2) shall be **\$325.00**. The contractor should be aware that work on each project is governed by the project workdays, and a per diem inspectional charge of **\$325.00** per day will be assessed for each workday after the allotted number. Inspectional charges will be assessed against each project, which exceeds its allotted number of workdays. An inspectional charge, in addition to the project workday charge, will be assessed if the number of workdays for the overall contract exceeds the amount allotted.
6. Within ten (10) business days of the award of this contract, the contractor shall mail a notice of the project to the City of Milwaukee Construction Section at 841 N. Broadway, Room 710, Milwaukee, WI 53202 for review and approval. Within five (5) business days of approval, the contractor shall mail the project notice to all affected area residents and businesses. It shall be the sole responsibility of the contractor to ensure that all notices are conveyed to the public regarding this project. A sample notice is included in the contract documents. The entire cost of this work shall be

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

included in the unit price bid for mobilization. Contract work shall not start prior to completing the notice requirement. Any delay in contract completion as a result of non-compliance shall be the responsibility of the contractor.

7. The Contractor shall post City of Milwaukee Project Identification ("BLUE") signs as directed on each project in this contract. The City will provide blank signs for the contractor to fill in contact information and post. The entire cost of this work shall be included in the unit price bid for mobilization. The contractor shall inform Michael Chaneske, of City Sign Shop, (414)286-5965 of any City Signs knocked or taken down by the paving contractors or their sub-contractors during construction.
8. The Contractor shall provide a portable toilet or portable toilet service on each project location in the contract for use by construction and City personnel. Facilities shall be promptly removed upon completion of each individual project. Facilities shall be locked and secured during non-working hours. (Location shall be as directed). The entire cost of this work shall be included in the unit price bid for mobilization.
9. Vehicular traffic shall be maintained at all times.
10. Fourteen (14) calendar days prior to the start of work on S. 5th St. – W. Lincoln Ave. to W. Becher St. the Contractor shall enter the ramp closure (I-43/I-94) into the WisDOT Lane Closure System (LCS). Once entered, the Contractor shall contact Rebecca Klein, Regional Work Zone Engineer, WisDOT Southeast Region, at 262-548-8728 (office), 262-822-5947 (cell) or rebecca.klein@dot.wi.gov for approval.
11. Sidewalk replacement shall be scheduled so that the time lapse between removal and replacement is no more than five (5) working days.
12. The cost of cold weather protection for all concrete items shall be considered incidental and included in the unit price bid for the respective concrete item.
13. The item of concrete curb and gutter includes the following:

810 Lin. Ft.	Vertical-face concrete curb integral with 8" concrete pavement
272 Lin. Ft.	Thirty-one inch (31") vertical-face concrete curb and gutter – Type I
911 Lin. Ft.	Thirty-one inch (31") vertical-face concrete curb and gutter – Type II

14. The Contractor shall furnish and install frame-to-chimney seals on all sanitary manholes within the limits of this contract. The seals shall be as specified in the *Standard Specification for Sewer and Water Construction in Wisconsin (Sixth Edition with addendum) Chapter 8.42.0.*

A sanitary manhole that contains an existing frame-to-chimney seal that is not altered or disturbed shall be deleted from the contract.

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

A sanitary manhole that contains an existing frame-to-chimney seal that is disturbed due to contractor's negligence shall be re-sealed or be replaced with a new internal seal as directed by the Engineer. This corrective work shall be at contractor's expense.

15. The following sequence of operations shall occur for these bid items:

- *Cracking and seating*
- *Grinding (other than bituminous surface removal)*
- *Joint repair*

16. The erosion control item on this contract shall include an Erosion Control Implementation Plan (ECIP). The ECIP shall be submitted to the City Engineer, at least ten (10) working days prior to the scheduled start of work on the contract. The City Engineer shall review the ECIP for meeting technical standards and notify the contractor if the plan meets the standard within seven (7) working days. Work shall not start until the ECIP meets technical standards. The contractor shall be required to have a copy of the ECIP on the job site for the entire duration of the contract. The ECIP shall include, but not be limited to:

- A plan showing all locations of erosion control devices and other *Best Management Practices (BMP's)*.
- A written description of all erosion control devices and *BMP's* to be used.
- A written schedule of installing erosion control devices.
- A written schedule of construction operations related to implementing erosion control devices and *BMP's*.
- A written maintenance schedule for all erosion control devices and *BMP's*.

All costs associated with implementing the erosion control plan, such as furnishing, installing, maintaining, and removal of erosion control devices shall be included in the unit price bid for erosion control. There shall be no additional compensation for revising the ECIP or utilizing additional *BMP's* in order to comply with *Chapter 290* of the *City of Milwaukee Code of Ordinances*. If the contractor is found not in compliance with the ECIP, the contractor will be subject to the penalties included in *Chapter 290*.

17. Pavement Joint and / or Crack Repair

Extent of Work:

- *Description:* The work shall consist of removing all loose or disintegrated concrete and asphalt adjacent to the longitudinal and transverse joints and cracks and re-paving the area prior to placing an asphalt-leveling course.

Equipment:

- *Description:* The equipment used shall conform to existing ordinances regarding air and noise pollution limitations.

Work Required:

- *Description:* The existing pavement joint or crack shall be cleaned of all loose concrete and asphalt material, joint material, vegetation and debris and filled with variable thickness asphalt concrete, one-quarter inch ($\frac{1}{4}$ " maximum). The asphalt shall be compacted with a "pogo stick" type tamper.

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

Extent of Repair:

- ☞ *Description:* The length of repair will be determined at time of construction and by the condition and quality of pavement encountered. An increase or decrease in the actual length of repair from the amount estimated shall not warrant an adjustment in the price bid for the work.

Measurement for Payment:

- ☞ *Description:* Pavement joint and/or crack repair will be measured in lineal feet as the actual length of longitudinal and transverse joint or crack repaired. The length of repair will be measured to the nearest tenth (0.1') foot.

The asphalt material will be paid as the actual amount placed and at the contract unit bid price.

18. The filter fabric for control of surface water, specified in *Section 905.18.1* shall be a filtration *Geotextile*® meeting the following properties in lieu of the properties specified in the above-noted section.

Grab Tensile Strength	200lb	ASTM D-4632
Mullen-Burst Strength	200lb	ASTM D-3786
Equivalent Sieve Size	U.S. No 30 Max	ASTM D-4751
Water Flow Rate	140 gpm/ft ²	ASTM D-4491
Permittivity	1.9 sec ¹	ASTM D-4491
Permeability	0.14 cm/sec	ASTM D-4491

19. All pavement-marking materials shall be pre-approved by the City of Milwaukee. There are two (2) pre-approved materials at this time, and they are:

MANUFACTURER	COLOR	NUMBER
3M®	White	5730
3M®	Yellow	5731

All material must be installed per the manufacturers' specifications.

If a centerline is required, an offset asphalt joint is required. Pavement markings shall be placed at the center of the roadway a minimum of one (1') foot from the asphaltic joint. Placement of lane lines may also require a minimum one (1') foot adjustment of the asphalt joint.

If the final asphaltic surface is not installed immediately following the installation of the binder course, temporary centerline pavement markings shall be installed prior to the roadway being open to traffic. The spacing of the four-inch by forty-eight-inch (4" x 48") temporary pavement marking tape must be forty-six-feet (46'). The cost of such work shall be included in the unit bid price of *Plastic Lane Markings*.

When pavement marking layouts are needed, the contractor shall contact Mr. Jim Brown at (414) 286-3276, a minimum of five (5) working days before they are needed.

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

20. All epoxy, pavement-marking material shall conform to *Section 646 of the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, 1996 Edition.*

All material must be installed per the manufacturer's specification.

If the roadway is to be opened to traffic prior to the placement of permanent pavement markings, a temporary centerline pavement marking shall be installed prior to the roadway being opened to traffic. The spacing of the four-inch by forty-eight-inch (4" x 48") inch temporary pavement marking tape must be forty-six-feet (46'). The cost of such work shall be included in the unit bid price of *Epoxy Pavement Marking.*

When pavement marking layouts are needed, the contractor shall contact Mr. Jim Brown at (414) 286-3276, a minimum of five (5) working days before they are needed.

21. The adjustments of all City manholes (Sewer, CUC, Water, etc.) shall be part of this contract. Contractor shall note Sewer and CUC special provisions, tables, and drawings.
22. The Contractor shall furnish and install detectable warning plates as detailed on the attached curb and sidewalk ramp details, at all curb and sidewalk ramps, within the project limits. The detectable warning plates shall be a *Neenah Foundry R-4984*, or an approved equal. The plates shall be unpainted. The installation of the detectable warning plates shall follow the manufacturers' suggested procedures. The installed detectable warning plates shall be measured on a per square foot unit basis, and paid under the item, *50330 Detectable Warning Field.*
23. Contractor shall be aware of **design revisions** made to **Concrete Driveways**, (*Figures 21A, 21C, 23A, 23B and 26A*). **Design changes** were also made to **Curb Ramps**, (*Figures 16A, 17A and 18A*). These **changes** are effective immediately and shall be implemented under this contract. (*See attached revised drawings*).
24. **Sewer Special Provisions include:**
- A. The sewer work on this contract is governed by the *Standard Specifications for Sewer & Water Construction in Wisconsin*, Sixth Edition dated December 22, 2003, and all Subsequent Addendums.
- B. The Contractor shall be responsible to keep all castings safe and free from damage as part of this paving contract during removal and replacement. Any damaged castings shall be brought to the attention of the construction engineer prior to removal. Any damage to the castings caused by the contractor as a result of removal and replacement shall be the responsibility of the contractor and replaced at the contractor's expense.
- C. The Contractor shall furnish new castings on all new manholes and inlets constructed as part of this contract and on existing manholes and inlets as required in the plans. New sewer manhole frames and lids shall be of type MS21 and MS58A, respectively. New inlet frames and grates shall be of type MS51 and MS57, respectively. New alley inlet frames and grates shall be of type MS8A and MS55, respectively. Castings shall be of types supplied by Neenah Foundry or approved equal. The cost of furnishing new castings shall

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

be included in the unit price bid for the respective casting. Salvaged castings shall become the property of the contractor.

- D. Manhole/Inlet Adjustment shall be in accordance with Section 810 of the *City of Milwaukee Street Construction Specifications*, dated July 1, 1992. Section **810.6 Measurement for Payment** shall be revised as follows: the unit of measurement for Manhole/Inlet Adjustment shall be: Each.
- E. Manhole/Inlet Repair shall be the removal and replacement of portions of existing manholes and inlets as required in the plans. Additional manhole/inlet repair may be added to any existing manhole/inlet once construction begins at the discretion of the construction engineer. The cost of removals and furnishing and installing all materials shall be included in the price bid for Manhole/Inlet Repair. The unit of measurement for Manhole/Inlet Repair shall be: Vertical Foot.
- F. The cost of removing any existing manhole/inlet necessary to construct any new manhole/inlet as required in the plans shall be included in the appropriate manhole/inlet bid item.
- G. The cost of all materials, including pipe, used to reconnect existing connections to new manholes constructed as part of this contract shall be included in the appropriate manhole bid item.
- H. Inlet Type 45A's shall include up to eighteen (18) inches of additional pre-cast riser structure, for a total structure height of up to sixty (60) inches below the top slab, while maintaining a minimum of eight (8) inches of rectangular precast chimney. If the inlet installation requires more than an additional eighteen (18) inches of riser structure over the standard detail forty-two (42) inch tall structure, the additional shall be paid as vertical feet under the Manhole / Inlet Repair bid item.
- I. All sewers constructed on this contract shall be PVC, smooth wall, and shall conform to ASTM D 3034 SDR 35.
- J. Precast concrete adjusting rings shall be of the type supplied by Concrete Specialties Company, Kenosha, Wisconsin or approved equal.

25. CUC/Communication Manhole Adjustment

A. Description

This special provision describes adjusting the existing chimney of the block, pre-cast, or brick round manholes; and furnishing, installing, and removing protection of the cables in the manholes during adjustment and paving operations. Perform work in accordance with the standard specifications, per *Standard Specifications for Sewer & Water Construction in Wisconsin*, as shown on the attached sketch, and as hereinafter specified.

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

B. Material

Furnish and install materials that conform to the requirements of *Standard Specifications for Sewer & Water Construction in Wisconsin*. Salvage and re-install existing covers on the manholes. For manhole covers designated for replacement the city will supply the covers. Contact Rico Lopez, Inventory Clerk, at (414) 286-6123 prior to obtaining the frames and lids from the DPW Field Headquarters at 3850 North 35th Street. Contractor must have the "Castings Requisitions Form" which shall be supplied by the city to obtain the covers.

C. Construction

Report any pre-existing problems to Ms. Karen Roney, Conduit Section, at (414) 286-3243 three working days in advance of any construction on manholes.

Before removing the pavement around the manhole, place a ¾" plywood cover or equal over existing active Street Lighting, Traffic Control, Communication or private vendor electrical cables. This cover shall be properly supported to/at the manhole floor. Contractor must place a steel cover plate over the manhole which must remain in place during construction activities until the frame and cover are placed on the manhole.

Remove existing chimney to surface of concrete roof slab. If manhole does not have an existing concrete roof slab, remove sufficient chimney as to provide adequate corbel to fit new larger cast iron frame and cover.

Break out and remove pavement around manhole. Remove existing covers, storing and securing them properly. Any damaged, lost, or stolen covers shall be the responsibility of the contractor and shall be replaced at the contractor's expense.

Adjust manhole cover to proposed grade using brick or concrete rings as necessary. After paving is complete, remove all wedges and shims. Fill voids with grout. Do not back plaster inside walls. After completion of all paving operations, remove the temporary ¾" plywood cover or equal which was placed over the existing electrical cables in the manhole as mentioned above. Remove all construction debris from the manhole.

D. Measurement and Payment

The unit of measurement for CUC manhole adjustment shall be each.

Note: CUC Manhole Adjustment shall include up to twelve (12) inches of Adjustment. Payment shall be full compensation for furnishing all required materials, exclusive of frames, grates, or lids available and designated for adjusting; for removing, re-installing and adjusting the covers; and for furnishing all labor, tools, equipment, and incidentals necessary for adjusting each cover, complete in accordance to the requirements of the plans and contract. Covers to be adjusted and which were rendered unfit for use by the contractor, through the contractor's operations will be replaced by the contractor in kind at the contractor's own cost and expense.

26. The Contractor shall be required to place a leveling course on all projects on this contract using one-half (½"), three-eighths-inch (¾") or one-quarter-inch (¼") asphalt concrete mix as specified. The material shall be placed to within one-and-one-half-inches (1½") of the proposed surface elevation.

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

27. The City has retained a consultant for doing line and grade staking on paving contracts. The City needs the project staked five (5) working days before construction starts so the removals can be measured by City field crews. As a result, the contractor must contact the City eight (8) working days in advance so that the City can give the consultant three (3) working days to stake the project. The City will make the initial consultant contact at the time the contractor calls for a start. If the contractor wants the stakeout done in a special way to accommodate a special piece of equipment or a new procedure, it is up to the contractor to communicate this to the consultant. The consultant is required to stake each stage of work one (1) time. The contractor is required to check that the stakes and grades are acceptable to use before construction starts. Any staking required because the contractor failed to protect the stakes or failed to transfer the grades would be at the contractor's expense. If there are design changes, the consultant will be paid an *extra* for stakeout. Stakes needing replacement due to alleged third party actions will require Construction Supervisor approval if a cost is involved.
28. The Contractor shall protect, adjust and maintain accessibility to all Milwaukee Water Works (MWW) facilities (manholes and access boxes which house water appurtenances such as valves, curb stops, air vents and blow offs) within the limits of and for the duration of the paving project. The Contractor shall preserve the location markings of all water facilities by maintaining blue paint markings and installing temporary stakes as necessary. All MWW facilities shall be maintained in clean, properly adjusted and aligned and undamaged condition throughout the paving project and upon completion. Cost for adjustments shall be per each as listed in the bid item quantities.

Prior to the start of the contract start date, MWW will locate, mark, inspect and repair all water manholes and access boxes within the limits of the project to ensure that they are all properly adjusted and aligned for access to the appurtenance below ground. In addition, MWW will ensure that all appurtenances (valve, curb stop, air vent and blow off) are in proper operable condition. Upon completion of the pre-inspection but before construction commences, the MWW will walk through the project with a representative from Infrastructure Services Construction Section to document the condition of the project and ensure all are knowledgeable about the condition of the project prior to the commencement of work by the contractor. The paving contractor will be invited to attend this walk through. Not attending the walk through will not release the contractor from their required obligations and responsibilities.

The Contractor will be provided with information identifying the water facilities. The Contractor is responsible throughout the duration of the project, to ensure all water facilities are located, identified by maintaining the blue paint markings, accessible for operation and free from damage at ALL times. All appurtenances shall be operable so as to control a leak in the event of water emergency or to accommodate a customer's request for a water shut off. Any water appurtenance identified during the duration of the project that cannot be located or operated, must be corrected by the contractor immediately. If the MWW requires the location and/or operation of the appurtenances during the course of the project, and it is not identifiable and/or accessible, the MWW will make the necessary repairs and the cost of those repairs and any associated costs as a result of the delayed shut-off will be billed to the contractor as well as any costs of claims due to an impeded shut-off response. The Contractor shall remit payment of the invoice to MWW within 30 days of the invoice date. In addition the bid item(s) payment owed to the contractor for affected items will be disallowed on the contract.

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

All materials used for the adjustment and or repairs of MWW manholes and access boxes must meet MWW specifications and will be provided by *City of Milwaukee, Milwaukee Water Works' Inventory, 3850 North 35th Street Milwaukee, WI 53216, (414) 286-2827, or by contacting Mr. Jesse Hernandez at (414) 286-6306 or (414) 708-2670. Milwaukee Water Works Distribution General Contact Number is (414) 286-3710.* If materials that have been provided by MWW are damaged by the contractor the replaced MWW Specified materials will be charged to the contractor. If existing access boxes are damaged by the contractor or subcontractors, they can only be replaced with MWW specified materials and will be charged to the contractor. If additional MWW materials are needed they will be provided by the City of Milwaukee, MWW Inventory and may be charged to the contractor depending on the circumstances as determined by the MWW. All MWW materials furnished but not used on the project shall be returned and delivered to the City of Milwaukee, MWW Inventory. The Inspector will provide the contractor a Surplus Material form as well as provide a copy of the form to the City of Milwaukee, MWW Inventory. Materials not returned will be charged and billed to the contractor with payment of the invoice due to the MWW within 30 days of the invoice date.

Infrastructure Services Construction Section will notify MWW of the completion of the paving work and MWW will then inspect all water manholes and access boxes within the project limits to ensure the manholes and boxes are clean, properly adjusted and aligned and the appurtenances are accessible and operable. The contractor will be notified of any defects by the City. The contractor will have fifteen (15) working days from the date of notification to complete corrections. After 15 working days the MWW will re-inspect the identified facilities and appurtenances noted as having defects. Any remaining defects will be corrected by the MWW, and billed to the contractor for immediate payment to the MWW.

29. During construction, it is anticipated that the City of Milwaukee **street lighting facilities** will be maintained as follows:

Project/s	Street Lighting Facilities
ST211110112	Temporary Overhead to be installed
ST211170103	Temporary Overhead to be installed
ST211170104	Protect and Adjust

Street Lighting personnel will determine if the lighting facilities will be installed in overhead or left in service to be protected and adjusted. If it is determined that overhead is justified, street lighting personnel will make every effort to install temporary overhead facilities and relocate permanent facilities, as needed, before roadway construction starts. Prior to construction, the contractor will be provided with a street lighting plan identifying the live facilities.

The contractor shall be aware that when **Temporary Overhead** is installed, some existing underground street lighting facilities can remain live and must be carefully worked around to avoid any damage to them. The contractor is to be aware that with many paving jobs overhead facilities will be installed at the intersections only while the remainder of the job is to be treated as a protect and adjust project. The contractor will be held responsible for any damages to the portions of the lighting facilities which remain in underground and live. The contractor is not start work until the

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

street lighting overhead circuitry is fully operational. If the contractor starts before the circuitry is fully operational, he will be responsible for all damages to lighting facilities.

During and after roadway construction, *Street Lighting Forces* will install permanent lighting facilities. Once street lighting personnel installs permanent facilities, especially pipes, the contractor is to use caution near these facilities. He will be held responsible for damages to the newly installed facilities.

The Contractor shall keep the *Street Lighting Construction Supervisors* informed of the status of the roadway construction. Contact:

Mr. George Berdine (414) 286-5943 / office (414) 708-4245 / cell

Mr. Dennis Miller (414) 286-5942 / office (414) 708-4251 / cell

Mr. Thomas Hughes (414) 286-3457 / office (414) 708-3175 / cell

Note: If Mr. Berdine, Mr. Miller, or Mr. Hughes is not available, then contact our dispatcher at (414) 286-5944. For damages occurring after hours (not between 7:00 AM to 3:00 PM on holidays and weekends) please use our 24 hour number, (414) 286-3015.

The Contractor must keep the area behind the curb free from over pour and other debris. He will be held responsible for costs incurred by *Street Lighting Forces* for cleaning debris from behind the curb.

If the contractor requests the relocation of any street lighting facilities, *permanent or temporary*, for his convenience, he will be responsible for all costs incurred by *Street Lighting* personnel fulfilling his request.

Any questions regarding the design of the lighting system are to be directed to *Street Lighting Engineering*. Contact Mr. Eng-Kie Lee at (414) 286-2174.

30. **Forestry**

Forestry Special Provisions include:

When tree roots are encountered, the following shall apply:

1. **Sidewalk Construction:**

- A. The root system on the walk side of the tree shall be cut no deeper than **nine-inches (9")** below the finished grade of the new walks, and not more than **five-inches (5")** from the edge of the new walk. Roots in the walk area shall be removed only to a depth of **nine-inches (9")** below the finished grade of the new walk.
- B. When replacing walks adjacent to the following trees, a slip or thin form must be used. Additionally, soil disturbance in the tree border should be limited to no more than **one-quarter inch (1/4")** beyond the edge of the new walk:

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

Project No. ST211110112

Sta. 11+41 W/S.

C. Where sidewalks are to be narrowed, all old sidewalks should be removed prior to any root cutting. If necessary, the root system should be cut within **one-quarter inch (1/4")** of the edge of the proposed new walk and no more than **nine-inches (9")** below the finished grade of the new walk.

D. Sidewalks are to be removed, and roots cut, by use of **hand implements only**.

2. **Carriage Walk Construction:**

A. When constructing or replacing carriage walks, **roots shall not be cut by means of mechanical root cutting machines**. If root removal is essential to carriage walk replacement, **roots shall be manually cut with hand implements**. Roots shall be removed no deeper than **nine-inches (9")** below the finished grade of the new carriage walk.

3. **Curb, Gutter and Road Construction:**

A. The root system on the curbside shall be cut no more than **two-inches (2")** behind the back edge of the new curb and not more than **eighteen-inches (18")** in depth when constructing the new curb and gutter.

B. The root system on the curb side **shall not be cut; 1) a zero (Ø) clearance** slip or integral form paver can be used; or 2) gap and hand form using one-quarter-inch (1/4") steel plate for the following trees:

Project No. ST211110112

STA. 4+73.5 W/S.

C. When constructing or replacing driveways or driveway approaches, **roots shall not be cut by means of mechanical root cutting machines**. If root removal is essential to driveway replacement, roots shall be manually cut with hand implements.

D. Exposed tree roots shall be covered with mulch and watered from a period immediately following curb and gutter removal until the area is backfilled following construction.

4. **General Requirements:**

A. All cutting for the removal of sod and soil in order to establish a finished grade within four (4') feet of existing trees must be done manually, if necessary.

ST211110112 – S. 5th St. – W. Lincoln Ave. to W. Becher St.

ST211170103 – W. Becher St. – S. 7th St. to S. 10th St. (Pedestrian Crossings)

ST211170104 – W. Oklahoma Ave. at S. 10th St. (Pedestrian Crossing)

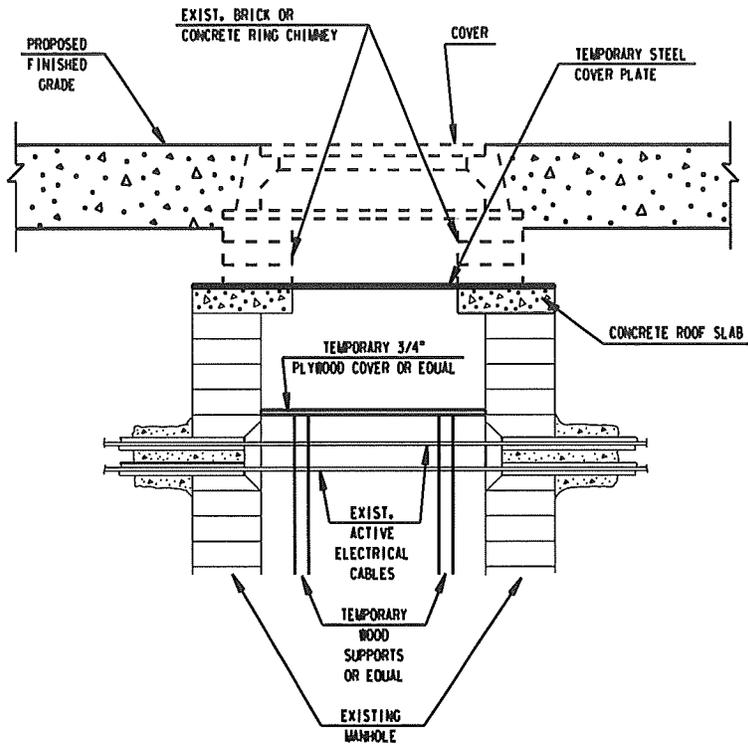
- B. No construction equipment, cars, trucks or materials shall be parked or stored on any median or tree border on this project or adjacent roadways.
- C. Root foundations must remain adequate to withstand heavy windstorms.
- D. Root systems of street trees **shall not be cut** for the installation of any type of cable by the contractor or City Department. Contact **the Forestry Division at (414) 708-2428** for directional boring specifications.
- E. Caution should be used during the construction process to avoid damage to the roots, trunks, and branches of all street trees. Damage caused to any street tree or irrigation system will be **repaired by the Forestry Division** and the costs of repair, rejuvenation, and/or value lost will be billed to the contractor or credited against the contract at the option of the City.
- F. At locations where the contractor has not complied with the Forestry Special Requirements stated in the Special Provisions above, and the maximum clearance was exceeded, or a thin form was not used, a minimum credit to the City of **fifty dollars (\$50.00)** per location will be taken. The credit will increase in proportion to the excess distance beyond clearance allowed. The credit will be **(\$50.00)** for each two-inch (2") increment, or part thereof, in excess of the initial clearance allowed. Any damage to the tree's structure totaling fifteen (15%) percent of the tree's value will be billed on a prorata basis. If, in the opinion of the Forestry Division, the tree has been damaged to the point that it warrants removal, the credit that will be taken will be equal to **one-hundred dollars (\$100.00)** per inch diameter of the tree. A field measurement will be taken to determine the tree size.

S. 5th St. - W. Lincoln Ave. to W. Becher St.

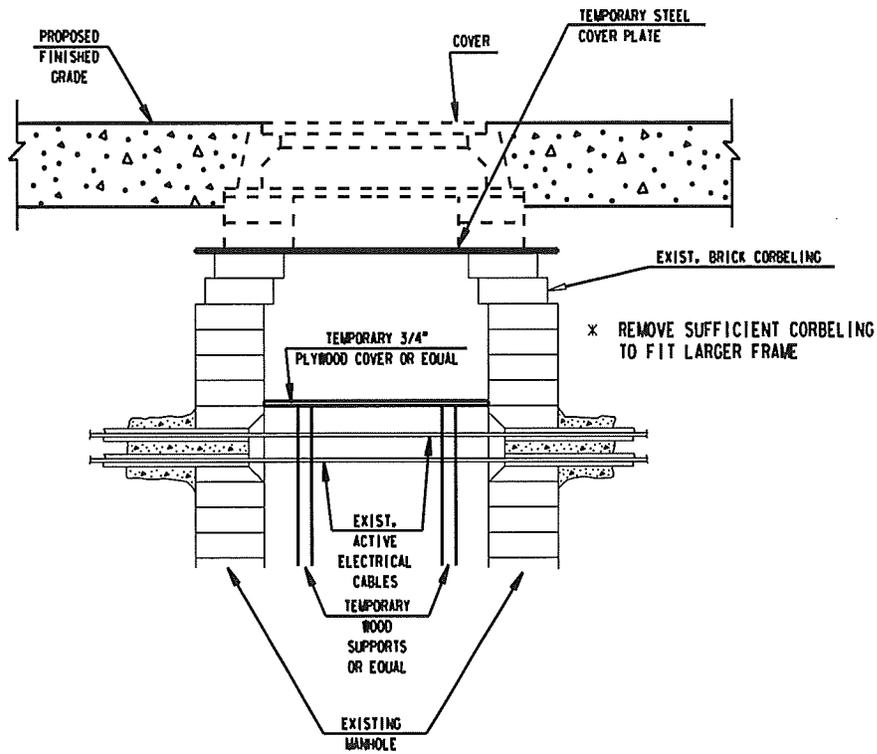
DRAINAGE STRUCTURES										PVC PIPE, STORM SEWER				REPAIR		REMARKS
TYPE OF STRUCTURE	STATION	CENTERLINE OFFSET	COVER ELEV.	NEW STRUCTURE	REPLACEMENT STRUCTURE	FRAME & LID	CONNECTION STRUCTURE	SIZE (IN)	LENGTH (FT)	INVERT ELEV. INLET	PIPE SLOPE	VERTICAL INCHES	REMARKS			
Comb. MH	1+13	2.9' Right	39.83			56A							O.N. 97-1			
Comb. MH	3+02	2.9' Right	35.27			56A							S1721110112			
CB	4+86	17.0' Left	34.07			57										
Comb. MH	4+88	4.5' Left	34.30			56A										
Comb. MH	4+89	10.0' Right	34.02			56A	Existing Drain	8	5				RESET			
CB	4+90	17.0' Right	33.65		44A	57										
Comb. MH	4+90	9.9' Right	34.21			56A							RESET			
CB	6+70	17.0' Right	32.82		44A	57	Existing Drain	8	5			18	RESET			
Comb. MH	6+75	10.0' Right	33.16			56A										
Comb. MH	6+80	2.9' Right	33.33			56A										
CB	6+86	17.0' Left	33.34			57										
CB	7+05	36.0' Left	33.75			57	Existing Drain	8	5			X	RESET			
CB	7+43	40.0' Left	33.66		44A	57										
Comb. MH	7+70	3.0' Right	32.86			56A										
CB	9+62	17.0' Right	31.05		44A	57	Existing Drain	8	5				RESET			
Comb. MH	9+62	2.9' Right	31.56			56A										
Comb. MH	9+64	8.6' Right	31.41			56A						9				
CB	9+72	17.0' Left	31.47			57						6				
Comb. MH	9+72	6.2' Left	31.57			56A						9				
CB	11+31	17.0' Right	28.75			57										
CB	12+49	39.7' Left	26.00			57						X				
		Structure	Structure	4+0' MH	44A	Frame & Lid 56A	Frame & Lid 57	12-inch	6-inch	Abandon	Repair (in.)	Removal	Prepared/BB			
		Total	0	4	11	8	20	0	42	0	0	0	Checked/AR			

W. Oklahoma Av. at S. 10th St.

		DRAINAGE STRUCTURES				PVC PIPE, STORM SEWER						REPAIR		REMARKS
TYPE OF STRUCTURE	STATION	CENTERLINE OFFSET	COVER ELEV.	NEW STRUCTURE	REPLACEMENT STRUCTURE	FRAME & LID	CONNECTION STRUCTURE	SIZE (IN)	LENGTH (FT)	INVERT ELEV. INLET	OUTLET	PIPE SLOPE	VERTICAL INCHES	
San. MH Inlet	19+80 19+85	48 R 56 R	61.43 61.00	- -	- -	- -	- -	- -	- -	- -	- -	- -	X X	O.N. 97-1; Est. 29772 ST211170104 Adjust San. MH Adjust only
Structure				4'-0" MH	44A	Frame & Lid 58A	Frame & Lid 57	12-inch	8-inch	Abandon	Repair (in.)	Removal		LB. 9/6/16 CHECKED BY AR-97/16

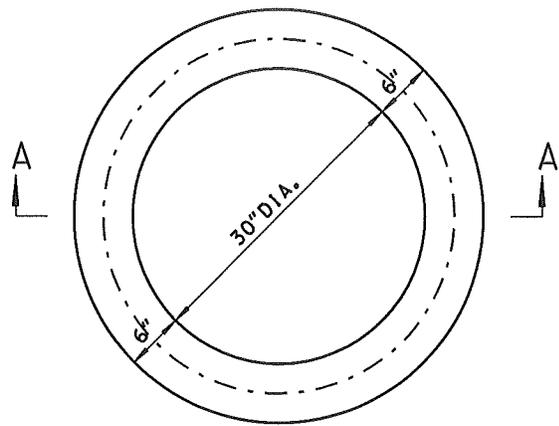


BLOCK OR PRECAST MANHOLE



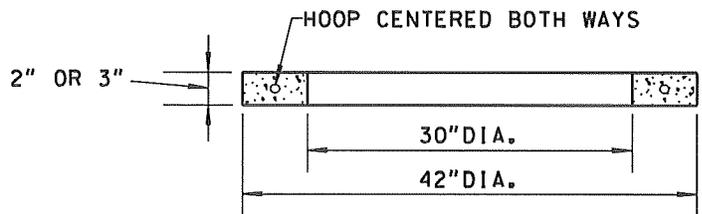
BRICK ROUND MANHOLE

ADJUSTING CUC MANHOLE COVERS



PLAN

CONCRETE ADJUSTING RING



SECTION A-A

THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

ADJUSTING CUC MANHOLES

W BECHER ST - INTERSECTIONS S 10TH ST, S 8TH ST & S 7TH ST

NO.	LOCATION	MANHOLE ADJUSTMENT EACH	COVER	REMARKS
2312	STA 01+71.9, 11.8' RT	1	USE EXISTING	
2313	STA 02+11.5, 28.2' LT	1	NEW COVER	REMOVE CHIMNEY TO ROOF DECK
2293	STA 13+81.5, 22.8' RT	1	NEW COVER	REMOVE SUFFICIENT CORBEL TO FIT LARGER FRAME
W OKLAHOMA AVE & N 10TH ST INTERSECTION				
2532	STA 20+28.2, 40.7' LT	1	NEW COVER	REMOVE SUFFICIENT CORBEL TO FIT LARGER FRAME
TOTAL		4	3	

CUC MANHOLES CONTAIN LIVE ELECTRICAL AND COMMUNICATIONS CABLES INCLUDING FIBER OPTICS. THE CONTRACTOR WILL FOLLOW ALL OSHA AND NFPA SAFETY REGULATIONS REGARDING WORKING IN CLOSE SPACES AND WORKING AROUND LIVE CABLES.

OFFICIAL NOTICE NO. 97-1-2016

For

(ST211110112)

**S. 5th St.- W. Lincoln Ave. to W. Becher St.
(ST211170103)**

**W. Becher St. - S. 7th St. to S. 10th St. (Pedestrian crossings)
(ST211170104)**

W. Oklahoma Av. at S. 10th St. (intersection) (Traffic/Ped.)

14th Aldermanic District

ALL BIDS MUST BE TYPED OR PRINTED

30500	MOBILIZATION	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
30501	FINISHING ROADWAY	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
30606	BARRICADING AND SIGNING	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
40121	CUTTING	11.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
40122	ROADWAY CUTTING	59.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.

OFFICIAL NOTICE NO. 97-1-2016

40131	FILLING	38.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
40211	PAVEMENT REMOVAL	1,051.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
40231	CURB AND/OR CURB AND GUTTER REMOVAL	2,081.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40241	CONCRETE WALK AND/OR DRIVEWAY REMOVAL	10,214.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
40261	SAWING (FULL DEPTH)	149.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40262	SAWING	208.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
50200	CONCRETE CURB AND GUTTER	2,129.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.

OFFICIAL NOTICE NO. 97-1-2016

50301	CONCRETE CURB PEDESTRIAN	28.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
50315	5 INCH CONCRETE WALK	11,412.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50330	DETECTABLE WARNING FIELD	240.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50367	7 INCH CONCRETE DRIVEWAY	672.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50580	8 INCH CONCRETE PAVEMENT	585.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
50700	VARIABLE THICKNESS CONCRETE BASE	6.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
50780	8 INCH CONCRETE BASE	56.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.

OFFICIAL NOTICE NO. 97-1-2016

60103	TACK COAT	295.00 gallon
(Bid in figures)	\$ _____	per gallon
(Bid in words)	\$ _____	per gallon
60105	BASE PREPARATION FOR ASPHALT SURFACE	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
60130	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT (1/2 INCH MAXIMUM)	1,059.00 ton
(Bid in figures)	\$ _____	per ton
(Bid in words)	\$ _____	per ton
70106	6 INCH CRUSHED STONE BASE	5.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
70203	3 INCH CRUSHED GRAVEL BASE	779.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
70500	GRAVEL FILLING	198.00 ton
(Bid in figures)	\$ _____	per ton
(Bid in words)	\$ _____	per ton
82200	SODDING	644.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.

OFFICIAL NOTICE NO. 97-1-2016

82300	TOPSOIL	36.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
83200	PAVEMENT GRINDING	1,532.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
83306	PAVEMENT MARKING, 4" WHITE, COLD PLASTIC FURNISH AND INSTALL	142.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83317	PAVEMENT MARKING, STOP LINE, 24" WHITE COLD PLASTIC, FURNISH AND INSTALL	17.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83324	PAVEMENT MARKING, CROSSWALK 12" WHITE, COLD PLASTIC, FURNISH AND INSTALL	206.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83355	PAVEMENT MARKING, CROSSWALK, EPOXY, 12 INCH, WHITE	360.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83400	SEALING PAVEMENT JOINTS AND CRACKS	585.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.

OFFICIAL NOTICE NO. 97-1-2016

83433	REMOVING PAVEMENT MARKINGS	240.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83601	REPAIR PAVEMENT JOINTS AND CRACKS	805.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83701	CRACKING AND SEATING CONCRETE PAVEMENT	5,226.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
83800	DRILL AND INSTALL REINFORCING RODS	70.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84320	WATER VALVE BOX ADJUSTMENT	4.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84511	MANHOLE / INLET ADJUSTMENT TYPE I	12.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84512	MANHOLE / INLET ADJUSTMENT TYPE II	23.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each

OFFICIAL NOTICE NO. 97-1-2016

97003	ABANDON STORM WATER INLET OR CATCH BASIN	5.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97180	INLET FRAME AND COVER TYPE 57	12.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97181	MANHOLE FRAME AND COVER TYPE 58A	14.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97212	INLET, TYPE 44A	8.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97220	MANHOLE/INLET REPAIR	4.00 vert. ft.
(Bid in figures)	\$ _____	per vert. ft.
(Bid in words)	\$ _____	per vert. ft.
97328	8" PVC PIPE	96.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
97332	12" PVC PIPE	54.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.

**PROJECT BREAKDOWN
OFFICIAL NOTICE # 97-1**

09/14/2016
08:23:48 AM

PROJECT TITLES

PROJECT 871-1001	PROJECT/GRANT ST211110112	ESTIMATE 29033
S. 5th St.- W. Lincoln Ave. to W. Becher St.		
PROJECT 817-0103	PROJECT/GRANT ST211170103	ESTIMATE 29747
W. Becher St. - S. 7th St. to S. 10th St. (Pedestrian crossings)		
PROJECT 817-1104	PROJECT/GRANT ST211170104	ESTIMATE 29772
W. Oklahoma Av. at S. 10th St. (intersection) (Traffic/Ped.)		

**PROJECT BREAKDOWN
OFFICIAL NOTICE # 97-1**

09/14/2016
08:23:48 AM
Page 2 of 4

Project Number		871-1001	817-0103	817-1104
		29033	29747	29772
Plans Per Project		2		
Roadway Width	FT.	'	40'	56'
Approximate Length	FT.	1150'	'	100'

ITEM #	ITEM DESCRIPTION	UNIT			
30500	Mobilization	Lump Sum	*	*	*
30501	Finishing Roadway	Lump Sum	*	*	*
30606	Barricading and Signing	Lump Sum	*	*	*
40121	Cutting	cu. yd.	2	7	2
40122	Roadway Cutting	cu. yd.	-	59	-
40131	Filling	cu. yd.	2	28	8
40211	Pavement Removal	sq. yd.	35	937	79
40231	Curb and/or Curb and Gutter Removal	lin. ft.	1200	698	183
40241	Concrete Walk and/or Driveway Removal	sq. ft.	5444	3138	1632
40261	Sawing (Full Depth)	lin. ft.	-	149	-
40262	Sawing	lin. ft.	168	37	3
50200	Concrete Curb and Gutter	lin. ft.	1096	834	199
50301	Concrete Curb Pedestrian	lin. ft.	-	-	28
50315	5 inch Concrete Walk	sq. ft.	4425	5410	1577
50330	Detectable Warning Field	sq. ft.	16	160	64
50367	7 inch Concrete Driveway	sq. ft.	485	187	-
50580	8 inch Concrete Pavement	sq. yd.	-	540	45
50700	Variable Thickness Concrete Base	cu. yd.	5	1	-
50780	8 inch Concrete Base	sq. yd.	56	-	-
60103	Tack Coat	gallons	287	8	-
60105	Base Preparation for Asphalt Surface	Lump Sum	*	*	*
60130	Variable Thickness Asphalt Concrete Pavement (1/2	tons	1029	29	1
70106	6 inch Crushed Stone Base	sq. yd.	-	5	-
70203	3 inch Crushed Gravel Base	sq. yd.	-	779	-
70500	Gravel Filling	tons	57	119	22
82200	Sodding	sq. yd.	386	195	63
82300	Topsoil	cu. yd.	21	11	4
83200	Pavement Grinding	sq. yd.	1368	164	-
83306	Pavement Marking, 4" White, Cold Plastic Furnish and	lin. ft.	142	-	-
83317	Pavement Marking, Stop Line, 24" White Cold Plastic,	lin. ft.	17	-	-
83324	Pavement Marking, Crosswalk 12" White, Cold	lin. ft.	206	-	-
83355	Pavement Marking, Crosswalk, Epoxy, 12 Inch, White	lin. ft.	-	360	-
83400	Sealing Pavement Joints and Cracks	sq. yd.	-	540	45
83433	Removing Pavement Markings	lin. ft.	-	240	-
83601	Repair Pavement Joints and Cracks	lin. ft.	805	-	-
83701	Cracking and Seating Concrete Pavement	sq. yd.	5226	-	-
83800	Drill and Install Reinforcing Rods	each	-	-	70
84320	Water Valve Box Adjustment	each	-	4	-
84511	Manhole / Inlet Adjustment Type I	each	-	10	2
84512	Manhole / Inlet Adjustment Type II	each	23	-	-
97003	Abandon Storm Water Inlet or Catch Basin	each	-	5	-
97180	Inlet Frame and Cover Type 57	each	8	4	-
97181	Manhole Frame and Cover Type 58A	each	11	3	-
97212	Inlet, Type 44A	each	4	4	-
97220	Manhole/Inlet Repair	vert. ft.	4	-	-
97328	8" PVC Pipe	lin. ft.	20	76	-
97332	12" PVC Pipe	lin. ft.	-	54	-
97900	Erosion Control	Lump Sum	*	*	*
99741	CUC Manhole Adjustment Type I	each	-	3	-

* Combined under one lump sum.

**PROJECT BREAKDOWN
OFFICIAL NOTICE # 97-1**

09/14/2016
08:23:49 AM
Page 3 of 4

Project Number	TOTAL
Plans Per Project	
Roadway Width	FT.
Approximate Length	FT.

ITEM #	ITEM DESCRIPTION	UNIT	
30500	Mobilization	Lump Sum	1
30501	Finishing Roadway	Lump Sum	1
30606	Barricading and Signing	Lump Sum	1
40121	Cutting	cu. yd.	11
40122	Roadway Cutting	cu. yd.	59
40131	Filling	cu. yd.	38
40211	Pavement Removal	sq. yd.	1051
40231	Curb and/or Curb and Gutter Removal	lin. ft.	2081
40241	Concrete Walk and/or Driveway Removal	sq. ft.	10214
40261	Sawing (Full Depth)	lin. ft.	149
40262	Sawing	lin. ft.	208
50200	Concrete Curb and Gutter	lin. ft.	2129
50301	Concrete Curb Pedestrian	lin. ft.	28
50315	5 inch Concrete Walk	sq. ft.	11412
50330	Detectable Warning Field	sq. ft.	240
50367	7 inch Concrete Driveway	sq. ft.	672
50580	8 inch Concrete Pavement	sq. yd.	585
50700	Variable Thickness Concrete Base	cu. yd.	6
50780	8 inch Concrete Base	sq. yd.	56
60103	Tack Coat	gallons	295
60105	Base Preparation for Asphalt Surface	Lump Sum	1
60130	Variable Thickness Asphalt Concrete Pavement (1/2	tons	1059
70106	6 inch Crushed Stone Base	sq. yd.	5
70203	3 inch Crushed Gravel Base	sq. yd.	779
70500	Gravel Filling	tons	198
82200	Sodding	sq. yd.	644
82300	Topsoil	cu. yd.	36
83200	Pavement Grinding	sq. yd.	1532
83306	Pavement Marking, 4" White, Cold Plastic Furnish and	lin. ft.	142
83317	Pavement Marking, Stop Line, 24" White Cold Plastic,	lin. ft.	17
83324	Pavement Marking, Crosswalk 12" White, Cold	lin. ft.	206
83355	Pavement Marking, Crosswalk, Epoxy, 12 Inch, White	lin. ft.	360
83400	Sealing Pavement Joints and Cracks	sq. yd.	585
83433	Removing Pavement Markings	lin. ft.	240
83601	Repair Pavement Joints and Cracks	lin. ft.	805
83701	Cracking and Seating Concrete Pavement	sq. yd.	5226
83800	Drill and Install Reinforcing Rods	each	70
84320	Water Valve Box Adjustment	each	4
84511	Manhole / Inlet Adjustment Type I	each	12
84512	Manhole / Inlet Adjustment Type II	each	23
97003	Abandon Storm Water Inlet or Catch Basin	each	5
97180	Inlet Frame and Cover Type 57	each	12
97181	Manhole Frame and Cover Type 58A	each	14
97212	Inlet, Type 44A	each	8
97220	Manhole/Inlet Repair	vert. ft.	4
97328	8" PVC Pipe	lin. ft.	96
97332	12" PVC Pipe	lin. ft.	54
97900	Erosion Control	Lump Sum	1
99741	CUC Manhole Adjustment Type I	each	3

* Combined under one lump sum.