

CITY OF CAHOKIA HEIGHTS, IL

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE

REHABILITATION AND RESTORATION PROJECT – 21WWCTIRR01

**CONSTRUCTION ACTIVITIES STRATEGY**

The following information is being submitted, by the City of Cahokia Heights (City), who can be contacted at:

City of Cahokia Heights

103 Main St.

Cahokia Heights, IL, 62206

1-618-337-9510

Mayor Curtis McCall [ymccall@cahokiaillinois.org](mailto:ymccall@cahokiaillinois.org)

The City is submitting this information to Illinois EPA (IEPA), to outline the Project implementation strategy to achieve the planned construction activities outputs to be funded by the grant (21WWCTIRR), and designed to achieve the following:

- Rehabilitation and/or restoration of approximately 35 lift stations (including any wet well, valve vault, or other structures needing rehab or restoration as part of the location being repaired)
- Rehabilitation and/or restoration of approximately 5,800 linear feet (LF) of impaired sewer line (including any manholes needing repair as part of the location being repaired)
  - Approximately 1500 LF of pipe repair
  - Approximately 5,800 LF of cured-in-place pipe (CIPP) liner
- CIPP or slip-lining of approximately 3,500 LF of the main sewer trunkline

The City submitted a list of projects, including project type and the specific locations as part of the 9/30/2021 Notice of Funding Opportunity (NOFO) Project Details Narrative application. Illinois EPA had tentatively accepted those NOFO project locations as the locations of where the construction activities would be completed using the grant funds. The application lists the above activities (lift station rehab/restoration, sewer repair, and main trunk CIPP) including the original locations, type of work, and cost summary, which are attached as appendices A, B, and C. The City will continue to use these lists as the projects to implement, unless changes in scope occur which would cause a shift in priority, location, type, or other variation. Any such changes would be reviewed and approved by IEPA prior to making the change.

## STRATEGIES AND PRIORITIES

The Strategies to achieve the above outputs are detailed below.

The lift stations and sewer breaks to be rehabilitated, repaired, or restored under this grant were selected according to the following priority basis, ranked from highest priority to lowest:

1. Lift stations or sewer breaks located in proximity to, or associated with, known sanitary sewer overflow (SSO) incidents
2. Lift stations or sewer breaks being bypassed due to severe disrepair or non-function
3. Lift stations or sewer breaks located in the deepest parts (lowest influent elevation) of the City system, reflecting the greatest potential for infiltration of groundwater
4. Lift Stations or sewer breaks located on the sections of the City system with the greatest amount of tributary flow (such as those on large diameter influent pipes)
5. Lift stations or sewer breaks located in areas with the greatest potential for surface disruption, such as beneath major roadways, railroads, adjacent to schools, hospitals, or other such infrastructure and safety concerns

In utilizing the above priorities, the following goals will be achieved to the maximum extent possible:

- Support the elimination of SSOs
- Reduce or eliminate system surcharging
- Eliminate wastewater service backups
- Reduce O&M costs
- Increase reliability and continuity of wastewater service

The City is in the process of implementing investigative measures and corrective actions as part of an Administrative Order on Consent (AOC) with the USEPA Region V – Enforcement and Compliance Assurance Division, that also emphasizes the above priorities, and so is consistent with the goals of this grant. The causes of the occurrence of SSO's, system surcharging, and service backups are under investigation, as part of the AOC, but from ongoing inspection, maintenance, and repair activities prior to and outside the scope of this grant, the City has identified the main causes of these incidents as:

- Malfunctioning or non-functional lift stations, sewer failures, and associated bypass pumping operations
  
- Infiltration and Inflow (I/I) sources into the sanitary sewer system, such as
  - o surface water flooding from adjacent area runoff,
  - o poorly graded and overgrown ditches and culverts,
  
  - o abandoned houses and properties, and associated broken drains, cleanouts, etc.
  - o illegal sewer tap ins from yard drains, downspouts, etc.
  - o seasonal high groundwater levels infiltrating clean water into old leaking pipes and structures
  
- Backups and surcharging of the system from downstream sewer issues in the adjacent City of East St. Louis system to the north

The city sewer system contains 69 lift stations in total, with approximately 59 of those needing some form of repair, rehab, or replacement. This IEPA grant will fund work to repair approximately 35 of those lift stations, with the priorities of where to apply the grant funds following the protocols outlined above. Additional state and federal funds have been applied for and scheduled to come through in 2023 and beyond to address the funding shortfall.

There are at present 23 known sewer failures in the City system. This grant will take care of repair and restoration work at approximately all of these locations. In addition, as part of these sewer repair projects, cleaning, televising, and CIPP of adjacent sewers will be accomplished after the repairs are made, to approximately 5,800 LF of sewer line.

The final part of the construction activity funded by this grant will be the cleaning, televising, and CIPP lining of approximately 3,500 LF of the main trunkline of the sewer system. The trunkline is the main pipeline carrying sewer flows through the City and down to the southern tip of the City, from where it is then pumped north into the American Bottoms Regional Wastewater Treatment Plant, in adjacent Sauget, IL. Along the way, the trunkline collects all the tributary sewer flows from neighborhoods and businesses throughout the City. As such, the trunkline must be deep enough and large enough to collect all these tributary flows. It is therefore a very important component of the City sewer system, and one that, because of its size, depth, amount of flow, and location along main streets and highways, is the most problematic and expensive to repair, should failures occur along its length.

Completing CIPP work to this trunkline will help prevent future failure incidents, and will also act as a preventative measure against infiltration of groundwater into the system, from the deep elevations at which the trunkline exists.

The trunkline runs for a total of about 41,000 LF from end to end through the City. See Appendix A for a Location Map and coordinates of the work. As mentioned above, this grant will fund the CIPP work to line approximately 3,500 LF of it. The remainder will be funded through various state and federal sources, including the US Army Corps of Engineers (USACE) project which will fund approximately 14,000 LF of the line adjacent to this grant project. See the Location Map in Appendix A for these locations.

The only part of the system issues not to be addressed by this grant are the backups and surcharges associated with downstream issues in the City of East St. Louis sewer system. These issues will be addressed by the construction of an interceptor sewer to intercept lines currently flowing into East St. Louis from the northern part of the City of Cahokia Heights and redirect those flows southward into the newly restored main trunkline flowing south. This interceptor sewer will be funded by other state and federal sources outside the scope of this grant.

#### **CONSTRUCTION ACTIVITIES, PROCUREMENT PROCEDURES, AND OTHER STATUTORY COMPLIANCE**

All contracted services, construction, and equipment purchased with funds provided under the grant will conform and comply with all applicable local, state, and federal laws and regulations, including, but not necessarily limited to, the following, which are all listed in the grant terms as requirements of the City to properly receive and manage the funds under the grant. As such, the City's Finance Department will oversee and be responsible for compliance with these terms throughout the grant period. In addition, the Contractor will be subject to any of these specific terms applicable to their work and control, as well as the standard terms contained in the Instructions for Bidders, and the Construction Agreement, examples of which are included as Appendix E:

- Illinois Works Jobs Program Act, Illinois Works Apprenticeship Initiative, 30 ILCS 559/20-25
- Internal Revenue Code - 26 USC 1
- Illinois Income Tax Act - 35 ILCS 5
- Federal Funding Accountability and Transparency Act of 2006 (P.L. 109-282)

- Uniform Administrative Requirements, Cost Principles, and Audit Requirements, 2 CFR Part 200
- 44 Ill. Admin. Code 7000.40(c)(1)(A)
- 44 Ill. Admin. Code 7000.30
- Illinois State Collection Act of 1986. 30 ILCS 210; 44 Ill. Admin. Code 7000.450(c)
- 44 Ill. Admin. Code 7000.440(b)(2)
- Cash Management Improvement Act of 1990, 31 USC 6501; 2 CFR 200.305; Ill. Admin. Code 7000.120
- Modifications - 2 CFR 200.308
- Interest - 2 CFR 200.305(b)(8), (9)
- Certification - 2 CFR 200.415
- Indirect Costs - 44 Ill. Admin. Code 7000.420(e)
- Accounting - 2 CFR 200.305(b)(7)(i) and 30 ILCS 708/520; 2 CFR 200.302
- Internal Control - 2 CFR 200.303
- Cash Management - 2 CFR 200.305
- Profit - 2 CFR 200.400(g); 30 ILCS 708/60(a)(7)
- Bribery - 30 ILCS 500/50-5
- Bid Rigging - Criminal Code of 1961; 72- ILCS 5/33E-3, or 30 ILCS 5/33E-4
- Debt to State - 30 ILCS 500/50-11
- International Boycott - U.S. Export Administration Act of 1979, or U.S. Dept. of Commerce Act 15 CFR Parts 730-774
- Dues and Fees - 775 ILCS 25/1
- Pro-Children Act- 20 USC 7181-7184
- Drug Free Work Place - 30 ILCS 580/3
- Motor Voter Law - 52 USC 20501
- Clean Air Act -42 USC 7401
- Clean Water Act - 33 USC 1251
- Debarment - 2 CFR 200.205(a); 30 ILCS 708/25(6)(G)
- Non-Procurement Debarment and Suspension - 2 CFR Part 180 and Part 376, Subpart C
- Prevailing Wage Act - 820 ILCS 130/0.01
- Health Insurance Portability and Accountability Act- Public Law No. 104-191, 45 CFR Parts 160, 162, 164; Social Security Act 42 USC 1320d-2 through 1320d-7
- Criminal Convictions - 30 ILCS 500/50-10.5
- Forced Labor Act - 30 ILCS 583
- Illinois Use Tax- 30 ILCS 500/50-12
- Environmental Protection Act - 30 ILCS 500/50-14

- Child Labor Act - 30 ILCS 584
- Illinois Human Rights Act- 775 ILCS 5/1-101
- Public Works Employment Discrimination Act - 775 ILCS 10/1
- U.S. Civil Rights Act of 1964 - 42 USC 2000a-2000h-6
- Section 504 of the Rehabilitation Act of 1973 - 29 USC 794
- Americans with Disabilities Act of 1990- 42 USC 12101
- Age Discrimination Act - 42 USC 6101
- Lobbying- 31 USC 1352; 2 CFR 200.450; Executive Order No. 1 (2007) (EO 1-2007); 2 CFR 200, 31 USC 1352
  
- Records - 2 CFR 200.334, 44 Ill Admin. Code 7000.430(a)(b); 2 CFR 200.337; 2 CFR 200 329;200.332
- Financial Reporting - 2 CFR 200.208; 30 ILCS 708.125; 2 CFR 200.344; 44 Ill. Admin. Code 7000.440(b)
- Performance Reporting - 2 CFR 200.208; 2 CFR 200.344; Ill. Admin. Code 7000.440(b)(1); 2 CFR 200.329(b) (c); 2 CFR 200.301; 200.210
- Audit - Single Audit Act of 1996 31 YSC 7501-7507; 2 CFR Part 200 Subpart F; 30 ILCS 708/65(c); 44 Ill. Admin. Code 7000.90; 2 CFR 200.501; 44 ILL. Admin. Code 7000.90(h)(2)and GATA Manual
- Equipment Purchases- 2 CFR 200.439; 2 CFR 200.310-316; 2 CFR 200.317-326
- Domestic Preference - 2 CFR 200.322
- Insurance - 2 CFR 200.310
- Gift Ban - State Officials and Employees Ethics Act 5 ILCS 430/10-10 and Executive Order 15-09

An example of typical Standard Specifications front-end documents that would be utilized for bidding and award for the construction work under the grant are included as Appendix D. These specifications will be the same front-end documents regardless of the type of project (lift station, sewer repair, or CIPP). The difference would be in the detailed specifications for the specific type of construction material and method. The specs can be modified as needed to incorporate any grant term-specific requirements or statements that may be required by IEPA review.

Specifications for equipment purchases would be developed from supplier sources and industry standards and subject to competitive bidding.

## **PRE-CONSTRUCTION ACTIVITIES IMPLEMENTATION**

Project design and engineering activities will be conducted in accordance with common industry standards, including the Standard Specifications for Water and Sewer Main Construction in Illinois, July 2009, Sixth Edition and the Standard Specifications for Road and Bridge Construction, adopted January 1, 2022.

The Standard Specifications for Water and Sewer Main Construction in Illinois are those prepared by the Standard Specifications Committee and distributed by the Illinois Society of Professional Engineers. The Standard Specifications for Road and Bridge Construction are those prepared by the Department of Transportation of the State of Illinois.

In addition to the above standard specifications, additional design input will come from Hurst-Rosche's historical and local knowledge of prior repairs from involvement in similar local work for over 50 years, including project specifics such as groundwater conditions and dewatering solutions, seasonal impacts, equipment specifications, suppliers and lead times for key equipment, and other pertinent factors.

Also, design efforts will include analysis of upstream and downstream impacts of work on a particular location, including flow rates and care of flow, surcharging avoidance, cleaning and televising of adjacent sewer reaches, and CIPP lining of adjacent reaches as necessary. The majority of these potentially complicating factors are anticipated in the design to occur with any of the proposed repairs, and are included in the project plans and specifications as either pay items or incidental to construction by the contractor. For example, all point repairs of sewer reaches include cleaning, televising, and lining adjacent reaches of sewer back to the upstream and downstream manholes. And all sewer or pump stations repairs include care of flow as a pay item. See Appendix B – Scope of Work for more information.

All project plans and specifications undergo an internal QA/QC review by Hurst-Rosche, Inc., as well as an independent review by the IEPA (as necessary), and the City of Cahokia Heights, prior to being issued for bid. Should questions arise regarding the designs of the projects prior to issuance for construction, the IEPA should contact Thompson Civil, LLC, the QA.QC consultant for the City, and the main contact point for the grant administration. Questions regarding plans and specifications issued for bids by any bidders will be answered by Hurst-Rosche, Inc. as part of the normal bid and Request for Information (RFI) process.

IEPA Construction and Operating Permit applications will be prepared by Hurst-Rosche, Inc. and submitted to the IEPA Permit Section, Division of Water Pollution Control for the construction of new sewers, new sewage lift stations, and the modification of existing sewage lift stations. Construction and Operating Permits are typically issued by the IEPA within 90 days of submission.

Prior to construction on a particular section or location, the City and Hurst-Rosche will:

- Confer and agree at least once monthly and/or more often as needed (for emergency situations such as new failures, SSO's etc.) on latest priorities for construction projects within the grant envelope. These meetings will take place via phone, email, or in person at either the Hurst-Rosche local offices in East St. Louis or at City Hall in Cahokia Heights, and include representatives from Hurst-Rosche, and the City (and its project consultant, Thompson Civil, LLC).
- Send an updated list of these locations to the IEPA for concurrence and approval at least monthly.
- Once IEPA approves, construction activity will commence and/or continue.

Project signage will be developed and managed according to the following:

A general project sign detailing the project name, brief description, objective, funding source, and project contact information will be erected by the City prior to commencement on any construction work at the main intersection of the two main state highways, IL Rt 157 and IL Rt 3, adjacent to the City's existing welcome sign. A draft of this sign will be submitted for approval to the IEPA prior to fabrication and erection, per the following schedule:

- Draft sign submittal to IEPA                      April 2023
- General Sign Installation                          upon IEPA approval

Smaller signs indicating construction at specific locations within the project will be erected by the contractor prior to work in those areas, indicating locations, projected dates of work, project contact and contractor information. The details of these work location signs and any other promotional information will be detailed in the plans and specifications for bidders, and also coordinated with and included in the Outreach Program for the project. The anticipated schedule of these work location signage activities is below:



- Individual Work Location Signs

Part of construction contracts, sign erected prior to commencement of field work

Project details, including locations, identifiers, project numbers, etc., will be submitted on the Construction Activities Documentation Forms – Part 1, for approval to Illinois EPA, with the design work as detailed in Item 3 of Exhibit E of the grant agreement to take the project(s) to bidding. This design work would be funded, in part, by the up-front payment request from the grant, including securing any necessary IEPA permits for the work. Included in the bid phase would be Hurst-Rosche conducting a pre-bid conference and, as bids are received, the results will be submitted, along with a bid tabulation and recommendation by Hurst-Rosche to IEPA for approval of award.

Once award is made to the successful bidding contractor, Hurst-Rosche will perform Construction Administration services, including:

- Review contract submittals, such as insurance certificates, subcontractor lists, schedules, and other similar materials, for compliance with procurement specs
- Conduct a pre-construction conference with the Contractor and owner (the City and its project consultant, Thompson Civil, LLC) to review the project work scope, execution requirements, (such as technical submittals, schedule, material deliveries, etc.), payment documents and procedures, contract closeout requirements
- Participate in the community outreach meetings in association with the outreach consultant, Baxton & Associates, to inform the public about the details of the project
- Stake right of way and control points prior to start of construction
- Stake the location of the individual work location project sign, for erection by the contractor prior to the start of work
- Provide daily observation of construction activity, and administration of said activity, including weekly progress reports to the City and IEPA
- Attend weekly and monthly progress meetings with the Contractor and City to review work progress, submittals, etc.
- Review shop drawings submitted by the Contractor
- Prepare change orders, if necessary, for approval by IEPA and issuance by the City
- Inspect materials and review material certifications furnished by the Contractor.

- Maintain progress and other project records, and review and recommend monthly pay request and final pay request due the Contractor. Review final submittals, including lien waivers, as-builts, warranties, etc.
- Conduct project closeout and submittals of any needed documentation to IEPA (such as the IEPA Construction Activities Documentation Form – Part 2, as-built plans, final pay requests, warranties, Owner's manuals, etc.)

**POTENTIAL CHANGES IN SCOPE**

During construction activities it is not uncommon to encounter unforeseen conditions that may result in the need for a contract change order. Should these conditions alter the scope of work to include other or additional areas of work, those areas will be selected using the same priorities and ranking as those listed above.

A typical example of this would be to encounter, during excavation, sewer pipe conditions needing repair that extend beyond the length of what was estimated in the bid.

Per the standard construction contract agreement, the Owner may at any time, as the need arises, order changes in the scope of work without invalidating the agreement. (See Appendix D for an example of a standard construction agreement). If such changes increase or decrease the amount due under the contract documents, or in the time required for performance of the work, an equitable adjustment will be authorized by change order. All change orders require approval of the Engineer, the Contractor, and the City of Cahokia Heights. In addition, changes to the scope of the project that would result in added areas of work or locations not in the original grant would also require the approval of the IEPA prior to executing the changes in the field. The time frame to process a fully executed change order is approximately 1 to 2 weeks as detailed below.

Description	Duration (Days)								
	1	2	3	4	5	6	7	8	9
Identify Need for Change in Scope	■								
Obtain Cost & Schedule Information		■	■						
Prepare Change Order				■					
Obtain Change Order Approvals/Signatures					■	■	■	■	
Issue Change Order									■

Of course, no changes to the stated scope of work in this grant would be implemented without prior approval from the IEPA. The approval process for changes in scope would involve:

- For a change order to a project under construction
  - o submittal of a change order request by the Contractor
  - o review of request and recommendation for approval (or denial) by Hurst-Rosche to City
  - o approval (or denial) of change order request by City
  - o issuance of change order to contractor upon approval
  
- For a change of scope of the grant (such as new location, new technology, or other major change to the grant scope)
  - o update the Construction Activities Strategy and submit to the IEPA for approval of a change in the grant scope
  - o submittal of change request and justification by Hurst-Rosche and City to IEPA
  - o review of request and decision by IEPA
  - o communication of change in grant scope to community via outreach program at the next outreach meeting held

All changes in scope will be reviewed on an individual basis, and the City and Hurst-Rosche will work cooperatively to minimize interruptions in the contracted work flow. Changes approved by Change Order affecting the contract price or contract time will be tracked monthly on the project Pay Applications submitted by the contractor, reviewed and recommended by Hurst-Rosche, and approved by the City and IEPA. Work within the awarded contract scope can normally continue while portions of the work involving the potential change are considered and approved or disapproved. An example of this would be an underground utility conflict with a portion of sewer line or a pump station to be replaced that wasn't known prior to the project. Work on other parts of the sewer line or pump station, such as other reaches, manholes, control panels, or other installation items could continue while the utility conflict was resolved. The contractor is responsible for determining means, methods, and sequences to complete the work per the plans and specifications. Should it be necessary to pause or halt contract work while in progress due to changed or unforeseen conditions, any associated cost or schedule impacts (such as demobilization and remobilization, overhead, etc.) would be included in the change order costs.

## **UP-FRONT PAYMENT REQUEST**

The up-front payment, as allowable in the grant agreement, will be used to advance and fund the activities under 1) the Outreach Program Strategies, 2) the Construction Activity Strategies, outlined in Items 2 and 3 of Exhibit E of the grant agreement, 3) the local share of the grant from the Corps of Engineers for CIPP lining of the main trunkline, as well as 4) to fund the purchase of important sewer collection and transport system operations and investigative equipment for the City. Under these categories of activity, the initial activities at the beginning of the project will be designated for funding through the up-front payment, as detailed below, and as shown on the attached payment schedule included as Appendix G.

### **Up-front Payment for Outreach Program Strategy**

It will be acknowledged as part of the Outreach Program Strategy that the project will not necessarily fully eliminate SSO's. Payments requested for the Outreach Program would include payment for up to 50% of the cost for activities under the grant and program strategy with Baxton & Associates, to perform the initial activities as part of Outreach Program, including:

- Develop and publish a website devoted to the project
- Assemble an outreach team
- Utilize various communication tools to interface with community members
- Schedule and conduct quarterly meetings with the community
- Publish notices of important activities in local newspapers, on the City's project web page, and in community fliers
- Update the Program Strategy as indicated by community feedback, and with IEPA approval

## Up-front Payment for Construction Activities Strategy

These would include:

- Consultant Costs for up to 50% of the total project costs for engineering for design, contract administration, and construction services for the construction work, including:
  - Design of approx. 30% of pump station rehab/replacement (approx. 11 locations)
  - Design of approx. 30% of sewer repair locations (approx. 7 locations, approx. 450 LF)
  - Design of CIPP lining of trunkline {1 continuous location – approx. starting and ending point as shown on Location Map included in Appendix A - approx. 3,500 LF total)
  - Contract Admin and Construction Services for construction at locations below
  
- Local share (25%) of federal grant from USACE for CIPP lining of Main Trunkline
  
- Construction Costs including:
  - Piat Place Pump Stations and Sewer Break
    - Beachland Place Pump Station Rehab
    - 63rd and Laura Ave Pump Station Rehab
    - 327 N 63rd St. Sewer Break
  - DePaul Gardens Pump Stations
    - 305 St. John Drive (DePaul)

See Appendix C for more information on construction costs.

### Up-front Payment for Equipment Purchases

- Flygt 6" Portable Suction Trash Pump (2) or equal
- Trojan C1000 Sewer Inspection Camera System or equal

The portable trash pump will be used by the City for bypass operations of failed lift stations or sewer breaks as needed.

The sewer inspection camera system will be used by the City as an investigative measure to determine the condition of sewer lines on an ongoing operation and maintenance basis, As required by the USEPA consent order.

Note that the equipment purchases to be made by the City under the grant will be used as described to assist with operation and maintenance of the sewer system. The City does not intend to perform any construction work associated with the IEPA grant using their own forces. This work is intended to be 100% contracted out.

### APPENDICES

A - Location Map of Projects

B - Scope of Work for Projects

C - Cost Estimates

D - Typical Bid and Contract Award Specifications (Front End Documents)

E - Risk Plan

F - Assumption Log

G - Up Front Payment Request Plan

H - Overall Project Schedule

CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT – 21WWCTIRR01

**APPENDIX A**

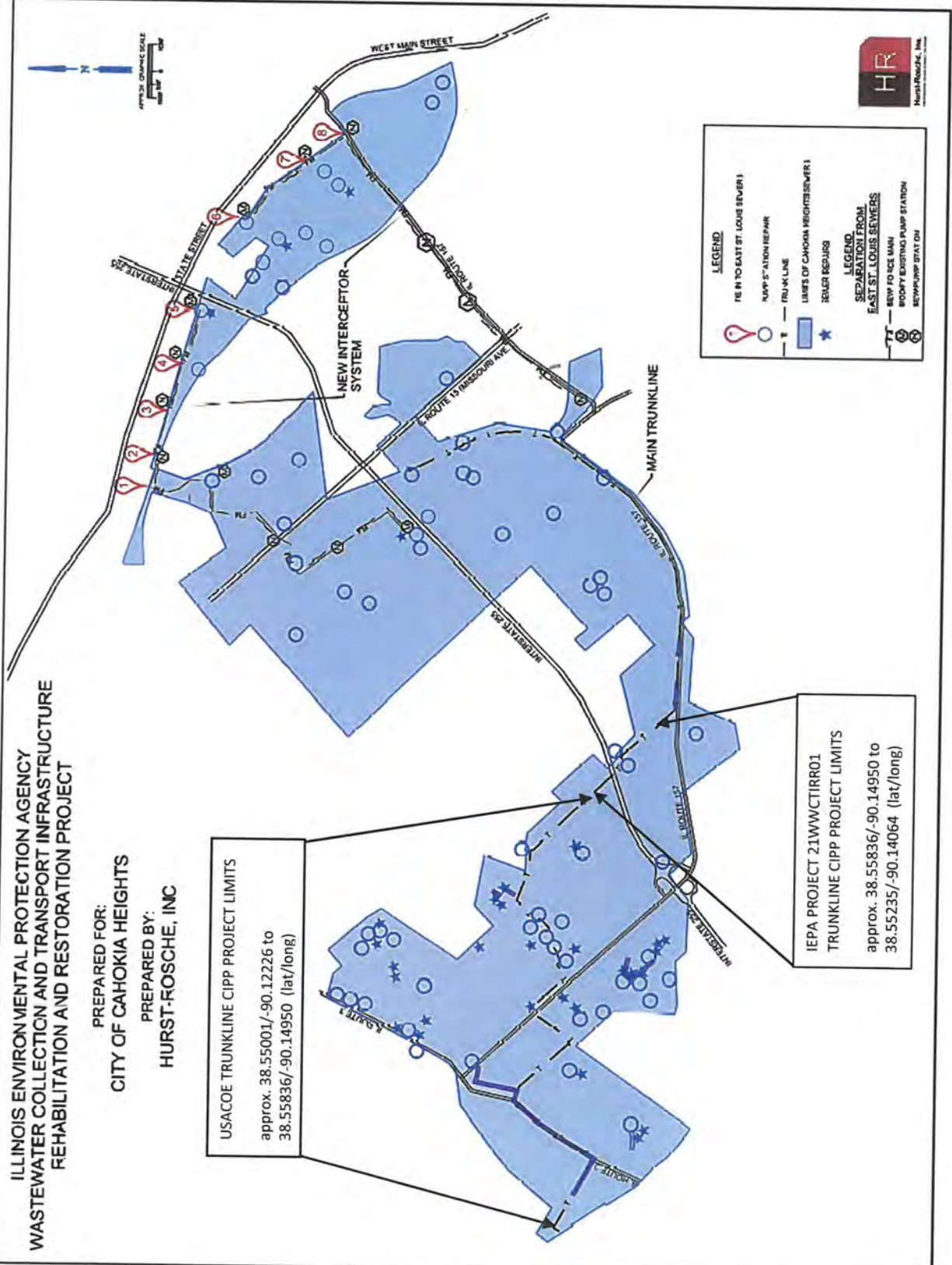
LOCATION MAP

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
 WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
 REHABILITATION AND RESTORATION PROJECT

PREPARED FOR:  
 CITY OF CAHOKIA HEIGHTS  
 PREPARED BY:  
 HURST-ROSCHKE, INC

USACOE TRUNKLINE CIPP PROJECT LIMITS  
 approx. 38.55001/-90.12226 to  
 38.55836/-90.14950 (lat/long)

IEPA PROJECT 21WVCTIR01  
 TRUNKLINE CIPP PROJECT LIMITS  
 approx. 38.55836/-90.14950 to  
 38.55235/-90.14064 (lat/long)





CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT – 21WWCTIRR01

**APPENDIX B**

SCOPE OF WORK

CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT

**SCOPE OF WORK FOR PROJECTS**

Note that all of the work described in the following scope is anticipated to be completed under construction contracts awarded to successful bidders. The City of Cahokia Heights will act as the Owner under these contracts. The City will also perform normal operations and maintenance activities while the repair and rehab work as part of this grant is occurring.

**PUMP/LIFT STATIONS REPAIR AND REHABILITATION PROJECTS:**

The pump/lift station work can be grouped into the following categories of work, depending on the condition of the existing station:

- Minor Rehab (guide rails, float switches, control panel repairs, etc.)
- Partial Rehab (pump, control panel, guide rails, float switches, electrical, etc.)
- Full Rehab (pumps, control panel, valves, guide rails, float switches, electrical, etc.)
- Major Rehab (wetwell, valve vault, pumps, control panel, valves, electrical, fencing, etc.)
- Extensive Rehab (wetwells, valve vaults, pumps, control panels, valves, electrical, force main, etc.)

Within the above categories, the following work items can be expected to be required in some form, depending on the location and category of rehab:

- Mobilization
- Traffic Control & Protection
- Care-of-Flow
- Clearing
- Install Dewatering Wells
- Trench Backfill
- Clean & Televis Existing 8" Sewer
- Clean & Televis New 8" Sewer
- Clean & Televis Existing 10" Sewer
- Clean & Televis New 10" Sewer
- Install 8" CIPP Liner
- Install 10" CIPP Liner
- Clean Interior of Wet Well
- Install New Valve Vault
- Install New Pumps
- Install New Guide Rails
- Install New Piping
- Install New Valves

- Install New Control Panel
- Install New Level Sensors
- Install New Electrical Service
- Install New Fencing
- Other

#### SEWER REPAIR PROJECTS:

These sewer repair projects are fairly consistent from location to location in terms of scope, and can be expected to include the following work items:

- Mobilization
- Traffic Control & Protection
- Clearing
- Dewatering
- Care-of-Flow
- Remove & Replace Manholes
- Remove & Replace 8" Sanitary Sewer
- Remove & Replace 10" Sanitary Sewer
- Connect to Existing Sewer
- Re-establish Service Connections
- Trench Backfill
- Clean & Televis Existing 8" Sewer
- Clean & Televis New 8" Sewer
- Clean & Televis Existing 10" Sewer
- Clean & Televis New 10" Sewer
- Install 8" CIPP Liner
- Install 10" CIPP Liner
- Concrete Curb & Gutter
- Concrete Driveway
- HMA Pavement
- Concrete Sidewalk
- Fencing
- Seed & Mulch
- Other

#### TRUNKLINE CIPP PROJECT:

- The trunkline project can be expected to consist of the following work items:
- Mobilization
- Traffic Control & Protection
- Care-of-Flow
- Clean & Televis Existing 18" Sewer
- Clean & Televis New 18" Sewer
- Clean & Televis Existing 21" Sewer
- Clean & Televis New 21" Sewer
- Clean & Televis Existing 24" Sewer
- Clean & Televis New 24" Sewer
- Install 18" CIPP Liner
- Install 21" CIPP Liner
- Install 24" CIPP Liner

CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT – 21WWCTIRR01

**APPENDIX C**

COST ESTIMATES

City of Cahokia Heights  
Illinois Environmental Protection Agency  
Wastewater Collection and Transport Infrastructure Rehabilitation and Restoration Project  
21WWCTIRR01

Cost Summary

Description	Total
Sewer Repairs	\$ 1,755,090.00
Pump Station Rehabilitations	\$ 5,018,265.00
Cured-In-Place Pipe (CIPP) Liner	\$ 422,395.00
Local Share of USACOE CIPP Trunkline Project	\$ 1,167,750.00
Engineering Cost	\$ 1,254,525.00
Operation & Maintenance Equipment	\$ 250,000.00
Community Outreach Program	\$ 112,725.67
<b>TOTAL GRANT AMOUNT \$ 9,980,750.67</b>	

NOTES:

- i. CIPP refers to "Cured In Place Pipe", aka "sliplining" or "trenchless pipelining"
- ii. For breakdown of total costs and unit prices, see Detailed Cost Estimate sheets

<b>JECT</b>	Illinois Environmental Protection Agency	03/03/23
	Wastewater Collection and Transport Infrastructure	
	Rehabilitation and Restoration Project - 21WWCTIRR01	
<b>NT</b>	City of Cahokia Heights	
	Sewer Line Repairs	
<b>ATION</b>	as listed	

Sewer Repairs	Total
<b>REDACTED</b>	\$ 56,900.00
<b>REDACTED</b> (Rear Easement)	\$ 60,100.00
<b>REDACTED</b>	\$ 80,700.00
<b>REDACTED</b>	\$ 51,400.00
<b>REDACTED</b>	\$ 42,000.00
<b>REDACTED</b>	\$ 107,800.00
<b>REDACTED</b> (Side Easement)	\$ 56,500.00
<b>REDACTED</b>	\$ 81,400.00
<b>REDACTED</b>	\$ 59,300.00
St. Henry Drive @ St. Margaret Drive	\$ 60,500.00
<b>REDACTED</b>	\$ 61,400.00
<b>REDACTED</b>	\$ 121,400.00
3807 Mississippi Avenue	\$ 56,600.00
Cooper Drive Wetwell	\$ 64,400.00
<b>REDACTED</b>	\$ 61,800.00
<b>REDACTED</b>	\$ 61,800.00
<b>REDACTED</b>	\$ 55,500.00
<b>REDACTED</b>	\$ 140,900.00
<b>REDACTED</b>	\$ 92,200.00
<b>REDACTED</b>	\$ 54,900.00
<b>REDACTED</b>	\$ 40,000.00
<b>REDACTED</b>	\$ 48,100.00
Howell Avenue & Ellen Street <b>REDACTED</b>	\$ 79,900.00

SUBTOTAL OPINION OF PROBABLE CONSTRUCTION COST: \$ 1,595,500.00

CONTINGENCY (10%) \$ 159,590.00

TOTAL OPINION OF PROBABLE CONSTRUCTION COST: \$ 1,755,090.00

<b>PROJECT</b>	Illinois Environmental Protection Agency	03/03/23
	Wastewater Collection and Transport Infrastructure	
	Rehabilitation and Restoration Project - 21WWCTIRR01	
<b>CLIENT</b>	City of Cahokia Heights	
	Pump Station Rehabs	
<b>LOCATION</b>	various as listed	

No.	Pump Station Rehabilitations	Total	Type
1	Market Avenue Pump Station Rehabilitation (No. A-6)	\$ 100,000.00	3
2	43rd & Tudor Pump Station Rehabilitation (No. A-8)	\$ 100,000.00	3
3	56th & Russell Pump Station Rehabilitation (No. A-9)	\$ 100,000.00	3
4	100 Block of Judith Lane Pump Station Rehabilitation (No. C-1)	\$ 65,000.00	2
5	215 Judith Lane Pump Station Rehabilitation (No. C-2)	\$ 100,000.00	3
6	Bruce Street Pump Station Rehabilitation (No. C-4)	\$ 100,000.00	3
7	Carol Road Pump Station Rehabilitation (No. C-5)	\$ 75,000.00	2
8	Cooper Drive Pump Station Rehabilitation (No. C-6)	\$ 100,000.00	3
9	Credit Union Pump Station Rehabilitation (No. C-7)	\$ 100,000.00	3
10	DePaul Pump Station Rehabilitation (No. C-8)	\$ 150,000.00	4
11	Donald Street Pump Station Rehabilitation (No. C-9)	\$ 60,000.00	2
12	Edgar Street Pump Station Rehabilitation (No. C-10)	\$ 57,000.00	2
13	Ellen & Richard Pump Station Rehabilitation (No. C-11)	\$ 100,000.00	3
14	Hutchins Street Pump Station Rehabilitation (No. C-12)	\$ 100,000.00	3
15	La Salle Drive Pump Station Rehabilitation (No. C-14)	\$ 100,000.00	3
16	Shack Pump Station Rehabilitation (No. C-19)	\$ 100,000.00	3
17	Singer Pump Station Rehabilitation (No. C-20)	\$ 100,000.00	3
18	St. Christopher & Andrews Pump Station Rehabilitation (No. C-21)	\$ 60,000.00	2
19	St. Margaret Drive Pump Station Rehabilitation (No. C-22)	\$ 50,000.00	2
20	St. Monica Pump Station Rehabilitation (No. C-23)	\$ 150,000.00	4
21	State Lottery Pump Station Rehabilitation (No. C-24)	\$ 100,000.00	3
22	Williams & Ellen Pump Station Rehabilitation (No. C-31)	\$ 100,000.00	3
23	51st & Market Pump Station Rehabilitation (No. F-2)	\$ 145,000.00	4
24	63rd & Laura Pump Station Rehabilitation (No. F-4)	\$ 140,000.00	4
25	71st & Ames Pump Station Rehabilitation (No. F-5)	\$ 150,000.00	4
26	73rd & Oakland Pump Station Rehabilitation (No. F-6)	\$ 150,000.00	4
27	73rd Street Pump Station Rehabilitation (No. F-7)	\$ 145,000.00	4
28	75th & Clinton Pump Station Rehabilitation (No. F-8)	\$ 145,000.00	4
29	75th & Pershing Pump Station Rehabilitation (No. F-9)	\$ 145,000.00	4
30	Beachland Pump Station Rehabilitation (No. F-12)	\$ 140,000.00	4
31	Bridgedale Pump Station Rehabilitation (No. F-14)	\$ 145,000.00	4
32	Lake Drive Pill Box Pump Station Rehabilitation (No. F-21)	\$ 150,000.00	4
33	Lauralee & Violet Pump Station Rehabilitation (No. F-22) **	\$ 840,000.00	5
34	Superior Pump Station Rehabilitation (No. F-26)	\$ 100,000.00	3
35	Willie Holmes Pill Box Pump Station Rehabilitation (No. F-27)	\$ 100,000.00	3
	<b>SUBTOTAL OPINION OF PROBABLE CONSTRUCTION COST:</b>	<b>\$ 4,562,000.00</b>	
		<b>CONTINGENCY (10%)</b>	<b>\$ 456,265.00</b>
	<b>TOTAL OPINION OF PROBABLE CONSTRUCTION COST:</b>	<b>\$ 5,018,265.00</b>	

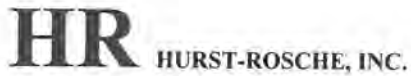
\*\* Includes a new pump station & force main on Renois Lane (see attached detailed cost estimate)

Rehab Type:

- 1 Minor Rehab (guide rails, float switches, control panel repairs, etc.)
- 2 Partial Rehab (pump, control panel, guide rails, float switches, electrical, etc.)
- 3 Full Rehab (pumps, control panel, valves, guide rails, float switches, electrical, etc.)
- 4 Major Rehab (wetwell, valve vault, pumps, control panel, valves, electrical, fencing, etc.)
- 5 Extensive Rehab (wetwells, valve vaults, pumps, control panels, valves, electrical, force main, etc.)

NOTE:

Other than details stated above, no "standard" unit pricing can be applied to the pump station rehab work due to the large variation on scope and detail of the projected repairs



<b>PROJECT</b>	Illinois Environmental Protection Agency	03/01/23
	Wastewater Collection and Transport Infrastructure	
	Rehabilitation and Restoration Project - 21WWCTIRR01	
<b>CLIENT</b>	City of Cahokia Heights	
	Cured-In-Place Pipe (CIPP) Liner	
<b>LOCATION</b>	Main Trunk Line - Jerome Lane to Cynthia Drive	
	(approx. 38.55836/-90.14950 to 38.55235/-90.14064)	

**OPINION OF PROBABLE CONSTRUCTION COST**

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
<b>GENERAL WORK</b>					
1	Mobilization	1	LS	\$ 10,000.00	\$ 10,000.00
2	Traffic Control & Protection	1	LS	\$ 5,000.00	\$ 5,000.00
3	Clearing	0	LS	\$ 1,500.00	\$ -
4	Dewatering	0	EA	\$ 10,000.00	\$ -
5	Care-of-Flow	1	LS	\$ 20,825.00	\$ 20,825.00
6	Remove & Replace Manholes	0	EA	\$ 3,000.00	\$ -
7	Remove & Replace 8" Sanitary Sewer	0	LF	\$ 250.00	\$ -
8	Remove & Replace 10" Sanitary Sewer	0	LF	\$ 300.00	\$ -
9	Connect to Existing Sewer	0	EA	\$ 500.00	\$ -
10	Re-establish Service Connections	0	EA	\$ 750.00	\$ -
11	Trench Backfill	0	CY	\$ 35.00	\$ -
15	Clean & Televis Existing 18" Sewer	900	LF	\$ 25.00	\$ 22,500.00
16	Clean & Televis Existing 21" Sewer	1,150	LF	\$ 27.50	\$ 31,625.00
12	Clean & Televis Existing 24" Sewer	1,450	LF	\$ 30.00	\$ 43,500.00
13	Clean & Televis New 24" Sewer	0	LF	\$ 25.00	\$ -
14	Clean & Televis Existing 30" Sewer	0	LF	\$ 32.50	\$ -
15	Clean & Televis New 30" Sewer	0	LF	\$ 27.50	\$ -
20	Install 18" CIPP Liner	900	LF	\$ 60.00	\$ 54,000.00
21	Install 21" CIPP Liner	1,150	LF	\$ 70.00	\$ 80,500.00
16	Install 24" CIPP Liner	1,450	LF	\$ 80.00	\$ 116,000.00
17	Install 30" CIPP Liner	0	LF	\$ 90.00	\$ -
18	Concrete Curb & Gutter	0	LF	\$ 75.00	\$ -
19	Concrete Driveway	0	SY	\$ 90.00	\$ -
20	HMA Pavement	0	SY	\$ 140.00	\$ -
21	Concrete Sidewalk	0	SF	\$ 12.00	\$ -
22	Fencing	0	LF	\$ 20.00	\$ -
23	Seed & Mulch	0	LS	\$ 500.00	\$ -
24	Other	0	LS	\$ -	\$ -
SUBTOTAL OPINION OF PROBABLE CONSTRUCTION COST:					\$ 383,950.00
CONTINGENCY (10%)					\$ 38,445.00
TOTAL OPINION OF PROBABLE CONSTRUCTION COST:					\$ 422,395.00



CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT– 21WWCTIRR01

**APPENDIX D**

TYPICAL PROJECT SPECIFICATIONS



HURST-ROSCHÉ, INC.

## **CONTRACT DOCUMENTS**

**and**

## **SPECIFICATIONS**

### **LIFT STATION REHABILITATION TWO LOCATIONS**

### **CAHOKIA HEIGHTS, IL**

**Prepared by**

**Hurst-Rosche, Inc.  
5 Bank Square  
East St. Louis, Illinois  
H-R 211-0741**

**June 2022**

**Bid Package No. \_\_\_\_\_**

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### **Detailed Specifications**

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11	<u>EQUIPMENT</u>		
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000001-08	Standard Symbols, Abbreviations and Patterns
280001-07	Temporary Erosion Control Systems
664001-02	Chain Link Fence
701301-04	Lane Closure, 2L, 2W, Short Time Operations
701501-06	Urban Lane Closure, 2L, 2W Undivided
701901-08	Traffic Control Devices

## ADVERTISEMENT FOR BIDS

Separate sealed BIDS for **Lift Station Rehabilitation, Two Locations, Cahokia Heights, IL**, will be received at the office of **Hurst-Rosche, Inc., 5 Bank Square, East St. Louis, IL 62203** until **10:00 A.M. on July 14, 2022**, and then publicly opened and read aloud.

The project consists of converting existing sewage eductor lift stations at 320 & 352 N. 82<sup>nd</sup> Street to submersible duplex lift stations, including removal and replacement of lift station pumps, control panels, valves, pressure gauges, guide bars, float switches, lift cables, disconnect switches, power and alarm cables, discharge pipe, wetwell lid, valve vault, and access hatches, together with restoration of all disturbed surfaces and all other incidental work required to complete the project. This is a Lump Sum Contract.

All work shall be constructed under the provisions of the **Standard Specifications for Road and Bridges Construction** prepared by the Department of Transportation of the State of Illinois, adopted January 1, 2022 and the **Standard Specifications for Water and Sewer Main Construction in Illinois**, July 2009, Sixth Edition. The only exception to these standards, are all references to measurement and payment.

Plans and proposal forms may be obtained from Hurst-Rosche, Inc., 5 Bank Square, East St. Louis, IL 62203 (618/398-0890). The plan deposit is \$30.00 each (\$45.00 if mailed) and is non-refundable. Drawings and specifications will be available for viewing on the internet at: [www.hurst-rosche.com](http://www.hurst-rosche.com). The documents are being provided for reference purposes only. At a minimum, bidders must obtain clean copies of bid forms by paying a non-refundable amount of \$10.00 to submit a bid for this project. All proposals must be accompanied by a bid bond or cashier's check for not less than five percent of the amount of the bid.

The CONTRACT DOCUMENTS may be examined at the following locations:

- a) Hurst-Rosche, Inc., 5 Bank Square, East St. Louis, IL 62203.
- b) Southern Illinois Builders Assn., 1468 Green Mount Rd., O'Fallon, IL 62269.

Bidders will be required to comply with the President's Executive Order No. 11246 as amended. The requirements for bidders and contractors under this order are explained in the specifications.

The OWNER reserves the right to waive technicalities or to reject any or all proposals.

Curtis McCall, Mayor

INSTRUCTIONS TO BIDDERS

LIFT STATIONS REHABILITATION  
TWO LOCATIONS  
CAHOKIA HEIGHTS, IL

HURST-ROSCHE, INC.  
NO. 5 BANK SQUARE  
EAST ST. LOUIS, ILLINOIS 62203

To be considered, all Bids must be in accordance with these Instructions to Bidders. Bidders must be listed on the official plan holders list to submit a responsive bid. Documents for Bidding can be reviewed at [www.hurst-rosche.com](http://www.hurst-rosche.com). Partial sets of bid documents will not be distributed. Plans and specifications can be obtained from the office of Hurst-Rosche, Inc. for a non-refundable deposit of \$30.00 (\$45.00 if mailed). At a minimum, bidders must obtain clean copies of bid forms by paying \$10.00 to submit a bid for this project.

Bidders shall carefully examine documents and construction site to obtain first-hand knowledge of existing conditions. Contractors will not be given extra payments for conditions which can be determined by examining site and these documents.

The schedule for bidding this project is as follows:

1.	<b>Plans Available:</b>	<u>June 17, 022</u>
2.	<b>Pre-Bid Meeting:</b>	<u>None</u>
3.	<b>Latest Time to Submit Request for Interpretation:</b>	<u>July 7, 2022</u>
4.	<b>Latest Time to Issue an Addendum:</b>	<u>July 11, 2022</u>
5.	<b>Bid Opening</b>	<u>July 14, 2022</u> <u>10:00 A.M.</u> <u>Hurst-Rosche, Inc.</u> <u>5 Bank Square</u> <u>East St. Louis, IL 62203</u>

All requests for interpretations shall be in writing via mail or e-mail to [tsudholt@hurst-rosche.com](mailto:tsudholt@hurst-rosche.com), and must be received seven (7) days prior to date fixed for opening of bids in order to be given consideration. All questions must be submitted on the "Request for Interpretation Pre-Bid Question and Comment Form" included at the end of this section, and questions not submitted in accordance with this form and specified time frame will not be accepted. Any and all interpretations and supplemental instructions will be made by addendum to the Drawings and Specifications and forwarded to all bidders either by certified mail or fax transmittal. All responses by the Owner or Architect/Engineer must be in writing to be binding. All bidders are required to return the signature page of the addendum signed to the Architect/Engineer within 24 hours after receipt. Failure of any bidder to receive any such addendum or interpretations shall not relieve such bidder from an obligation under the bid as submitted. All addenda so issued shall become part of the Contract Documents. No addendum will be issued later than three (3) days prior to bid date except one withdrawing the request for Bids or one postponing

date for receiving Bids. Oral interpretations, changes or corrections will not be binding and Bidders shall not rely upon such interpretations, changes and corrections. Each Bidder shall ascertain prior to submitting Bid that all addenda issued have been received and shall acknowledge receipt in Bid.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the BID Schedule by examination of the site and a review of the drawings and specifications including ADDENDA. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The OWNER shall provide to BIDDERS, prior to BIDDING, all information which is pertinent to, and delineates and describes, the land owned and rights of way acquired or to be acquired.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

Materials, products and equipment described in Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect/Engineer at least ten days prior to the date for receipt of Bids. Each such request shall include name of material or equipment for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or other work that incorporation of the substitute would require shall be included. The burden of proof of the merit of proposed substitute is upon the proposer. Architect/Engineer's decision of approval or disapproval of a proposed substitution shall be final. If the Architect/Engineer approves any proposed substitution prior to receipt of Bids, such approval will be set forth in an addendum. Bidders shall not rely upon approvals made in any other manner. No substitutions will be considered after the contract award unless specifically provided in the Contract Documents.

Each Bidder shall designate on the Bid Form one person who shall serve as the Bidder contact person for all matters pertaining to the bid. In absence of such designation, the person who signs the bid shall be deemed the Bidder Contact.

Bids shall be made on unaltered Bid Forms furnished by the Architect/Engineer. Fill in all blank spaces and submit one original (1) copy. Bids shall be signed with name typed below signature. Where bidder is a corporation, bids must be signed with legal name of corporation followed by name of state of incorporation and legal signature of an officer authorized to bind the corporation to a contract.

Each bid shall be accompanied by bid security made payable to the Owner, in the amount of five percent (5%) of the bid sum. Security shall be either, certified check, cashier's check, bank money order or bid bond issued by surety licensed to conduct business in the State of Illinois. Successful bidder's security will be retained until he has signed the contract and furnished required payment and performance bonds. Owner reserves the right to retain security of the next two (2) lowest bidders until the lowest bidder enters into contract or until thirty (30) days after bid opening, whichever is shorter. All other bid security will be returned as soon as practicable. If any bidder refuses to enter into a contract, Owner will retain bid security as liquidated damages, but not as a penalty.

All copies of the bid, bid security and any other documents required to be submitted with bid shall be enclosed in a sealed opaque envelope. Envelope shall be addressed to the Cahokia Heights, C/O Hurst-Rosche, Inc. 5 Bank Square, East St. Louis, Illinois 62203, and shall be identified with project name, bidder's name and address. Mailed bid envelopes shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof. Oral, telephonic or telegraphic Bids are invalid and will not receive consideration. Bids shall be deposited at the location designated in the Advertisement for Bids prior to time and date designated for opening, or any extension thereof made by addendum. Bidder shall assume full responsibility for timely delivery at location designated for receipt of Bids. Bids received after time and date for receipt of bids will be returned unopened.

A bid may not be modified, withdrawn or canceled during the thirty (30) days immediately following bid opening, and each bidder so agrees in submitting his Bid. Any bidder may withdraw, cancel or modify its bid, at any time prior to scheduled time for opening of bids, by letter or telegram actually received by Owner prior to bid time, or, with proper identification, by personally securing bid submitted; if by telegram, written confirmation over signature of bidder shall be mailed and postmarked on or before date and time of bid opening. Withdrawn bids may be resubmitted up to bid opening time provided that they are in full compliance with these Instructions to Bidders.

All costs associated with the preparation and submission of a bid is the sole responsibility of the bidder. These costs shall not be chargeable to the Owner by any successful or unsuccessful bidder. All bids become the property of the Owner and shall not be returned except in the case of a late submission.

Protest: Any bidder who submitted a bid and believes the bid was improperly rejected or that the bid selected by the Owner is not in the best interest of the Owner may submit a written notice of intent to protest the bid to the Owner within seven (7) days. The Owner shall consider all protests before execution of a contract. Each protest must specify the reasons supporting the protest. The Owner may require that addition information be provided. Failure to supply such required information shall be cause for dismissal of the protest.

The Owner shall immediately investigate the allegations against the Owners actions and shall issue a written response to the protest.

This provision allowing for the submission of protest shall not confer any right on any bidder but is intended solely to assist the Owner in determining the best responsible bid.

Owner reserves right to disqualify bids and bidders, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices upon part of bidder, lack of responsibility as evidenced by poor workmanship and progress of past work, incomplete work which in judgment of Owner might hinder or prevent prompt completion of additional work if awarded, for being in arrears on existing contracts, in litigation with the Owner, or having defaulted on a previous contract.

Bidder's attention is directed to the fact that all Federal and Illinois State Laws, municipal ordinances and regulations of any and all authority having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full. Successful Bidders shall be required to observe Illinois Public Act 77-1552 and the Illinois Department of Human Rights and Illinois Human Rights Commission Rules pertaining to Equal Employment Opportunity, as provided for

in Paragraphs 2-101, et seq., Article II, Chapter 68, of the Illinois Revised Statutes; Paragraph 271 of Chapter 48 of the Illinois Revised Statutes concerning the employment of citizens of the State of Illinois; and the Davis-Bacon Act known as the Prevailing Wage Act, as issued by the U.S. Department of Labor.

Owner is exempt from payment of Illinois Department of Revenue's Use and Sales Tax on material entering permanently into structure.

Owner reserves the right to reject any or all bids or any part thereof, to waive any informality in bidding and to accept bids deemed most favorable to the Owner.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the performance BOND and payment BOND within ten (10) calendar days from the date when NOTICE OF AWARD is delivered to the BIDDER. The NOTICE OF AWARD shall be accompanied by the necessary Agreement and BOND forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may at his option consider the BIDDER in default, in which case the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER within ten (10) days of receipt of acceptable performance BOND, payment BOND and Agreement signed by the party to whom the Agreement was awarded shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may by WRITTEN NOTICE withdraw his signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the OWNER.

Notwithstanding any delay in preparation and execution of the formal Contract Agreement, each bidder shall be prepared, upon written notice of bid acceptance, to commence work within seven (7) days following receipt of official written Notice to Proceed, or on date stipulated in such notice. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as he deems necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request.

A conditional or qualified BID will not be accepted.

Award will be made to the lowest responsible BIDDER for the Lump Sum Contract Amount.

Accepted bidder shall assist and cooperate with the Owner in preparing the formal Contract Agreement and, within fifteen (15) days following its presentation, shall execute same and return it to Owner.

Contract Time: Time of Substantial Completion for the project shall not be later than 120 consecutive calendar days from date stipulated in written Notice to Proceed.

The consulting engineer is Hurst-Rosche, Inc., 5 Bank Square, East St. Louis, Illinois, (618/398-0890).



H-R Project No.: 211-0741

Hurst-Rosche, Inc.:  
tsudholt@hurst-rosche.com

### REQUEST FOR INTERPRETATION PRE-BID QUESTION AND COMMENT FORM

(All information entered shall be typed in black).

PROJECT NAME: Lift Station Rehabilitation, Two Locations, Cahokia Heights

BIDDER: SUBMITTED BY (Name):

Date:

ADDRESS: CITY: STATE: PHONE: Sheet of

Question No.	Page (or Drawing Sheet) Number	Drawing No. or Spec. Section Article & Paragraph Number	Question by Bidder

NOTE: ANY AND ALL QUESTIONS PERTAINING TO THIS BID MUST BE TYPED AND SUBMITTED ON THIS FORM AND EMAILED TO RECEIVE A RESPONSE.  
END OF SECTION 00100.

**BID**

Proposal of \_\_\_\_\_

(hereinafter called "BIDDER"), organized and existing under the laws of the State of \_\_\_\_\_

\_\_\_\_\_, doing business as \* \_\_\_\_\_

\*Insert "a corporation," "a partnership," or "an individual," as applicable.

To **Cahokia Heights** (hereinafter called "OWNER").

In compliance with your Advertisement for Bids, BIDDER hereby proposes to perform all WORK for the improvements of **LIFT STATION REHABILITATION, TWO LOCATIONS**. The project consists of converting existing sewage eductor lift stations at 320 & 352 N. 82<sup>nd</sup> Street to submersible duplex lift stations, including removal and replacement of lift station pumps, control panels, valves, pressure gauges, guide bars, float switches, lift cables, disconnect switches, power and alarm cables, discharge pipe, wetwell, valve vault, and access hatches, together with restoration of all disturbed surfaces and all other incidental work required to complete the project in strict accordance with the CONTRACT DOCUMENTS, within the time set forth therein, and at the prices stated below.

BIDDER hereby agrees to commence WORK under this contract on or before a date to be specified in the NOTICE TO PROCEED and to fully complete the PROJECT within 120 consecutive calendar days thereafter.

(I) By submission of the bid, each bidder certifies, and in the case of a joint bid, each party thereto certifies as to his own organization, that in connection with the bid:

- (i) The prices in the bid have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
- (ii) Unless otherwise required by law, the prices which have been quoted in the bid have not knowingly been disclosed by the bidder, prior to opening, directly or indirectly to any other bidder or to any competitor; and
- (iii) No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a bid for the purpose of restricting competition.

(II) Each person signing the bid shall certify that:

- (i) He is the person in the bidder's organization responsible within that organization for the decision as to the prices being bid and that he has not participated, and will not participate, in any action contrary to (I) (i) through (I) (iii) above; or

**LIFT STATION REHABILITATION  
TWO LOCATIONS  
CAHOKIA HEIGHTS**

Dated \_\_\_\_\_

This proposal consists of 3 pages.

- (ii) He is not the person in the bidder's organization responsible within that organization for the decision as to the prices being bid, but that he has been authorized to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to (I) (i) through (I) (iii) above, and as their agent, shall so certify; and shall also certify that he has not participated, and will not participate, in any action contrary to (I) (i) through (I) (iii) above.
- (iii) The Contractor by submitting its bid certifies that it will provide a drug free workplace and that it is in compliance with the requirements of the Drug Free Workplace Act 30ILCS 580.1 et.seq., and the Substance Abuse Prevention on Public Works Projects Act PA095—635.

BIDDER acknowledges receipt of the following ADDENDA

No. \_\_\_\_\_, dated \_\_\_\_\_ No. \_\_\_\_\_, dated \_\_\_\_\_  
 No. \_\_\_\_\_, dated \_\_\_\_\_ No. \_\_\_\_\_, dated \_\_\_\_\_

BIDDER agrees to perform all work described in the CONTRACT DOCUMENTS for the following lump sum price:

BID SCHEDULE

BIDDER agrees to perform all work described in the CONTRACT DOCUMENTS, for the following lump sum prices.

<u>Location</u>	<u>Bid Amount</u>
1. 320 N. 82 <sup>ND</sup> Street	\$ _____
2. 352 N. 82 <sup>ND</sup> Street	\$ _____
TOTAL LUMP SUM BID (in figures)	\$ _____
TOTAL LUMP SUM BID IN WRITING	_____

**LIFT STATION REHABILITATION  
 TWO LOCATIONS  
 CAHOKIA HEIGHTS**

Dated \_\_\_\_\_

This proposal consists of  3  pages.

Name of Bidder (FIRM) \_\_\_\_\_

Signed by \_\_\_\_\_

Title \_\_\_\_\_ Date \_\_\_\_\_

Business Address \_\_\_\_\_

\_\_\_\_\_

Treasury Number \_\_\_\_\_

Contact Person \_\_\_\_\_

(SEAL)

If Bid is by a corporation.

Social Security Number (if private owner) \_\_\_\_\_

Attest: \_\_\_\_\_

**LIFT STATION REHABILITATION  
TWO LOCATIONS  
CAHOKIA HEIGHTS**

Dated \_\_\_\_\_

This proposal consists of  3  pages.

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, \_\_\_\_\_

\_\_\_\_\_ as Principal, and

\_\_\_\_\_ as Surety, are hereby

held and firmly bound unto \_\_\_\_\_ as Owner

in the penal sum of \_\_\_\_\_

for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

The Condition of the above obligation is such that whereas the Principal has submitted to \_\_\_\_\_

\_\_\_\_\_ a certain BID.

Attached hereto and hereby made a part hereof to enter into a contract in writing, for the

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of contract attached hereto (properly complete in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID. Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Surety

By: \_\_\_\_\_

IMPORTANT-Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.



# APPLICATION FOR PAYMENT

Owner: \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_  
 Cahokia Heights \_\_\_\_\_ Application No. \_\_\_\_\_  
 103 Main Street \_\_\_\_\_ Period to: \_\_\_\_\_  
 Cahokia Heights, IL 62206 \_\_\_\_\_ Project No.: \_\_\_\_\_  
 \_\_\_\_\_ Contract Date: \_\_\_\_\_

Contractor: \_\_\_\_\_  
 Architect/Engineer: Hurst-Rosche, Inc.

Original Contract Sum \_\_\_\_\_  
 Net Change By Change Orders \_\_\_\_\_  
 Contractor Sum to Date \_\_\_\_\_  
 Total Completed & Stored to Date \_\_\_\_\_  
 Retainage: \_\_\_\_\_ % of completed work \_\_\_\_\_  
 \_\_\_\_\_ % of Stored Materials \_\_\_\_\_  
 Total Retainage \_\_\_\_\_  
 Total Earned Less Retainage \_\_\_\_\_  
 Less Previous Applications for Payment \_\_\_\_\_  
**CURRENT PAYMENT DUE** \_\_\_\_\_  
 Balance to Finish (including Retainage) \_\_\_\_\_

The undersigned certifies that to the best of their knowledge, information and belief the work covered by the application has been completed in accordance with the contract documents, that all amounts have been paid by the contractor for work which previous payments were issued and payments received from the Owner, and that current payment shown is now due.

Contractor: \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_  
 State of Illinois \_\_\_\_\_  
 County of \_\_\_\_\_  
 Subscribed and sworn to before me on this \_\_\_\_\_ day of \_\_\_\_\_

Summary of Change Orders	Additions	Deletions
Total previous approved change orders	_____	_____
Total current approved change orders	_____	_____

**NET TOTAL OF CHANGE ORDERS** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Notary Public \_\_\_\_\_  
 My Commission Expires: \_\_\_\_\_  
 In accordance with the contract documents, based on on-site observations and the on this application, the Architect certifies that to the best of his knowledge, information and belief the work completed is proportionate to the dollar amount requested, quality of work is in accordance with contract requirements and the Contractor is entitled to payment in the amount of \_\_\_\_\_

Cahokia Heights \_\_\_\_\_ Date \_\_\_\_\_  
 \_\_\_\_\_  
 Architect/Engineer's Representative \_\_\_\_\_  
 Hurst-Rosche, Inc. \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_



# APPLICATION FOR PAYMENT CONTINUATION SHEET

Page \_\_\_\_\_ of \_\_\_\_\_

Application No. \_\_\_\_\_  
 Period to: \_\_\_\_\_  
 Project No.: 211-0741  
 Contract Date: \_\_\_\_\_  
 Invoice No. \_\_\_\_\_  
 Contractor for: \_\_\_\_\_

Amounts lists below are states to the nearest dollar.

Item No.	Description of Work	Scheduled Value	Worked Completed		Materials Presently Stored	Total Completed and Stored to Date	%	Balance to Finish	Retainage
			From Previous Application	This Period					



## AGREEMENT

H-R 211-0741

THIS AGREEMENT, made this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between  
Cahokia Heights, hereinafter called "Owner" and \_\_\_\_\_  
Name of Owner), (Contractor)  
doing business as an, individual, partnership or corporation, hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The CONTRACTOR will commence and complete the construction of

Lift Rehabilitation Station, Two Locations

Cahokia Heights

2. The CONTRACTOR will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the PROJECT described herein.

3. The CONTRACTOR will commence the work required by the CONTRACT DOCUMENTS within 10 calendar days after the date of the NOTICE TO PROCEED and will complete the same within 120 calendar days unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.

4. The CONTRACTOR agrees to perform all of the WORK described in the CONTRACT DOCUMENTS and comply with the terms therein for the sum of \$ \_\_\_\_\_ or as shown in the BID schedule.

5. The term "CONTRACT DOCUMENTS" means and includes the following:

- (A) Advertisement for BIDS
- (B) Information for BIDDERS
- (C) BID
- (D) BID BOND
- (E) Agreement

A-1

(F) General Conditions

(G) SUPPLEMENTAL GENERAL CONDITIONS

(H) Payment BOND

(I) Performance BOND

(J) NOTICE OF AWARD

(K) NOTICE TO PROCEED

(L) CHANGE ORDER

(M) DRAWINGS prepared by Hurst-Rosche, Inc.

numbered 1 through 8, and dated June, 2022

(N) SPECIFICATIONS prepared or issued by Hurst-Rosche, Inc.

dated June, 2022

(O) ADDENDA:

No. \_\_\_\_\_, dated \_\_\_\_\_, 20

No. \_\_\_\_\_, dated \_\_\_\_\_, 20

No. \_\_\_\_\_, dated \_\_\_\_\_, 20

No. \_\_\_\_\_, dated \_\_\_\_\_, 20

6. The OWNER will pay to the CONTRACTOR in the manner and at such times as set forth in the General Conditions such amounts as required by the CONTRACT DOCUMENTS.

7. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement in (3) each of which shall be deemed an original

(Number of Copies)

on the date first above written.

OWNER:

Cahokia Heights

BY \_\_\_\_\_

Name Curtis McCall  
(Please Type)

Title Mayor

SEAL)

ATTEST: \_\_\_\_\_

Name Richard Duncan  
(Type)

Title Clerk

CONTRACTOR:

\_\_\_\_\_

BY \_\_\_\_\_

Name \_\_\_\_\_  
(Please Type)

Address \_\_\_\_\_

\_\_\_\_\_

(SEAL)

ATTEST:

\_\_\_\_\_

Name \_\_\_\_\_  
(Please Type)

Title \_\_\_\_\_

**PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS: that

\_\_\_\_\_ (Name of Contractor)

\_\_\_\_\_ (Address of Contractor)

a \_\_\_\_\_, hereinafter called Principal,  
(Corporation, Partnership or Individual)

and \_\_\_\_\_ (Name of Surety)

\_\_\_\_\_ (Address of Surety)

hereinafter called Surety, are held and firmly bound unto \_\_\_\_\_

\_\_\_\_\_ (Name of Owner)

\_\_\_\_\_ (Address of Owner)

hereinafter called OWNER, in the penal sum of \_\_\_\_\_ Dollars, \$(\_\_\_\_\_)

in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction of:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, SUBCONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension, or modification, thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools; consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK, and for all labor, performed in such work whether by SUBCONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in \_\_\_\_\_ counterparts, each  
(number)  
one of which shall be deemed an original, this the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_.

ATTEST:

\_\_\_\_\_  
(Principal Secretary)

(SEAL)

\_\_\_\_\_  
(Address)

ATTEST:

\_\_\_\_\_  
Witness as to Surety  
\_\_\_\_\_  
(Address)

\_\_\_\_\_  
Principal

By \_\_\_\_\_

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
Surety

By \_\_\_\_\_  
Attorney -in-Fact

\_\_\_\_\_  
(Address)

NOTE: Date of BOND must not be prior to date of Contract.  
If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.

**PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS: that

\_\_\_\_\_

(Name of Contractor)

\_\_\_\_\_

(Address of Contractor)

a \_\_\_\_\_, hereinafter called Principal, and  
(Corporation, Partnership or Individual)

\_\_\_\_\_

(Name of Surety)

\_\_\_\_\_

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto \_\_\_\_\_

\_\_\_\_\_

(Name of Owner)

\_\_\_\_\_

(Address of Owner)

hereinafter called OWNER, in the penal sum of \_\_\_\_\_ Dollars, \$(\_\_\_\_\_)

in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction of:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in \_\_\_\_\_ counterparts, each  
(number)  
one of which shall be deemed an original, this the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

ATTEST:

\_\_\_\_\_  
(Principal Secretary) \_\_\_\_\_  
Principal

(SEAL)

By \_\_\_\_\_

\_\_\_\_\_  
(Address) \_\_\_\_\_

\_\_\_\_\_  
(Address) \_\_\_\_\_

\_\_\_\_\_  
Surety

ATTEST:

By \_\_\_\_\_  
Attorney -in-Fact

\_\_\_\_\_  
Witness as to Surety \_\_\_\_\_  
(Address) \_\_\_\_\_

\_\_\_\_\_  
(Address) \_\_\_\_\_

NOTE: Date of BOND must not be prior to date of Contract.  
If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.

**NOTICE OF AWARD**

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

H-R 211-0741

**PROJECT Description:** Lift Station Rehabilitation, Two Locations  
Cahokia Heights

The OWNER has considered the BID submitted by you for the above described WORK in response to its Advertisement for Bids dated \_\_\_\_\_, and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of \$ \_\_\_\_\_

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S Performance BOND. Payment BOND and certificates of insurance within ten (10) calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said BONDS within ten (10) days from the date of this Notice, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your BID BOND. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Cahokia Heights

BY: \_\_\_\_\_

Title Curtis McCall, Mayor

**ACCEPTANCE OF NOTICE**

Receipt of the above NOTICE OF AWARD is hereby acknowledged

by \_\_\_\_\_

this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

By \_\_\_\_\_ Title \_\_\_\_\_



**NOTICE TO PROCEED**

To: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

Project: Lift Station Rehabilitation

\_\_\_\_\_

Two Locations

\_\_\_\_\_

Cahokia Heights

H-R 211-0741

You are hereby notified to commence WORK in accordance with the Agreement dated \_\_\_\_\_, 20\_\_\_\_\_, on or before \_\_\_\_\_, 20\_\_\_\_\_, and you are to complete the WORK within 120 consecutive calendar days thereafter. The date of completion of all WORK is therefore \_\_\_\_\_, 20\_\_\_\_\_

Cahokia Heights

Owner

By \_\_\_\_\_

Curtis McCall, Mayor

**ACCEPTANCE OF NOTICE**

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

\_\_\_\_\_

this the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_

\_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

**CHANGE ORDER**

Date of Issuance: \_\_\_\_\_

Change Order No. \_\_\_\_\_

Project:     Lift Station Rehabilitation, Two Locations    

    Cahokia Heights         H-R 211-0741    

Owner:     Cahokia Heights    

Contractor: \_\_\_\_\_

Engineer:     Hurst-Rosche, Inc.    

Purpose of Change Order: \_\_\_\_\_

Description: \_\_\_\_\_

**Original Contract Price:**      \$ \_\_\_\_\_      **Original Contract Time:** \_\_\_\_\_

Adjusted Increase:              \$ \_\_\_\_\_      Adjusted Increase:      \_\_\_\_\_

Adjusted Decrease:             \$ \_\_\_\_\_      Adjusted Decrease:      \_\_\_\_\_

Total Adjusted Contract:      \$ \_\_\_\_\_      Adjusted Contract Time:      \_\_\_\_\_

**Requested by:** \_\_\_\_\_ Date: \_\_\_\_\_  
(Contractor/Engineer/Community)

**Approved by:** \_\_\_\_\_ Date: \_\_\_\_\_  
(Cahokia Heights, Curtis McCall, Mayor)

\_\_\_\_\_ Date: \_\_\_\_\_  
(Contractor)

\_\_\_\_\_ Date: \_\_\_\_\_  
(Hurst-Rosche, Inc.)

## GENERAL CONDITIONS

1. Definitions
2. Additional Instructions and Detail Drawings
3. Schedules, Reports and Records
- 4 Drawings and Specifications
5. Shop Drawings
6. Materials, Services and Facilities
7. Inspection and Testing
8. Substitutions
9. Patents
10. Surveys, Permits, Regulations
11. Protection of Work, Property, Persons
12. Supervision by Contractor
13. Changes in the Work
14. Changes in Contract Price
15. Time for Completion and Liquidated Damages
16. Correction of Work
17. Subsurface Conditions.
18. Suspension of Work, Termination and Delay
19. Payments to Contractor
20. Acceptance of Final Payment as Release
21. Insurance
22. Contract Security
23. Assignments
24. Indemnification
25. Separate Contracts
26. Subcontracting
27. Engineer's Authority
28. Land and Rights-of-Way
29. Guaranty
30. Arbitration
31. Taxes

### DEFINITIONS

- 1.1 Wherever used in the CONTRACT DOCUMENTS, the following terms shall have the meanings indicated which shall be applicable to both the singular and plural thereof :
- 1.2 ADDENDA -Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the CONTRACT DOCUMENTS, DRAWINGS and SPECIFICATIONS, by additions, deletions, clarifications or corrections.
- 1.3 BID-The offer or proposal of the BIDDER submitted on the prescribed form setting forth the prices for the WORK to be performed.
- 1.4 BIDDER-Any person (s), firm or corporation submitting a BID for the WORK.
- 1.5 BONDS-Bid, Performance, and Payment Bonds and other instruments of security, furnished by the CONTRACTOR and his surety in accordance with the CONTRACT DOCUMENTS.
- 1.6 CHANGE ORDER-A written order to the CONTRACTOR authorizing an addition, deletion or revision in the WORK within the general scope of the CONTRACT DOCUMENTS, or authorizing an adjustment in the CONTRACT PRICE or CONTRACT TIME.
- 1.7 CONTRACT DOCUMENTS-The contract, including Advertisement For Bids, Information For Bidders, BID, Bid Bond, Agreement, Payment Bond, Performance Bond, NOTICE OF AWARD, NOTICE TO PROCEED, CHANGE ORDER, DRAWINGS, SPECIFICATIONS, and ADDENDA.
- 1.8 CONTRACT PRICE-The total monies payable to the CONTRACTOR under the terms and conditions of the CONTRACT DOCUMENTS.
- 1.9 CONTRACT TIME-The number of calendar days stated in the CONTRACT DOCUMENTS for the completion of the WORK.
- 1.10 CONTRACTOR-The person, firm or corporation with whom the OWNER has executed the Agreement.
- 1.11 DRAWINGS-The part of the CONTRACT DOCUMENTS which show the characteristics and scope of the WORK to be performed and which have been prepared or approved by the ENGINEER.
- 1.12 ENGINEER - The person, firm or corporation named as such in the CONTRACT DOCUMENTS.
- 1.13 FIELD ORDER - A written order effecting a change in the WORK not involving an adjustment in the CONTRACT PRICE or an extension of the CONTRACT TIME, issued by the ENGINEER to the CONTRACTOR during construction.
- 1.14 NOTICE OF AWARD - The written notice of the acceptance of the BID from the OWNER to the successful BIDDER.
- 1.15 NOTICE TO PROCEED - Written communication issued by the OWNER to the CONTRACTOR authorizing him to proceed with the WORK and establishing the date of commencement of the WORK.
- 1.16 OWNER - A public or quasi-public body or authority, corporation, association, partnership, or individual for whom the WORK is to be performed.
- 1.17 PROJECT-The undertaking to be performed as provided in the CONTRACT DOCUMENTS.
- 1.18 RESIDENT PROJECT REPRESENTATIVE-The authorized representative of the OWNER who is assigned to the PROJECT site or any part thereof.
- 1.19 SHOP DRAWINGS - All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the CONTRACTOR, a SUBCONTRACTOR, manufacturer, SUPPLIER or distributor, which illustrate how specific portions of the WORK shall be fabricated or installed.
- 1.20 SPECIFICATIONS - A part of the CONTRACT DOCUMENTS consisting of written descriptions of a technical nature of materials, equipment, construction systems, standards and workmanship.
- 1.21 SUBCONTRACTOR-An individual, firm or corporation having a direct contract with the CONTRACTOR or with any other SUBCONTRACTOR for the performance of a part of the WORK at the site.
- 1.22 SUBSTANTIAL COMPLETION -That date as certified by the ENGINEER when the construction of the PROJECT or a specified part thereof is sufficiently completed, in accordance with the CONTRACT DOCUMENTS, so that the PROJECT or specified part can be utilized for the purposes for which it is intended.

### 1.23 SUPPLEMENTAL GENERAL CONDITIONS-

Modifications to General Conditions required by a Federal agency for participation in the PROJECT and approved by the agency in writing prior to inclusion in the CONTRACT DOCUMENTS, or such requirements that may be imposed by applicable state laws.

1.24 SUPPLIER -Any person or organization who supplies materials or equipment for the WORK, including that fabricated to a special design, but who does not perform labor at the site.

1.25 WORK -All labor necessary to produce the construction required by the CONTRACT DOCUMENTS, and all materials and equipment incorporated or to be incorporated in the PROJECT.

1.26 WRITTEN NOTICE -Any notice to any party of the Agreement relative to any part of this Agreement in writing and considered delivered and the service thereof completed, when posted by certified registered mail to the said party at his last given address, or delivered in person to said party or his authorized representative on the WORK. -

## 2. ADDITIONAL INSTRUCTIONS AND DETAIL DRAWINGS

2.1 The CONTRACTOR may be furnished additional instructions and detail drawings, by the ENGINEER, as necessary to carry out the WORK required by the CONTRACT DOCUMENTS.

2.2 The additional drawings and instruction thus supplied will become a part of the CONTRACT DOCUMENTS. The CONTRACTOR shall carry out the WORK in accordance with the additional detail drawings and instructions.

## 3. SCHEDULES, REPORTS AND RECORDS

3.1 The CONTRACTOR shall submit to the OWNER such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records and other data where applicable as are required by the CONTRACT DOCUMENTS for the WORK to be performed.

3.2 Prior to the first partial payment estimate the CONTRACTOR shall submit construction progress schedules showing the order in which he proposes to carry on the WORK, including dates at which he will start the various parts of the WORK. Estimated date of completion of each part and, as applicable:

3.2.1. The dates at which special detail drawings will be required; and

3.2.2 Respective dates for submission of SHOP DRAWINGS, the beginning of manufacture, the testing and the installation of materials, supplies and equipment.

3.3 The CONTRACTOR shall also submit a schedule of payments that he anticipates he will earn during the course of the WORK.

## 4. DRAWINGS AND SPECIFICATIONS

4.1 The intent of the DRAWINGS and SPECIFICATIONS is that the CONTRACTOR shall furnish all labor, materials, tools, equipment, and transportation necessary for the proper execution of the WORK in accordance with the CONTRACT DOCUMENTS and all incidental work necessary to complete the PROJECT in an acceptable manner, ready for use, occupancy or operation by the OWNER.

4.2 In case of conflict between the DRAWINGS and SPECIFICATIONS, the SPECIFICATIONS shall govern. Figure dimensions on DRAWINGS shall govern over scale dimensions, and detailed DRAWINGS shall govern over general DRAWINGS.

4.3 Any discrepancies found between the DRAWINGS and SPECIFICATIONS and site conditions or any inconsistencies or ambiguities in the DRAWINGS or SPECIFICATIONS shall be immediately reported to the ENGINEER, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. WORK done by the CONTRACTOR after his discovery of such discrepancies, inconsistencies or ambiguities shall be done at the CONTRACTOR'S risk.

## 5. SHOP DRAWINGS

5.1 The CONTRACTOR shall provide SHOP DRAWINGS as may be necessary for the prosecution of the WORK as required by the CONTRACT DOCUMENTS. The ENGINEER shall promptly review all SHOP DRAWINGS. The ENGINEER'S approval of any SHOP DRAWING shall not release the CONTRACTOR from responsibility for deviations from the CONTRACT DOCUMENTS. The approval of any SHOP DRAWING which substantially deviates from the requirement of the CONTRACT DOCUMENTS shall be evidenced by a CHANGE ORDER.

5.2 When submitted for the ENGINEER'S review, SHOP DRAWINGS shall bear the CONTRACTOR'S certification that he has reviewed, checked and approved the SHOP DRAWINGS and that they are in conformance with the requirements of the CONTRACT DOCUMENTS.

5.3 Portions of the WORK requiring a SHOP DRAWING or sample submission shall not begin until the SHOP DRAWING or submission has been approved by the ENGINEER. A copy of each approved SHOP DRAWING and each approved sample shall be kept in good order by the CONTRACTOR at the site and shall be available to the ENGINEER.

## 6. MATERIALS, SERVICES AND FACILITIES

6.1 It is understood that, except as otherwise specifically stated in the CONTRACT DOCUMENTS, the CONTRACTOR shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete, and deliver the WORK within the specified time.

6.2 Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the WORK. Stored materials and equipment to be incorporated in the WORK shall be located so as to facilitate prompt inspection.

6.3 Manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.

6.4 Materials, supplies and equipment shall be in accordance with samples submitted by the CONTRACTOR and approved by the ENGINEER.

6.5 Materials, supplies or equipment to be incorporated into the WORK shall not be purchased by the CONTRACTOR

or the SUBCONTRACTOR subject to a chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller.

## 7. INSPECTION AND TESTING

7.1 All materials and equipment used in the construction of the PROJECT shall be subject to adequate inspection and testing in accordance with generally accepted standards, as required and defined in the CONTRACT DOCUMENTS.

7.2 The OWNER shall provide all inspection and testing services not required by the CONTRACT DOCUMENTS.

7.3 The CONTRACTOR shall provide at his expense the testing and inspection services required by the CONTRACT DOCUMENTS.

7.4 If the CONTRACT DOCUMENTS, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any WORK to specifically be inspected, tested, or approved by someone other than the CONTRACTOR, the CONTRACTOR will give the ENGINEER timely notice of readiness. The CONTRACTOR will then furnish the ENGINEER the required certificates of inspection, testing or approval.

7.5 Inspections, tests or approvals by the engineer or others shall not relieve the CONTRACTOR from his obligations to perform the WORK in accordance with the requirements of the CONTRACT DOCUMENTS.

7.6 The ENGINEER and his representatives will at all times have access to the WORK. In addition, authorized representatives and agents of any participating Federal or state agency shall be permitted to inspect all work, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records. The CONTRACTOR will provide proper facilities for such access and observation of the WORK and also for any inspection, or testing thereof.

7.7 If any WORK is covered contrary to the written instructions of the ENGINEER it must, if requested by the ENGINEER, be uncovered for his observation and replaced at the CONTRACTOR'S expense.

7.8 If the ENGINEER considers it necessary or advisable that covered WORK be inspected or tested by others, the CONTRACTOR, at the ENGINEER'S request, will uncover, expose or otherwise make available for observation, inspection or testing as the engineer may require, that portion of the WORK in question, furnishing all necessary labor, materials, tools, and equipment. If it is found that such WORK is defective, the CONTRACTOR will bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction. If, however, such WORK is not found to be defective, the CONTRACTOR will be allowed an increase in the CONTRACT PRICE or an extension of the CONTRACT TIME, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction and an appropriate CHANGE ORDER shall be issued.

## 8. SUBSTITUTIONS

8.1 Whenever a material, article or piece of equipment

is identified on the DRAWINGS or SPECIFICATIONS by reference to brand name or catalogue number, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered. The CONTRACTOR may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the CONTRACT DOCUMENTS by reference to brand name or catalogue number, and if, in the opinion of the ENGINEER, such material, article, or piece of equipment is of equal substance and function to that specified. The ENGINEER may approve its substitution and use by the CONTRACTOR. Any cost differential shall be deductible from the CONTRACT PRICE and the CONTRACT DOCUMENTS shall be appropriately modified by CHANGE ORDER. The CONTRACTOR warrants that if substitutes are approved, no major changes in the function or general design of the PROJECT will result. Incidental changes or extra component parts required to accommodate the substitute will be made by the CONTRACTOR without a change in the CONTRACT PRICE or CONTRACT TIME.

## 9. PATENTS

9.1 The CONTRACTOR shall pay all applicable royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and save the OWNER harmless from loss on account thereof, except that the OWNER shall be responsible for any such loss when a particular process, design, or the product of a particular manufacturer or manufacturers is specified, however if the CONTRACTOR has reason to believe that the design, process Or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the ENGINEER.

## 10. SURVEYS, PERMITS, REGULATIONS

10.1 The OWNER shall furnish all boundary surveys and establish all base lines for locating the principal component parts of the WORK together with a suitable number of bench marks adjacent to the WORK as shown in the CONTRACT DOCUMENTS. From the information provided by the OWNER, unless otherwise specified in the CONTRACT DOCUMENTS, the CONTRACTOR shall develop and make all detail surveys needed for construction such as slope stakes, batter boards, stakes for pile locations, and other working points, lines, elevations and cut sheets.

10.2 The CONTRACTOR shall carefully preserve bench marks, reference points and stakes and, in case of willful or careless destruction, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

10.3 Permits and licenses of a temporary nature necessary for the prosecution of the WORK shall be secured and paid for by the CONTRACTOR unless otherwise stated in the SUPPLEMENTAL GENERAL CONDITIONS. Permits, licenses and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the OWNER, unless otherwise specified. The CONTRACTOR shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the WORK as drawn and specified. If the CONTRACTOR observes that the CONTRACT DOCUMENTS

are at variance therewith, he shall promptly notify the ENGINEER in writing, and any necessary changes shall be adjusted as provided in Section 13, CHANGES IN THE WORK.

#### 11. PROTECTION OF WORK, PROPERTY AND PERSONS

11.1 The CONTRACTOR will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the WORK. He will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the WORK and other persons who may be affected thereby, all the WORK and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

11.2 The CONTRACTOR will comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction. He will erect and maintain, as required by the conditions and progress of the WORK, all necessary safeguards for safety and protection. He will notify owners of adjacent utilities when prosecution of the WORK may affect them. The CONTRACTOR will remedy all damage, injury or loss to any property caused, directly or indirectly, in whole or in part, by the CONTRACTOR, any SUBCONTRACTOR or anyone directly or indirectly employed by any of them or anyone for whose acts any of them be liable, except damage or loss attributable to the fault of the CONTRACTOR DOCUMENTS or to the acts or omissions of the OWNER or the ENGINEER or anyone employed by either of them or anyone for whose acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of the CONTRACTOR.

11.3 In emergencies affecting the safety of persons or the WORK or property at the site or adjacent thereto, the CONTRACTOR, without special instruction or authorization from the ENGINEER or OWNER, shall act to prevent threatened damage, injury or loss. He will give the ENGINEER prompt WRITTEN NOTICE of any significant changes in the WORK or deviations from the CONTRACT DOCUMENTS caused thereby, and a CHANGE ORDER shall thereupon be issued covering the changes and deviations involved.

#### 12. SUPERVISION BY CONTRACTOR

12.1 The CONTRACTOR will supervise and direct the WORK. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The CONTRACTOR will employ and maintain on the WORK a qualified supervisor or superintendent who shall have been designated in writing by the CONTRACTOR as the CONTRACTOR'S representative at the site. The supervisor shall have full authority to act on behalf of the CONTRACTOR and all communications given to the supervisor shall be as binding as if given to the CONTRACTOR. The supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the WORK.

#### 13. CHANGES IN THE WORK

13.1 The OWNER may at any time, as the need arises,

order changes within the scope of the WORK without invalidating the Agreement. If such changes increase or decrease the amount due under the CONTRACT DOCUMENTS, or in the time required for performance of the WORK, an equitable adjustment shall be authorized by CHANGE ORDER.

13.2 The ENGINEER, also, may at any time, by issuing a FIELD ORDER, make changes in the details of the WORK. The CONTRACTOR shall proceed with the performance of any changes in the WORK so ordered by the ENGINEER unless the CONTRACTOR believes that such FIELD ORDER entitles him to a change in CONTRACT PRICE or TIME, or both. In which event he shall give the ENGINEER WRITTEN NOTICE thereof within seven (7) days after the receipt of the ordered change. Thereafter the CONTRACTOR shall document the basis for the change in CONTRACT PRICE or TIME within thirty (30) days. The CONTRACTOR shall not execute such changes pending the receipt of an executed CHANGE ORDER or further instruction from the OWNER.

#### 14. CHANGES IN CONTRACT PRICE

14.1 The CONTRACT PRICE may be changed only by a CHANGE ORDER. The Value of any WORK covered by a CHANGE ORDER or of any claim for increase or decrease in the CONTRACT PRICE shall be determined by one or more of the following methods in the order of precedence listed below:  
(a) Unit prices previously approved.  
(b) An agreed lump sum.  
(c) The actual cost for labor, direct overhead, materials, supplies, equipment, and other services necessary to complete the work. In addition there shall be added an amount to be agreed upon but not to exceed fifteen (15) percent of the actual cost of the WORK to cover the cost of general overhead and profit.

#### 15. TIME FOR COMPLETION AND LIQUIDATED DAMAGES

15.1 The date of beginning and the time for completion of the WORK are essential conditions of the CONTRACT DOCUMENTS and the WORK embraced shall be commenced on a date specified in the NOTICE TO PROCEED.

15.2 The CONTRACTOR will proceed with the WORK at such rate of progress to insure full completion within the CONTRACT TIME. It is expressly understood and agreed, by and between the CONTRACTOR and the OWNER, that the CONTRACT TIME for the completion of the WORK described herein is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the WORK.

15.3 If the CONTRACTOR shall fail to complete the WORK within the CONTRACT TIME, or extension of time granted by the OWNER, then the CONTRACTOR will pay to the OWNER the amount for liquidated damages as specified in the BID for each calendar day that the CONTRACTOR shall be in default after the time stipulated in the CONTRACT DOCUMENTS.

15.4 The CONTRACTOR shall not be charged with liquidated damages or any excess cost when the delay in completion of the WORK is due to the following, and the CONTRACTOR has promptly given WRITTEN NOTICE of such delay to the OWNER or ENGINEER.

15.4.1 To any preference, priority or allocation duly issued by the OWNER

15.4.2 To unforeseeable causes beyond the control and without the fault or negligence of the CONTRACTOR, including but not restricted to, acts of God, or of the public enemy, acts of the OWNER, acts of another CONTRACTOR in the performance of a contract with the OWNER, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and abnormal and unforeseeable weather; and

15.4.3 To any delays of SUBCONTRACTORS occasioned by any of the causes specified in paragraphs 15.4.1 and 15.4.2 of this article.

## 16. CORRECTION OF WORK

16.1 The CONTRACTOR shall promptly remove from the premises all WORK rejected by the ENGINEER for failure to comply with the CONTRACT DOCUMENTS. Whether incorporated in the construction or not, and the CONTRACTOR shall promptly replace and re-execute the WORK in accordance with the CONTRACT DOCUMENTS and without expense to the OWNER and shall bear the expense of making good all WORK of other CONTRACTORS destroyed or damaged by such removal or replacement.

16.2 All removal and replacement WORK shall be done at the CONTRACTOR'S expense. If the CONTRACTOR does not take action to remove such rejected WORK within ten (10) days after receipt of WRITTEN NOTICE, the OWNER may remove such WORK and store the materials at the expense of the CONTRACTOR.

## 17. SUBSURFACE CONDITIONS

17.1 The CONTRACTOR shall promptly, and before such conditions are disturbed, except in the event of an emergency, notify the OWNER by WRITTEN NOTICE of:

17.1.1 Subsurface or latent physical conditions at the site differing materially from those indicated in the CONTRACT DOCUMENTS; or

17.1.2 Unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in WORK of the character provided for in the CONTRACT DOCUMENTS.

17.2 The OWNER shall promptly investigate the conditions, and if he finds that such conditions do so materially differ and cause an increase or decrease in the cost of, or in the time required for, performance of the WORK, an equitable adjustment shall be made and the CONTRACT DOCUMENTS shall be modified by a CHANGE ORDER. Any claim of the CONTRACTOR for adjustment hereunder shall not be allowed unless he has given the required WRITTEN NOTICE; provided that the OWNER may, if he determines the facts so justify, consider and adjust any such claims asserted before the date of final payment.

## 18. SUSPENSION OF WORK, TERMINATION AND DELAY

18.1 The OWNER may suspend the WORK or any portion thereof for a period of not more than ninety days or such further time as agreed upon by the CONTRACTOR, by WRITTEN NOTICE to the CONTRACTOR and the ENGINEER which notice shall fix the date on which WORK shall be resumed. The CONTRACTOR

will resume that WORK on the date so fixed. The CONTRACTOR will be allowed an increase in the CONTRACT PRICE or an extension of the CONTRACT TIME, or both, directly attributable to any suspension.

18.2 If the CONTRACTOR is adjudged a bankrupt or insolvent, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the CONTRACTOR or for any of his property, or if he files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or applicable laws, or if he repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or if he repeatedly fails to make prompt payments to SUBCONTRACTORS or for labor, materials or equipment or if he disregards laws, ordinances, rules, regulations or orders of any public body having jurisdiction of the WORK or if he disregards the authority of the ENGINEER, or if he otherwise violates any provision of the CONTRACT DOCUMENTS, then the OWNER may, without prejudice to any other right or remedy and after giving the CONTRACTOR and his surety a minimum of ten (10) days from delivery of a WRITTEN NOTICE, terminate the services of the CONTRACTOR and take possession of the PROJECT and of all materials, equipment, tools, construction equipment and machinery thereon owned by the CONTRACTOR, and finish the WORK by whatever method he may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the WORK is finished. If the unpaid balance of the CONTRACT PRICE exceeds the direct and indirect costs of completing the PROJECT, including compensation for additional professional services, such excess SHALL BE PAID TO THE CONTRACTOR. If such costs exceed such unpaid balance, the CONTRACTOR will pay the difference to the OWNER. Such costs incurred by the OWNER will be determined by the ENGINEER and incorporated in a CHANGE ORDER.

18.3 Where the CONTRACTOR'S services have been so terminated by the OWNER, said termination shall not affect any right of the OWNER against the CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of monies by the OWNER due the CONTRACTOR will not release the CONTRACTOR from compliance with the CONTRACT DOCUMENTS.

18.4 After ten (10) days from delivery of a written NOTICE to the CONTRACTOR and the ENGINEER, the OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the PROJECT and terminate the Contract. In such case, the CONTRACTOR shall be paid for all WORK executed and any expense sustained plus reasonable profit.

18.5 If, through no act or fault of the CONTRACTOR, the WORK is suspended for a period of more than ninety (90) days by the OWNER or under an order of court or other public authority, or the ENGINEER fails to act on any request for payment within thirty (30) days after it is submitted, or the OWNER fails to pay the CONTRACTOR substantially the sum approved by the ENGINEER or awarded by arbitrators within thirty (30) days of its approval and presentation, then the CONTRACTOR may, after ten (10) days from delivery of a WRITTEN NOTICE to the OWNER and the ENGINEER, terminate the CONTRACT and recover from the OWNER payment for all WORK executed

and all expenses sustained. In addition and in lieu of terminating the CONTRACT, if the ENGINEER has failed to act on a request for payment or if the OWNER has failed to make any payment as aforesaid, the CONTRACTOR may upon ten (10) days written notice to the OWNER and the ENGINEER stop the WORK until he has been paid all amounts then due, in which event and upon resumption of the WORK, CHANGE ORDERS shall be issued for adjusting the CONTRACT PRICE or extending the CONTRACT TIME or both to compensate for the costs and delays attributable to the stoppage of the WORK.

18.6 If the performance of all or any portion of the WORK is suspended, delayed, or interrupted as a result of a failure of the OWNER or ENGINEER to act within the time specified in the CONTRACT DOCUMENTS, or if no time is specified, within a reasonable time, an adjustment in the CONTRACT price or an extension of the CONTRACT TIME, or both, shall be made by CHANGE ORDER to compensate the CONTRACTOR for the costs and delays necessarily refused by the failure of the OWNER or ENGINEER.

### 19. PAYMENTS TO CONTRACTOR

19.1 At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER a partial payment estimate filled out and signed by the CONTRACTOR covering the WORK performed during the period covered by the partial payment estimate and supported by such data as the ENGINEER may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the WORK but delivered and suitably stored at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the OWNER, as will establish the OWNER'S title to the material and equipment and protect his interest therein, including applicable insurance. The ENGINEER will, within ten (10) days after receipt of each partial payment estimate, either indicate in writing his approval of payment and present the partial payment estimate to the OWNER, or return the partial payment estimate to the CONTRACTOR indicating in writing his reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWNER will, within ten (10) days of presentation to him of an approved partial payment estimate, pay the CONTRACTOR a progress payment on the basis of the approved partial payment estimate. The OWNER shall retain ten (10) percent of the amount of each payment until final completion and acceptance of all work covered by the CONTRACT DOCUMENTS. The OWNER at any time, however, after fifty (50) percent of the WORK has been completed, if he finds that satisfactory progress is being made, shall reduce retainage to five (5%) percent on the current and remaining estimates. When the WORK is substantially complete (operational or beneficial occupancy), the retained amount may be further reduced below five (5) percent to only that amount necessary to assure completion. On completion and acceptance of a part of the WORK on which the price is stated separately in the CONTRACT DOCUMENTS, payment may be made in full, including retained percentages, less authorized deductions.

19.2 The request for payment may also include an allowance for the cost of such major materials and equipment which are

suitably stored either at or near the site.

19.3 Prior to SUBSTANTIAL COMPLETION, the OWNER, with the approval of the ENGINEER and with the concurrence of the CONTRACTOR, may use any completed or substantially completed portions of the WORK. Such use shall not constitute an acceptance of such portions of the WORK.

19.4 The OWNER shall have the right to enter the premises for the purpose of doing work not covered by the CONTRACT DOCUMENTS. This provision shall not be construed as relieving the CONTRACTOR of the sole responsibility for the care and protection of the WORK, or the restoration of any damaged WORK except such as may be caused by agents or employees of the OWNER.

19.5 Upon completion and acceptance of the WORK, the ENGINEER shall issue a certificate attached to the final payment request that the WORK has been accepted by him under the conditions of the CONTRACT DOCUMENTS. The entire balance found to be due the CONTRACTOR, including the retained percentages, but except such sums as may be lawfully retained by the OWNER, shall be paid to the CONTRACTOR within thirty (30) days of completion and acceptance of the WORK.

19.6 The CONTRACTOR will indemnify and save the OWNER or the OWNER'S agents harmless from all claims growing out of the lawful demands of SUBCONTRACTORS, laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the WORK. The CONTRACTOR shall, at the OWNER'S request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the CONTRACTOR fails to do so the OWNER may, after having notified the CONTRACTOR, either pay unpaid bills or withhold from the CONTRACTOR'S unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged where- upon payment to the CONTRACTOR shall be resumed, in accordance with the terms of the CONTRACT documents but in no event shall the provisions of this sentence be construed to impose any obligations upon the OWNER to either the CONTRACTOR, his Surety, or any third party. In paying any unpaid bills of the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment made under the CONTRACT DOCUMENTS by the OWNER to the CONTRACTOR and the OWNER shall not be liable to the CONTRACTOR for any such payments made in good faith.

19.7 If the OWNER fails to make payment thirty (30) days after approval by the ENGINEER, in addition to other remedies available to the CONTRACTOR, there shall be added to each such payment interest at the maximum legal rate commencing on the first day after said payment is due and continuing until the payment is received by the CONTRACTOR.



## 20. ACCEPTANCE OF FINAL PAYMENT AS RELEASE

20.1 The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER of all claims and all liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with this WORK and for every act and neglect of the OWNER and others relating to or arising out of this WORK. Any payment, however, final or otherwise, shall not release the CONTRACTOR or his sureties from any obligations under the CONTRACT DOCUMENTS or the Performance BOND and Payment BONDS.

## 21. INSURANCE

21.1 The CONTRACTOR shall purchase and maintain such insurance as will protect him from claims set forth below which may arise out of or result from the CONTRACTOR'S execution of the WORK, whether such execution be by himself or by any SUBCONTRACTOR or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

21.1.1 Claims under workmen's compensation, Disability benefit and other similar employee benefit acts;

21.1.2 Claims for damages because of bodily injury, occupational sickness or disease, or death of his employees;

21.1.3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;

21.1.4 Claims for damages insured by usual personal injury liability coverage which are sustained (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the CONTRACTOR, or (2) by any other person; and

21.1.5 Claims for damages because of injury to or destruction of tangible property, including loss of use resulting there from.

21.2 Certificates of Insurance acceptable to the OWNER shall be filed with the OWNER prior to commencement of the WORK. These Certificates shall contain a provision that coverages afforded under the policies will not be cancelled unless at least fifteen (15) days prior WRITTEN NOTICE has been given to the OWNER. The Owner and Engineer shall be named additional insureds with regard to General and Automotive Liability

21.3 The CONTRACTOR shall procure and maintain, at his own expense, during the CONTRACT TIME, liability insurance as hereinafter specified:

21.3.1 CONTRACTOR'S General Public Liability and Property Damage Insurance including vehicle coverage issued to the CONTRACTOR and protecting him from all claims for personal injury, including death, and all claims for destruction of or damage to property arising out of or in connection with any

operations under the CONTRACT DOCUMENTS, whether such operations be by himself or by any SUBCONTRACTOR under him, or anyone directly or indirectly employed by the CONTRACTOR or by a SUBCONTRACTOR under him. Insurance shall be written with a limit of liability of not less than \$500,000 for all damages arising out of bodily injury, including death, at any time resulting there from, sustained by any one person in any one accident; and a limit of liability of not less than \$500,000 aggregate for any such damages sustained by two or more persons in any one accident. Insurance shall be written with a limit of liability of not less than \$200,000 for all property damage sustained by any one person in any one accident; and a limit of liability of not less than \$200,000 aggregate for any such damage sustained by two or more persons in any one accident.

21.3.2 The CONTRACTOR shall acquire and maintain, if applicable, Fire and Extended Coverage insurance upon the PROJECT to the full insurable value thereof for the benefit of the OWNER, the CONTRACTOR, and SUBCONTRACTORS as their interest may appear. This provision shall in no way release the CONTRACTOR or CONTRACTOR'S surety from obligations under the CONTRACT DOCUMENTS to fully complete the PROJECT.

21.4 The CONTRACTOR shall procure and maintain, at his own expense, during the CONTRACT TIME, in accordance with the provisions of the laws of the state in which the work is performed, Workmen's Compensation Insurance, including occupational disease provisions, for all of his employees at the site of the PROJECT and in case any work is sublet, the CONTRACTOR shall require such SUBCONTRACTOR similarly to provide Workmen's Compensation Insurance, including occupational disease provisions for all of the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. In case any class of employees engaged in hazardous work under this contract at the site of the PROJECT is not projected under Workmen's Compensation statute, the CONTRACTOR shall provide, and shall cause each SUBCONTRACTOR to provide, adequate and suitable insurance for the protection of his employees not otherwise protected.

21.5 The CONTRACTOR shall secure, if applicable, "All Risk" type Builder's Risk Insurance for WORK to be performed. Unless specifically authorized by the OWNER, the amount of such insurance shall not be less than the CONTRACT PRICE totaled in the BID. The policy shall cover not less than the losses due to fire, explosion, hail, lightning, vandalism, malicious mischief, wind, collapse, riot, aircraft, and smoke during the CONTRACT TIME, and until the WORK is accepted by the OWNER. The policy shall name as the insured the CONTRACTOR, the ENGINEER, and the OWNER.

## 22. CONTRACT SECURITY

22.1 The CONTRACTOR shall within ten (10) days after the receipt of the NOTICE OF AWARD furnish the OWNER with a Performance Bond and a Payment Bond in penal sums equal to the amount of the CONTRACT PRICE, conditioned upon the performance by the CONTRACTOR of all undertakings,

covenants, terms, conditions and agreements of the CONTRACT DOCUMENTS, and upon the prompt payment by the CONTRACTOR to all persons supplying labor and materials in the prosecution of the WORK provided by the CONTRACT DOCUMENTS. Such BONDS shall be executed by the CONTRACTOR and a corporate bonding company licensed to transact such business in the state in which the WORK is to be performed and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The expense of these BONDS shall be borne by the CONTRACTOR. If at any time a surety on any such BOND is declared a bankrupt or loses its right to do business in the state in which the WORK is to be performed or is removed from the list of Surety Companies accepted on Federal BONDS, CONTRACTOR shall within ten (10) days after notice from the OWNER to do so, substitute an acceptable BOND (or BONDS) in such form and sum and signed by such other surety or sureties as may be satisfactory to the OWNER. The premiums on such BOND shall be paid by the CONTRACTOR. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable BOND to the OWNER.

## 23. ASSIGNMENTS

23.1 Neither the CONTRACTOR nor the OWNER shall sell, transfer, assign or otherwise dispose of the Contract or any portion thereof, or of his right, title or interest therein, or his obligations there under, without written consent of the other party.

## 24. INDEMNIFICATION

24.1 The CONTRACTOR will indemnify, and hold harmless the OWNER and the ENGINEER and their agents and employees from and against all claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the WORK, provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property including the loss of use resulting there from; and is caused in whole or in part by any negligent or willful act or omission of the CONTRACTOR, and SUBCONTRACTOR, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.

24.2 In any and all claims against the OWNER or the ENGINEER, or any of their agents or employees, by any employee of the CONTRACTOR, any SUBCONTRACTOR, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any SUBCONTRACTOR under workmen's compensation acts, disability benefit acts or other employee benefits acts.

24.3 The obligation of the CONTRACTOR under this paragraph shall not extend to the liability of the ENGINEER, his agents or employees arising out of the preparation or approval of maps, DRAWINGS, opinions, reports, surveys, CHANGE ORDERS, designs or SPECIFICATIONS.

## 25. SEPARATE CONTRACTS

25.1 The OWNER reserves the right to let other contracts

in connection with this PROJECT. The CONTRACTOR shall afford other CONTRACTORS reasonable opportunity for the introduction and storage of their materials and the execution of their WORK, and shall properly connect and coordinate his WORK with theirs. If the proper execution or results of any part of the CONTRACTOR'S WORK depends upon the WORK of any other CONTRACTOR, the CONTRACTOR shall inspect and promptly report to the ENGINEER any defects in such WORK that render it unsuitable for such proper execution and results.

25.2 The OWNER may perform additional WORK related to the PROJECT by himself, or he may let other contracts containing provisions similar to these. The CONTRACTOR will afford the other CONTRACTORS who are parties to such Contracts (or the OWNER, if he is performing the additional WORK himself), reasonable opportunity for the introduction and storage of materials and equipment and the execution of WORK, and shall properly connect and coordinate his WORK with theirs.

25.3 If the performance of additional WORK by other CONTRACTORS or the OWNER is not noted in the CONTRACT DOCUMENTS prior to the execution of the CONTRACT, written notice thereof shall be given to the CONTRACTOR prior to starting any such additional WORK. If the CONTRACTOR believes that the performance of such additional WORK by the OWNER or Others involves him in additional expense or entitles him to an extension of the CONTRACT TIME, he may make a claim therefore as provided in Sections 14 and 15.

## 26. SUBCONTRACTING

26.1 The CONTRACTOR may utilize the services of specialty SUBCONTRACTORS on those parts of the WORK which, under normal contracting practices, are performed by specialty SUBCONTRACTORS.

26.2 The CONTRACTOR shall not award WORK to SUBCONTRACTOR(s), in excess of fifty (50%) percent of the CONTRACT PRICE without prior written approval of the OWNER.

26.3 The CONTRACTOR shall be fully responsible to the OWNER for the acts and omissions of his SUBCONTRACTORS, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

26.4 The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the WORK to bind SUBCONTRACTORS to the CONTRACTOR by the terms of the CONTRACT DOCUMENTS insofar as applicable to the WORK of SUBCONTRACTORS and to give the CONTRACTOR the same power as regards terminating any subcontract that the OWNER may exercise over the CONTRACTOR tender any provision of the CONTRACT DOCUMENTS.

26.5 Nothing contained in this CONTRACT shall create any contractual relation between any SUBCONTRACTOR and the OWNER.

## 27. ENGINEER'S AUTHORITY

27.1 The ENGINEER shall act as the OWNER'S representative during the construction period. He shall decide questions which may arise as to quality and acceptability of materials furnished and WORK performed. He shall interpret the intent of the CONTRACT DOCUMENTS in a fair and unbiased manner. The

ENGINEER will make visits to the site and determine if the WORK is proceeding in accordance with the CONTRACT DOCUMENTS.

27.2 The CONTRACTOR will be held strictly to the intent of the CONTRACT DOCUMENTS in regard to the quality of materials, workmanship and execution of the WORK. Inspections may be made at the factory or fabrication plant of the source of material supply.

27.3 The ENGINEER will not be responsible for the construction means, controls, techniques, sequences, procedures, or construction safety.

27.4 The ENGINEER shall promptly make decisions relative to interpretation of the CONTRACT DOCUMENTS.

## 28. LAND AND RIGHTS-OF-WAY

28.1 Prior to issuance of NOTICE TO PROCEED, the OWNER shall obtain all land and rights-of-way necessary for carrying out and for the completion of the WORK to be performed pursuant to the CONTRACT DOCUMENTS, unless otherwise mutually agreed.

28.2 The OWNER shall provide to the CONTRACTOR information which delineates and describes the lands owned and rights-of-way acquired.

28.3 The CONTRACTOR shall provide at his own expense and without liability to the OWNER any additional land and access thereto that the CONTRACTOR may desire for temporary construction facilities, or for storage of materials.

## 29. GUARANTY

29.1 The CONTRACTOR shall guarantee all materials and equipment furnished and WORK performed for a period of one (1) year from the date of SUBSTANTIAL COMPLETION. The CONTRACTOR warrants and guarantees for a period of one (1) year from the date of SUBSTANTIAL COMPLETION of the system that the completed system is free from all defects due to faulty materials or workmanship and the CONTRACTOR shall promptly make such corrections as may be necessary by

reason of such defects including the repairs of any damage to other parts of the system resulting from such defects. The OWNER will give notice of observed defects with reasonable promptness. In the event that the CONTRACTOR should fail to make such repairs, adjustments, or other WORK that may be made necessary by such defects, the OWNER may do so and charge the CONTRACTOR the cost thereby incurred. The Performance BOND shall remain in full force and effect through the guarantee period.

## 30. ARBITRATION

30.1 All claims, disputes and other matters in question arising out of, or relating to the CONTRACT DOCUMENTS or the breach thereof, except for claims which have been waived by the making and acceptance of final payment as provided by Section 20, shall be decided by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association. This agreement to arbitrate shall be specifically enforceable under the prevailing arbitration law. The award rendered by the arbitrators shall be final, and judgment may be entered upon it in any court having jurisdiction thereof.

30.2 Notice of the demand for arbitration shall be filed in writing with the other party to the CONTRACT DOCUMENTS and with the American Arbitration Association, and a copy shall be filed with the ENGINEER. Demand for arbitration shall in no event be made on any claim, dispute or other matter in question which would be barred by the applicable statute of limitations.

30.3 The CONTRACTOR will carry on the WORK and maintain the progress schedule during any arbitration proceedings, unless otherwise mutually agreed in writing.

## 31. TAXES

31.1 The CONTRACTOR will pay all sales, consumer, use and other similar taxes required by the law of the place where the WORK is performed.

## St. Clair County Prevailing Wage Rates posted on 10/4/2021

Trade Title	Rg	Type	C	Base	Foreman	Overtime					Pension	Vac	Trng	Other Ins
						M-F	Sa	Su	Hol	H/W				
ASBESTOS ABT-GEN	All	BLD		33.14	33.64	1.5	1.5	2.0	2.0	8.55	16.90	0.00	0.80	
ASBESTOS ABT-MEC	All	BLD		32.60	33.60	1.5	1.5	2.0	2.0	9.70	6.25	0.00	0.50	
BOILERMAKER	All	BLD		39.75	43.25	1.5	1.5	2.0	2.0	7.07	25.26	0.00	1.06	
BRICK MASON	All	BLD		34.38	36.44	1.5	1.5	2.0	2.0	9.50	14.35	0.00	0.88	
CARPENTER	All	ALL		41.36	42.86	1.5	1.5	2.0	2.0	7.95	10.30	0.00	0.65	
CEMENT MASON	All	ALL		36.00	37.00	1.5	1.5	2.0	2.0	10.25	16.25	0.00	0.50	
CERAMIC TILE FINISHER	All	BLD		27.16	27.16	1.5	1.5	2.0	2.0	8.35	8.00	0.00	0.82	
ELECTRIC PWR EQMT OP	All	ALL		49.22	59.33	1.5	1.5	2.0	2.0	6.95	13.79	0.00	0.49	
ELECTRIC PWR GRNDMAN	All	ALL		36.74	59.33	1.5	1.5	2.0	2.0	5.19	10.29	0.00	0.37	
ELECTRIC PWR LINEMAN	All	ALL		56.59	59.33	1.5	1.5	2.0	2.0	7.99	15.85	0.00	0.57	
ELECTRIC PWR TRK DRV	All	ALL		40.17	59.33	1.5	1.5	2.0	2.0	5.67	11.25	0.00	0.40	
ELECTRICIAN	All	ALL		44.09	46.74	1.5	1.5	2.0	2.0	7.99	13.47	0.00	1.22	2.88
ELECTRONIC SYSTEM TECH	All	BLD		36.27	39.27	1.5	1.5	2.0	2.0	4.00	11.10	0.00	0.40	
ELEVATOR CONSTRUCTOR	All	BLD		53.46	60.14	2.0	2.0	2.0	2.0	15.87	19.31	4.28	0.64	
FLOOR LAYER	All	BLD		36.08	36.83	1.5	1.5	2.0	2.0	7.95	10.30	0.00	0.65	
GLAZIER	All	BLD		35.88		2.0	2.0	2.0	2.0	7.51	15.48	4.12	1.26	
HEAT/FROST INSULATOR	All	BLD		40.18	41.18	1.5	1.5	2.0	2.0	11.04	13.25	0.00	0.85	
IRON WORKER	All	ALL		36.50	38.50	1.5	1.5	2.0	2.0	10.46	18.50	0.00	0.42	
LABORER	N	ALL		32.64	33.14	1.5	1.5	2.0	2.0	8.55	16.90	0.00	0.80	
LABORER	S	ALL		30.40	30.90	1.5	1.5	2.0	2.0	7.73	19.96	0.00	0.80	
MACHINIST	All	BLD		50.68	53.18	1.5	1.5	2.0	2.0	8.93	8.95	1.85	1.47	
MARBLE FINISHER	All	BLD		27.16	27.16	1.5	1.5	2.0	2.0	8.35	8.00	0.00	0.82	
MARBLE MASON	All	BLD		32.66	32.66	1.5	1.5	2.0	2.0	8.35	9.20	0.00	0.91	
MILLWRIGHT	All	ALL		41.36	42.86	1.5	1.5	2.0	2.0	7.95	10.30	0.00	0.65	
OPERATING ENGINEER	All	BLD	1	40.85	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45	
OPERATING ENGINEER	All	BLD	2	39.72	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45	
OPERATING ENGINEER	All	BLD	3	35.24	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45	
OPERATING ENGINEER	All	BLD	4	41.85	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45	
OPERATING ENGINEER	All	BLD	5	42.85	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45	
OPERATING ENGINEER	All	BLD	6	43.40	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45	
OPERATING ENGINEER	All	BLD	7	43.70	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45	

OPERATING ENGINEER	All	BLD	8	44.00	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	BLD	9	44.65	43.85	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	1	39.35	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	2	38.22	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	3	33.74	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	4	40.35	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	5	41.35	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	6	41.90	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	7	42.20	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	8	42.50	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
OPERATING ENGINEER	All	HWY	9	43.15	42.35	1.5	1.5	2.0	2.0	14.10	18.80	0.00	1.45
PAINTER	All	BLD		32.45	33.95	1.5	1.5	2.0	2.0	6.95	12.77	0.00	0.70
PAINTER	All	HWY		33.65	35.15	1.5	1.5	2.0	2.0	6.95	12.77	0.00	0.70
PAINTER OVER 30 FT.	All	BLD		33.45	34.95	1.5	1.5	2.0	2.0	6.95	12.77	0.00	0.70
PAINTER PWR EQMT	All	BLD		33.45	34.95	1.5	1.5	2.0	2.0	6.95	12.77	0.00	0.70
PAINTER PWR EQMT	All	HWY		34.65	36.15	1.5	1.5	2.0	2.0	6.95	12.77	0.00	0.70
PILEDRIVER	All	ALL		41.36	42.86	1.5	1.5	2.0	2.0	7.95	10.30	0.00	0.65
PIPEFITTER	NW	BLD		41.00	45.00	1.5	1.5	2.0	2.0	8.54	10.55	0.00	1.55
PIPEFITTER	SE	BLD		41.65	44.15	1.5	1.5	2.0	2.0	10.60	6.55	0.00	1.25
PLASTERER	All	BLD		34.50	36.00	1.5	1.5	2.0	2.0	10.25	11.00	0.00	0.50
PLUMBER	NW	BLD		40.00	42.50	1.5	1.5	2.0	2.0	8.20	8.40	0.00	1.20
PLUMBER	SE	BLD		41.65	44.15	1.5	1.5	2.0	2.0	10.60	6.55	0.00	1.25
ROOFER	All	BLD		34.65	36.65	1.5	1.5	2.0	2.0	9.25	9.55	0.00	0.46
SHEETMETAL WORKER	All	ALL		37.54	39.04	1.5	1.5	2.0	2.0	10.75	9.50	2.25	0.71
SPRINKLER FITTER	All	BLD		45.78	49.53	2.0	2.0	2.0	2.0	9.95	14.75	0.00	1.10
TERRAZZO FINISHER	All	BLD		27.16	27.16	1.5	1.5	2.0	2.0	8.35	8.00	0.00	0.82
TERRAZZO MASON	All	BLD		32.66	32.66	1.5	1.5	2.0	2.0	8.35	9.20	0.00	0.91
TRUCK DRIVER	All	ALL	1	39.96	44.32	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	ALL	2	40.54	44.32	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	ALL	3	40.86	44.32	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	ALL	4	41.21	44.32	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	ALL	5	42.32	44.32	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	O&C	1	31.97	35.46	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	O&C	2	32.43	35.46	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	O&C	3	32.69	35.46	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
TRUCK DRIVER	All	O&C	4	32.97	35.46	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25

1.80

TRUCK DRIVER	All	O&C	5	33.86	35.46	1.5	1.5	2.0	2.0	14.02	7.14	0.00	0.25
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**Legend**

**Rg** Region

**Type** Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers

**C** Class

**Base** Base Wage Rate

**OT M-F** Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.

**OT Sa** Overtime pay required for every hour worked on Saturdays

**OT Su** Overtime pay required for every hour worked on Sundays

**OT Hol** Overtime pay required for every hour worked on Holidays

**H/W** Health/Welfare benefit

**Vac** Vacation

**Trng** Training

**Other Ins** Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations ST. CLAIR COUNTY

LABORERS (NORTH) - The area bounded by Route 159 to a point south of Fairview Heights and west-southwest to Route 3 at Monroe County line.

PLUMBERS & PIPEFITTERS (SOUTHEAST) - That part of the county bordered by Rt. 50 on the North and West including Belleville.

PLUMBERS (NORTHWEST) - Towns of Alorton, Brooklyn, Cahokia, Caseyville, Centreville, Dupo, East Carondelet, E. St. Louis, Fairview Heights, French Village, National City, O'Fallon, Sauget, and Washington Park.

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

Oil and chip resealing (O&C) means the application of road oils and liquid asphalt to coat an existing road surface, followed by application of aggregate chips or gravel to coated surface, and subsequent rolling of material to seal the surface.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date.

ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER AND MARBLE FINISHER

The handling, at the building site, of all sand, cement, tile, marble or stone and all other materials that may be used and installed by [a] tile layer or marble mason. In addition, the grouting, cleaning, sealing, and mixing on the job site, and all other work as

required in assisting the setter. The term "Ceramic" is used for naming the classification only and is in no way a limitation of the product handled. Ceramic takes into consideration most hard tiles.

#### ELECTRONIC SYSTEMS TECHNICIAN

Installation, service and maintenance of low-voltage systems which utilizes the transmission and/or transference of voice, sound, vision, or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, background/foreground music, intercom and telephone interconnect, field programming, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school, intercom and sound burglar alarms and low voltage master clock systems.

Excluded from this classification are energy management systems, life safety systems, supervisory controls and data acquisition systems not intrinsic with the above listed systems, fire alarm systems, nurse call systems and raceways exceeding fifteen feet in length.

#### OPERATING ENGINEER - BUILDING

GROUP I. Cranes, Dragline, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines or Backfiller, Cherrypickers, Overhead Cranes, Roller - Steam or Gas, Concrete Pavers, Excavators, Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than Derrick Type), Mud Jacks, or Well Drilling Machines, Boring Machines or Track Jacks, Mixers, Conveyors (Two), Air Compressors (Two), Water Pumps regardless of size (Two), Welding Machines (Two), Siphons or Jets (Two), Winch Heads or Apparatuses (Two), Light Plants (Two), All Tractors regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (One), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, self-propelled concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair and greasing of all diesel hammers, the operation and set-up of bidwells, water blasters of all sizes and their clutches, hydraulic jacks where used for hoisting, operation of log skidders, iceolators used on and off of pipeline, condor cranes, bow boats, survey boats, bobcats and all their attachments, skid steer loaders and all their attachments, creter cranes, batch plants, operator (all sizes), self propelled roto mills, operation of conveyor systems of any size and any configuration, operation, repair and service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, Nail launchers when mounted on a machine or self-propelled, operation of con-cover machines, and all Operators except those listed below).

GROUP II. Assistant Operators.

GROUP III. Air Compressors (One), Water Pumps, regardless of Size (One), Waterblasters (one), Welding Machine (One), Mixers (One Bag), Conveyor (One), Siphon or Jet (One), Light Plant (One), Heater (One), Immobile Track Air (One), and Self Propelled Walk-Behind Rollers.

GROUP IV. Asphalt Spreader Oilers, Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler, and Creter Crane Oiler (when required).

GROUP V. Oiler.

GROUP VI. Operators on equipment with Booms, including jibs, 100 feet and over, and less than 150 feet long.

GROUP VII. Operators on equipment with Booms, including jibs, 150 feet and over, and less than 200 feet long.

GROUP VIII. Operators on Equipment with Booms, including jibs, 200 feet and over; Tower Cranes; and Whirlie Cranes.

GROUP IX. Master Mechanic

OPERATING ENGINEERS - Highway

GROUP I. Cranes, Dragline, Shovels, Skimmer Scoops, Clamshells or Derrick Boats, Pile Drivers, Crane-Type Backhoes, Asphalt Plant Operators, Concrete Plant Operators, Dredges, Asphalt Spreading Machines, All Locomotives, Cable Ways or Tower Machines, Hoists, Hydraulic Backhoes, Ditching Machines or Backfiller, Cherrypickers, Overhead Cranes, Roller - Steam or Gas, Concrete Pavers, Excavators, Concrete Breakers, Concrete Pumps, Bulk Cement Plants, Cement Pumps, Derrick-Type Drills, Boat Operators, Motor Graders or Pushcats, Scoops or Tournapulls, Bulldozers, Endloaders or Fork Lifts, Power Blade or Elevating Graders, Winch Cats, Boom or Winch Trucks or Boom Tractors, Pipe Wrapping or Painting Machines, Asphalt Plant Engineer, Journeyman Lubricating Engineer, Drills (other than Derrick Type), Mud Jacks, Well Drilling Machines, Boring Machines, Track Jacks, Mixers, Conveyors (Two), Air Compressors (Two), Water Pumps regardless of size (Two), Welding Machines (Two), Siphons or Jets (Two), Winch Heads or Apparatuses (Two), Light Plants (Two), All Tractors regardless of size (straight tractor only), Fireman on Stationary Boilers, Automatic Elevators, Form Grading Machines, Finishing Machines, Power Sub-Grader or Ribbon Machines, Longitudinal Floats, Distributor Operators on Trucks, Winch Heads or Apparatuses (One), Mobil Track air and heaters (two to five), Heavy Equipment Greaser, Relief Operator, Assistant Master Mechanic and Heavy Duty Mechanic, self-propelled concrete saws of all types and sizes with their attachments, gob-hoppers, excavators all sizes, the repair and greasing of all diesel hammers, the operation and set-up of bidwells, water blasters of all sizes and their clutches, hydraulic jacks where used for hoisting, operation of log skidders, iceolators used on and off of pipeline, condor cranes, bow boats, survey boats, bobcats and all their attachments, skid steer loaders and all their attachments, creter cranes, batch plants, operator (all sizes), self propelled roto mills, operation of conveyor systems of any size and any configuration, operation, repair and service of all vibratory hammers, all power pacs and their controls regardless of location, curtains or brush burning machines, stump cutter machines, Nail launchers when mounted on a machine or self-propelled, operation of con-cover machines, and all Operators (except those listed below).

GROUP II. Assistant Operators.

GROUP III. Air Compressors (One), Water Pumps, regardless of Size (One), Waterblasters (one), Welding Machine (One), Mixers (One Bag), Conveyor (One), Siphon or Jet (One), Light Plant (One), Heater (One), Immobile Track Air (One), and Self Propelled Walk-Behind Rollers.

GROUP IV. Asphalt Spreader Oilers, Fireman on Whirlies and Heavy Equipment Oilers, Truck Cranes, Dredges, Monigans, Large Cranes - (Over 65-ton rated capacity) Concrete Plant Oiler, Blacktop Plant Oiler, and Creter Crane Oiler (when required).

GROUP V. Oiler.

GROUP VI. Operators on equipment with Booms, including jibs, 100 feet and over, and less than 150 feet long.

GROUP VII. Operators on equipment with Booms, including jibs, 150 feet and over, and less than 200 feet long.

GROUP VIII. Operators on Equipment with Booms, including jibs, 200 feet and over; Tower Cranes; and Whirlie Cranes.

GROUP IX. Mechanic

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION Class 1. Drivers on 2 axle trucks hauling less than 9 ton. Air compressor and welding machines and brooms, including those pulled by separate units, truck driver helpers, warehouse employees, mechanic helpers, greasers and tiremen, pickup trucks when hauling materials, tools, or workers to and from and on-the-job site, and fork lifts up to 6,000 lb. capacity.

Class 2. Two or three axle trucks hauling more than 9 ton but hauling less than 16 ton. A-frame winch trucks, hydrolift trucks,



vactor trucks or similar equipment when used for transportation purposes. Fork lifts over 6,000 lb. capacity, winch trucks, four axle combination units, and ticket writers.

Class 3. Two, three or four axle trucks hauling 16 ton or more. Drivers on water pulls, articulated dump trucks, mechanics and working forepersons, and dispatchers. Five axle or more combination units.

Class 4. Low Boy and Oil Distributors.

Class 5. Drivers who require special protective clothing while employed on hazardous waste work. TRUCK DRIVER - OIL AND CHIP RESEALING ONLY.

This shall encompass laborers, workers and mechanics who drive contractor or subcontractor owned, leased, or hired pickup, dump, service, or oil distributor trucks. The work includes transporting materials and equipment (including but not limited to, oils, aggregate supplies, parts, machinery and tools) to or from the job site; distributing oil or liquid asphalt and aggregate; stock piling material when in connection with the actual oil and chip contract. The Truck Driver (Oil & Chip Resealing) wage classification does not include supplier delivered materials.

#### TERRAZZO FINISHER

The handling of all materials used for Mosaic and Terrazzo work including preparing, mixing by hand, by mixing machine or transporting of pre-mixed materials and distributing with shovel, rake, hoe, or pail, all kinds of concrete foundations necessary for Mosaic and Terrazzo work, all cement terrazzo, magnesite terrazzo, Do-O-Tex terrazzo, epoxy matrix ter-razzo, exposed aggregate, rustic or rough washed for exterior or interior of buildings placed either by machine or by hand, and any other kind of mixture of plastics composed of chips or granules when mixed with cement, rubber, neoprene, vinyl, magnesium chloride or any other resinous or chemical substances used for seamless flooring systems, and all other building materials, all similar materials and all precast terrazzo work on jobs, all scratch coat used for Mosaic and Terrazzo work and sub-bed, tar paper and wire mesh (2x2 etc.) or lath. The rubbing, grinding, cleaning and finishing of same either by hand or by machine or by terrazzo resurfacing equipment on new or existing floors. When necessary finishers shall be allowed to assist the mechanics to spread sand bed, lay tarpaper and wire mesh (2x2 etc.) or lath. The finishing of cement floors where additional aggregate of stone is added by spreading or sprinkling on top of the finished base, and troweled or rolled into the finish and then the surface is ground by grinding machines.

#### Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

#### LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

## STANDARD SPECIFICATIONS

(Reference)

- 1) **The Standard Specifications for Road and Bridge Construction**, referred to herein are those prepared by the Department of Transportation of the State Illinois, Adopted January 1, 2022.
- 2) **The Standard Specifications for Water and Sewer Main Construction in Illinois**, July 2009, Sixth Edition, referred to herein, are those prepared by the Standards Specifications Committee and distributed by the Illinois Society of Professional Engineers.
- 3) Any reference to ASTM Designations refers to Standards and Specifications of the American Society for Testing and Materials, latest edition.
- 4) General Conditions, Article 19, Payments to Contractor Subarticle 19.1, that portion of Article 19.1 which states the owner will, within 10 days of presentation to him of an approved partial payment estimate, pay the approved partial payment estimate. That reference to 10 days shall be changed to read 60 days, thus, the Owner will pay the Contractor within 60 days upon receipt of an approved partial payment estimate from the engineer pending receipt of funds from the funding agency.
- 5) The Detailed Specifications contained herein shall supplement these specifications; and, in case of conflict, the Detailed Specifications shall take precedence and shall govern.
- 6) Any reference to measurement and payment within cited references shall not apply.

### INDEX OF PLANS

1	Cover Sheet & General Notes
2	Plan & Profile (320 N. 82 <sup>nd</sup> Street)
3	Lift Station Details (320 N. 82 <sup>nd</sup> Street)
4	Plan & Profile (352 N. 82 <sup>nd</sup> Street)
5	Lift Station Details (352 N. 82 <sup>nd</sup> Street)
6	Detailed Plans
7	Miscellaneous Details
8	Electrical Details

All plan sheets are bound herein

LIFT STATION REHABILITATION  
TWO LOCATIONS  
CAHOKIA HEIGHTS

CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT – 21WWCTIRR01

**APPENDIX E**

RISK PLAN

The following have been identified as risks to a successful project completion under the IEPA grant, along with how these risks will be mitigated. See attached spreadsheet.

CITY OF CAHOKIA HEIGHTS, IL  
 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
 WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
 REHABILITATION AND RESTORATION PROJECT - 21WWCTIR01

<u>RISK</u>	<u>RESPONSE AND MITIGATION ACTIONS</u>
Lack of competitive bids	pre-bid program to include contractor solicitation to encourage participation via advertisements in industry trade publications and contractor bulletins, phone calls, meetings, etc
Cost escalations above estimates	build contingencies into estimates and expedite designs and awards asap
Changes in scope and cost	thorough field investigations and surveys to produce complete plans
Delays in equipment deliveries	active construction administration to anticipate issues and review progress weekly
Performance or quality issues	contract administration by engineer to review changes and make recommendations to City and IEPA
	build contingencies into estimates and expedite designs, awards, shop drawing review, and other approvals asap
	active construction administration to anticipate issues and review progress weekly
	corrective actions required of contractors as needed
	warranties required for material and workmanship
	lien waivers required for all contractors and suppliers prior to payment for work
	performance and payment bonds required of contractors

CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT – 21WWCTIRR01

**APPENDIX F**

ASSUMPTION LOG

The following are the design assumptions used by the City's consultant to assemble the grant application and implementation plan for successful project completion under the IEPA grant. See attached spreadsheet.

CITY OF CAHOKIA HEIGHTS, IL  
 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
 WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
 REHABILITATION AND RESTORATION PROJECT - 21WWCTIRR01

**ASSUMPTION LOG**

1	Lift Stations rehab and sewer repairs to be accomplished using Standard Specifications for Water and Sewer Main Construction in Illinois as a baseline along with the Standard Specifications for Road and Bridge Construction in Illinois
2	Conventional construction materials and methods are to be used
3	New lift stations to utilize submersible pumps and external valve vaults, with flow metering option
4	Sewer repairs to also include cleaning, televising and CIPP of adjacent sewer reaches
5	Excavations for sewer repairs or new structures will require dewatering wells for groundwater
6	Multiple contractors and contracts will be required simultaneously to complete scope of grant on time
7	Enough qualified contractors are available to ensure competitive bidding
8	IEPA construction & operating permits for new lift stations, etc. are approved in 60 days or less
9	Project funding is available to support the project timeline
10	Material & equipment fabrication & deliveries are sufficient to support the project schedule

CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT– 21WWCTIRR01

**APPENDIX G**

UP-FRONT PAYMENT SCHEDULE

CAHOKIA HEIGHTS - IEPA Wastewater Grant Up-Front Payment Request Plan - revised March 2023

ITEM	SUBTOTALS	COST	TIME FRAME of EXPENDITURE
Outreach Program (approx 50% of total for entire project)		\$ 56,000.00	upon approval through first year of project
Equipment Purchases			
Portable pumps (2)	\$ 80,000.00	\$ 100,000.00	upon approval with delivery TBD, target first 6 mo.
CCTV equipment	\$ 20,000.00		
Engineering (approx 50% of total for entire project)		\$ 627,550.00	upon approval through first year of project
Construction			upon approval and award, during first year of project
Trunkline CIPP USACOE Project		\$ 1,167,750.00	local share of federal grant (25% of \$4,667,000)
Sewer Line and Pump Station Repairs		\$ 460,000.00	during 2023-2024
Piat Place Pump Stations and Sewer Break	\$ 140,000.00		
Beachland Place Pump Station Rehab	\$ 140,000.00		
63rd and Laura Ave Pump Station Rehab	\$ 40,000.00		
327 N 63rd St. Sewer Break	\$ 140,000.00		
DePaul Gardens Pump Stations and Sewer Break			
305 St. John Drive (DePaul)	\$ 140,000.00		
<b>TOTAL</b>		<b>\$ 2,411,300.00</b>	



CITY OF CAHOKIA HEIGHTS, IL  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
WASTEWATER COLLECTION AND TRANSPORT INFRASTRUCTURE  
REHABILITATION AND RESTORATION PROJECT– 21WWCTIRR01

**APPENDIX H**

OVERALL PROJECT SCHEDULE

