

CITY OF MILWAUKEE  
Department of Public Works  
Milwaukee Water Works  
Request for Proposal  
Inspection and Repair  
Linnwood To Riverside  
Effluent tunnel  
OFFICIAL NOTICE NO. 65-2014  
JULY 17, 2014

ADDENDUM NO. 3

This Addendum consists of the following **CHANGES TO THE RFP DOCUMENT FOR OFFICIAL NOTICE 65-2014**:

**1. PLEASE SEE THE RESPONSES BELOW TO THE REQUEST(S) FOR INFORMATION SUBMITTED:**

**QUESTION #1:**

There are 2 air vents at locations between the 2 entry points at either end of the tunnel. What is the size of each opening?

**RESPONSE:**

**Each manhole cover is 2'-6.5" in diameter. Each vent manhole opens to a tapered plug that is 2'-4" dia. & 2'-2" dia. respectively. The actual opening for venting is 2'-2" in diameter. The actual diameter of the manhole is 3'-0" in diameter. Please see page 7 of document "Layout of Plants.pdf" located in the on-line section titled "Accompanying Documents".**

**QUESTION #2:**

Does the site of each vent facilitate easy access? (No obstruction at exterior perimeter.)

**RESPONSE:**

**As stated above, the manhole/vent is actually covering a tapered plug. There is actually a covered vent that extends from the manhole to a location not far from the curb line. See drawing at end of the addendum.**

**QUESTION #3:**

Will the contractor have the ability to provide a secure perimeter around each location such as locked fencing to facilitate long-term access?

**RESPONSE:**

**As stated in the RFP, the contractor/consultant shall coordinate and obtain all necessary permits, security, and traffic modifications with the Milwaukee Water Works and the local governmental bodies in order to obtain such access. See drawing at end of addendum.**

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**QUESTION #4:**

Can these vents be accessed and left open the duration of the project to be used as a potential rout for electrical, air hoses, water hoses.....or other necessary equipment?

**RESPONSE:**

**The Contractor/Consultant shall coordinate with the Milwaukee Water Works and the local government bodies the proper measures will be needed to maintain the openings. It is anticipated that these vents can remain open provided they are maintained and proper safety precautions are used. See drawing at end of addendum.**

**QUESTION #5:**

Are these vents at grade/flush, or is access for these vents within a concrete chase elevated above grade like the entrance at the East end of the tunnel?

**RESPONSE:**

**The manholes are flush with the grade, and the vent is about 24" above grade. See drawing at end of addendum.**

**QUESTION #6:**

The tunnel walls are to be power-washed to remove surface contaminants such as sludge and mold/moss. This will help facilitate the visual inspection as it will expose the concrete surface. If calcifide minerals are built up atop the surface of the tunnel walls, is it expected that this calcification is removed? Concerned as to the expected standard as this is an extremely difficult, costly type of stain/surface contaminant to remove even in a very small area.

**RESPONSE:**

**It is anticipated that the only "calcified" material will be "calcium phosphate" precipitate matter, and no mold/moss is anticipated. Tunnel washing shall be sufficient to provide an accurate condition assessment and reveal any defects needing repair. From a prior diver inspection of the Linnwood Gate House, there was indication of the precipitate adhering to the gate house area including the gate and all metal objects.**

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**QUESTION #7:**

Will the Riverside PS be 'drained' by the City pumping as much as possible into the distribution system prior to the beginning of this contract? If so, what is the anticipated elevation of the water level in the tunnel after the City stops all pumping from the Riverside Station?

**RESPONSE:**

**The tunnel will be dewatered by the contractor. The Riverside station pumps can't be used due the elevations of the pumps and the water levels at the Linnwood plant reservoirs. There is a high risk of cavitation of the pumps due to loss of suction head. The gates and Linnwood will be closed after all pumps are racked out. The contractor/consultant shall be responsible for all dewatering of the tunnel both prior to washing and after initial chlorination. CITY will provide electrical power for pump.**

**ADDITIONAL INFORMATION:**

**In 1986, the tunnel was pumped out by MWW via a 1,000 gpm submersible pump at 80 ft. TDH. Lengths of 6" diameter reinforced hose were used to drain the tunnel by dropping the hose into the sump located at the bottom of the access manhole at the station and pumping to one of the catch basins that flows to the MMWD combined sewer to the East of the station. The gate shaft manhole at Riverside has a top elevation of +19.50, and the bottom of the sump is -35.00 for a total depth of 54.50 feet. The bottom elevation of the tunnel at the shaft is -32.00. The sump is approximately 3'-0" deep below the tunnel.**

**QUESTION#8:**

If the plugging of the 2" flowing pipe is successful, the anticipated volume of water from existing leaks is 25 GPM. Is it acceptable to allow that 25 GPM to drain the length of the tunnel to the PS, prior to being removed?

**RESPONSE:**

**Yes, it is acceptable as MWW has filed a "NOTICE OF INTENT" with MMSD for disposal of all water. However contractor shall control and dispose of all leakage.**

**QUESTION #9:**

Is cleaning and inspection of the 2 distribution tunnels located immediately west of the gate well at the Riverside PS part of this contract? Have these 2 tunnels been inspected in

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the past and is there any additional information about this area and pumps if it is part of this contract?

**RESPONSE:**

**The distribution tunnels ARE NOT part of this RFP and are not to be inspected.**

**QUESTION #10:**

Please clarify if the three references are to be provided by only the Prime/Lead Consultant or; are the three references to be representative of the entire project team; or are three references required to be submitted by each member firm of a project team?

**RESPONSE:**

**The references are to be provided by the ‘Prime’ or ‘Lead Firm’. However, the firm submitting the proposal shall indicate if a team was utilized and managed by the Prime and just list the sub-consultants/contractors indicating their role.**

**QUESTION #11:**

RFP section 2.5.5, Last Sentence States: “A separate tab in the proposal shall be provided for each of the evaluation criteria listed in Section 9.0, excluding Item A”. Section 9 (as shown on Page 9 of the May 2014 RFP) is titled Terms and Conditions however Section 8 which begins on Page 8 is titled “Evaluation Criteria”. Please clarify what is required with regard to separate tabs and content?

**RESPONSE:**

**Be advised that a typographical error occurred. Section 9 should be Section 8. Separate tabs shall be for parts “B”, “C” and “D” of Section 8.**

**QUESTION #12:**

Will sampling and laboratory analysis be performed by the City of Milwaukee Department of Public Works – Water Works?

**RESPONSE:**

**Sampling shall be conducted by the FIRM and analyses performed by the Milwaukee Water Works laboratory. Written results will be provided to the FIRM for inclusion in the final report.**

**QUESTION #13:**

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If the answer to the question above is no, please identify the Laboratory Method(s) to be used to analyze Groundwater Samples and Drinking water samples as well as the required detection limit if different than the Method Detection Limit?

**RESPONSE:**

**See response to question #12**

**QUESTION #14:**

Please provide a list of acceptable analytical laboratories?

**RESPONSE:**

**See response to question #12**

**QUESTION #15:**

Please provide clarification on how many samples are to be assumed to satisfy the term “as needed”?

**RESPONSE:**

**A single sample is required of any leakage/infiltration water at each location.**

**QUESTION #16:**

Please provide an example of when ‘drinking water’ would be sampled?

**RESPONSE:**

**Drinking water will be sampled after chlorination of the tunnel, and will be conduction by MWW lab staff.**

**QUESTION #17:**

Please identify the Contaminants of Concern and the Analytical Method to be used? Does the “Check for Contaminants” apply to Drinking Water as well?

**RESPONSE:**

**See response to question #12. This does not apply to drinking water.**

**QUESTION #18:**

Please provide guidance on what is not acceptable and what is acceptable with regard to disinfection procedures as the tunnel is 9ft diameter? The AWWA Standard is C 651. Please identify the specific WDNR regulations and/or guidance?

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**RESPONSE:**

**The WDNR has no specific guidelines regarding chlorination of water transmission mains. The reference to AWWA C651 is the only specified disinfection guideline/method by the WDNR. See NR811.73, (c), (d). The contractor/consultant shall meet all AWWA requirements when chlorinating and de-chlorinating. Disposal of the water is to be per initial de-watering.**

**QUESTION #19:**

Will sampling and laboratory analysis be performed by the City of Milwaukee Department of Public Works – Water Works?

**RESPONSE:**

**See response to question #12**

**QUESTION #20:**

If the answer to the question above is no, then please provide a list of acceptable analytical laboratories?

**RESPONSE:**

**See response to question #12**

**QUESTION #21:**

Please provide a baseline definition of crack repair RFP respondents can assume for unit pricing purposes (width, depth).

**RESPONSE:**

**For the unit price of crack repairs, assume a minimum of 1/16 inch in width and depth, length to be field determined.**

**QUESTION #22:**

Please provide acceptable crack repair materials Milwaukee Water Works has pre-approved for use in a potable water system. If you do not have a list, please provide a performance specification for the repair material that states suitable for use in potable water systems.

**RESPONSE:**

**Please be advised that any injectable grout or sealant must meet requirements of NSF 61. Firm shall submit what material is being proposed.**

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**QUESTION #23:**

The spacing and location of the vents along the length of the tunnel system needs to be identified so the contractor can properly design the ventilation for the confined space entry. Can this information be provided?

**RESPONSE:**

**The vents are approximately 4,200 feet apart. See drawing at end of addendum.**

**QUESTION #24:**

How much water can be anticipated in the tunnel after Milwaukee Water Works draws it down?

**RESPONSE:**

**It is anticipated that the only water remaining after draining of the tunnel would be about 1,900 gallons in the sump of the Riverside access manhole shaft.**

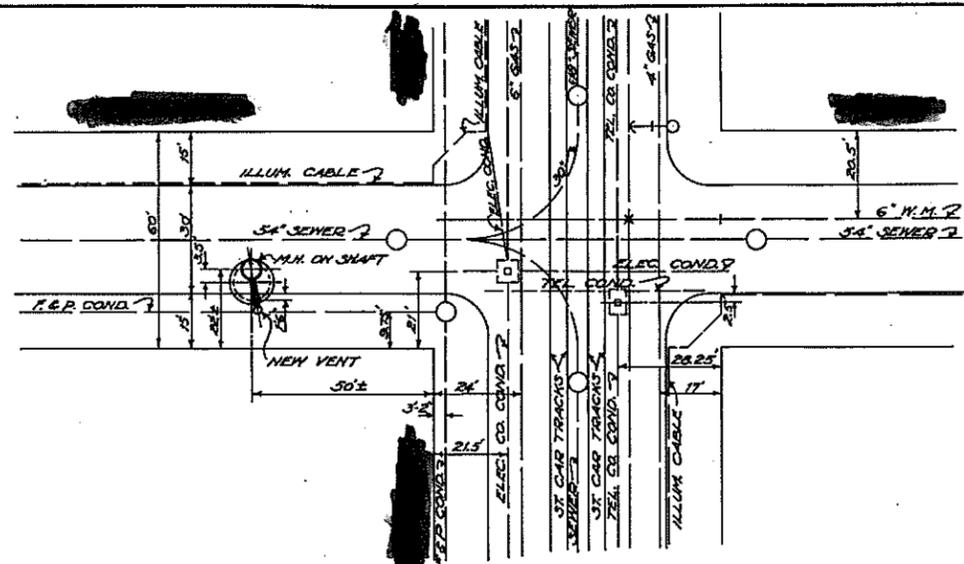
**QUESTION #25:**

Will the water that is pumped out of the tunnel to dewater it and the wash water be allowed to be discharged into the sanitary sewer? If so – who is responsible for the sewerage fees?

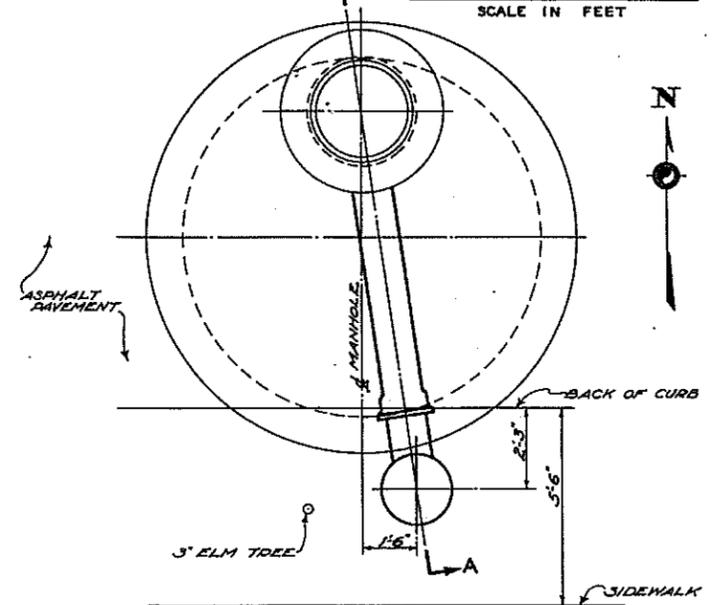
**RESPONSE:**

**The MWW has filed a “NOTICE OF INTENT” with MMSD for disposal of all water from the inspection and washing. No fee will be required.**

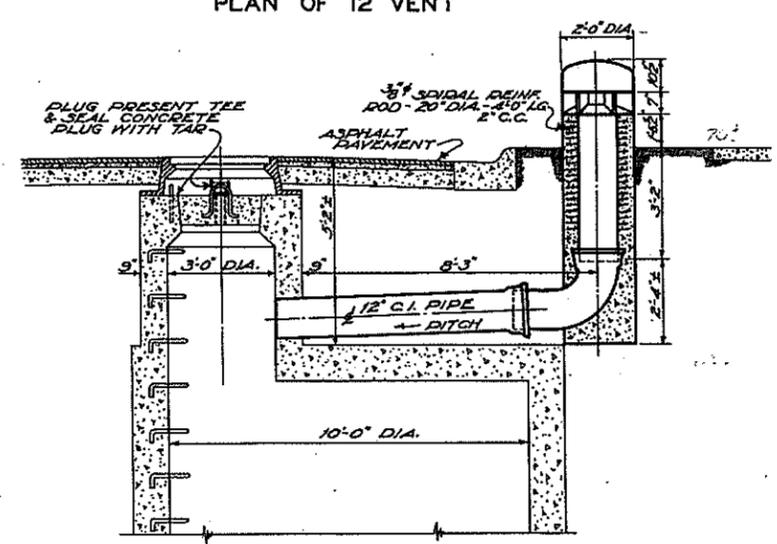
END OF ADDENDUM NO. 3



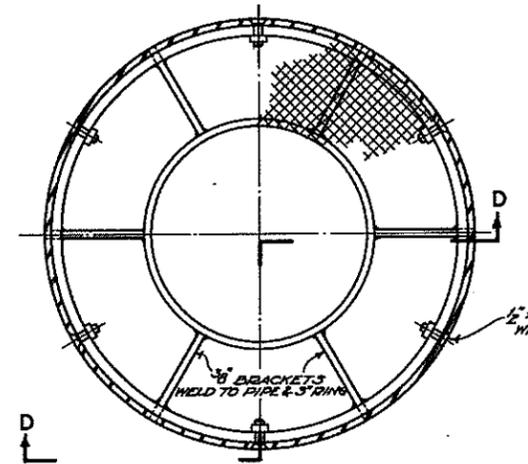
LOCATION PLAN  
SCALE IN FEET



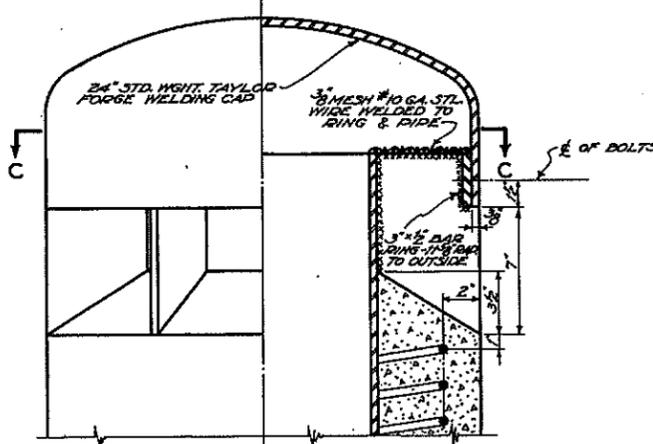
PLAN OF 12" VENT



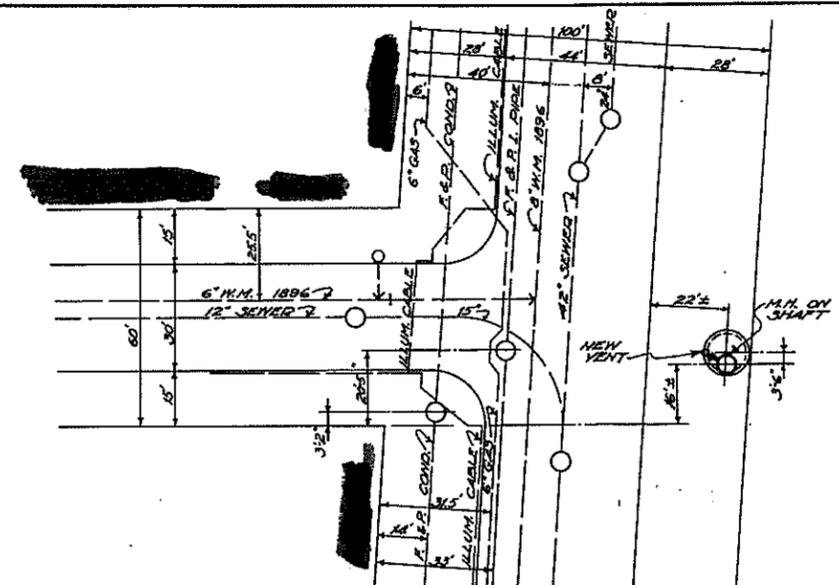
SECTION A-A  
SCALE IN FEET



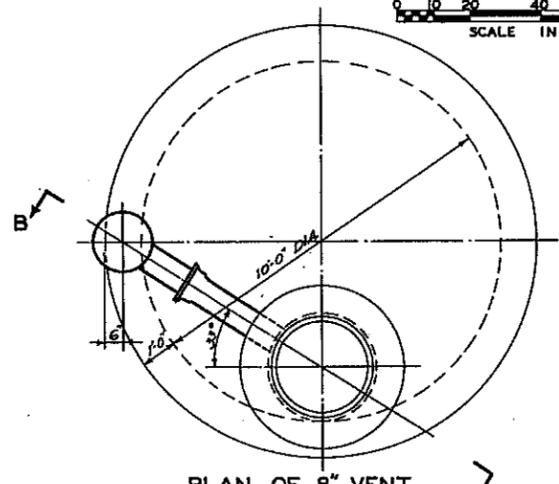
SECTION C-C



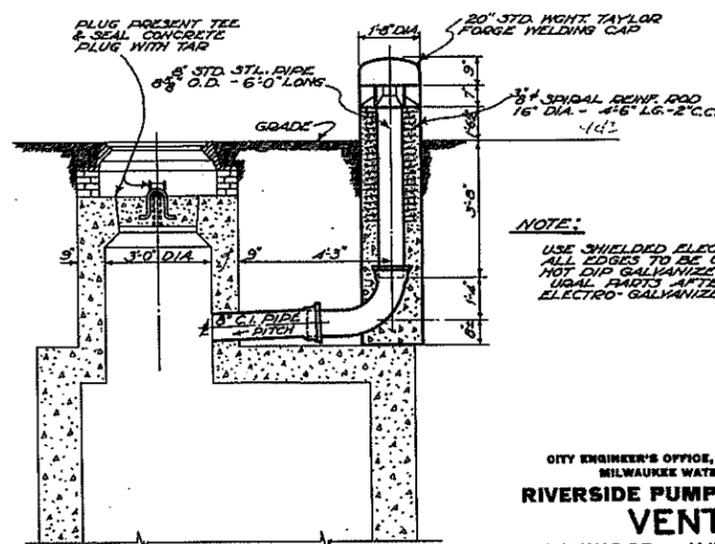
SECTION D-D  
TYPICAL DETAIL OF VENT  
SCALE IN INCHES



LOCATION PLAN  
SCALE IN FEET



PLAN OF 8" VENT



SECTION B-B  
SCALE IN FEET

NOTE:  
USE SHIELDED ELECTRIC ARC WELDING  
ALL EDGES TO BE GROUND SMOOTH.  
HOT DIP GALVANIZE ALL STEEL STRUCT-  
URAL PARTS AFTER FABRICATION.  
ELECTRO-GALVANIZE THREADED PARTS.

CITY ENGINEER'S OFFICE, MILWAUKEE, WIS.  
MILWAUKEE WATER WORKS  
**RIVERSIDE PUMPING STATION  
VENTS**  
LINWOOD AVE. TUNNEL

APPROVED: *Robert H. Brown*  
DESIGNED BY A. RYNDERS  
DRAWN BY M.C. KRUEGER  
CHECKED BY A. RYNDERS  
DATE: JANUARY 13, 1941.  
SCALE AS SHOWN  
FILE 4-526RWC-R-92-1