

Regular City Council Meeting Crest Hill, IL January 20, 2025 7:00 PM

Council Chambers 20600 City Center Boulevard, Crest Hill, IL 60403

Agenda

Opening of Meeting:

Pledge of Allegiance

Roll Call

1. Conduct A Public Hearing with Respect to an Alternative Water Source Distribution System Improvements-Amended PEID

Minutes:

2. Approve the Minutes from the Regular Meeting Held on January 6, 2025

City Attorney:

3. Approve an Ordinance Amending Section 12.36.020 (Settlement) of Chapter 12.36 (Mailboxes of Title 12 (Streets and Sidewalks)) of the City of Crest Hill Code of Ordinances

City Administrator:

4. Consideration of Cameras in the Workplace Policy – Employee Handbook Addition (Revised per Discussion – January 13, 2025)

Public Works Department:

5. Approve the Emergency Work Shown in Change Order 8 with Vissering Construction Company to Complete the Work to Structure 60- Existing Excess Flow Clarifier to Transfer Material from the West STP Plant to the East STP Plant not to Exceed an Amount of \$55,757.00

The Agenda for each regular meeting and special meeting (except a meeting held in the event of a bona fide emergency, rescheduled regular meeting, or any reconvened meeting) shall be posted at the City Hall and at the location where the meeting is to be held at least forty-eight (48) hours in advance of the holding of the meeting. The City Council shall also post on its website the agenda for any regular or special meetings. The City Council may modify its agenda for any regular or special meetings. The City Council may modify its agenda before or at the meeting for which public notice is given, provided that, in no event may the City Council act upon any matters which are not posted on the agenda at least forty-eight (48) hours in advance of the time for the holding of the meeting.

City Engineer:

- <u>6.</u> Approve a Resolution Approving a Construction Agreement for 2024 Sanitary Cleaning and Televising by and between the City of Crest Hill, Will County, Illinois and Hoeer Construction, Inc. for an Amount of \$89,760.00
- 7. Approve a Resolution Approving a Construction Agreement for Ludwig Water Main Replacement from Center to Cora by and between the City of Crest Hill, Will County Illinois and Len Cox & Sons Excavating
- 8. Approve a Resolution Approving an Engagement Letter by and between the City of Crest Hill, Will County, Illinois and Chapman and Cutler, LLP (for Funding through the Water Pollution Control Loan Program as Administered by the IEPA for the Capital Projects Required for the City's Switch to Lake Michigan Water Supply for a not to Exceed an Amount of \$20,000.00)

Community Development:

Police Department:

Mayor's Report:

 Approve a Resolution Honoring Jason F. Opiola on his Retirement as Deputy Chief of the City of Crest Hill Police Department

City Clerk's Report:

City Treasurer's Report:

- 10. Approval of the List of Bills Issued through January 21, 2025, in the Amount of \$2,578,886.75
- 11. Regular and Overtime Payroll from December 30, 2024 to January 12, 2025 in the Amount of \$270,101.32

New Business:

Committee/Liaison Reports:

Unfinished Business:

City Council Comments:

Public Comment:

Executive Session: If Called by Council for a Good Cause

12. Executive Session Pursuant to 5ILCS 120/2(c)(8) Security Procedures

Adjourn:



Agenda Memo

Crest Hill, IL

Meeting Date: January 20, 2025

Submitter: Ronald J Wiedeman

Department: Engineering

Agenda Item: (Public Hearing) Alternative Water Source Distribution System Improvements-Amended

PEID.

Summary: As required by the IEPA, the City of Crest Hill is having a public hearing tonight to present the City proposed "Alternative Water Source Distribution System Improvements-Amended Preliminary Environmental Impacts Determination (PEID)".

Illinois Procedures for Issuing loans from the Public Water Supply Loan Program requires that the Illinois Environmental Protection Agency conduct an assessment of the environmental impacts of the proposed improvements. As part of this approval process the City is required to solicit the public's comments regarding the environmental impacts of the proposed improvement.

Strand and Associates will provide a brief description of the project. Once completed, the floor will be open to the public so the city can solicit comments. These comments will be recorded and sent to the IEPA for review.

If comments are not provided here tonight, they can be sent to Chris Covert, Project Manager, Infrastructure Financial Assistance Section, Illinois Environmental Protection Agency Bureau of Water, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 or Ronald J Wiedeman P.E., City Engineer, City of Crest Hill 20600 City Center Boulevard Crest Hill, IL 60403, email: rwiedeman@cityofcresthill.com

For further information, contact Chris Covert, IEPA project manager at 217-782-2027.

Comments period will close at the end of business on January 31, 2025.

Recommended Council Action: n/a

Financial Impact:

Funding Source: n/a
Budgeted Amount: n/a

Cost: n/a

Attachments:

IEPA Amended PEID Notice 11-26-2024

Microsoft PowerPoint-1.2025 PEID Public Meeting Presentation

Item 1.



1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397

JB PRITZKER, GOVERNOR

JAMES JENNINGS, ACTING DIRECTOR

Amended Project Summary and Preliminary Environmental Impacts Determination

Date:

NOV 2 6 2024

Loan Applicant: City of Crest Hill

IEPA Loan Project Numbers: L176383, 6384,

6385, 6386, 7147

To all interested persons:

Section 662.330 of the Illinois Procedures for Issuing Loans from the Public Water Supply Loan Program requires that the Illinois Environmental Protection Agency (IEPA) conduct an assessment of the environmental impacts of proposed public water supply projects to be funded with loans. This review is carried out in conjunction with the State's review of the applicant's project plan.

Prior to final approval of the project plan, the public's comments are sought regarding environmental impacts of the proposed project. Unless new information obtained through the public comment process causes reconsideration, the Agency will approve the project plan at the close of the public comment period.

The applicant will make the attached Project Summary and Preliminary Environmental Impacts Determination (PEID) available for public inspection. After receiving this letter, the loan applicant must conduct a public hearing regarding both the PEID and project planning. Advertisement of the hearing must be made at least 10 days in advance. The advertisement must include the purpose of the project along with the date, time, and location of the hearing. A comment period of at least 10 days shall be provided after the hearing in which written comments may be submitted to the loan applicant or to the IEPA contact person identified in the attached document.

Your participation in this process is appreciated.

Sincerel

Gary Bingenheimer, P

Infrastructure Financial Assistance Section

Bureau of Water

GB:CC:N:\Crest Hill L176383-6385 Amended PEID

Attachment

Amended Project Summary and Preliminary Environmental Impacts Determination (PEID)

The following amended project summary and environmental assessment has been prepared by the IEPA to assist the loan applicant in complying with the public notice requirements. This is an amendment to the PEID which was originally issued September 19, 2023. This report is based on additional information submitted to the IEPA by the City of Crest Hill. Sources of information include the following documents: Alternative Water Source Distribution System Improvements – Receiving Station and Ground Level Storage Tank (GLST), dated July 11, 2024 and prepared by Strand Associates, Inc and the IEPA Loan Applicant Environmental Checklist and Certification Form with associated consultations, also dated July 11, 2024.

Part I – Project Information

Project Name: Alternative Water Source Distribution System Improvements

Project Numbers: L176383, 6384, 6385, 6386, 7147

Loan Applicant: City of Crest Hill County: Will

Current Population: 21,169 Future Population (2050): 21,169

Number of Service Connections: 5,882

Project Description: The City of Crest Hill is proposing various water distribution system improvements in order to transfer to a treated Lake Michigan water supply. Activities include the lining of approximately 15,575 lineal feet of 8 to 12-inch diameter watermain and the addition of a 3.5 million gallon storage standpipe and associated pump station (Eastern Receiving and Pumping Station). This work will be conducted in five phases. Phase I (L176384) will consist of the first of four watermain lining events. Phase II (L176383) will consist of the construction of the standpipe and Eastern Receiving and Pump Station. Phases III (L176385), IV (L176386), and V (L177147) will consist of the remaining watermain lining events.

For L176383, the amended plan consists of the additional construction of a 23-foot by 33-foot above grade structure, referred to as the Western Receiving Station, to meter and add disinfection chemicals to the water received from the Grand Prairie Water Commission before it is sent to the western Low Pressure Zone for residential consumption.

Project Location: See attached map.

Project Justification: The City's residents currently receive drinking water from 8 shallow wells. In order to meet future demands, the City has decided to join a regional water commission, the Grand Prairie Water Commission (GPWC), to supply its residents with water from Lake Michigan by 2030. The activities proposed in the project plan will ensure a safe water supply through 2030 and provide the transition to the Lake Michigan water source.

While the initial plan proposed receiving water directly to the previously approved Eastern Receiving and Pumping Station, computerized modeling shows that constructing another supply location in the area of the proposed Western Receiving Station will maintain adequate flow and pressure without the use of additional pumps, thus saving energy and simplifying the operation of the system.

Estimated Construction Start Date: Spring 2025

Estimated Construction Completion Date: Winter 2028

Project Cost Estimate: Phase I L176384 - \$4,000,000; Phase II L176383 - \$17,500,000; Phases III through V - \$4,000,000

Part II - Environmental Issues Associated with the Project

Project construction impacts: Temporary adverse environmental impacts such as construction-associated noise, blowing dust, air emissions, soil erosion, and traffic disruption will likely occur during construction.

Illinois Department of Natural Resources: The City submitted project information to the Illinois Department of Natural Resources (IDNR), State Historic Preservation Office (SHPO), for consultation under Section 106 of the National Historic Preservation Act of 1966. The Department has concluded that adverse effects are unlikely.

The City also submitted project information to IDNR EcoCAT website to determine compliance with the Illinois Endangered Species Act, Illinois Natural Areas Preservation Act (Section 17 Ill. Administrative Code Part 1075), and the Illinois Wetlands Act (Section 17 Ill. Administrative Code Part 1090). The Department has concluded that adverse effects are unlikely.

The City submitted project information to the IDNR Office of Water Resources (OWR) for consultation for project activities which may be occurring in regulatory floodways. The Department has concluded that the new pump station is located outside the floodway of Railroad Creek, therefore it does not require an IDNR/OWR permit. The new watermain construction and watermain replacement do not require an IDNR/OWR permit because Railroad Creek has a drainage area of less than one square mile at the project sites. The lining to the existing watermain located within the designated floodways of Rock Run North, St. Francis Academy Creek, and St. Anne School Tributary is considered maintenance and repair to an existing structure and is exempt from needing an IDNR/OWR permit.

Department of the Army, Corps of Engineers: The City submitted project information to the U.S. Army Corps of Engineers (USACE) for consultation under Section 404 of the Clean Water Act. The Department was unable to make a clear determination as to whether a Nationwide Permit 58 would apply. According to the USACE September 2, 2022 letter, "Upon a map review of your project zones, there could be at least eight possible "Waters of the US" within the proposed construction area. You may choose to have a wetland delineation completed for your project area to help determine if these aquatic resources could be avoided during construction. Any disturbance

or placement of fill material in jurisdictional wetlands or rivers may require a permit from this office under Section 404 of the Clean Water Act. If all rivers and wetlands can be avoided in project construction, and utility line crossings are directionally bored underneath aquatic resources, it is possible that no permit would be required from this office. If impact to aquatic resources for your project area are unavoidable, your project would likely qualify for Nationwide Permit 58 _ Utility Line Activities for Water and Other Substances." A definitive consultation from USACE must be received prior to the the Agency issuing a loan agreement for any impacted phase(s) of the proposed projects to ensure any and all recommendations are contained in the construction plans and specifications.

Tribal Consultation: During Tribal Consultation for the project, ten tribes were contacted and invited to review and identify any potential properties that may have historical, religious, or cultural significance to their tribes. No tribes responded to the proposed project with concerns.

Part III - Project Affordability for Residents and Utility Customers

The City is proposing to finance the project costs with a loan from the Public Water Supply Loan Program (PWSLP). For Phase I L176384, Phase III L176385, Phase IV L176386, and Phase V L177147, a \$4,000,000 loan with an interest rate of 1.87% for a twenty (20) year period would have an annual repayment of approximately \$239,880. For Phase II L176384, a \$17,500,000 loan with an interest rate of 1.87% for a twenty (20) year period would have an annual repayment of approximately \$1,049,474. The current loan program interest rate is 1.87%.

The loan program rules include provisions for incentives such as reduced interest rates, partial principal forgiveness, and extended repayment periods for qualifying applicants. The criteria used to determine incentive qualification are found in Section 662.210 and 662.250 of the Procedures for Issuing Loans from the PWSLP, which is available on the Agency's website. The final decision for incentive qualification will be determined at the time a loan agreement is issued, using updated Census Bureau and Department of Labor data. Using current data, the City is eligible to receive the small community interest rate, partial principal forgiveness, and a 30-year loan term. Principal forgiveness is not guaranteed until a loan agreement is issued. The final loan and annual repayment amounts will be based on the as-bid project costs, and the loan terms in effect on the date the loan agreement is issued. A rate increase is not necessary to repay the loan.

Source of Loan Repayment: User fees.

Current Average Monthly Residential Water Use: 513 cubic feet

Current Average Monthly Residential Cost of Service: \$31.17

Projected Average Monthly Residential Cost of Service: \$31.17

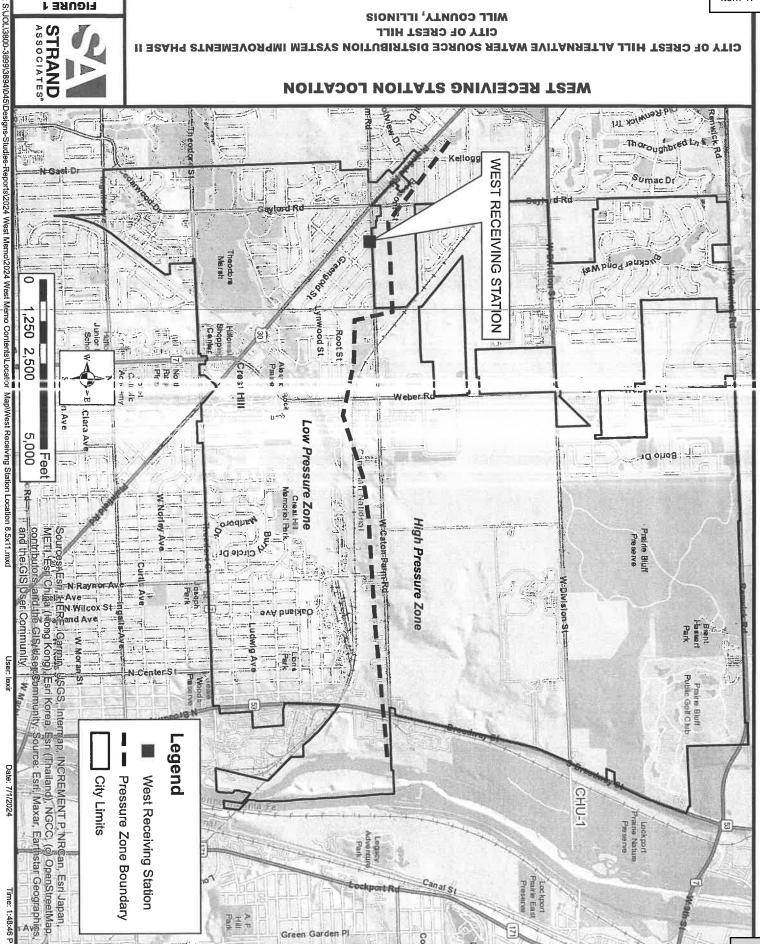
How the monthly residential rate/cost of service is calculated: The City's water customers are charged a flat fee of \$25.50 for the first 400 cubic feet of water used and \$5.02 per 100 cubic feet beyond the initial 400.

Median Household Income (MHI): \$68,377

Financial evaluation of the proposed project: To evaluate the costs of the proposed project for the community, a percentage comparison of the MHI to the average, annual cost for water service is utilized. The MHI listed above is from the current fiscal year's census information. The proposed annual cost of \$374.04 for service is 0.55% of the MHI for the City. This percentage is for comparison only and has no impacts on whether a project qualifies for funding from the IEPA. The percentage comparison and MHI are two of several criteria used to determine whether a loan project qualifies for interest rate reductions or principal forgiveness.

Public comments are invited on the proposed project. For further information, contact:

Chris Covert, Project Manager Infrastructure Financial Assistance Section Illinois Environmental Protection Agency Bureau of Water 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 (217)782-2027



ASSOCIATES* TRAND

3894.045

FIGURE 1

CITY OF CREST HILL CITY OF CREST HILL ALTERNATIVE WATER SOURCE DISTRIBUTION SYSTEM IMPROVEMENTS PHASE !!

МІГГ СОПИТУ, ІГГІИОІS

Item 1.

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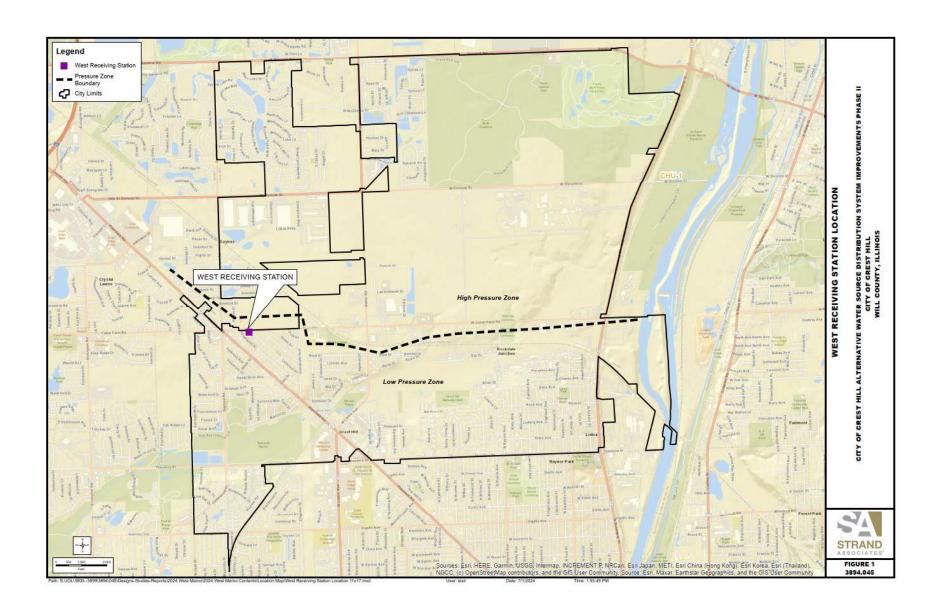
Preliminary Environmental Impacts Determination (PEID) for the Alternative Water Source Distribution System Improvements

Crest Hill, IL

Project Information

- Name: Alternative Water Source Distribution System Improvements
- Loan numbers: L17 6383, -6384, -6385, -6386, -7147
- Description
 - Caton Farm Road reinforcement watermain
 - Phase I of US 30 water main lining
 - Phase II through IV of US 30 water main lining
 - Eastern GPWC site 3.5 million gallon storage tank and a receiving and pumping station
 - Western GPWC site receiving and pumping station







Environmental Issues

Construction impacts

• Temporary impacts that include construction-associated noise, blowing dust, air emissions, soil erosion, and traffic disruption

Illinois Department of Natural Resources (IDNR)

- National Historic Preservation Act of 1966 concluded that adverse effects are unlikely
- Illinois Endangered Species Act concluded that adverse effects are unlikely
- Illinois Natural Areas Preservation concluded that adverse effects are unlikely
- Illinois Wetlands Act concluded that adverse effects are unlikely
- IDNR Office of Water Resources project is outside of floodway, no permit required

Department of Army, Corps of Engineers (USACE)

• Unable to make a clear determination on Nationwide Permit 58. If impact to aquatic resources can be avoided, there may be no permit requirement. If the impacts are unavoidable, the City would likely qualify for the Nationwide Permit 58. A wetland delineation could help determine if these aquatic resources can be avoided.

Tribal Consultation

• 10 tribes were contacted, no responses with concerns

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Item 1.

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Chris Covert, Project Manager Infrastructure Financial Assistance Section Illinois Environmental Protection Agency Bureau of Water 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 (217)782-2027

MINUTES OF THE REGULAR MEETING CITY COUNCIL OF CREST HILL WILL COUNTY, ILLINOIS January 6, 2025

The regular meeting of the City of Crest Hill was called to order by Mayor Raymond R. Soliman at 7:00 p.m. in the Council Chambers, 20600 City Center Boulevard, Crest Hill, Will County, Illinois.

The Pledge of Allegiance was recited in unison. Mayor Soliman asked for everyone to remain standing for a moment of silence for our 39th President of the United States, Jimmy Carter. He also asked for a moment of silence for a Crest Hill resident, Don Waller, who passed away on Sunday, December 29, 2024. He was a World War II Veteran and passed away at the age of 98 years old and was one of four World War II Veterans living in the City of Crest Hill.

Roll call indicated the following present: Mayor Raymond Soliman, City Treasurer Glen Conklin, City Clerk Christine Vershay-Hall, Alderman Scott Dyke, Alderwoman Jennifer Methvin, Alderman Darrell Jefferson, Alderwoman Claudia Gazal, Alderperson Tina Oberlin, Alderman Mark Cipiti, Alderman Nate Albert, Alderman Joe Kubal.

Also present were: Interim City Administrator Tony Graff, Police Chief Ed Clark, Finance Director Glenn Gehrke, City Engineer Ron Wiedeman, Community and Economic Development Director Patrick Ainsworth, City Attorney Mike Stiff.

Absent were: Interim Public Works Director Julius Hansen, Interim Human Resource Manager Dave Strahl, Interim Community Development Director Ron Mentzer.

<u>APPROVAL OF MINUTES</u>: Mayor Soliman presented the minutes from the Work Session Held on December 9, 2024, for Council approval per the memo dated January 6, 2025.

(#1) Motion by Alderwoman Gazal seconded by Alderman Albert, to Approve the Minutes from the Work Session Held on December 9, 2024, per the memo dated January 6, 2025. On roll call, the vote was:

AYES: Ald. Dyke, Methyin, Jefferson, Gazal, Oberlin, Cipiti, Albert, Kubal.

NAYES: None. ABSENT: None.

There being eight (8) affirmative votes, the MOTION CARRIED.

Mayor Soliman presented the minutes from the Regular Meeting Held on December 16, 2024, for Council approval per the memo dated January 6, 2025.

(#2) Motion by Alderman Albert seconded by Alderman Jefferson, to Approve the Minutes from Regular Meeting Held on December 16, 2024, per the memo dated January 6, 2025. On roll call, the vote was:

AYES: Ald. Jefferson, Gazal, Oberlin, Cipiti, Albert, Kubal, Dyke.

NAYES: None.

ABSTAIN: Ald. Methvin.

ABSENT: None.

There being seven (7) affirmative votes, the MOTION CARRIED.

<u>CITY ATTORNEY</u>: Attorney Stiff had no agenda items but was happy to answer any questions. There were no questions.

<u>CITY ADMINISTRATOR</u>: Interim City Administrator Tony Graff commented that Will County will remove the Kiosk located in the City Hall Foyer. There was an average of nineteen people that had used the kiosk and because of that Will County will be moving the kiosk to another location.

West Wastewater Treatment Plant:

There is a new process that is recommended for the West Wastewater Treatment Plant by IEPA with a Compliance Commitment Agreement. This was prepared by our consulting engineers who worked with the Interim Public Works Director Julian Hansen and this agreement was accepted by the IEPA.

There are three areas that need to be approved and two of them are already completed and they are working on the third, which is the Phosphorus Discharge Optimization Plan.

City Hall Outstanding Projects: (Note: No Updates – Short Staff Availability)

- a. Plumbing Sanitary Sewer Police Rest Rooms preparing to review proposals and scope of work with staff.
- b. Bullet Proof Windows "CRACKED" Clerks Office & Park District Office Preparing Bid Proposals Advertising. On Hold
- c. Storm Water Drainage Pipes Pipes were Televised, and the next step is to assess the damage and prepare proposal for repairs/replacement. (Planning to obtain update from DPW & Tony Halaska)
- d. New Panic Alarm Button System Installed in the Clerk's Office, City Council Room, Building Department...This system communicates an alarm directly to WesCom 911 Center. (Training to be provided by Deputy Chief Dobczyk)

Grand Prairie Water Commission "GPWC" (Lake Michigan Water Project): The next Board Meeting is January 9, 2025.

<u>STATEVILLE CORRECTIONAL CENTER</u> – Capital Development Board Update

• **Project 120-230-139 Bid Date:** Tuesday, December 10, 2024, 11:00 AM

Description: Demolish Buildings, Stateville Correctional Center

City: Crest Hill County: Will Trade: General- Remod & Rehab Estimate: Less than \$4,000,000.

Bid Type: Original

<u>Lockport Township Fire District Training Facility Proposed Project:</u> Pending the Traffic Study Report was completed and submitted to IDOT.

Post Critical Incident Debriefing with Lockport Township Fire Protection District response for services on 11/1/2024 at the BL Duke Scrap Metal Recycling Yard 2 Genstar Lane near Industry Avenue off Broadway Street (Unincorporated Will County). The meeting was held with City Staff and the Fire District on 11/19/2024. City DPW Staff are working with the Fire District preparing all activities related to costs which were incurred by the City including the use of water which was estimated to be 200,000 gallons. On component was identified as part of the debriefing which was direct communication between the Fire District and the DPW crew. The Police Chief is obtaining the costs for portable radios which can be compatible with all public safety agencies and E911 WesCom Center. A potential grant opportunity is being explored to purchase the radio upgrades.

<u>Job Announcements:</u> the Interim HR Director reviewed the job descriptions and created updated announcements for the following positions (the announcements have been posted on the city web site).

 BUILDING INSPECTOR ANOUNCEMENT: Announcement for the position is still pending continuing to accept applications and conduct interviews. Our Building Inspector, Don Seeman, went to Joliet Junior College to talk to the students in the Construction Program there and we have received a few resumes from students.

<u>Water Meter Replacement Project</u> – (ON-GOING) Non-Compliance property owners' appointments are progressing. 47 Property Owners remain to schedule water meter replacements.

<u>Places For Eating Tax</u> – Delinquent Businesses: The Hearing was conducted, and four businesses did not show, and one business complied. Additional citations have been issued. Beginning to explore other legal options to seek monetary judgement for non-payment.

<u>West Sanitary Sewer Treatment Project</u> – Nothing new to report, still on schedule for the plant to be completed in 2026 (60% Completed). Will keep everyone posted.

<u>State of Illinois Crime Lab/State Police Headquarters Project</u> – UPDATE – Nothing New to Report concept plan was presented to the city council work session on 11/5/2024 we will keep the council updated as information is received from the State.

Old City Hall Property Update: The target date to receive the application for the PUD Development Plan is Mid-January/February. Projected real estate contract closing date is May/June once the entitlement process is completed, per the contract. They would like to have the Plan Commission Hearing in April.

Alderperson Oberlin would like the City Council to be trained on the Panic Buttons as well. Interim Administrator Graff commented that the Council will be shown, as well and these buttons go directly to WESCOM.

Alderwoman Gazal asked why we never advertised to the residents that the kiosk was here for their use. Interim Administrator Graff commented that Will County was supposed to be advertising the kiosk.

Alderman Cipiti asked if the business that did not pay the eating tax for over a year was given a business license for 2024? Interim Administrator Graff commented that they were not given their business license in 2024. Alderman Cipiti asked what the procedure is for not paying the Places for Eating Tax for over a year and operating a business without a business license. Interim Administrator Graff commented that they would be taken to our Administrative Adjudication process. Alderman Cipiti commented that it is not fair to other business owners that you have a business not paying and operating for over a year.

Interim Administrator Graff commented that the Clerk needs to file a complaint with Code Enforcement for no business license. Clerk Vershay-Hall commented that Code Enforcement was notified about this business. She also commented that the business was ticketed, and they never showed up for the Administrative Hearing. It was said that they would gather information and bring this back to the Council.

Alderman Dyke asked if the Italian Cultural Club should be paying the Places for Eating Tax since they have dinners throughout the year. Interim Administrator Graff commented that he would research that and let him know.

Interim Administrator Tony Graff requested to Approve a Resolution Amending the Crest Hill Employee Handbook by Adding Section 9.8 Camera/Recording Devices in the Workplace per the memo dated January 6, 2025.

Alderman Cipiti would like this tabled until the January 13, 2025, work session to discuss further.

(#3) Motion by Alderman Cipiti seconded by Alderperson Oberlin, to TABLE the Approval of a Resolution Amending the Crest Hill Employee Handbook by Adding Section 9.8 Camera/Recording Devices in the Workplace per the memo dated January 6, 2025. On roll call, the vote was:

AYES: Ald. Jefferson, Gazal, Oberlin, Cipiti, Albert, Kubal, Dyke, Methvin.

NAYES: None. ABSENT: None.

There being eight (8) affirmative votes, the MOTION CARRIED.

Alderman Dyke apologized for not making the 'Meet and Greet' for the new employee Patrick Ainsworth. He could not attend since it was the day after Christmas and bad timing.

Alderman Dyke then commented that the Monday work session after Christmas was canceled, and he does not see why if we can have a 'Meet and Greet' the day after Christmas why we could not have a work session before the new year. He also commented that he feels we should have a work session before the new year.

Alderman Dyke also commented that many mailboxes were damaged with plowing and wondered why we could not look into swing away mailbox. He then commented that he has given this information to past Public Work Directors, and it has never been discussed.

Alderman Dyke asked if the Council, Human Resource Manager, and the City Attorney can look into how the Council is paid for the meetings attended and the attendance of the Council since they already looked into Plan Commission and Civil Service and feels the Council should be looked at as well.

Alderman Cipiti and Alderwoman Gazal would like to discuss the mailboxes that were damaged at the next work session on January 13th. Alderwoman Gazal also asked if these mailboxes are being replaced and if this employee went to a training. Interim Administrator Graff commented that two mailboxes have been replaced already, and this employee did go to a training after this incident.

<u>PUBLIC WORKS DEPARTMENT</u>: Mayor Soliman requested Approval of Pay Request #24 from Vissering Construction Inc. with Direction to Send it to the IEPA for Approval and Disbursement for a Total Amount of \$1,003,207.98 per the memo dated January 6, 2025.

(#4) Motion by Alderperson Oberlin seconded by Alderman Albert, to Approve Pay Request #24 from Vissering Construction Inc. with Direction to Send it to the IEPA for Approval and Disbursement for a Total Amount of \$1,003,207.98 per the memo dated January 6, 2025.

On roll call, the vote was:

AYES: Ald. Gazal, Oberlin, Cipiti, Albert, Kubal, Dyke, Methvin, Jefferson.

NAYES: None. ABSENT: None.

There being eight (8) affirmative votes, the MOTION CARRIED.

<u>CITY ENGINEER:</u> City Engineer Ron Wiedeman had no agenda items but wanted to let the Council know that we are just waiting on ComEd to hook up the service to the two city signs, on Weber and the other on Broadway. The job is complete on our end, but ComEd must hook up the service.

Alderperson Oberlin asked if anyone found anything out about the mutilated box on Theodore. Engineer Wiedeman commented that he has contacted AT&T, and they are aware of this, and it is on the schedule to be replaced but no date was provided.

Alderperson Oberlin also commented that she received phone calls saying that when the areas were dug up to place these signs, the Crest Hill Woman's Civic League sign was trashed into a pile and not replaced and would like this investigated. She then commented that the Woman's Civic League paid for these signs, and they should not be trashed and there was a total of seven (7) signs.

<u>COMMUNITY DEVELOPMENT</u>: Mayor Soliman introduced the new Community and Economic Development Director Patrick Ainsworth.

Community and Economic Development Director Patrick Ainsworth greeted everyone and commented that he looks forward to meeting everyone individually and he is happy to be of assistance to the community.

Many Council members welcomed Patrick and commented that they are looking forward to working with him.

<u>POLICE DEPARTMENT</u>: Police Chief Ed Clark had no agenda items but wanted to thank all who participated giving Christmas Cheer to families that could use some help this year. The presents were delivered on December 23, 2024. He again thanked all the employees for their donations.

He also announced that March 18, 2025, will be a blood drive from 9:00 a.m. until 2:00 p.m. Please sign up and give blood.

Alderman Dyke asked for an update with all the buses that are in disarray at the Oakland Avenue bus garage. Chief Clark commented that he would meet with the Building Commissioner and see what they can do, since they should not be storing things there.

Alderman Cipiti asked about the semis that are being parked behind the Gas N Wash on Weber and Division and wondered if there is any enforcement that can be done to monitor the parked semis. Chief Clark commented that they are looking into having an ordinance to help this and it is in the works.

Alderwoman Gazal commented that she does not see a problem with the semis there to rest for a couple of hours, eat and gamble but it can be a problem if this happens overnight.

Alderman Jefferson commented that he is in there often and has talked with many drivers and most of the drivers are in there eating and playing the slot machines. He also commented that many of them are taking a break inside there or inside their truck because they have driven their hours and cannot go anywhere, and he does not see anyone really hanging around there. Chief Clark commented that he understands but we do not want this to become a truck parking lot, where they park and go somewhere else and come back in a couple of days and it could turn into that.

MAYOR'S REPORT: Mayor Soliman commented that all thirty-nine (39) liquor licenses have been completed and paid for and the one business that Council was notified about on Renwick Road did make payment to LocalGov on December 31, 2024. This business was allowed to stay open but not serve alcohol until everything was funded through the banking system.

There are nineteen (19) video gaming licenses, and they have all been completed and paid.

There are twenty (20) tobacco licenses that have been completed and paid.

The one (1) BYOB Permit has also been completed and paid.

Mayor Soliman thanked the business owners for their cooperation, and he also thanked his two Deputy Liquor Commissioners, the Treasurer's Office, the Clerk's Office, and his assistant Marybel DeHaro.

<u>CITY CLERK</u>: City Clerk Christine Vershay-Hall commented that she has nothing to report.

<u>CITY TREASURER</u>: City Treasurer Glen Conklin requested to Approve the List of Bills Issued Through January 7, 2025, in the Amount of \$627,774.77 per the memo dated January 6, 2025.

(#5) Motion by Alderperson Oberlin, seconded by Alderman Dyke, to Approve the list of bills issued through January 7, 2025, in the amount of \$627,774.77 for Council approval per the memo dated January 6, 2025.

On roll call, the vote was:

AYES: Ald. Cipiti, Albert, Kubal, Dyke, Methvin, Jefferson, Gazal, Oberlin.

NAYES: None ABSENT: None.

There being eight (8) affirmative votes, the MOTION CARRIED.

City Treasurer Glen Conklin presented the Regular and Overtime Payroll from December 2, 2024, through December 15, 2024, in the amount of \$282,226.76 per the memo dated January 6, 2025.

City Treasurer Glen Conklin presented the Additional Regular and Overtime Payroll from December 16, 2024, through December 29, 2024, in the amount of \$277,643.91 per the memo dated January 6, 2025.

City Treasurer Glen Conklin presented the Additional Payroll for Kim Linden Retro Pay in the Amount of \$866.40 per the memo dated January 6, 2025.

UNFINISHED BUSINESS: There was no unfinished business.

<u>NEW BUSINESS</u>: Alderman Jefferson commented that he received a call from a resident, and they had an issue with water pressure, and they had called Public Works and could not get an answer. He then commented that he called Public Works and received a recording that that person was out of the office from December 20, 2024, until January 2, 2025, which then he directed the resident to call City Hall. Interim Administrator Graff commented that he spoke to this resident and had a crew go to her house and they were able to work the problem out. He then commented that the problem was happening because of the resident's water softener and the crew showed her how to flush her water softener and how to maintain it, which the water pressure then came back with no problem.

COMMITTEE/LIAISON REPORTS: There were no Committee/Liaison Reports.

<u>PUBLIC COMMENT:</u> Stuart Soifer, a resident, approached the podium and asked if he did not pay the water bill what would happen. Mayor Soliman answered and said the water would be shut off. Stuart then commented that this business owner does not have a license for a year, but they are allowed to stay open. Mayor Soliman commented that they have

reached out to the business owner and have talked to them and we have issued citations and the process is being followed.

<u>CITY COUNCIL COMMENTS:</u> Alderperson Oberlin thanked the residents for stopping in her place of employment to wish her a farewell on her retirement and she stated that it meant a lot to her.

Alderman Cipiti wished everyone a Happy New Year, welcomed Patrick Ainsworth, and congratulated Alderperson Oberlin on her retirement.

Mayor Soliman informed the Council that there was a need for an executive session on Litigation $5ILCS\ 120/2(c)(11)$ per the memo dated January 6, 2025.

(#6) Motion by Alderperson Oberlin seconded by Alderman Jefferson, to go into executive session on Litigation 5ILCS 120/2(c)(11) per the memo dated January 6, 2025.

On roll call, the vote was:

AYES: Ald. Albert, Kubal, Dyke, Methvin, Jefferson, Gazal, Oberlin, Cipiti.

NAYES: None. ABSENT: None.

There being eight (8) affirmative votes, the MOTION CARRIED.

Executive Session 7:46 p.m.

(#7) Motion by Alderperson Oberlin seconded by Alderwoman Gazal, to reconvene from the executive session on Litigation 5ILCS 120/2(c)(11) per the memo dated January 6, 2025.

On roll call, the vote was:

AYES: Ald. Kubal, Dyke, Methvin, Jefferson, Gazal, Oberlin, Cipiti, Albert.

NAYES: None. ABSENT: None.

There being eight (8) affirmative votes, the MOTION CARRIED.

Reconvened 8:13 p.m.

There being no further business before the Council, and no action needed from an executive session, a motion for adjournment was in order.

(#8) Motion by Alderman Dyke seconded by Alderman Jefferson, to adjourn the January 6, 2025, Council meeting.

On roll call, the vote was:

AYES: Ald. Oberlin, Cipiti, Albert, Kubal, Dyke, Methvin, Jefferson, Gazal.

NAYES: None. ABSENT: None.

There being eight (8) affirmative votes, the MOTION CARRIED.

The meeting was adjourned at 8:14 p.m.

Approved thisday of	, 2025.
As presented As amended	
CHRISTINE VERSHAY-HALL, CITY (CLERK
RAYMOND R. SOLIMAN, MAYOR	
	Y

SPESIA & TAYLOR

MEMO

To: Mayor Soliman and City Council

From: Mike Stiff

Date: January 20, 2025

Re: Ordinance Amending Section 12.36.020 (Settlement) regarding mailbox damage claims.

Pursuant to the City Council's direction following last week's work session, I drafted an Ordinance which amends Section 12.36.020 to increase the maximum claim amounts. In looking through my files, I determined that the original Ordinance #1868, passed in August of 2021, was not drafted by my office but appears to have been drafted by Heather McGuire.

In looking over Section 12.36.020, I thought the language regarding the claim submission process could be cleaned up, so I have uploaded along with this Memo the Ordinance I drafted with the cleanup, and the old Ordinance language for comparison. If the Council merely wishes to keep the old language with only the maximum claim amounts changed, I can easily make those changes, but I believe that the version in the Council Packet is much cleaner.

MRS

AN ORDINANCE AMENDING SECTION 12.36.020 (SETTLEMENT) OF CHAPTER 12.36 (MAILBOXES OF TITLE 12 (STREETS AND SIDEWALKS) OF THE CITY OF CREST HILL CODE OF ORDINANCES

WHEREAS, the City Council of the City of Crest Hill has the authority to adopt ordinances and to promulgate rules and regulations that pertain to its government and affairs and protect the public health, safety, and welfare of its citizens, and to amend those ordinances from time to time as it sees fit; and

WHEREAS, the City of Crest Hill has previously exercised said authority by adopting Title 12 (Streets and Sidewalks), Chapter 12.36 (Mailboxes) which sets out regulations for the placement of Mailboxes within the City of Crest Hill, including a process for compensating City residents for damage to mailboxes which comply with Section 12.36.010 and are damaged by City snow removal operations; and

WHEREAS, Chapter 12.36.020 (Settlement) currently contains a schedule of the maximum amounts that the City will pay for a single Section 12.36.010 compliant mailbox damaged by snow removal operations [Section 12.36.020(A)] and the maximum amounts the City will pay for damage to multiple Section 12.36.010 compliant mailboxes per post when damaged by City snow removal operations; and

WHEREAS, pursuant to its express authority granted by the Illinois Municipal Code, the City of Crest Hill has from time to time deemed it necessary to amend its Code of Ordinances; and

WHEREAS, the City Council has determined that Section 12.36.020 (Settlement) should be amended to increase the maximum amounts to be paid to City residents for damage to compliant mailboxes which results from City snow removal operations.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Crest Hill, Illinois, as follows:

SECTION 1: PREAMBLE. The preamble of this Ordinance is declared to be true and correct and is incorporated by reference as if fully set forth in this Section 1.

SECTION 2: APPROVAL. Section 12.36.020 (Settlement) of Chapter 12.36 (Mailboxes) of Title 12 (Streets and Sidewalks) of the City of Crest Hill Code of Ordinances is hereby repealed in its entirety and replaced as follows, with all other sections of Chapter 12.36 remaining unchanged:

CHAPTER 12.36: MAILBOXES

Section

12.36.010 Placement

12.36.020 Settlement 12.36.030 Temporary mailbox 12.36.040 Notifications

§ 12.36.020 SETTLEMENT.

- The City of Crest Hill shall not be liable for, nor shall it pay any claim for damage to any mailbox which is placed in violation of § 12.36.010. If a mailbox compliant with this Chapter 12.36 is damaged as a result of municipal snow removal operations, the owner of the mailbox may submit a claim for payment to the city. The maximum amount for which the city will be responsible for any claim is \$250.00 per claim. This amount is the maximum recoverable amount for a standard mailbox. To receive payment, the repairs to or the replacement of the standard mailbox must be considered permanent, which would include a whole new mailbox, new sleeve, new box, or new post. Use of bungee cords, duct tape, wood shims, or baling wire shall not be considered a permanent repair. The city shall not be responsible for replacement of wrought iron, customized, decorator, stone, or other specialty mailboxes in-kind as such units are placed within the public right of way strictly at the risk of the property owner. The city's liability shall not exceed the replacement cost of a standard mailbox. To submit a claim, the owner must contact the City of Crest Hill Public Works Department to report the claimed damage. The Public Works Department will investigate the claim and make a determination as to whether the claim is valid. If a claim is found to be valid, the owner will be required to complete a written claim form and submit the form with receipt(s) for the mailbox repairs or replacement. Under no circumstances will the city be responsible for making repairs or replacing a damaged mailbox. It is the owner's sole responsibility to make those repairs or have them made.
- (B) For situations with more than one mailbox per post the following maximum reimbursement amounts will apply:
 - (1) Two mailboxes: no more than \$300.00
 - (2) Three mailboxes: no more than \$325.00
 - (3) Four or more mailboxes: no more than \$350.00

The same claim submittal and processing procedure outlined in Section 12.36.020(A) will apply to claims for damage to multiple mailboxes on a single post.

(Ord. 1868, passed 8-2-21)

SECTION 3: SEVERABILITY. If any section, paragraph, clause or provision of this Ordinance is held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any other provision of this Ordinance.

SECTION 4: REPEALER. All ordinances, resolutions or orders, or parts thereof, which conflict with the provisions of this Ordinance are to the extent of such conflict hereby repealed.

SECTION 5: EFFECTIVE DATE. This Ordinance shall be in full force and effect immediately upon its passage and publication according to law.

[LEFT INTENTIONALLY BLANK]

PASSED THIS 20^{TH} DAY OF JANUARY, 2025.

	Aye	Nay	Absent	Abstaın
Alderwoman Jennifer Methvin				
Alderman Scott Dyke				
Alderwoman Claudia Gazal				
Alderman Darrell Jefferson				
Alderperson Tina Oberlin				
Alderman Mark Cipiti				
Alderman Nate Albert Alderman Joe Kubal				
Mayor Raymond R. Soliman				
Mayor Raymond R. Somman				
_	Christ	ine Vershay-	Hall, City Cl	erk
		,	, ,	
APPROVED THIS 20^{TH} DAY OF JANUARY,	2025.			
Raymond R. Soliman, Mayor				
A TENT OF				
ATTEST:				
Christine Vershay-Hall, City Clerk				
Christine vershay-rran, City Clerk				

CHAPTER 12.36: MAILBOXES

Section

12.36.010 Placement 12.36.020 Settlement 12.36.030 Temporary mailbox 12.36.040 Notifications

§ 12.36.010 PLACEMENT.

Mailboxes which are placed in any parkway shall be positioned as follows: no less than six nor more than eight inches from the back of the curb; if there is no curb, then six to eight inches from the paved portion of the roadway. The height of the mailbox shall be not less than 41 inches, nor more than 45 inches from the ground to the bottom of the mailbox. Mailboxes must be made of permanent materials and have no "temporary" fixtures (e.g. bungee cords, duct tape, etc.).

(Ord. 1868, passed 8-2-21)

§ 12.36.020 SETTLEMENT.

- (A) The City of Crest Hill shall not be liable for, nor shall pay any damages for, any mailbox which is placed in violation of § 12.36.010. If a mailbox is damaged as a result of municipal snow removal operations, and the city is liable for damage caused to the mailbox, the city shall pay no more than \$100 per claim. This figure represents the maximum recoverable amount for a standard mailbox. In order to receive the claim the fix for the mailbox must be considered permanent which would include, a whole new mailbox, new sleeve, new box. Permanent shall not include bungee cords, duct tape, wood shims, or bailing wire. The city shall not replace any wrought iron, customized, decorator type, stone, or other special-order mailboxes in-kind. Such units are placed within the public right of way strictly at the risk of the property owner. The city's liability shall not exceed the replacement cost of a standard mailbox. Homeowners who believe they have a claim, should call the Public Works Department to report it. Once the claim is found to be valid, homeowner will fill out the claim form, and turn that in with a receipt of the cost of the mailbox repairs, as it is up to the resident to fix their own mailbox. Reimbursement of no more than \$100 shall be paid upon receipt of paperwork.
 - (B) For situations with more than one mailbox per post the following will apply:
 - (1) Two mailboxes: \$150;
 - (2) Three mailboxes: \$175;
- (3) Four or more mailboxes: \$200. (Ord. 1868, passed 8-2-21)



City Council Agenda Memo

Crest Hill, IL

Meeting Date: January 20, 2025

Submitter: Dave Strahl, Interim Human Resources Manager

Department: Human Resources

Agenda Item: | Consideration of Cameras in the Workplace Policy – Employee Handbook

Addition (Revised per Discussion – January 13, 2025)

Summary: Draft policy outlining the cameras/recording device usage in the workplace.

Recommended Council Action: This is the latest revised version of the Cameras in the workplace policy. It has been discussed at the December 9, 2024 and the January 13, 2025 work session meetings. Approval of the draft with or without modification for submittal at the January 20, 2025 City Council meeting for final approval.

Procedural operation and retention of recorded information will be part of an operational procedure and not included as part of the policy for inclusion in the Employee Handbook.

Financial Impact:

Funding Source: None. **Budgeted Amount:** N/A

Cost: N/A

Attachments Draft Cameras/Recording Device Policy – Employee Handbook Addition

Section - 9: Safety & Equipment Use

9.8 - Cameras/Recording Devices in the Workplace

Purpose

City of Crest Hill prohibits employee use of audio and video recording in the workplace, including camera-equipped phones, tablets and other devices, personally worn cameras, or other device that could record either video and/or audio as part of any interactions between employees or between employees and the general public.

Restrictions on Employee Recording

- Employees are prohibited from bringing audio and/or video recording devices into work
 areas that could record either video and/or audio as part of any interactions between
 employees or between employees and the general public for the purpose of recording.
- Employees are prohibited from bringing audio or video recording devices into areas and/or
 meetings where there is any discussion regarding service delivery options and the means
 to provide such service delivery options that could be disclosed as part of such meeting.
- Employees may record workplace activities that are not prohibited by law or do not compromise confidential information as described above provided that the parties that might be recorded have granted permission to be recorded.
- Employees that are assigned recording devices to utilize as part of their required uniform must follow the rules and regulations specified as part of their job duties.

Employer Monitoring

City of Crest Hill reserves the right to install security cameras in work areas for specific business reasons, such as security, theft protection or protection of proprietary information.

City of Crest Hill may find it necessary to monitor work areas with security cameras when there is a specific job- or business-related reason to do so. The City will do so only after first ensuring that such action is in compliance with state and federal laws.

Employees should not have any expectation of privacy in work-related areas.

Employee privacy in nonwork areas will be respected to the extent possible. The City's reasonable suspicion of onsite drug use, physical abuse, theft or similar circumstances would be possible exceptions. Legal advice will be sought in advance in such rare cases where nonwork-area privacy might be compromised.

Employees should contact their supervisor or Human Resources (HR) if they have questions about this policy.

Nothing in this policy is intended to, nor should be construed to limit or interfere with employee rights as set forth under all applicable provisions of the National Labor Relations Act and the Illinois Public Labor Relations Act, including Sections 7 and 8(a)(1) and Sections 10(a)(4) and 10(a)(8) rights to organize and engage in protected, concerted activities regarding the terms and conditions of employment.

The City has installed surveillance cameras inside and outside of all City facilities. The surveillance cameras are intended for the internal use of the City, such as security, theft protection or protection of proprietary information. The cameras shall not be used to monitor the activities of employees. The cameras shall not be used to initiate an investigation for disciplinary purposes and shall not be used as the sole purpose for discipline. A crime or serious code of conduct violation viewed on the camera shall be cause for the City to initiate a review of the information captured by any camera for disciplinary purposes.

Agenda Memo



Crest Hill, IL

Meeting Date: January 20, 2025

Submitter: Julius Hanson-Ronald Wiedeman

Department: | Public Works/Engineering

Agenda Item: To Approve the emergency work shown in change order 8 to complete the work to

Structure 60- existing excess flow clarifier to transfer material from the West STP

Plant to the East STP Plant for a not to exceed amount of \$55,757.00

Summary: Attached is change order 8 for emergency work that needs to be completed at the West Wastewater Treatment Plant to address potential IEPA compliance issues and the current construction contract schedule. Based on discussion with the contractor who will be completing this work, he is available the weekend of January 17th-19th. Based on the current and future weather conditions staff has recommended that this work happen as soon possible. Both Engineering and Public works have discussed the work and agreed that the work needs to move forward on an Emergency basis. Please see attached more detailed information on the work being performed.

Change order 8 adds \$55,757.00. The total value of all Change orders is a deduct of (\$1,179,862.00) does not include a modification to the construction schedule.

We along with a representative from Strand are here to address any additional comments the city council has.

Recommended Council Action: To Approve the emergency work shown in change order 8 to complete the work to one of the existing clarifier tanks to transfer material from the West STP Plant to the East STP Plant for a not to exceed amount of \$55,757.00

Financial Impact:

Funding Source: Water Fund and IEPA loan

Budgeted Amount: n/a

Cost: \$50,640,000.00 (No additional cost to total contract amount previously approved)

Attachments:

Change Order 8-West Sanitary Treatment Plant



1170 South Houbolt Road Joliet, IL 60431 (P) 815.744.4200 www.strand.com

January 15, 2025

Mr. Julius Hansen, Interim Director of Public Works City of Crest Hill 20600 City Center Boulevard Crest Hill, IL 60403

Re: West Sewage Treatment Plant (STP) Improvements

Change Order (CO) No. 8 City of Crest Hill, Illinois (City)

Dear Julius,

Three copies of the enclosed CO No. 8 have been delivered to Vissering Construction Company (Contractor) for review and signature. If approved, please sign all three copies, return two copies to Strand Associates, Inc.® (Strand), and keep one copy for the City's records. The items in CO No. 8 are in the best interest of the City to be included. The following is a summary of the changes.

Item 8a adds cost to the Construction Contract for emergency clean-out and solids hauling at the digestion complex and Structure 60 Excess Flow Clarifier.

The new Structure 60 Excess Flow Clarifier is being used temporarily as the STP's final clarifier during the current phase of construction. This was necessary to create sufficient space for construction activities to progress. Solids accumulation in the clarifier (floatable scum and settled sludge) have been a recurring issue for the last several months. The City has a contractual agreement with Stewart Spreading to periodically haul solids from the STP to prevent this from occurring. To date, the frequency of hauling has been insufficient as discussed with City staff during the last several weeks.

This accumulation of solids, combined with the extreme cold weather, has resulted in the clarifier mechanism being damaged, increasing the risk of plant effluent quality being compromised and creating an emergency situation. The work included in this CO includes immediate tank cleanout required to reduce the risk of a permit violation and resume normal operations.

Increased hauling frequency, at least biweekly through 2025, is recommended until new unit processes currently under construction are completed and placed into service. It is Strand's understanding that the City will coordinate directly with Stewart Spreading to increase solids hauling frequency.

The cost associated with repairing the damaged clarifier equipment will be included in a future CO.

CO No. 8 adds \$55,757.00. The total value of all COs is a deduct of (\$1,179,862). CO No. 8 does not include a modification to the construction schedule.

Mr. Julius Hansen, Interim Director of Public Works City of Crest Hill Page 2 January 15, 2025

If you have any questions, please call 815-744-4200.

Sincerely,

STRAND ASSOCIATES, INC.®

Dominic Hallone

Dominic L. Gattone P.E.

Enclosures



1170 South Houbolt Road Joliet, IL 60431 (P) 815.744.4200 www.strand.com

January 15, 2025

CHANGE ORDER NO. 8

PROJECT: West Sewage Treatment Plant (STP) Improvements

OWNER: City of Crest Hill, Illinois

CONTRACT: 1-2022

CONTRACTOR: Vissering Construction Company

Description of Change

8a Work described in the enclosed Contractor's Cost Proposal ADD \$55,757

Request (CPR) 034 (dated January 14, 2025), related to the work for emergency clean-out and solids hauling at the digestion complex and Structure 60 Excess Flow Clarifier.

ADD \$55,757

TOTAL VALUE OF THIS CHANGE ORDER:

Contract Price Adjustment

Original Contract Price	\$50,640,000
Previous Change Order Adjustments	(\$1,235,619)
Adjustment in Contract Price this Change Order	\$55,757
Current Contract Price including this Change Order	\$49,460,138

Contract Substantial Completion Date Adjustment

Original Contract Substantial Completion Date	December 1, 2024
Contract Substantial Completion Date Adjustments due to previous Change Orders	548 days
Contract Substantial Completion Date Adjustments due to this Change Order	0 days
Current Substantial Contract Completion Dates including all Change Orders	June 1, 2026

Contract Final Completion Date Adjustment

Original Contract Final Completion Date	March 1, 2025
Contract Final Completion Date Adjustments due to previous Change Orders	640 days
Contract Final Completion Date Adjustments due to this Change Order	0 days
Current Final Contract Completion Dates including all Change Orders	December 1, 2026

Strand Associates, Inc.®

City of Crest Hill–Vissering Construction Company Contract 1-2022, Change Order No. 8 Page 2 January 15, 2025

This document shall become a supplement to the Contract and all provisions will apply hereto.

RECOMMENDED	
Somene L. Fallone	1-15-2025
ENGINEER-Strand Associates, Inc.®	Date
APPROVED	
CONTRACTOR—Vissering Construction Company	Date
APPROVED	
OWNER-City of Crest Hill, Illinois	Date



where success is measured one project at a time

January 14, 2025

Date:

PROPOSAL WORKSHEET SUMMARY

Project: CITY OF CREST HILL - WEST SEWAGE TREATMENT PLANT IMPROVEMENTS

To: Strand Associates, Inc.

Dominic Gattone, PE

Date: 1/14/2025

A/E Project #: IDFPR No. 184-001273

Change Order Request #:

VCC Project #: 11108.00

WORK DESCRIPTION

Clean Sludge & Scum out of Structure 60, the RAS
Effluent Box & Manhole D-10. Jet out 3" pipe between
MH-D-10 & Structure 77. Drain & Haul Digester Material
from Crest Hill West Plant to Crest Hill East Plant (1
volume of Digesters)

Line No	Cost Description	Labor An	nt	Material Amt	Equi	p & Other Amt	Sub	-Contractor Amt		Sub-Total
1	Stewart Spreading						\$	42,500.00	\$	42,500.00
2	Crane & VCC Supervision	\$ 3,60	00.00		\$	5,600.00			\$	9,200.00
3	·								\$	-
4									\$	-
5									\$	-
6									\$	-
7									\$	-
8									\$	-
9									\$	-
10									\$	-
11									\$	-
12									\$	-
13									\$	-
14									\$	-
15									\$	-
16									\$	-
17									\$	-
18									\$	-
19									\$	-
20									\$	-
21									\$	-
22									\$	-
23									\$	-
24									\$	-
25									\$	-
Sub-Total		\$ 3,60	00.00	\$ -	\$	5,600.00	\$	42,500.00	Ś	51,700.00

ACCEPTANCE	OF PROPOSAL (OWNER): City of Crest Hill	Contractor's Net:	
Name/Title:	Julius Hansen, Interim Public Works Director	Sub-Contactor's Net: Net Subtotal: Contractor's Fee: (15% on Own Work, 5% on Subs, & 0% on Credits):	\$
Signature:		Sub-Total:	
		Bonds & Insurance - 1%:	\$
Date:		Worksheet Total:	\$
ACCEPTANCE	OF PROPOSAL (A/E): Strand Associates, Inc.		
Name/Title:	Dominic Gattone, PE		
Signature:			
Date:			
ACCEPTANCE	OF PROPOSAL (CONTRACTOR): VISSERING CONSTRUCTION CO		
Name/Title:	Tony Marzetta, Project Manager		
Signature:	Ta Watt-		

9,200.00 42,500.00 51,700.00 3,505.00 55,205.00 552.05



January 14, 2025

Vissering Construction 175 Benchmark Industrial Drive Streator, IL 61364 Attention: Mr. Tony Marzetta

RE: PROPOSAL FOR CREST HILL CLARIFIER TANK CLEANING AND TRANSFER PUMPING

Stewart Spreading will provide:

- Mobilization and demobilization of trained personnel and required equipment to and from Crest Hill Plant for safety conscious tank cleaning operations;
- All labor, equipment & technical expertise necessary for clarifier tank cleaning and pumping/transfer to excess flow tank and digesters;
- All proper licensing, safety certifications and insurance documentation;
- Provide certificate of insurance with additionally insured endorsement for the duration of the project;
- Paying prevailing wages;
- Appropriately documented invoice within 30 days of completion.

Vissering Construction / Crest Hill will provide:

- Safely secured, continuous (24-Hour) plant access for tank cleaning and transfer operations;
- Payment of invoice within 30 days of project completion.
- A 2% monthly fee for all payments received beyond 30 days of invoice;

Scope of Work Summary

- Thursday, January 16, 2025 Start liquid land application from digesters under current contract with the City of Crest Hill. Set up pumps and hoses required for tank cleaning and transfer operations.
- Friday, January 17, 2025 (approximately 2:00 A.M.) Start transferring from the clarifier to excess flow tank. Estimated time of excess flow max capacity 8:00 – 9:00 A.M. Once excess flow is at max capacity, we will start filling the digesters. Note: Liquid that is pumped from the clarifier to the digesters is not land appliable. Clarifier pumping operations will continue until pump loses suction.







Scope of Work Summary - Continued

- Transfer of clarifier liquid from the digesters at the West plant to the East Plant is included in the lump sum pricing.
- 3" scum draw off line will be jetted out.
- RAS effluent box and will be vacuumed out.

<u>Lum</u>	<u> թ Տ</u>	<u>Sum</u>	<u>Pro</u>	<u>posal</u>	<u>Pr</u>	<u>icin</u>	<u>g:</u>
	_			_			

Clarifier cleaning and transfer of	perations	\$42,500.00 Lump S		
ACCEPTED BY: Stewart Spreading, Inc.		Approved By: Vissering Construction		
Greg Halmazzi				
<u>Greg Halmagyi, Bus. Div. Mgr.</u> Name/Title	01/14/2025 Date	Name/Title	 Date	



Agenda Memo

Crest Hill, IL

Meeting Date: January 20, 2025

Submitter: Ronald J Wiedeman

Department: Engineering

Resolution approving an Agreement for 2024 Sanitary Cleaning and Televising

Agenda Item: Contract by and Between the City of Crest Hill, Will County, Illinois and Hoeer

Construction, Inc. for an amount of \$89,760.00.

Summary: Attached is the construction agreement for the 2024 Sanitary Cleaning and Televising Contract which was awarded to Hoeer Construction, Inc. at the December 2, 2024 council meeting.

Recommended Council Action:

Resolution approving an Agreement for 2024 Sanitary Cleaning and Televising Contract by and Between the City of Crest Hill, Will County, Illinois and Hoeer Construction, Inc. for an amount of \$89,760.00.

Financial Impact:

Funding Source: Water and Sewer Budgeted Amount: \$120,000.00

Cost: \$89,760.00

Attachments:

Hoeer Construction Resolution

Contractor Signed Contract

A RESOLUTION APPROVING A CONSTRUCTION AGREEMENT FOR 2024 SANITARY CLEANING AND TELEVISING BY AND BETWEEN THE CITY OF CREST HILL, WILL COUNTY, ILLINOIS AND HOEER CONSTRUCTION, INC

WHEREAS, the Corporate Authorities of the City of Crest Hill, Will County, Illinois, have the authority to adopt resolutions and to promulgate rules and regulations that pertain to the City's government and affairs and protect the public health and, safety, and welfare of its citizens; and

WHEREAS, pursuant to Section 2-2-12 of the Illinois Municipal Code (65 ILCS 5/2-2-12), the City Council possesses the authority to enter into contracts that serve the legitimate corporate purposes of the City; and

WHEREAS, Hoeer Construction, Inc. (the "COMPANY"), is an entity that is in the business of providing Construction Services, for the 2024 Sanitary Cleaning and Televising. (the "Services"); and

WHEREAS, the City Council desires to engage the Company to provide the Services and the Company is ready, willing to perform the Services for the City; and

WHEREAS, City Staff have negotiated an AGREEMENT for 2024 Sanitary Cleaning and Televising (the "Agreement") with the Company for the purposes of engaging the Company to perform the Construction Services (a copy of the Agreement is attached hereto as <u>Exhibit A</u> and fully incorporated herein); and

WHEREAS, the Staff and City Council has reviewed the Agreement and determined that the conditions, terms, and provisions of the Agreement are fair, reasonable, and acceptable to the City; and

WHEREAS, the City Council has determined that it is in the best interest of the City and its citizens to enter into the Agreement with the Company.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Crest Hill, Illinois, pursuant to its statuary authority, as follows:

SECTION 1: PREAMBLE. The City Council hereby finds that all of the recitals contained in the parable to this Resolution are true, correct and complete and are hereby incorporated by reference hereto and made part hereof.

SECTION 2: AGREEMENT APPROVED. The City Council hereby finds and declares that the conditions, terms, and provisions of this Agreement (Exhibit A) in the amount of \$89,760.00 are fair, reasonable, and acceptable to the City and that the same is hereby approved in form and substance. Therefore, the City Council hereby authorizes and directs the Mayor to execute and deliver, and the

Clerk to attest, the Agreement, and further to take any and all other actions, including without limitation the execution and delivery of any and all documents, necessary and appropriate to effectuate the intent of this Resolution, which is to enter into the Agreement with the Company.

SECTION 3: SEVERABILITY. If any section, paragraph, clause or provisions of this Resolution is held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any other provision of this Resolution.

SECTION 4: REPEALER. All ordinances, resolutions or orders, or parts thereof, which conflict with the provisions of this Resolution, are to the extent of such conflict herby repealed.

SECTION 5: EFFECTIVE DATE. This Resolution shall be in full force and effect immediately upon its passage and publication according to law.

[Intentionally Blank]

PASSED THIS 20TH DAY JANUARY, 2025.

	Aye	Nay	Absent	Abstain
Alderman Scott Dyke				
Alderwoman Jennifer Methvin				
Alderwoman Claudia Gazal				
Alderman Darrell Jefferson				
Alderperson Tina Oberlin				
Alderman Mark Cipiti				
Alderman Nate Albert				
Alderman Joe Kubal				
Mayor Raymond R. Soliman				
APPROVED THIS 20th DAY OF JANU	JARY 2025.			
Raymond R. Soliman, Mayor				
ATTEST:				
Christine Vershay-Hall, City Clerk				

EXHIBIT A



Item 6.



2024 SANITARY SEWER TELEVISING PROJECT REL PROJECT 24-R0481.01

24-R0481.01

CITY OF CREST HILL WILL COUNTY, ILLINOIS NOTICE TO CONTRACTORS

The City of Crest Hill will receive sealed proposals for the following improvements at the City of Crest Hill Clerk's office, 20600 City Center Boulevard, Crest Hill, Illinois 60403 until 11:00 AM, November 14, 2024.

CITY OF CREST HILL 2024 SANITARY SEWER TELEVISING PROJECT

Proposals will be publicly read aloud after 11:00 A.M. on November 14, 2024. No bid shall be withdrawn after the opening of the proposals without the consent of the Mayor and City Council for a period of ninety (90) days after the scheduled time of closing bids.

All proposals shall be sealed in an envelope, addressed to the City of Crest Hill, attention City Clerk. The name and address of the bidder and the name of the project shall also appear on the outside of the envelope. Proposals must be submitted on the forms provided by the Engineer.

The Bid Documents, including specifications, are on file at the office of the Engineer, Robinson Engineering, Ltd., phone: (815) 806-0300, email: reladministrative@reltd.com, and may be obtained electronically via email upon review of prequalification information. The bid documents will be issued until 3:00 PM on November 13, 2024.

A certified check/bank draft drawn on a solvent bank, cashier's check or bid bond, payable without condition to the City of Crest Hill in an amount not less than ten percent (10%) of the bid shall be submitted with each proposal, as a guarantee that, if the proposal is accepted, a contract will be entered into and the performance of the contract is properly secured.

A performance bond in a sum equal to one hundred percent (100%) of the amount of the bid, with sureties to be approved by the Mayor and City Council for the faithful performance of the contract must be furnished by the successful bidder. All bids or proposals shall contain an offer to furnish a bond upon acceptance of such bid or proposal.

The right is reserved to reject any or all proposals, to waive technicalities, to postpone the bid opening, or to advertise for new proposals, if in the judgment of the City Council their best interests will be promoted thereby. The Contractor is advised that no work can begin on the project until the City obtains all required permits.

The Contractor will be required to pay not less than the prevailing wage rates on this project as established by the Illinois Department of Labor. The Contractor shall also comply with all applicable Federal, State, and local regulations.

Bidder qualifications and experience will also be included in the basis for determining the lowest responsible bidder.

Prequalification will be required to be submitted to the Engineer by all potential bidders prior to receiving a bid package. If in the opinion of the Engineer and the Mayor and City Council, an applicant would not be able to serve the best interest of the City of Crest Hill, a proposal will not be issued to the applicant.

Mayor and City Council City of Crest Hill Will County, Illinois

PROPOSAL and CONTRACT

PROPOSAL

то т	HE OWNER, 🭊	ty of Crest Hill	
1.	Proposal of	Hoer Construction Inc.	
		(name and address of bidder)	
	1416	Carry Road 200N Good Edd II GN42	
		in Co@hour com	
		(email address of bidder)	

for the improvement described in the NOTICE TO CONTRACTORS.

- 2. In submitting this proposal, the undersigned declares that the only persons or parties interested in the proposal as principals are those named herein; and that proposal is made without collusion with any other person, firm or corporation.
- 3. The undersigned further declares that he has carefully examined the proposal, plans, specifications, form of contract and contract bond, and special provisions (if any), and that he has inspected in detail the site of the proposed work, and that he has familiarized himself with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this proposal he waives all right to plead any misunderstanding regarding the same.
- 4. The undersigned further understands and agrees that if this proposal is accepted, he is to furnish and provide all necessary machinery, tools, apparatus and other means of construction, and to do all of the work, and to furnish all of the materials specified in the contract, except such materials as are to be furnished by the Owner, in the manner and at the time therein prescribed, and in accordance with the requirements therein set forth, and is fully responsible for the construction means, methods, techniques, sequences and safety procedures and programs incident thereto.
- 5. The undersigned declares that he understands that the quantities mentioned are approximate only and that they are subject to increase or decrease; that he will take in full payment therefore the amount and the summation of the actual quantities, as finally determined, multiplied by the unit prices shown in the schedule of prices contained herein.
- 6. The undersigned further agrees that the unit prices submitted herewith are for the purpose of obtaining a gross sum, and for use in computing the value of extras and deductions; if there is a discrepancy between the gross sum bid and that resulting from the summation of the quantities multiplied by their respective unit prices, the latter shall apply.
- 7. The undersigned further agrees that if the Owner decides to extend or shorten the improvement, or otherwise alter it by extras or deductions, including the elimination of any one or more of the items, as provided in the specifications, he will perform the work as altered, increased or decreased at the contract unit prices.

- 8. The undersigned further agrees that the Owner may at any time during the progress of work covered by this contract order other work or materials incidental thereto and that all such work and materials as do not appear in the proposal or contract as a specific item accompanied by a unit price, and which are not included under the bid price for other items in this contract, shall be performed as extra work, and that he will accept as full compensation therefore the actual cost plus fifteen per cent (15%), the actual cost to be determined as provided in the specifications.
- The undersigned further agrees to execute a contract for this work and present the same to the Owner within fifteen (15) days after the date of notice of the award of the contract to him.
- 10. The undersigned further agrees that he and his surety will execute and present within fifteen (15) days after the date of notice of the award of contract, a contract bond satisfactory to and in the form prescribed by the Owner, in the penal sum of the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the terms of the contract.
- 11. The undersigned further agrees to begin work not later than ten (10) days after the execution and approval of the contract and contract bond, unless otherwise provided, and to prosecute the work in such manner and with sufficient materials, equipment, labor and safety precautions as will insure its completion within the time limit specified herein, it being understood and agreed that the completion within the time limit is an essential part of the contract. The undersigned agrees 120 to complete the work within calendar days after the date of the execution of the contract by both parties, or by_ if this is a completion day contract, unless additional time shall be granted by the Engineer in accordance with the provisions of the specifications. In case of failure to complete the work within the time names herein or within such extra time as may have been allowed by extensions, the undersigned agrees that the Owner shall withhold from such sums as may be due him under the terms of this contract, the costs set forth in the specifications, which cost shall be considered and treated not as a penalty, but as damages due the Owner form the undersigned by reason of inconvenience to the public, added cost of engineering and construction observation, maintenance of detours, and other items which have caused an expenditure of public funds resulting from the failure of the undersigned to complete the work within the time specified in the contract.

12.	Accompanying this proposal is a bank draft, bank cashier's check, certified check or bid bond, complying with the requirements of the specifications, made payable to:
	The amount of the bond, check or draft is #11 process of amount Bid
	(\$ 10% of amount bid).

If the proposal and the undersigned shall fail to execute a contract and contract bond as required herein, it is hereby agreed that the amount of the check or draft substituted in lieu thereof, shall become the property of the Owner, and shall be considered as payment of damages due to delay and other causes suffered by the Owner because of the failure to execute said contract and contract bond; otherwise said check or draft substituted in lieu thereof shall be returned to the undersigned.

ATTACH BANK DRAFT, BID BOND, BANK CASHIER'S CHECK OR CERTIFIED CHECK HERE

See Attached Following (1096 Bid Bond)

In the event that one check, bond, or draft is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guarantees of the individual sections covered.

- 13. The undersigned submits herewith his schedule of prices covering the work to be performed under this contract; he understands that he must show in the schedule the unit prices for which he proposes to perform each item of work; that the extensions must be made by him; and that if not so done, his proposal may be rejected as irregular.
- 14. The undersigned firm certifies that it is not barred from bidding on this contract as a result of a conviction for the violation of State laws prohibiting bid-rigging or bid-rotating.



AIA Document A310tm - 2010

Bid Bond

Contractor:

(Name, Legal Status and Address) Hoerr Construction Inc PO Box 65 Goodfield IL 61742

Owner:

(Name, Legal Status and Address) City of Crest Hills 20600 City Center Boulevard Crest Hill, IL 60403

Bond Amount: Ten percent of bid

Project:

(Name, location or address, and Project number, if any) 2024 Sanitary Sewer Televising Project

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and give such bond or bonds as may be Specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waived any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

(Name, Legal Status and Principal Place of Business) West Bend Insurance Company 1900 S 18th St., P O Box 1995 West Bend WI 53095

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An Additions and Deletions Report that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

The document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

AIA Document A310 - 2010tm The American Institute of Architects (Converted to form by First Mid Insurance Group)

Signed and sealed this 14th day of November, 2024

Hoerr Construction Inc

(Contractor as Principal)

(Seal)

(Title)

West Bend Insurance Company

(Surety)

(Seal)

7

Title J.D. Morgason, Attorney-in-Fact

State of Illinois

ss:

County of Macon

On 14th day of November, 2024 before me, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J. D. Morgason

known to me to be Attorney-in-Fact of West Bend Insurance Company

the corporation described in and that executed the within and foregoing instrument, and known to me to be the person who executed the said instrument in behalf of the said corporation, and he duly acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year stated in this certificate above.

(Notary Public)

CATHERINE L ATER
NOTARY PUBLIC, NOTARY SEAL
STATE OF ILLINOIS, MACON COUNTY
COMMISSION # 894369
MY COMMISSION EXPIRES: MAY 07, 2027



Bond	No.	2630923
Bollu	ITU.	

POWER OF ATTORNEY

Know all men by these Presents, that West Bend Insurance Company (formerly known as West Bend Mutual Insurance Company prior to 1/1/2024), a corporation having its principal office in the City of West Bend, Wisconsin does make, constitute and appoint:

J. D. Morgason

lawful Attorney(s)-in-fact, to make, execute, seal and deliver for and on its behalf as surety and as its act and deed any and all bonds, undertakings and contracts of suretyship, provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of: Thirty Million Dollars (\$30,000,000)

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of West Bend Insurance Company by unanimous consent resolution effective the 1st day of January 2024.

Appointment of Attorney-In-Fact. The president or any vice president, or any other officer of West Bend Insurance Company may appoint by written certificate Attorneys-In-Fact to act on behalf of the company in the execution of and attesting of bonds and undertakings and other written obligatory instruments of like nature. The signature of any officer authorized hereby and the corporate seal may be affixed by facsimile to any such power of attorney or to any certificate relating therefore and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the company, and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the company in the future with respect to any bond or undertaking or other writing obligatory in nature to which it is attached. Any such appointment may be revoked, for cause, or without cause, by any said officer at any time.

Any reference to West Bend Mutual Insurance Company in any Bond and all continuations thereof shall be considered a reference to West Bend Insurance Company.

In witness whereof, West Bend Insurance Company has caused these presents to be signed by its president undersigned and its corporate seal to be hereto duly attested by its secretary this 1st day of January 2024.

Attest Christophix C. Zurgart

Christopher C. Zwygart

Secretary

State of Wisconsin County of Washington Robert J. Jacques

President

On the 1st day of January 2024, before me personally came Robert Jacques, to me known being by duly sworn, did depose and say that he is the President of West Bend Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to said instrument is such corporate seal; that is was so affixed by order of the board of directors of said corporation and that he signed his name thereto by like order.

Lead Corporate Attorney

Notary Public, Washington Co., WI

My Commission is Permanent

The undersigned, duly elected to the office stated below, now the incumbent in West Bend Insurance Company, a Wisconsin corporation authorized to make this certificate, Do Hereby Certify that the foregoing attached Power of Attorney remains in full force effect and has not been revoked and that the Resolution of the Board of Directors, set forth in the Power of Attorney is now in force.

Signed and sealed at West Bend, Wisconsin this 14th day of

November

2024



Christopher C. Zwygart

Secretary

1900 S 18th Avenue | West Bend, WI 53095 | Phone: (800) 236-5010 | Fax: (877) 674-2663 | www.thesilverlining.com

CONTRACTOR'S STATEMENT

Do you have sufficient knowledge of Drawings and Specifications of the work covered by this Contract to warrant submitting a Proposal for this work?		
(a) Have you done work of this nature?		
(b) To what extent? (Dollar value) Over \$10 Million		
(c) For whom? See Attached - Completed Projects		
Do you have sufficient equipment to perform this work?		
If so, list major items: See Allached - Equipment List		
Give Bank reference: CERCU - Jasan Krumwide		
Address: 7900 N. MANUSTY, Plotia, IL GIGIS		
List names and addresses of major suppliers:		
N/A - Chan & TV Project		
Have you ever had, or do you now have, funds withheld for non-completion of		
work to the satisfaction of any municipality?		
(a) If so where? City of Res Plains		
(b) For what reason? West our completion dall by 5 days		
Have you ever been disqualified by a Governmental Agency for failure to		
satisfactorily complete a public improvement?		

CONTRACTOR'S STATEMENT (cont.)

3.	Have you ever been cited for failing to withhold or report payroll deductions for
	Federal Income Tax?
9.	Have you ever been cited by the Federal Government for any violation of the
	Copeland Act (Anti-kick-back Law)?
10.	If awarded contract, work will begin in

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HOERR CONSTRUCTION, INC. COMPLETED LARGE CLEANING & TELEVISING CONTRACTS

Urbana, IL Urbana, IL Marshall, IL Galesburg, IL BRoomington, IL Urbana, IL	2013 Storm Sewer Clean & TV 2014 Storm Sewer Clean & TV	Justin Swinford (217) 384-2343 Justin Swinford (217) 384-2343	706 S, Glover Ave. Urbana, Illinois 61802	27,700		.988	Jun-14
Urbana, It. Marshall, It. Galesburg, It. Bloomington, It. Urbana, It.	2014 Storm Sewer Clean & TV	Justin Swinford (217) 384-2343				***	The state of the s
Marshall, IL Galesburg, IL Bloomington, IL Urbana, IL			706 S, Glover Ave, Urbana, Illinois 61802	42,690		.969	Jul-15
Galesburg, IL Bloomington, IL Urbana, IL	2017 CCTV Sewer Inspection	Jason Goble (217) 465-5306	330 N. Central Ave., Paris, IL 61944		101,950	8*-48"	May-17
Bloomington, IL Urbana, IL	Storm Sewer Inspection	Jim Cueno (309) 345-3690	55 W. Tompkins St Galseburg, IL 61401	71,103		18"-96"	Jul-17
Urbana, IL	FY17 CCTV Sewer Inspection	Ward Snarr (309) 287-3334	115 East Washington Street, Bloomington, IL 61701	b.	45,888	-989	Oct-17
	2016 Storm Sewer Clean & TV	Justin Swinford (217) 384-2343	706 S. Glover Ave. Urbana, Illinois 61802	26,900		6"-96"	Nov-17
GPSD - Peoria, IL	Sewer Cleaning & Inspection Project 4	Jim Stoan (309) 637-3511	2322 S. Darst St., Peoria, IL 61607-2093		38,609	8"-48"	Nov-17
Champalgn, IL	2017 Storm Clean & Televising	Leslie Heath (217) 722-5746	702 Edgebrook Dr., Champaign, IL 61820	96,316		6"-72"	Apr-18
Normal, IL	2018 Sanitary & Storm Sewer Inspection	Jason Comfort (309) 433-9917	1301 Warriner St, Normal, IL 61761	7,302	81,144	18"-84"	Feb-19
Bloomington, IL	FY19 CCTV Sewer Inspection	Ward Snarr (309) 287-3334	115 East Washington Street, Bloomington, IL 61701		49,131	6"-60"	Aug-19
Champaign, IL	2018 Storm Clean & Televising	Leslie Heath (217) 722-5746	702 Edgebrook Dr., Champaign, IL 61820	33,163		6"-48"	Apr-19
GPSD - Peoria, IL	GPSD 2600 Ravine Sewer Cleaning & Inspection	Jim Sloan (309) 637-3511	2322 S. Darst St., Peoria, IL 61607-2093		32,000	8"-24"	Jan-20
Normal, IL	2019 Sanitary & Storm Sewer Inspection	Jason Comfort (309) 433-9917	1301 Warriner St. Normal, IL 61761	11,580	88.151	6*-84*	Mar-20
Champaign, IL.	2019 Storm Clean & Televising	Leslie Heath (217) 722-5746	702 Edyebrook Dr., Champaign, IL 61820	76,244		6"-54"	Apr-20
20093 Normal, IL	2020 Sanitary & Storm Sewer Inspection	Jason Comfort (309) 433-9917	1301 Warriner St, Normal, IL 61761	17,412	93,265	6"-60"	Feb-21
20094 Bloomington, IL	FY21 Sewer CCTV & Clean	Ward Snarr (309) 287-3334	115 East Washington Street, Bloomington, IL 61701		1,002,996	6":36"	Aug-21
22094 Knoxville, IL	2022. Sanitary Sewer Cleaning & Televising	Neil Smith (Bruner, Cooper & Zuch), (309) 343-9282	33 North Public Square, Knoxville, IL 61448		46,668	8"-12"	Jan-23
22095 BNWRD	51" Main Interceptor Sewer (Caroline St to Olive St)	Duane Lindeman, (309) 261-8033	2015 W. Oakland Ave, Bloomington, IL 61701		5,895	31"-84"x108"	Feb-23
23402 Elgin, IL / EEI	2023 Sanitary Sewer Televising & Reporting	Todd Wells (EEI), (630) 466-6758	52 Wheeler Rd, Sugar Grove, IL 60554		4,439	B"-12"	Mar-23
_	2022 Storm Sewer Cleaning & Televising	Alex Dye (Trotter & Assoc), (262) 729-4350	1850 Lewis Ave, North Chicago, IL 60064	28,771		6"-42"	Apr-23
23404 North Chicago, IL	2022 Sanitary Sewer Cleaning & Televising	Alex Dye (Trotter & Assoc), (262) 729-4350	1850 Lewis Ave. North Chicano, IL 60064		44 067	6"-24"	May-23
21094 Normal, IL	2021 Sanitary & Storm Cleaning & Televising	Jason Comfort (309) 433-9917	1301 Warriner St, Normal. IL 61761	20,424	245,359	6"-66"	May-23
23401 University of Illinois - Urbana, IL		Robbie Bauer (217) 265-6492	1501 S. Oak St., Champaign, IL 61820		15,000	8"-21"	Jun-23
	Arbor Vitale/Whispering Oaks Cleaning & Televising	Rich Brecklin	216 Holland Rd., Germantown Hills, IL 61548		12,665	8*-10"	Jun-23
2341D CMT - SCWRD		Tim Sumner, (217) 572-1051	2750 W. Washington St., Springfield, IL 52702		856	8*	Jul-23
23405 Farnsworth Group - Danville, IL	2023 Sanitary & Storm Sewer Cleaning & Televising	Emily Jenkins (Farnsworth Group), (217) 298-9014	2211 W Bradley Ave, Champaign, IL 61821	14,555	3,409	8"-72"	Aug-23
23400-58 LaSalle, IL	Misc. Storm & Sanitary Sewer Televising	Brian Brown (815) 223-7041 Ext. 5019	745 2nd St., LaSalle, IL 61301	16,225	108	6"-72"	Aug-23
23400-61 Champaign Township, IL	2023 Storm Sewer Cleaning & Televising	Keith Paduett (217) 352-0321	3900 Kearns Dr., Champaign, IL 61822	6,520		12"-52"	Aug-23
23411 RJN Group - Danville, IL	2023 Sanitary Sewer Cleaning & Televising	Luis Vasquez (630) 682-4700 Ex, 1378	950 Essington Rd., Jollet, IL 60435		19,069	6"-18"	Nov-23
23408 BNWRD	2023 Interceptor Grit Evaluation	Shane Niedzwecki, Famsworth Group (309) 663-8435	2015 W. Oakland Ave, Bloomington, IL 61701		46,242	12".72"	Nov-23
23416 Clark Dietz, Inc.	Bloomington Locust St. CSO Elimination Ph 8/9	Julian Jones (217) 373-8944	125 West Church St., Champaign, IL 61820		4,208	8"-38"	Dec-23
23211 IAW - Villa Grove, IL	2023 Sanitary Sewer Cleaning & Televising	Justin Swinford (217) 373-3255	1406 Cardinal Ct., Urbana, IL 61801		22,000	*8	Dec-23
	2023 Sewer Rehabilitation	Candace Scholz (630) 432-3817	1000 Internationale Parkway, Woodridge, IL 60517		2,529	8*-10"	Dec-23
	2023 Sewer Rehabilitation	Candace Schoiz (630) 432-3817	1000 Internationale Parkway, Woodridge, IL 60517		10,570	8"-18"	Dec-23
23215 IAW - Des Plaines, IL		Candace Scholz (630) 432-3817	1000 Internationale Parkway, Woodridge, IL 60517		952	.8-,9	Dec-23
23400-59 LaSalle, IL	2023 Truck Sewer Cleaning & Televising	Brian Brown (815) 223-7041 Ext. 5019	745 2nd St., LaSaile, IL 61301		1,148	8"-72"	Dec-23
23412 Coffax, IL	2023 Sanitary Sewer Cleaning & Televising	Portia Vandegraft (309) 723-3261	307 N Harrison, Colfax, IL 61728		40,953	8".10"	Jan-24
23413 Hazel Crest, IL	Sanitary Sewer Cleaning & Televising - 2023	Joe Sullivan, Robinson Engineering (815) 412-2025	3601 W. 183rd St., Hazel Crest, IL 60429		39,827	8"-15"	Mar-24
23415 North Chicago, IL	2023 Sanitary Sewer Cleaning & Televising	Alex Dye, Trotter & Assoc (262) 729-4350	1850 Lewis Ave, North Chicago, IL 60064		43,424	8"-21"	Feb-24
24504 Washington, IL	West Lake & Georgetown Trunk Sewer Televising	Brian Rittenhouse (903) 745-3503	301 Walnut St., Washington, IL 61571		3,940	12"-15"	Mar-24
24503 Freeport, IL	2024 Sanitary Sewer Cleaning	Darin Skykel, Fehr Graham (815) 235-7643	314 West Stephenson St. Freeport, IL 61032		13,467	6"-18"	Apr-24
23414 North Chicago, IL	2023 Storm Sewer Cleaning & Televising	Alex Dye, Trotter & Assoc (262) 729-4350	1850 Lewis Ave, North Chicago, IL 60064	17,400		6"-48"	May-24
24505 Bloomington MHP	2023 Sanitary Sewer Cleaning & Televising	Shane Firsching, Baxter & Woodman (815) 444-3395	2015 W. Oakland Ave, Bloomington, IL, 61701		8,223	6-12	Mav-24



Hoerr Construction, Inc.

1416 County Road 200 N P.O. Box 65 Goodfield, IL 61742 Office: (309) 691-6653 Fax: (309) 508-7990

List of Major Sewer Rehab Equipment

A. Combination Jetter/Vacuum Trucks

- 2012 Tandem Axle GapVax Peterbilt Chassis (#77)
 - Model: MC Series Combination MC 1510
- 2014 Tandem Axle Vactor Kenworth Chassis (#27)
 - o Model: 2100 Plus
- 2014 Tandem Axle Vactor Freightliner Chassis (#97)
 - o Model: 2100 Plus
- 2015 Tandem Axle Vactor Freightliner Chassis (#78)
 - o Model: 2100 Plus
- 2016 Tandem Axle Vactor Kenworth Chassis (#74)
 - o Model: 2100 Plus
- 2017 Tandem Axle Vactor Kenworth Chassis (#70)
 - o Model: 2100 Plus
- 2021 Tandem Axle Vactor Kenworth Chassis (#92)
 - o Model: 2100i
 - Sewer Water Recycling System
- 2018 Tandem Axle Vactor Kenworth Chassis (#94)
 - o Model: 2100i Plus
- 2022 Tandem Axle Vactor Kenworth Chassis (#5)
 - o Model: VXT600
- 2023 Tandem Axle GapVax Peterbilt Chassis (#12)
 - o Model: MC Series Combination MC1511
- 2023 Tandem Axle GapVax Peterbilt Chassis (#25)
 - Model: MC Series Combination MC1511
 - 2025 Tandem Axle Vactor Western Star Chassis (#96)

 o Model: 2112iP
- 2025 Tandem Axle Vactor Western Star Chassis (#269)
 - Model: 2115iP

B. Jetting Accessories

- Wide assortment of nozzles for all pipe sizes and cleaning applications
 - o Includes penetrating, grenade, spinner, and "bottom feeder" nozzles
- Root saws that configure from 6" to 24" pipe
- Chain cutters that configure from 8" to 30" pipe
- Barrel cutters for 8" to 12" pipe

C. Televising Equipment

- 2006 Cues camera/cutter truck Chevrolet 5500 chassis (#86)
- 2010 Cues camera/cutter truck Ford F550 chassis (#22)
- 2015 Cues camera/cutter truck Ford F650 chassis (#50)
- 2015 Cues camera/cutter truck Ford F650 chassis (#60)
- 2018 Cues camera/cutter truck Ford F750 chassis (#89)
- 2019 Cues camera/cutter truck Kenworth T270 chassis (#53)



Hoerr Construction, Inc. 1416 County Road 200 N

P.O. Box 65

Goodfield, IL 61742

Office: (309) 691-6653 Fax: (309) 508-7990

- 2019 Cues camera/cutter truck Ford F750 chassis (#55)
- 2011 Cues camera/cutter truck Ford F550 chassis (#99)
- 2008 Cues camera/cutter truck Chevy C4500 chassis (#84)
- 2023 Cues camera/cutter truck Ford F650 chassis (#32)
- 2012 Cues camera/cutter truck Ford F450 chassis (#16)
- Cues "cube" mobile computer set up for easement work (#1140)
- 2013 Cues camera/cutter truck- Ford F650 chassis (#59 LATERAL)
 - Cues lateral inspection system
- 2010 Cues camera/cutter camera truck- Ford F550 chassis (#61 LATERAL)
 - Cues lateral inspection system
- 2010 Cues TV truck Ford F450 (#91 LATERAL)
 - o Cues lateral inspection system
- 2018 Cues camera/grout truck Kenworth (#17 GROUT)
 - Cues EZ Grout System, includes packers for main lines & service lines
- 2017 Cues camera/grout truck Ford (#13 GROUT)
 - Cues EZ Grout System, includes packers for mains & laterals
- All computers on all types of camera/cutter trucks use GraniteNet Software for PACP reporting
- All camera/cutter trucks have pan & tilt cameras with wheel/track/skid transporters and
 - Most cameras have built in sondes that make them locatable
 - Transporters are capable of operating in 6" 60" pipes
- Multiple camera cutter trucks are set up with specialty equipment for cutting obstructions in pipe
 - Schwalm Cutters
 - Wolverine Cutters
- Multiple Rigid push cameras & locators to work in 2" 8" pipes

D. Boilers

- 2012 Semi Trailer / 2012 Hurst Boiler (#122)
 - 150 HP diesel fired hot water & high pressure steam boiler
- 2006 Kenworth Chassis / 2012 Hurst Boiler (#29)
 - 25 HP diesel fired high pressure steam boiler (LATERAL LINING)
- 2000 Freightliner Chassis / 2013 Iowa Manufacturing Boiler (#42)
 - 100 HP diesel fired hot water & low pressure steam boiler
- 2016 Volvo Chassis / Kewanee Boiler (#95)
 - o 150 HP diesel fired hot water & high pressure steam boiler
- 2016 Volvo Chassis / 2015 Hurst Boiler (#44)
 - o 100 HP diesel fired high pressure steam boiler
- 2010 Kenworth Chassis / 2016 Hurst Boiler (#46)
 - o 100 HP diesel fired high pressure steam boiler

E. Refrigerated Box Trucks

- 2007 International Tandem Axle Reefer Box (#88)
- 2011 Peterbilt Tandem Axle Reefer Box (#47)
- 2007 Freightliner Tandem Axle Reefer Box (#82)



Hoerr Construction, Inc. 1416 County Road 200 N

P.O. Box 65 Goodfield, IL 61742 Office: (309) 691-6653 Fax: (309) 508-7990

- 2006 Freightliner Tandem Axle Reefer Box (#87)
- 2015 Freightliner Tandem Axle Reefer Box (#11)
- 2019 Kenworth Tandem Axle Reefer Box (#49)
- 2013 Freightliner Tandem Axle Reefer Box (#51)
- 2006 Volvo Tandem Axle Reefer Box (#54)
- 2020 Freightliner Tandem Axle Reefer Box (#68)
- 2020 Volvo Tandem Axle Reefer Box (#90)
- 1991 48' Semi Trailer with Thermo-King Refrigerator Unit (#1004)
- 2003 53' Semi Trailer with Thermo-King Refrigerator Unit (#1007)

F. Manhole Rehabilitation/Spray Lining Equipment

- 2023 Madewell Concrete Manhole Trailer (#382)
 - o Generator/Compressor Combo
 - o 5K Pressure Washer
 - Mortar Mixer/Pump
- 2023 Raven Epoxy Trailer (#1222)
 - o XP50-hf pump
 - o Generator/Compressor Combo
- Putzmeister Trailer Pump (#378)
- Concrete Material Elevator/Silo (#583)
- 2 5K Pressure Washers

G. Other Rehabilitation Equipment

- Mainline Cured In Place Pipe (CIPP) Lining
 - o Capable of putting a new pipe within a pipe in the 6" 60" diameter range
 - Requires access to both ends of the line segment
- LMK T-Liner and Lateral Cured In Place Pipe (CIPP) Lining & CAC Short Liner
 - Capable of putting a T or Y connection liner in 8" 15" mainline
 - Capable of lining from only one access point
- LMK Vac-A-Tee cleanouts
 - Installation of lateral cleanouts with minimal excavation
- LMK Cap-A-Connection (CAC)
 - Capable of installing a short liner over an open service to abandon it

H. General Construction Equipment

 As a sewer and water contractor we maintain a fleet of construction vehicles and equipment that includes: backhoes, excavators, multiple track and wheeled easement machines, dump trucks, directional boring rigs, etc. that can be used in the event they are needed for any project.

I. Wet Out Facilities

 Our wet out facility is located at 1416 County Road 200 N in Goodfield, IL 61742. The building is 80' x 160' and was built in 2007. It is 100% climate controlled with geothermal heating and air conditioning.

Updated: 3/13/24

CERTIFICATE OF ELIGIBILITY TO BID

I, Hour Construction Inc. (contractor), pursuant						
to section 33E-11 of the Illinois Criminal Code of 1961 as amended, hereby						
certifies that neither (he, she, it) nor any of (his, her, its) partners, officers, or						
owners of (his, her, its) business has been convicted in the past five (5) years of						
the offense of bid-rigging under section 33E-3 of the Illinois Criminal Code of						
1961 as amended and that neither (he , she, it) nor any of (his, her, its) business						
has ever been convicted of the offense of bid-rotating under section 33E-4 of the						
Illinois Criminal Code of 1961 as amended.						
Date:						



REL # 24-R0481.01

CORP Awarded Schedule of Prices

Local Agency	City of Crest Hill
Location	
Description	Bid Tab

Schedule for Single Bid

(For complete information covering	these items, se	ee plans and s	pecifications)
------------------------------------	-----------------	----------------	----------------

	TOTAL COST ESTIMATE					
Item Number	Items	Unit	Quantity	Unit Price	Total	
1	RAILROAD RIGHT-OF-WAY ENTRY PERMIT	EACH	1	\$2,798.00	\$2,798.00	
2	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	\$4,777.00	\$4,777.00	
3	RAILROAD FLAGGER	DOL	1	\$10,000.00	\$10,000.00	
4	SANITARY SEWER TO BE CLEANED, 12"	HOUR	5	\$679.00	\$3,395.00	
5	SANITARY SEWER TO BE CLEANED, 15"	HOUR	5	\$679.00	\$3,395.00	
6	SANITARY SEWER TO BE CLEANED, 21"	HOUR	5	\$815.00	\$4,075.00	
7	TELEVISING SANITARY SEWERS	FOOT	15,330	\$4.00	\$61,320.00	

SIGNATURES

(If an individual)	Signature of Bide	ler	
	_	s	
-			
(If a co-partnershi			(SEAL)
			,
	Signed by		(SEAL)
	Business Addre	ss	******************
	Insert Names and		
	Addresses of All Members	***************************************	*******************************
	of the Firm	***************************************	***************************************
		************************	***************************************
(If a corporation)	Corporate Nam	· Hour Capelinetias In	······································
			President
	Business Addr	ess 1416 County Road 200N, Good	Alid IL GITHT
			ORPORAZ
			(Corporate Seal)
		Marphan	E SEAI
	Insert Names of	President Max P. Haelf I	LLINOIS
	Officers	Secretary Max R Hour II	" KTINOIS
		Treasurer Kurl Platface	
Maria Pal	Mannia		
Attest:	manning Simple	•••	
Phone Number		- :	

BIDDER'S CERTIFICATE

The undersigned, having executed the attached bid for the construction of:
Name of Project
Name of Project
for the Village/City/Town of Crost Ail , County of Will ,
State of hereby certifies that he has read all of the Contract
Documents, including the Notice to Bidders, Instructions to Bidders, Proposal Forms,
General conditions of the contract, Detail Specifications, Forms of contract, Form of
Performance Bond and Form of Maintenance Bond, and that he has examined the plans
and that his proposal for the work is based on the conditions and requirements therein;
and should the contract be awarded to him, he agrees to execute the work in strict
accordance therewith, including compliance with the Insurance Requirements of the
General Conditions.
*
Name of Bidder
By: Agen an Anciden Inc. May, Weyt
Date:

Executed by Municipality

	Executed	7
,	7	Ī
	Contractor	2

		CONTRACT		
THIS AGREEMENT City of Crest F	T'11	cluded this 2nd day of, acting by and through its	Marian	, 20 <u>24</u> , between the and City Council
known as the party of the first			·	, his/their
executors, administrators, su				, morenen
2. WITNESSETH: That	t for and in con	sideration of the payment ar	nd agreements r	mentioned in the Proposal
hereto attached, to be made a	and performed	by the party of the first part	, and according	to the terms expressed in
the Bond referring to these p	resents, the part	y of the second part agrees	with said party o	of the first part at his/their
own proper cost and expense	to do all the wo	ork, furnish all materials and	l all labor necess	sary to complete the work
in accordance with the plans	and specification	ons hereinafter described, ar	nd in full compli	iance with all of the plans
of this agreement and the req	quirements of th	e Engineer under it.		
Requirements and Covenant III) and Standard drawings contractor's proposal is base hereof.	(Division IV),	in addition to any specific	plans and speci	fications upon which the
4. IN WITNESS WHER	REOF, the said	parties have executed these	presents on the	date above mentioned.
FOR THE CITY OF CREST	HILL, IL			
(Party of the First Part)	By:			
	Title: Raymon	d R. Soliman, Mayor		MUNICIPAL SEAL
	Attest:		=======================================	
	Title: Christine	e Vershay-Hall, City Clerk		
FOR THE CONTRACTOR (Party of the Second Part)	By:	Hoerr Construction, Inc.	union STF	RUCTO

Title: Andrew Hoerr Vice President

Attest:_

Attester's Title: Kurt Plattyler, Treasurer, LL



CONTRACT BOND BOND NO. 2630923

Hoerr Construction, Inc.

KNOWN ALL MEN BY T	HESE PRESENTS, th	at we,	H	loerr C	onstructio	n, Inc.		
	, a corporation	organized	under	the	laws o	of the	State	of
Illinois	, and license	d to do busir	ness in the	e State	of Illino	is, as pr	incipal.	, and
(Contractor's State) West Bend Insurance Company	, a corpo	ration organ	ized and	existin	g under t	he laws	of the S	State
of Wisconsin	, with authority to							
(Surety's State) and firmly bound unto the	City of Crest Hi							
•	y-Nine Thousand Seven							llars
(\$ 89,760.00), lawful mor	ney of the U	nited Sta	tes, w	ell and tr	uly to b	e paid	unto
said City of Crest Hill	, for the pay	•						
assigns, jointly, severally, and firm								
THE CONDITION OF THE	E FOREGOING OBLI	GATION IS	SUCH t	hat wh	ereas, the	e said Pı	rincipal	l has
entered into a written contract with								and
acts through its May	or and City Council	·				ne work		
	0481.01 - 2024 Sanitary							
							, wh	
contract hereby is referred to and m	ade a part hereof as if	written here	in in leng	th. and	d whereb	v the sai		
has promised and agreed to perform								
to pay all sums of money due for any								
for the purpose of performing such								
person, firm, company, or corporati								
reason whatsoever, during the time								
that this bond shall inure to the ben								
be due from the Principal, subcor								
machinery so furnished, and that s		l on such bo	nd by an	ıy suci	n person,	firm, c	ompan	y or
corporation, for the recovery of any	such money.							
NOW, THEREFORE, if the	e said Princinal shall w	vell and truly	nerform	said v	vork in a	ccordan	ce with	the
terms of said contract, and shall pay								
terms of said contract, and snail pay	an sums of money du	te of to peco	me due n	or any	labor, in	attituis.	appara	11113,

indirect, that may be suffered or sustained on account of

fixtures or machinery furnished to him for the purpose of constructing such work, and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and

have been accepted, and shadamages, and shall in all resorts of said contract, then this of	whatsoever, during the time of the performance thereof nall hold the aforesaid Owner and its or his agents harr spects fully and faithfully comply with all the provisions bligation to be void, otherwise to remain in full force and the base duly executed the force in a philipation this	nless on account of any such, conditions and requirements d effect.
	we have duly executed the foregoing obligation this	day or
Contractor's corporate name	By: Hoerr Construction, Inc.	CORPORATE SEAL
	Attester's Title: TVLASUVLV	SEAL Z
Surety's corporate name:	By: Wesley Shade Attorney-in-fact	CORPORATE SEAL Contractor
	By:Attorney-in-fact	
APPROVED THIS	DAY OFA.D. 20	
CITY OF CREST HILL, IL		
	By: Title:	MUNICIPAL SEAL
ATTEST FOR CITY OF CE	By:	MUNICIPAL SEAL
	Title: Christine Vershay-Hall, City Clerk	



STATE OF ILLINOIS) SS
COUNTY OF WOODFORD)
I, Holly Noel Yvep , a Notary Public in and for said County in the State aforesaid, (Notary)
do hereby certify that Avarew Hoev and Kurt Plattner, to me
personally known to be president and <u>treasurer</u> , respectively, of <u>theer construction</u> , Inc. , (Attesters Title) (Contractor)
a corporation, and also known to me to be the persons whose names are subscribed to the foregoing instrument,
appeared before me this day in person and acknowledged that as such president and
respectively they signed, sealed and delivered the said instrument as the free and voluntary act of said Corporation,
for the uses and purposes therein set forth, and that they were duly authorized to execute the same by the Board
of Directors of said Corporation.
GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS 13th DAY OF December A.D. 20 24
SEAL OFFICIAL SEAL HOLLY NOEL KNEPP Notary Public - State of Illinois Commission No. 991836 My Commission Expires June 5, 2028 Notary Public
STATE OF ILLINOIS)) SS COUNTY OF MACON)
I, Catherine L Ater, a Notary Public in and for said County in the State aforesaid, do hereby
certify that Wesley Shade who is personally known to me to be the same person who signed
the above and foregoing instrument as the Attorney in Fact for West Bend Insurance Company appeared (Surety)
before me this day in person and acknowledged that he signed the name of Wesley Shade
thereto, as his Principal, and his own name as Attorney in Fact, as the free and voluntary act of his said Principal
for the uses and purposes therein set forth, and that he executed the said instrument under authority given him by
said Principal.
GIVEN UNDER MY HAND AND NOTARIAL SEAL THIS13TH DAY OFDECEMBER A.D. 20_24
SEAL CATHERINE L ATER NOTARY PUBLIC, NOTARY SEAL STATE OF ILLINOIS, MACON COUNTY COMMISSION #894369 HY COMMISSION EXPIRES: MAY 07, 2027



Bond No. 2630923	
------------------	--

POWER OF ATTORNEY

Know all men by these Presents, that West Bend Insurance Company (formerly known as West Bend Mutual Insurance Company prior to 1/1/2024), a corporation having its principal office in the City of West Bend, Wisconsin does make, constitute and appoint:

Wesley Shade

lawful Attorney(s)-in-fact, to make, execute, seal and deliver for and on its behalf as surety and as its act and deed any and all bonds, undertakings and contracts of suretyship, provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of: Thirty Million Dollars (\$30,000,000)

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of West Bend Insurance Company by unanimous consent resolution effective the 1st day of January 2024.

Appointment of Attorney-In-Fact. The president or any vice president, or any other officer of West Bend Insurance Company may appoint by written certificate Attorneys-In-Fact to act on behalf of the company in the execution of and attesting of bonds and undertakings and other written obligatory instruments of like nature. The signature of any officer authorized hereby and the corporate seal may be affixed by facsimile to any such power of attorney or to any certificate relating therefore and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the company, and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the company in the future with respect to any bond or undertaking or other writing obligatory in nature to which it is attached. Any such appointment may be revoked, for cause, or without cause, by any said officer at

Any reference to West Bend Mutual Insurance Company in any Bond and all continuations thereof shall be considered a reference to West Bend Insurance Company.

In witness whereof, West Bend Insurance Company has caused these presents to be signed by its president undersigned and its corporate seal to be hereto duly attested by its secretary this 1st day of January 2024.

Christopher C. Zwygart

Secretary

State of Wisconsin County of Washington Robert J. Jacques

President

On the 1st day of January 2024, before me personally came Robert Jacques, to me known being by duly sworn, did depose and say that he is the President of West Bend Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to said instrument is such corporate seal; that is was so affixed by order of the board of directors of said corporation and that he signed his name thereto by like order.

Lead Corporate Attorney

Notary Public, Washington Co., WI

My Commission is Permanent

The undersigned, duly elected to the office stated below, now the incumbent in West Bend Insurance Company, a Wisconsin corporation authorized to make this certificate, Do Hereby Certify that the foregoing attached Power of Attorney remains in full force effect and has not been revoked and that the Resolution of the Board of Directors, set forth in the Power of Attorney is now in force.

Signed and sealed at West Bend, Wisconsin this 13th day of _

Christopher C. Zwygart

DIVISION I

GENERAL REQUIREMENTS
AND COVENANTS

SECTION	1 1. DEFINITION OF TERMS	1
1-1	DESCRIPTION	1
1-2	ABBREVIATIONS	1
1-3	ADDENDA	2
1-4	AWARD	2
1-5	BASE COURSE	2
1-6	BITUMINOUS PAVEMENT	2
1-7	BIDDER	2
1-8	CONTRACT	2
1-9	CONTRACTOR	3
1-10	CONTRACT BOND	3
1-11	CORPORATION	3
1-12	CULVERT	3
1-13	ENGINEER	4
1-14	FORCE MAIN	4
1-15	ENGINEERING OBSERVER	4
1-16	LABORATORY	4
1-17	MANHOLE	4
1-18	NOTICE TO BIDDERS	4
1-19	OWNER	4
1-20	PAVEMENT STRUCTURE	4
1-21	PLANS	5
1-22	PLUMBING	5
1-23	PROPOSAL (BID)	5
1-24	PROPOSAL GUARANTY	5
1-25	RAILROAD	5
1-26	RIGHT-OF-WAY AND EASEMENTS	5
1-27	SEWER, COMBINED	5
1-28	SEWER, SANITARY	5
1-29	SEWER, SERVICE	6
1-30	SEWER, STORM	6
1-31	SPECIAL PROVISIONS	6

1-32	SPECIFICATIONS	6
1-33	STATE SPECIFICATIONS	6
1-34	SUBCONTRACTOR	6
1-35	SUB-BASE	6
1-36	SUB-GRADE	7
1-37	SUPPLEMENTAL AGREEMENT	7
1-38	SUPPLIER	7
1-39	SURETY	7
1-40	SURFACE COURSE	7
1-41	WATER MAIN	7
1-42	WATER SERVICE LINE	7
1-43	THE WORK	7
	A DECOCAL DECUMPERATIVE AND CONDITIONS	o
	2. PROPOSAL REQUIREMENTS AND CONDITIONS	8
2-1	CONTENTS OF THE PROPOSAL FORM	8
2-2	INTERPRETATION OF ESTIMATE OF QUANTITIES	8
2-3	EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND SITE OF WORK	8
2-4	ENGINEER'S ESTIMATE	9
2-5	PREPARATION OF THE PROPOSAL	9
2-6	MULTIPLE BIDS	9
2-7	REJECTION OF PROPOSALS	9
2-8	PROPOSAL GUARANTY	10
2 -9	DELIVERY OF PROPOSALS	10
2-10	WITHDRAWAL OF PROPOSALS	10
2-11	WITHDRAWAL OF PROPOSAL GUARANTY	10
2-12	PUBLIC OPENING OF PROPOSALS	10
2-13	DISQUALIFICATION OF BIDDERS	11
2-14	COMPETENCY OF BIDDERS	11
2-15	MATERIAL SUBSTITUTIONS	12
2-16	CONTRACTOR'S UNDERSTANDING	12
2-17	STATUS OF RIGHT-OF-WAY, EASEMENT AND CONSTRUCTION EASEMENT ACQUISITION	12

SECTION 3. AWARD AND EXECUTION OF CONTRACT		13
3-1	CONSIDERATION OF PROPOSALS	13
3-2	AWARD OF CONTRACT	13
3-3	RETURN OF PROPOSAL GUARANTY	13
3-4	REQUIREMENT OF CONTRACT BOND	13
3-5	EXECUTION OF THE CONTRACT	14
3-6	FAILURE TO EXECUTE CONTRACT	14
SECTIO	N 4. SCOPE OF WORK	15
4-1	INTENT OF THE PLANS AND SPECIFICATIONS	15
4-2	SPECIAL WORK	15
4-3	CHANGES	15
4-4	PERIODIC AND FINAL CLEANUP	16
4-5	LUMP SUM CONTRACTS	17
4-6	LOCAL ORDINANCES AND REGULATIONS	17
4-7	PREFERENCE TO VETERANS	17
SECTIO	N 5. CONTROL OF THE WORK	18
5-1	PLANS AND WORKING DRAWINGS	18
5-2	CONFORMITY WITH PLANS AND SPECIFICATIONS	18
5-3	COORDINATION OF COMPONENT PARTS OF THE CONTRACT	18
5-4	COOPERATION BY CONTRACTOR	19
5-5	UTILITIES	15
5-6	COOPERATION BETWEEN CONTRACTORS	15
5-7	CONSTRUCTION STAKES	20
5-8	AUTHORITY AND DUTIES OF OBSERVERS	20
5-9	ENGINEER'S FIELD OFFICE AND/OR LABORATORY	20
<i>5-10</i>	CONSTRUCTION OBSERVATION	21
5-11	REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK	- 22
<i>5-12</i>	FINAL ACCEPTANCE	22
E 12	DUDUC CONSTRUCTION RID ACT 20 II CS 557/1	22

SECTION 6. CONTROL OF MATERIAL		24
6-1	QUALITY OF MATERIALS	24
6-2	DEFECTIVE MATERIALS	24
6-3	TESTING MATERIALS	24
6-4	SAND, GRAVEL AND CRUSHED STONE	24
6-5	CONCRETE	24
6-6	MISCELLANEOUS MATERIALS	25
6-7	JOB SITE OBSERVATION	25
6-8	STORED MATERIALS	25
6-9	"OR EQUAL" CLAUSE	25
	THE STATE OF THE S	26
	7. LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC	26 26
7-1	LAWS TO BE OBSERVED	20 27
7-2	INSURANCE REQUIREMENTS	
7-3	PERMITS AND LICENSES	33
7-4	PATENTS AND ROYALTIES	33
7-5	STATE AND FEDERAL PARTICIPATION	34
7-6	SANITARY PROVISIONS	34
7-7	PUBLIC CONVENIENCE AND SAFETY	34
7-8	BARRICADES AND WARNING SIGNS	34
7-9	DEBRIS ON TRAVELED SURFACE OR STRUCTURES	35
7-10	EQUIPMENT ON TRAVELED SURFACE AND STRUCTURES	35
7-11	USE OF EXPLOSIVES	35
7-12	USE OF FIRE HYDRANTS	35
7-13	PROTECTION AND RESTORATION OF PROPERTY	36
7-14	PROTECTION AND RESTORATION OF TRAFFIC SIGNS	37
7-15	CONTRACTOR'S RESPONSIBILITY FOR WORK	37
7-16	GUARANTEE PERIOD	38
7-17	PERSONAL LIABILITY OF OWNER'S AGENTS	38
7-18	NO WAIVER OF LEGAL RIGHTS	38
7-19	SAFETY	39
7-20	USE OF PRIVATE LAND	39

7-21	USE OF WATER	39
7-22	COST OF SERVICES	39
<i>7-23</i>	WORK IN BAD WEATHER	39
7-24	SUNDAY WORK	39
<i>7-25</i>	WATCHMEN	40
<i>7-26</i>	CONSTRUCTION DEBRIS	40
7-27	SAMPLE INSURANCE CERTIFICATE	41
SECTIO	N 8. PROSECUTION AND PROGRESS	42
8-1	SUBLETTING OR ASSIGNMENT OF CONTRACT	42
8-2	PROGRESS SCHEDULE	42
<i>8-3</i>	PRE-CONSTRUCTION CONFERENCE	42
8-4	PROSECUTION OF THE WORK	42
8-5	COMPLETION DATE	42
8-6	LIMITATIONS OF OPERATIONS	43
8-7	SUSPENSION OF WORK	43
<i>8-8</i>	DETERMINATION AND EXTENSION OF CONTRACT TIME FOR COMPLETION	43
<i>8-9</i>	FAILURE TO COMPLETE THE WORK ON TIME	44
8-10	DEFAULT ON CONTRACT	44
8-11	TERMINATION OF THE CONTRACTOR'S RESPONSIBILITY	45
<u>SECTIO</u>	N 9. MEASUREMENT AND PAYMENT	46
9-1	MEASUREMENT OF QUANTITIES	46
9-2	SCOPE OF PAYMENT	46
9-3	INCREASED OR DECREASED QUANTITIES	46
9-4	PAYMENT FOR EXTRA WORK	47
9-5	PAYMENT FOR SUBCONTRACTING, EXTRA WORK	48
9-6	PARTIAL PAYMENTS	48
9-7	ACCEPTANCE AND FINAL PAYMENT	49
9-8	OWNER'S RIGHT TO WITHHOLD CERTAIN AMOUNTS	49
9-9	RELEASE OF CLAIMS AND LIFNS	50

SECTION 1. DEFINITION OF TERMS

1-1 DESCRIPTION

When a standard specification number is used in the Specifications it shall be taken to mean the latest revision of that Standard Specification at the time of the Bid.

Whenever in the specifications and Contract the following terms, or pronouns in place of them, are used, the intent and meaning shall be interpreted as follows:

1-2 ABBREVIATIONS

The following organizations are referred to in this specification by abbreviations of the titles. Additional information noted but not detailed can be obtained from these organizations by writing to them.

ASTM

American Society for Testing and Materials

1916 Race Street

Philadelphia, Pennsylvania 19103

ASSHTO

The American Association of State Highway and Transportation Officials

917 National Press Building Washington, D.C. 20004

AWWA

American Water Works Association

6666 West Quincy Avenue Denver, Colorado 80235

NSF

National Sanitation Test Laboratory Foundation

Box 1478

Ann Arbor, Michigan

ANSI

American National Standards Institute

1430 Broadway

New York, New York 10018

IDOT

Illinois Department of Transportation

2300 South Dirksen Parkway Springfield, Illinois 62764

FHWA

Federal Highway Administration

DOT Building, 400 Seventh St., S.W.

Washington, D.C. 20590

OSHA

Occupational Safety and Health Act

MWRDGC

The Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street Chicago, Illinois 60611

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REL Robinson Engineering, Ltd

ISO Insurance Services Office

1-3 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.

1-4 AWARD

The decision of the Owner to accept the proposal of the lowest responsive, responsible bidder for the work, subject to the execution of and approval of a satisfactory Contract therefore, and bond to secure the performance thereof, and to such other conditions as may be specified or otherwise required by law.

1-5 BASE COURSE

The layer or layers of specified or selected material of designed thickness placed on a sub-base or a subgrade to support the surface course.

1-6 BITUMINOUS PAVEMENT

A pavement structure which maintains intimate contact and distributes loads to the subgrade and depends upon aggregate interlock particle friction and cohesion for stability, and a pavement structure which includes a bituminous concrete surface course over a bituminous concrete base course or a portland cement concrete base course.

1-7 BIDDER

Any individual, firm, partnership or corporation submitting a proposal for the Work contemplated, acting directly or through a duly authorized representative.

1-8 CONTRACT

The written agreement between the Owner and the Contractor setting forth the obligations of the parties thereunder, including, but not limited to, the performance of the Work (the furnishing of labor and materials, and the basis of payment).

The Contract includes such of the following document parts as may be utilized. These document parts so utilized will be as fully part of the Contract as if therein set out verbatim, or, if not attached, as if attached thereto. The controlling order of priority for these documents on the project is as follows (e.g., A is controlling over B-N, etc.):

- A. Supplemental Agreements (Change Order)
- B. Addenda
- C. Special Conditions of Contract
- D. General Conditions of Contract
- E. Special Provisions to the Specifications
- F. Detailed Specifications
- G. Complete Project Plans or Drawings
- H. General Specifications
- Contract
- J. Contractor's Contract Bond
- K. Contractor's Proposal
- L. Notice to Proceed
- M. Notice of Award
- N. Notice to Bidders

1-9 CONTRACTOR

The Bidder awarded the Contract for the Work.

1-10 CONTRACT BOND

The approved form of security furnished by the Contractor and his surety as a guaranty that he will execute the Work in accordance with the terms of the Contract.

1-11 CORPORATION

With respect to the execution and performance of the Contract, a corporate body authorized or licensed to do business in the State of Illinois for projects in Illinois and in the State of Indiana for projects in Indiana.

1-12 CULVERT

A drainage structure extending across and beneath a traveled way and having a tubular or box-type cross-section open on both ends.

1-13 ENGINEER

ROBINSON ENGINEERING, LTD. or an engineer of a municipality, including such assistants as are authorized to represent them, who represents the Owner during the construction phase activities of the Work.

1-14 FORCE MAIN

A pipe constructed or used to carry sewage under pressure.

1-15 ENGINEERING OBSERVER

The authorized representative of the Owner or of the Engineer assigned to observe the progress of the Work to determine only if the Work is proceeding in accordance with the technical plans and specifications.

1-16 LABORATORY

An established testing laboratory approved by the Engineer.

1-17 MANHOLE

A vertical enclosed structure providing access to a pipe line or other structure.

1-18 NOTICE TO BIDDERS

The official notice, included in the proposal form, inviting bids for the proposed improvement, including a brief description of the Work.

1-19 OWNER

The Village, City, Town, Sanitary District, or other governmental body, corporation, partnership or individual initiating the project, acting through its legally constituted officials, officers or employees. The Department as referenced in the State Specifications.

1-20 PAVEMENT STRUCTURE

The combination of sub-base, base course and surface course placed on a sub-grade to support the traffic load and distribute it to the roadbed.

1-21 PLANS

All official drawings or reproductions of drawings pertaining to the Work provided for in the contract.

1-22 PLUMBING

Plumbing shall be as defined in the latest adopted Illinois State Plumbing Code, copies of which are available from the Illinois Department of Public Health, Division of Engineering and Sanitation, 535 West Jefferson Street, Springfield, Illinois 62706.

1-23 PROPOSAL (BID)

The written offer of the Bidder to perform the proposed Work.

1-24 PROPOSAL GUARANTY

The security designated in the proposal to be furnished by the Bidder as a guaranty that said Bidder will enter into a Contract with the Owner for the acceptable performance of the Work and will furnish the required Contract Bond, if the Work is awarded to him.

1-25 RAILROAD

The Railroad or Railway Company whose property is involved in the Work.

1-26 RIGHT-OF-WAY AND EASEMENTS

The areas owned, or acquired by permanent easement; also, the areas acquired by temporary easement during the time the easement is in effect.

1-27 SEWER, COMBINED

Any sewer constructed or used for the purpose of carrying both storm water and waterborne wastes to a treatment facility.

1-28 SEWER, SANITARY

Any sewer constructed or used for the purpose of carrying waterborne wastes to a treatment facility.

1-29 SEWER, SERVICE

A branch sanitary sewer line constructed from the main sanitary sewer line to a point described in the Special Provisions or Plans or to a point established by the Engineer.

1-30 SEWER, STORM

A sewer constructed or used for carrying storm water or sub-surface water to a storm water outlet.

1-31 SPECIAL PROVISIONS

Specific directions, provisions, requirements and revisions of the Specifications peculiar to the Work under consideration which are not satisfactorily provided for in the Specifications. The Special Provisions set forth the final contractual intent as to the matter involved. The Special Provisions included in the Contract shall not operate to annul those portions of the Specifications with which they are not in conflict.

1-32 SPECIFICATIONS

The body of directions, provisions and requirements contained herein, or in any supplement to this document referred to in the Special Provisions, together with written agreements and all documents of any description made or to be made pertaining to the method or manner of performing the Work, the quantities or the quality of materials to be furnished under the contract.

1-33 STATE SPECIFICATIONS

IDOT, Standard Specifications for Road and Bridge Construction, latest edition at the time of Bid. This book outlines the general requirements and covenants to all improvements, as well as provisions relating to materials, equipment and construction requirements for individual items of work.

1-34 SUBCONTRACTOR

The individual, firm, partnership or corporation to whom the Contractor, with the written consent of the Engineer, sublets, assigns, or otherwise disposes of any part of the Work covered by the contract.

1-35 SUB-BASE

The layer or layers of specified or selected material of designed thickness placed on a sub-grade to support a base course.

1-36 SUB-GRADE

The top of surface of a roadbed upon which the pavement structure and shoulders are constructed.

1-37 SUPPLEMENTAL AGREEMENT

The written agreement executed by the Owner and the Contractor, with the assent of the Contractor's surety, covering modifications or alterations of the terms of the original Contract.

1-38 SUPPLIER

Any person or organization who supplies materials or equipment for the Work including that fabricated to a special design.

1-39 SURETY

The corporate body, individual or individuals which engage to be responsible for the Bidder's acts in the execution of the Contract in the event of its being awarded to him; or, which are bound with and for the Contractor to insure his acceptable performance of the Contract, his payment of all obligations pertaining to the Work, and his fulfillment of such other conditions as may be specified or otherwise required by law.

1-40 SURFACE COURSE

One or more layers of a pavement structure designed to accommodate the traffic load, the top layer of which resists skidding, traffic abrasion, and the disintegrating effects of climate. The top layer is sometimes called "wearing course".

1-41 WATER MAIN

A pipe constructed or used to carry potable water under pressure.

1-42 WATER SERVICE LINE

That line connected to the water main, which delivers potable water to the user's facilities.

1-43 THE WORK

The improvement advertised for bids, described in the Proposal form, indicated on the Plans and covered in the Specifications, Special Provisions, Contract, authorized alterations, extensions and deductions, and supplementary agreements, or any part or parts thereof.

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SECTION 2. PROPOSAL REQUIREMENTS AND CONDITIONS

2-1 CONTENTS OF THE PROPOSAL FORM

Bidders will be furnished with forms stating the location and description of the Work contemplated, the approximate quantities of Work to be performed, the amount of the Proposal Guarantee, requirements pertaining to labor, and the date, time and place of filing and opening Proposals. All documents bound with or attached to the proposal shall be considered a part thereof, and shall not be detached or altered.

2-2 INTERPRETATION OF ESTIMATE OF QUANTITIES

An estimate of quantities of Work to be done and materials to be furnished under the Specifications is given in the Proposal. It is given as a basis for comparison of Proposals and the award of the Contract. The Owner and Engineer do not expressly or by implication agree that the actual quantities involved will correspond therewith; nor shall the Bidder plead misunderstanding or deception because of such estimate of quantities pertaining to the Work.

Payment will be based on the actual quantities of Work performed in accordance with Contract, at the Contract unit prices specified. No allowance will be made for any change in anticipated profits due to an increase or decrease in the original estimate of quantities. The Owner reserves the right to omit any item entirely, or to increase or decrease any or all items as provided in Section 4-3.

2-3 EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND SITE OF WORK

The bidder shall, before submitting his bid, carefully examine the Proposal, Plans, Specifications, Special Provisions, and form of Contract and bond. He shall inspect in detail the site of the proposed Work and familiarize himself with all the local conditions affecting the Contract and the detailed requirements of construction. If his Bid is accepted, he will be responsible for all errors in his Proposal resulting from his failure or neglect to comply with these instructions. The Owner or Engineer will, in no case, be responsible for any change in anticipated profits resulting from such failure or neglect.

When the Plans or Special Provisions include information pertaining to sub-surface exploration, borings, test pits, and other preliminary investigations, such information is included only for the convenience of the Bidder. The Owner or Engineer assumes no responsibility whatever in respect to the sufficiency of the information, and there is no guaranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the Work, or that unanticipated developments may not occur.

When the Plans or Special Provisions include information pertaining to the location of underground utility facilities, such information is only included for the convenience of the Bidder. The Owner or Engineer assumes no responsibility whatever in respect to the sufficiency or accuracy of the information, or lack of information, shown on the Plans relative to the location of underground utility

facilities. It shall be the Contractor's responsibility to obtain from the respective utility companies detailed information relative to the location of their facilities and the work schedules of the utility companies for removing or adjusting them.

2-4 ENGINEER'S ESTIMATE

The Engineer's "Estimate of Cost" as prepared for the Owner for the work to be completed under this contract may or may not be available to the Bidders at the discretion of the Owner or the Engineer. If the "Estimate of Cost" is available, it shall be given to all prospective bidders upon request.

2-5 PREPARATION OF THE PROPOSAL

The Bidder shall submit his Proposal on the form furnished by the Owner. The Proposal shall be executed properly, and Bids shall be made for all items indicated in the proposal form, except that when alternate bids are asked, a Bid on more than one alternate for each item is not required, unless the Special Provisions provide otherwise. The Bidder shall indicate, in figures, a unit price or lump sum for each of the separate items called for in the Proposal; he shall show the products of respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the Proposal shall be the summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder, which shall be written with ink.

If the Proposal is made by an individual, his name and post office address shall be shown. If made by a firm, joint venture, or partnership, the name and post office address of each member of the firm, joint venture, or partnership shall be shown. If made by a corporation, the Proposal shall show the names, titles, and business addresses of the president, secretary, and treasurer, certified to by the secretary.

2-6 MULTIPLE BIDS

If multiple Bids are to be received, bidding shall be in accordance with the instructions in the Special Provisions.

2-7 REJECTION OF PROPOSALS

Proposals that contain omissions, erasures, alterations, additions not called for, conditional or alternate bids unless called for, irregularities of any kind, or proposals otherwise regular which are not accompanied by the proper proposal guaranty shall be rejected as informal or insufficient. However, the Owners reserve the right to reject any or all Proposals and to waive such technical error as may be deemed best for the interest of the Owner.

2-8 PROPOSAL GUARANTY

Each proposal shall be accompanied by a bid bond, bank draft, bank cashier's check, or properly certified check for not less than ten per cent (10%) of the amount Bid unless otherwise specified in the Special Provisions.

If a multiple Bid is submitted, the bid bond, bank draft, bank cashier's check, or certified checks, which accompany the individual Proposals making up the combination, will be considered as also covering the multiple Bid.

See Paragraph 3-3 regarding return of Proposal Guaranty.

The bid bond, bank draft, cashier's checks, or certified checks accompanying Proposals shall be made payable to the Owner.

2-9 DELIVERY OF PROPOSALS

Proposals shall be delivered prior to the time and at the place indicated in the notice to bidders. Each Proposal shall be placed in an envelope sealed and plainly marked to indicate its contents. Only sealed Proposals will be accepted.

Proposals will not be opened unless received at the place of letting and prior to the time stated in the Notice to Bidders.

2-10 WITHDRAWAL OF PROPOSALS

Permission will be given a Bidder to withdraw a Proposal if he makes his request in writing before the time for opening Proposals. If a Proposal is withdrawn, the Bidder will not be permitted to submit another Proposal for the same Work at the same letting.

2-11 WITHDRAWAL OF PROPOSAL GUARANTY

See Paragraphs 3-2 and 3-3 on award of Contract and return of Proposal Guaranty.

2-12 PUBLIC OPENING OF PROPOSALS

Unless otherwise specified, Proposals will be opened and read publicly at the time and placed specified in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

2-13 DISQUALIFICATION OF BIDDERS

Any one or more of the following causes may be considered as sufficient for the disqualification of a Bidder and rejection of his Proposal.

- A. More than one Proposal for the same Work from an individual, firm, partnership, or corporation under the same or different names.
- B. Evidence of collusion among bidders.
- C. Unbalanced Proposals in which the prices for some items are substantially out of proportion to the prices for other items.
- D. Failure to submit a unit price for each item of Work listed in the Proposal.
- E. If the Proposal form is other than that furnished by the Engineer or if the form is altered or any part thereof is detached.
- F. If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the Proposal incomplete, indefinite or ambiguous as to its meaning.
- G. If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- H. If the Proposal is not accompanied by the proper proposal guaranty.
- I. If the Proposal is prepared with other than ink or typewriter.
- J. Lack of competency as revealed by financial statement or experience questionnaire.
- K. Unsatisfactory performance record as shown by past work judged from the standpoint of workmanship and progress.
- L. Uncompleted work, which, in the judgment of the Owner, might hinder or prevent the prompt completion of additional work.
- M. False information provided on a Bidder's "Contractor's Statement."
- N. Failure to comply with any prequalification regulations of the Owner.
- O. Default under previous contracts.

2-14 COMPETENCY OF BIDDERS

The Bidder, if a corporation, shall show the name of the State in which the corporation is chartered. Each Bidder shall furnish the Owner within two (2) weeks after request, with satisfactory evidence of his competency to perform the Work contemplated. When requested, he shall submit to the Owner a

financial statement prepared by a Certified Public Accountant showing his financial condition at the end of his past fiscal year. The accountant who prepares the statement shall certify that he holds a valid and unrevoked certificate as a Certified Public Accountant, issued in accordance with the laws of the State in which he is licensed. The Bidder, if requested, shall also answer and submit questionnaires relating to his experience and available equipment for performing construction work similar to that for which he is offering a proposal, and shall do so within the same two weeks from the time of request.

Before an award is made, the Bidder may, at the option of the Owner be required to furnish a statement showing the value of all uncompleted work for which he has entered into contracts.

2-15 MATERIAL SUBSTITUTIONS

If restrictions of any governmental authority prohibit the use of certain items that are required by the Plans and Specifications, substitution for such items will be determined by the Owner.

Each Bidder shall base his bid on the furnishing of all items exactly as shown on the Plans and as described in the Specifications. The successful Bidder will not be authorized to make any substitutions on his own volition, but in each and every case must obtain a properly authorized change order from the Owner on his Contract before installing any work in variance with the Contract requirements.

2-16 CONTRACTOR'S UNDERSTANDING

It is understood and agreed that the Contractor has, by careful examination, satisfied himself as to the nature and location of the work, the conformation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the prosecution of the Work, the general and local conditions, and all other matters which can in any way affect the Work under this Contract. No verbal agreement or conversation with any officer, agent, or employee of the Owner and Engineer, either before or after the execution of this Contract, shall affect or modify any of the terms or obligations herein contained.

2-17 STATUS OF RIGHT-OF-WAY, EASEMENT AND CONSTRUCTION EASEMENT ACQUISITION

Each bidder is instructed to fully acquaint himself with the status of the right-of-way, easement and construction easement acquisition at the time of submission of his proposal and the possibility of the acquisition of the parcels remaining to be acquired, if any, in time so as not to interfere with the progress of his work under this contract, and the owner shall not be liable to any damage that may occur to him for any and all delay through delay of the owner in securing the necessary right-of-way, easement and construction easement.

The owner agrees that it will make every effort to acquire any right-of-way, easement and construction easement with all speed and diligence possible.

SECTION 3. AWARD AND EXECUTION OF CONTRACT

3-1 CONSIDERATION OF PROPOSALS

The proposals received will be compared on the basis of the summation of the products of the items of Work listed and the unit prices offered. In case of discrepancy between the gross sum shown in the Proposal prices, the unit prices shall govern, and any errors found in said products shall be corrected. In awarding Contracts, the Owner will, in addition to considering the amounts stated in the Proposals, take into consideration the responsibility of the various Bidders as determined from a study of the data required under the previous article and from other investigations, which the Owner may elect to make.

3-2 AWARD OF CONTRACT

Except in cases where the Owner exercises the right reserved to reject any or all Proposals, the Contract will be awarded by the Owner, as soon as practicable after the opening of Proposals.

Unless otherwise specified, if a Contract is not awarded within forty- five (45) days after the opening of Proposals, a Bidder may file a written request with the Owner for the withdrawal of his bid or award date may be extended by mutual consent of the Owner and Bidder. The Owner will have a maximum of ten (10) days after the receipt of such request to award the Contract or release the Bidder from further obligation by return of the Bidder's Proposal Guaranty.

3-3 RETURN OF PROPOSAL GUARANTY

The Proposal Guaranties of all except the two lowest Bidders will be returned promptly after the Proposals have been checked. Proposal Guaranties of the two lowest Bidders will be returned as soon as the Contract and Bond of the successful bidder have been properly executed and approved.

If Contracts cannot be awarded promptly, the Owner shall permit the two (2) lowest Bidders to substitute for the bank cashier's checks, or certified checks which they may have submitted with their Proposals as Proposal Guaranties, a bid bond executed by a corporate surety company satisfactory to the Owner, but such substitutions shall not be made until a period of three (3) days has elapsed after the date of opening Proposals.

3-4 REQUIREMENT OF CONTRACT BOND

The successful Bidder, at the time of the execution of the Contract, shall deposit with the Owner a surety bond for the full amount of the Contract. The form of bond shall be that furnished by the Owner, and the surety shall be acceptable to the Owner.

3-5 EXECUTION OF THE CONTRACT

The contract shall be executed by the successful Bidder. The bond, when required, shall be executed by the principal and the sureties, and executed Contract and Contract Bond shall be presented to the Owner within fifteen (15) days after the date of notice of the award of the Contract.

Each Contract must be executed in three (3) original counterparts, and there shall be executed original counterparts of the Contract Bond in equal number to the executed original counterparts of the Contract. One (I) copy each of such executed documents will be retained by the Owner and the Engineer, the third will be delivered to the Contractor.

3-6 FAILURE TO EXECUTE CONTRACT

Failure on the part of the successful Bidder to execute a Contract and an acceptable Contract Bond and acceptable insurance certificates as provided herein, within fifteen (15) days from the date of receipt of Contract documents from the Owner will be considered as just cause for the annulment of the award and the forfeiture of the proposal guaranty to the Owner, not as a penalty but in payment of liquidated damages sustained as a result of such failure.

SECTION 4. SCOPE OF WORK

4-1 INTENT OF THE PLANS AND SPECIFICATIONS

The intent of the contract is to prescribe a complete outline of work which the Contractor undertakes to do in full compliance with the contract, plans and specifications. The Contractor shall furnish all required materials, equipment, tools, labor, and incidentals, unless otherwise provided in the contract, and shall include the cost of these items in the unit prices bid for the several units of work. Contractor shall be solely responsible for all safety procedures and safety violations. The quantities appearing in the bid schedule of prices are estimates prepared for the establishment of pay item prices and the comparison of bids. Payment to the Contractor will be made for the actual measured quantities performed and accepted or material furnished and accepted according to the contract, and the scheduled quantities may be increased, decreased, or omitted as herein provided.

Under no circumstances shall the Contractor exceed any established pay item quantity without notification to the Engineer and receipt of written authorization as provided herein.

The latest edition of the State Specifications and Standard Specifications for Water and Sewer Construction in Illinois shall be the basis and govern this contract unless otherwise provided by special provision or exception.

4-2 SPECIAL WORK

Should any construction or requirement not covered by the Specifications be anticipated on any proposed Work, Special Provisions for the same will be prepared and included in the Proposal form, which Special Provisions shall be considered as a part of the Specifications the same as though contained fully herein.

4-3 CHANGES

The Owner reserves the right to make, in writing, at any time during work, changes in quantities, alterations in work, and the performance of extra work to satisfactorily complete the project. Such changes in quantities, alterations, and extra work shall not invalidate the contract nor release the surety, and the Contractor agrees to perform the work as altered.

If the alterations or changes in quantities significantly change the character of the work under the contract, whether or not changed by any such different quantities or alterations, an adjustment, excluding loss of anticipated profits, will be made to the contract. The basis for the adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon, then an adjustment will be made either for or against the Contractor in such amount as the Owner may determine to be fair and equitable.

If alterations or changes in quantities do not significantly change the character of the work to be performed under contract, the altered work will be paid for as provided elsewhere in the contract.

The term "significant change" shall be construed to apply only when the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction or when a major item, defined as an item whose total original contract costs exceeds ten percent of the total original contract amount, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity.

All alterations, cancellations, extensions, and deductions shall be authorized in writing by the Owner before work is started. Such authorizations shall set up the items of work involved and the method of payment for each item.

The Contractor shall accept payment for alterations which result in an increase or decrease in the quantities of work to be performed according to the following:

- A. All increases in work of the type which appear in the contract as pay items accompanied by unit prices will, except as provided under paragraph (C) herein, be paid for at the contract unit prices. Decreases in quantities included in the contract will be deducted from the contract at the unit bid prices. No allowance will be made for delays or anticipated profits.
- B. Major items of work for which the quantities are increased by not more than 125 percent or reduced to not less than 75 percent of the original contract quantities will be paid for as specified in paragraph (a) above. Any adjustments for increased quantities for major items of work increased more than 125 percent shall only apply to that portion in excess of 125 percent of original contract quantities. Any adjustments made for major items of work which are decreased to less than 75 percent of the original contract quantities shall apply to the actual amount of work performed.
- C. Extra work which is not included in the contract as pay items at unit prices and is not included in other items of the contract will be paid for according to Section 9-4.

4-4 PERIODIC AND FINAL CLEANUP

From time to time or as may be ordered by the Owner and immediately after completion of the Work, the Contractor shall at his own expense clean up and remove all refuse and unused materials of any kind resulting from the Work. Upon failure to do so within five (5) working days after receipt of written request from the Owner, the Work may be done by the Owner and the cost thereof be charged to the Contractor and be deducted from his Contract price. Upon completion of the Work, the Contractor shall remove all his equipment and put the area of the Work in a neat and clean condition and do all other cleaning required to complete the Work in a workmanlike manner, ready for use and satisfactory to the Owner.

All Cleanup shall be performed as specified in the various sections of these Specifications or in the Special Provisions.

4-5 LUMP SUM CONTRACTS

On lump sum Contract, when specified in Special Provisions, or Contracts containing lump sum items, the lump sum contract price shall include the furnishing and installation of all Work described in the Specifications and/or shown on the Plans.

4-6 LOCAL ORDINANCES AND REGULATIONS

The Contractor shall keep himself fully informed of all existing laws, ordinances, and regulations of the municipality affecting the work and/or material of this Contract. If any inconsistency is discovered between the Plans, Specifications and those covered by local municipal laws, ordinances, or regulations, it shall be reported to the Owner and Engineer.

4-7 PREFERENCE TO VETERANS

Attention is called to assure compliance with Illinois Revised State Chapter 126 Section 23. Preference to veterans upon public works: "In the employment and appointment to fill positions in the construction, addition to, or alteration of all public works undertaken or contracted for by the state, or by any political subdivision thereof, preference shall be given to persons who were engaged in the military or naval service of the United States in time of war".

SECTION 5. CONTROL OF THE WORK

5-1 PLANS AND WORKING DRAWINGS

The Contractor shall submit to the Engineer such shop, working, or layout drawings pertaining to the construction of the Work, as may be required. These drawings shall be reviewed by Engineer for general conformance with the design concept only. This review by the Engineer does not relieve the Contractor and/or fabricator/vendor of responsibility for conformance with the Contract documents (see 1-8) and applicable codes, all of which have priority over these shop, working and layout drawings. Corrections or comments made on the shop drawings by the Engineer during this review process do not relieve the Contractor from compliance with the requirements of the Contract documents (1-8) and applicable codes.

When the Contract includes Work adjacent to a railroad and false work, cofferdams, or sheeting is required, the Contractor shall submit to the Engineer for his approval and the Railroad Engineer's approval, plans for the false work, cofferdams, or sheeting by a Registered Structural Engineer. It shall be the responsibility of the Contractor to contact the railroad to determine how to meet their requirements. The cost of meeting those requirements shall be borne by the Contractor. The plans shall be submitted sufficiently in advance of the time the Contractor intends to start work to permit checking. No such work shall be started prior to receipt by the Contractor of approval of the Plans for the false work, cofferdams, or sheeting.

The cost of furnishing such Drawings shall be incidental to the contract and no additional compensation will be allowed the Contractor for any delays resulting therefrom.

5-2 CONFORMITY WITH PLANS AND SPECIFICATIONS

It is the intent of the Specifications that all Work performed and all materials furnished shall be in conformity with the lines, grades, cross section, dimensions and material requirements shown on the Plans or indicated in the Specifications.

In the event the Engineer finds the materials or the finished product in which the materials are used or the Work performed are not in conformity with the Engineering Plans and technical Specifications including tolerances and have resulted in an inferior or unsatisfactory product, the Work or material shall be removed and replaced or otherwise corrected by and at the expense of the Contractor.

5-3 COORDINATION OF COMPONENT PARTS OF THE CONTRACT

The Specifications, the accompanying Plans, the Proposal, the Special Provisions, and all other contract documents are intended to describe a complete Work and are essential parts of the Contract. A requirement occurring in any of them is binding. In case of discrepancy, figured dimensions shall govern over scaled dimensions, Plans shall govern over Specifications, Special Provisions shall govern over both Specifications and Plans, and quantities shown on the plans shall govern over those shown in the

Proposal. Neither the Owner, Engineer, nor the Contractor shall take advantage of any apparent error or omission in the Plans or Specifications, and the Owner shall be permitted to make such minor changes or alterations as may be deemed necessary for the fulfillment of the intent of the Plans and Specifications. Any corrections or alterations so made shall be subject to the provisions of Section 4-3.

5-4 COOPERATION BY CONTRACTOR

The Contractor will be furnished necessary copies of the Plans and Special Provisions, and he shall have one copy of each available on the work at all times during its prosecution. He shall give the work his constant attention to facilitate the progress thereof, and shall cooperate with the Owner and Engineer in every way possible. He shall have on the Work site at all times a competent, English-speaking representative authorized to receive orders and act for him and shall not replace him without prior written notification to the Owner.

5-5 UTILITIES

Not all of the gas, power, telephone or cable television lines, whether above or below ground, have been shown on the drawings. The location of existing underground utilities, such as water mains, sewers gas mains, etc., as shown on the drawings, have been determined form the best available information and are given for the convenience of the Contractor. The Contractor must assume responsibility for location and protection of all utilities, whether shown or not, and must realize that the actual locations of the utilities shown on the drawings may be different from the location indicated.

It is the responsibility of the Contractor to phone the Joint Utility Locating Information for Excavators (J.U.L.I.E.) at least 48 hours before excavation starts (except Saturday, Sunday and Holidays) phone toll free 1-800-892-0123. The Contractor shall also be responsible for having the "Dig Number" assigned as a result of the phone request available at the construction site and at his office.

It is understood and agreed that the Contractor has considered in his Proposal all of the permanent and temporary utility appurtenances shown or otherwise indicated on the Plans in their present positions and that no additional compensation will be allowed for any delays, inconvenience, or damage sustained by him due to any interference from the said utility appurtenances of the operation of moving them either by the utilities company or by the Contractor; or on account of any special construction methods required in prosecuting his work due to the existence of said appurtenances.

5-6 COOPERATION BETWEEN CONTRACTORS

If separate contracts are let for Work comprising an entire improvement, each Contractor shall conduct his Work so as not to interfere with or hinder the progress or completion of the Work being performed by other Contractors.

The Contractor shall as far as possible arrange his Work, and place and dispose of the materials being used so as not to interfere with the operations of the other contractors within the limits of the same improvement. He shall join his work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others. In case of dispute, the latest approved progress schedule shall govern.

5-7 CONSTRUCTION STAKES

Construction stakes and/or paint will be furnished and set by the Engineer to mark the general location, alignment, elevation and grade of the Work. The Contractor shall exercise proper care in the preservation of stakes set for his use or the use of the Engineer. The Contractor shall pay for the cost of replacing stakes damaged by his operation or those stolen by others.

5-8 AUTHORITY AND DUTIES OF OBSERVERS

Observers employed by the Owner or by the Engineer shall be authorized to observe the progress of the Work to determine if the Work is proceeding in accordance with the technical Plans and Specifications, and to perform such other duties as may be designated by the Engineer. However, the Engineer shall not be responsible for the construction means, methods, techniques, sequences or safety procedures and precautions in connection with the work by the contractors.

5-9 ENGINEER'S FIELD OFFICE AND/OR LABORATORY

When required by the Special Provisions, the Contractor shall furnish a field office and laboratory. The field office and/or laboratory shall be a weatherproof building for the exclusive use of the Engineer. It shall be independent of any building used by the Contractor. All keys to the building shall be turned over to the Engineer. The Engineer shall designate the location of the building and it shall remain on the site until released by the Engineer.

The building shall conform to the following requirements:

Floor space, not less than	. 120 square feet
Height of ceiling, not less than	. 8 feet
Windows, not less than	. 3
Door, with lock approved by the Engineer	. 1
Instrument locker, 2 feet x 3 feet x 4 feet, with adjustable shelves Hinged wall table	. 3 feet x 6 feet

G 20

The Contractor shall provide lights, heat, and when electric power is available, summer air conditioning for the building. The conditions shall be acceptable to the Engineer.

When shown on the plans or specified in the Special Provisions, the Contractor shall furnish two (2) buildings conforming to the above requirements, one to be used as a field laboratory, and each to be located where designated by the Engineer.

With the approval of the Engineer, a mobile building or buildings of approximately the same dimensions and having similar facilities may be substituted for the above described building or buildings.

The cost of furnishing the building or buildings, light, heat, and air conditioning shall be paid for at the contract lump sum price for "FIELD OFFICE AND/OR LABORATORY". The office and/or laboratory shall remain the property of the Contractor when the Work is completed.

5-10 CONSTRUCTION OBSERVATION

All materials and each part or detail of the Work may be subject at all times to observation by the Engineer and the Owner, or their authorized representatives, and the Contractor will be held strictly to the true intent of the Contract documents in regard to quality of materials, workmanship and the diligent execution of the Contract. Observations may be made at the site or at the source of material supply whether mill, plant or shop. The Engineer, or his representatives, shall be allowed access to all parts of the Work and shall be furnished with such information and assistance by the Contractor as is required to make his observations and construction review. The duty of the Engineer to conduct observations and construction review of the Contractor's performance shall not include review of the adequacy of the Contractor's safety measures in, on, or near the construction site.

Engineer shall not at any time supervise, direct, or have control over any contractors' work, nor shall Engineer have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, nor for safety precautions and programs in connection with the contractors' work, nor for any failure of any Contractor to comply with laws and regulations applicable to contractors' work. Engineer neither guarantees the performance of any contractor nor assumes responsibility for any contractor's failure to furnish and perform its work. Engineer shall have no authority to stop the work of any contractor on the Project. The Engineer's efforts will be directed toward providing assurance for the Owner that the completed project will conform to the Plans and Specifications as prepared by the Engineer, to safeguard the Owner against variances and deviations from the Plans and Specifications, and to assist in a correct interpretation of the Plans and Specifications.

The Engineer shall not have control of the construction and does not have a right, duty or responsibility to stop work for any reason including any contractor's failure to follow proper safety precautions or any acts or omissions. The Engineer shall not be responsible for the acts, errors or omissions of any contractor or any of their agents or employees or any other person performing any of the Work under the Contract.

The Contractor shall, upon written notice from the Owner, remove or uncover such portions of the finished Work as he may direct, before the final acceptance of the same. After examination, the Contractor shall restore said portion of the Work to the standard required by the Contract documents. If the Work thus exposed or examined proves acceptable, the expenses of uncovering or removing and the replacing of the parts removed shall be paid for as Extra work, unless otherwise provided in the Contract documents, but if the Work so exposed or examined is unacceptable, the expense of uncovering or removing and the replacing of the same in accordance with the Contract documents shall be borne by the Contractor.

The Contractor shall supervise and direct the Work. He will be solely responsible for the means, ethods, techniques, sequences and procedures of construction.

Any reference to "supervision" by the Engineer in the Illinois Department of Transportation, Standard Specifications for Road and Bridge Construction or any other referenced documents shall be changed to "observation."

When the State and/or Federal Government is to pay a portion of the cost of the Work covered by the Contract, the Work shall be subject to the observation of the representatives of those Governments, but such observation shall in no sense make those Governments a part of the Contract.

5-11 REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK

Work done without lines and grades being given, or beyond the lines shown on the Plans or as given, except as herein provided, or any extra work done without authority will be considered as unauthorized and at the expense of the Contractor, and will not be measured or paid for. Work so done may be ordered by the Owner to be removed or replaced at the Contractor's expense.

All work, which has been rejected, shall be remedied or removed and replaced so as to comply with the Plans and Specifications by the Contractor at his own expense. Upon failure on the part of the Contractor to comply promptly with any order of the Owner made under the provisions of this article, the Owner shall, after giving written notice to the Contractor, have the authority to cause defective work to be remedied, or removed and replaced, or to cause unauthorized work to be removed, and to deduct the cost thereof from the contract price due or become due to the Contractor.

5-12 FINAL ACCEPTANCE

The Engineer shall make final acceptance of all Work included in the Contract, as soon as practicable after notification by the Contractor that the Work is completed. If the Work is not acceptable to the Engineer, he shall inform the Contractor in writing as to the particular defects to be remedied before final acceptance can be made.

The Contractor shall be relieved of normal maintenance responsibilities for any sections of the work, which are completed and accepted by the Owner prior to project completion. For the remainder of the Work, the guarantee period shall be as stated in Section 7-16.

When the Contract includes work for which the County, State and/or Federal Government is to pay a portion of the cost thereof, such work shall also be subject to the inspection and approval of the representatives of those governments.

5-13 PUBLIC CONSTRUCTION BID ACT, 30 ILCS 557/1

It is agreed that the Public Construction Bid Act, 30 ILCS 557/1, shall not be applicable to this contract pursuant to the home rule powers of the community.

SECTION 6. CONTROL OF MATERIAL

6-1 QUALITY OF MATERIALS

It is the intent of the Specifications that first-class materials shall be used throughout the Work, and that they shall be incorporated as to produce completed construction, which is workmanlike and acceptable in every detail. The cost or collecting and furnishing of samples of all test material shall be borne by the Contractor. The cost of all testing shall be borne by the Owner. Only materials, which conform to the requirements of these Specifications, shall be incorporated in the Work.

6-2 DEFECTIVE MATERIALS

All materials not conforming to the requirements of the Specifications shall be considered as defective and shall be removed from the Work; if in place, they shall be removed by the Contractor at his expense and replaced with acceptable materials. No defective materials, the defects of which have been subsequently corrected, shall be used until approval has been given. Upon failure of the Contractor to comply forthwith with any written order of the Owner pursuant to the provisions of this article, the Owner shall have authority to remove and replace defective materials and to deduct the cost of removal and replacement from any monies due to become due the Contractor.

6-3 TESTING MATERIALS

All materials should be tested and approved by the Engineer before incorporation in the Work. The Contractor shall give sufficient advance notice of placing orders to permit tests to be completed before the materials are incorporated in the Work and the Contractor shall afford such facilities as the Engineer may require for collecting and forwarding samples and making observations.

6-4 SAND, GRAVEL AND CRUSHED STONE

The source of sand, gravel and crushed stone construction shall be approved by the Engineer prior to usage. The approval shall be based upon testing of samples furnished by the Contractor and tested by the Engineer for conformance with Specifications. Approval shall be contingent upon the Contractor using materials on the job, which conform with the samples satisfactorily tested.

6-5 CONCRETE

Samples of concrete used in construction shall be taken by the Contractor and made into test cylinders in conformance with ASTM C31. The Owner shall provide the services of an independent testing laboratory to collect and test the cylinders in conformance with ASTM C39, and furnish a copy of test results to the Engineer. Any concrete, which tests indicate failed to conform to the Specifications, shall be removed and replaced at Contractor's expense. At the option of the Owner, the concrete may be accepted and agreed upon adjustment in payment.

6-6 MISCELLANEOUS MATERIALS

Fittings, valves, castings, hydrants, house service pipes, masonry blocks, bricks, manhole sections or other miscellaneous manufactured materials used in water and sewer construction shall be furnished with the implied guarantee that such materials conform with the requirements of the Specifications. The Engineer reserves the right to require a certified statement from the manufacturer of such materials that the specific materials have been inspected and tested and conform with the Specifications.

6-7 JOB SITE OBSERVATION

Regardless of any tests of materials made at the source, the Contractor shall carefully inspect all materials before installation and reject any materials, which have been damaged or have visible flaws. The Engineer also reserves the right to make such observation, but failure to detect irregularities does not relieve the Contractor of responsibility to remove and replace materials, which are found to be defective after installation.

6-8 STORED MATERIALS

If it is necessary to store materials, they shall be protected in such a manner as to insure the preservation of their quality and fitness for the Work. All stored materials shall be inspected at the time of use in the Work, even though they may have been inspected and approved before being placed in storage. The Contractor may use the right-of-way for storage of materials. If stockpiling is done outside the right-of-way, the additional space required shall be provided by the Contractor at his expense.

6-9 "OR EQUAL" CLAUSE

Whenever, in any of the Contract Documents, an article, material or equipment is defined by describing a proprietary product, or by using the name of a manufacturer, or vendor, the term "or equal", if not inserted shall be implied except where the Proposal provides for alternate bids. The specific article, materials, or equipment mentioned shall be understood as indication of the type function, minimum standard or design, efficiency and quality desired and shall not be construed in such a manner as to exclude manufacturer's products of comparable quality, design and efficiency. The Contractor shall comply with the requirements of the Contract Documents relative to an Owner's approval of materials and equipment before they are incorporated in the project.

SECTION 7. LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

7-1 LAWS TO BE OBSERVED

The Contractor shall at all times observe and comply with all Federal laws, State laws, County laws, local laws, ordinances, and regulations which in any manner affect the conduct of the Work, and all such orders or decrees as exist at the time Bids are advertised, of legislative bodies or tribunals having legal jurisdiction or authority over the work and no plea of misunderstanding or ignorance thereof will be considered. The Engineer shall not be responsible for determining whether the Contractor is in compliance with these laws, ordinances and regulations.

The Contractor shall indemnify and save harmless the Owner, the Engineer, and all of their officers, agents, employees and servants against any claim or liability, including legal fees, arising from or based on the violation of such law, ordinance, regulation, order or decree, whether by themselves or their employees.

7-1.01 INDEMNIFICATION

To the fullest extent permitted by law, the Contractor shall defend, indemnify and hold harmless Owner and REL and their respective officers, agents and employees, from and against all claims, damages, losses, costs, expenses, judgments and liabilities, including but not limited to attorney's fees, costs and expenses, arising out of or in connection with Contractor's performance of or failure to perform this Agreement, provided that any such claim, damage, loss, costs, expenses, judgments or liabilities are attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible personal property, including the loss of use resulting therefrom, that is caused in whole or in part by any act or omission of the Contractor, any subcontractor, anyone directly or indirectly employed by them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by any party indemnified hereunder.

Contractor shall defend, indemnify and hold harmless Owner, REL, and their respective officers, agents and employees from and against all claims, damages, losses, costs and expenses arising out of, relating to, or incurred in connection with the use by Contractor, its officers, agents, subcontractors and employees of any equipment, materials, tools, construction equipment, machinery, and/or motor vehicles owned or leased by Owner. The indemnification provided by this Section shall apply regardless of whether Owner consents to the use of equipment by Contractor.

In the event such indemnity as described above is prohibited by law, then said indemnity shall only be to the extent caused by the negligent acts or omissions of the Contractor, subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, or to the extent allowed by applicable law. The indemnification obligation under this paragraph shall not be limited in any way by any limitations on the amount or type of damages, compensation or benefits payable by or for the benefit of Contractor or any indemnities under any Worker's Compensation Act, Occupational Disease Act, Disability Benefits Act, or any other employee benefits act. The Contractor further agrees to waive any and all liability limitations based upon the Worker's Compensation Act court interpretations or otherwise.

Contractor agrees that a similar waiver of liability limitation will be incorporated in its agreements with subcontractors or anyone directly or indirectly employed by them. Contractor agrees that in the event it fails to incorporate such a waiver of liability limitation in its agreements with said subcontractors and others, then it will be responsible for any additional liability arising out of said failure. The defense and indemnification obligations set forth in this provision shall survive the termination or expiration of this Agreement.

Contractor further agrees that all future contracts in furtherance of this contract between Contractor and any of its subcontractors will designate Owner and REL as intended third party beneficiaries of that contract. Contractor hereby agrees to specifically label Owner and REL as an "intended third party beneficiaries" in all contracts entered in furtherance of this contract.

7-2 INSURANCE REQUIREMENTS

7-2.01 **GENERAL**

The Contractor and any Subcontractors shall obtain and thereafter keep in force for the term of the contract the insurance coverage specified in 7-2.02 MINIMUM INSURANCE REQUIREMENTS.

The Contractor shall not commence work under the Contract until all the insurance required by this section or any Special Provisions has been obtained. The insurance companies must be authorized to do business in the State of Illinois for Work in Illinois and the State of Indiana for Work in Indiana.

The insurance companies providing coverage shall be rated in the Best's Key Rating Guide with a rating not lower than A- and shall have a financial size category of not less than VII.

The Contractor shall be solely responsible for enforcing compliance with these insurance requirements by all Subcontractors of any tier.

A. PRIMARY INSURANCE

All insurance required of the Contractor shall be specifically endorsed so that it is Primary Insurance as to all additional insureds with respect to all claims arising out of operations by or on their behalf. If additional insureds have other applicable insurance coverage, those coverages shall be deemed to be on an excess or contingent basis.

B. NO WAIVER OF INSURANCE REQUIREMENT BY OWNER

Under no circumstances shall the Owner be deemed to have waived any of the insurance requirements of this Contract by any act or omission, including, but not limited to:

- Allowing work by Contractor or any Subcontractor of any tier to start before receipt of certificates of insurance, endorsements, and other required insurance documents; or
- Failure to examine, or to demand correction of any deficiency of, any certificate of insurance received.

The Contractor agrees that the obligation to provide insurance is solely the Contractor's responsibility and cannot be waived by any act or omission of the Owner.

C. INSURANCE DOES NOT LIMIT LIABILITY

The purchase of insurance by the Contractor under this Contract shall not be deemed to limit the liability of the Contractor in any way for damages suffered by Owner (e.g., in excess of policy limits, because of deductibles, or not covered by the policies purchased).

D. NOTIFICATION OF PERSONAL INJURY/PROPERTY DAMAGE

The Contractor shall notify the Owner, in writing, of any possible or potential claim for personal injury or property damage arising out of the work of this Contract promptly whenever the occurrence giving rise to such a potential claim becomes known to the Contractor.

7-2.02 MINIMUM INSURANCE REQUIREMENTS

The insurance coverage required of the Contractor and any Subcontractors shall be written for not less than the following, or greater if required by law:

A. Workers' Compensation and Occupational Disease Insurance in accordance with applicable state and federal laws, and Employer's Liability Insurance with a bodily injury per accident limit of liability of at least \$ 500,000, bodily injury by disease limit each employee of \$500,000 and bodily injury by disease policy limit of \$500,000 or such greater sum as may be reasonably required by Owner.

- B. Commercial General Liability Insurance provided by ISO form CG 0001 with a combined Bodily Injury and Property Damage limit of at least \$1,000,000 per occurrence, \$2,000,000 products and completed operations aggregate and \$2,000,000 general aggregate, or such greater sum as may be reasonably required by Owner.
 - Completed Operations and Products liability insurance shall be maintained for a
 period of 2-years after completion and acceptance of the Project by Owner, or
 such longer period as may be reasonably required by the Owner.
 - 2. The above policy shall include an endorsement identifying Owner, Robinson Engineering, Ltd, and any other parties as may be reasonably required by Owner or REL as Additional Insured. ISO endorsements CG 2010 and CG 2037 any edition, or equivalent forms, must be used to provide this coverage. Copies of the endorsements must be included with the certificate of insurance as required in paragraph L.
 - 3. Claims-Made coverage triggers are not acceptable to Owner.
 - 4. ISO form CG2503, Designated Construction Project(s) General Aggregate Limit or an equivalent form must be endorsed to the policy and identified on the certificate of insurance. An Owners and Contractors Protective Liability policy can be utilized in lieu of aggregate limits per project, (see 7-2.020 for OCP requirements)
 - 5. The policy shall not contain a sunset provision, commutation clause or any other provision which would prohibit the reporting of a claim and the subsequent defense and indemnity that would normally be provided by the policy.
 - 6. The policy shall not contain any provision, definition or endorsement which would serve to eliminate third party action over claims.
 - Residential Work exclusions or limitations, in any form, are not acceptable to Contractor.
- C. Comprehensive Automobile Liability Insurance covering use of all owned, non-owned and hired vehicles with Bodily Injury and Property Damage limit of at least \$1,000,000 Combined Single Limit, or such greater sum as may be reasonably required by the Owner. This policy shall include coverage for Owner, REL, and any other parties as may be reasonably required by Owner, for liability arising out of the actions of Contractor, whether by endorsement or otherwise.

D. Excess or Umbrella Liability Insurance limits of no less than \$5,000,000 per occurrence for Employer's Liability, Commercial General Liability and Comprehensive Automobile Liability, in excess of the minimum policy limits stated below:

Employer's Liability \$500,000 / \$500,000 / \$500,000

Commercial General Liability \$1,000,000 per occurrence

Commercial General Liability \$2,000,000 general aggregate

Commercial General Liability \$2,000,000 completed operations aggregate

Comprehensive Auto Liability \$1,000,000 combined single limit

Excess/Umbrella coverage shall be provided as no less than Follow Form and shall name Owner, REL, and any other parties as may be reasonably required by Owner, as Additional Insured on a Primary and Non-Contributory basis.

- E. Pollution Liability in the amount of \$1,000,000 per occurrence and in the aggregate or such sum as may be reasonably required by the Owner. This requirement covers the Contractor's use of, transportation, removal and/or disposal of hazardous materials and/or pollutants. Additionally, this requirement must apply to any disposal site receiving hazardous materials and/or pollutants. Pollution means the actual or alleged discharge, dispersal, release, seepage, migration, growth, or escape of smoke, soot, fumes, acids, alkalis, toxic chemicals, mold, mildew, spores, fungi, microbes, bacterial matter, legionella pneumophila, asbestos, lead, silica, liquids or gases, waste materials, contaminants, or other irritants, into or upon land, the atmosphere, any structure on land, the atmosphere contained within that structure, or any watercourse or body of water, including groundwater. Radioactive matter shall also be considered a pollutant, except as otherwise covered or protected by insurance or protections provided pursuant to 42 U.S.C. § 2014(w), as amended, or Section 170 of the Atomic Energy Act of 1954, as amended.
- Professional Liability in the amount of \$2,000,000 per occurrence and in the aggregate or such sum as may be reasonably required by the Owner. This requirement covers the Contractor's duties that involve professional architectural, engineering, design or consultation work. Any applicable deductibles and/or retention's must be noted on the Certificate of Insurance. Policy exclusions are not allowed for pollution, including mold, fungi or bacteria including the vapor produced or arising therefrom. Please see the project Special Provisions for the project specific needs of this policy.

- G. Property and Equipment Contractor shall purchase and maintain at its own discretion and expense, Builder's Risk/Installation Floater Insurance in an amount equal to the insurable value of the Contractor's property, whether off site or in transit, to cover any equipment, tools or tangible personal property. Contractor assumes all liability and risks, and agrees to waive all claims against Owner and REL for damage to or loss of equipment, machinery, tools, supplies and other tangible personal property owned or supplied by Contractor and utilized or intended to be utilized during the course of Contractor's Work. Any insurance carried by Contractor covering such damage or loss shall be endorsed with a waiver of subrogation in favor of Owner and REL. Any and all subcontractors agree to assume the same liabilities and risks as Contractor.
- H. Each of Contractor's General Liability, Auto Liability, Pollution Liability, Professional Liability and Excess/Umbrella Liability policies must be endorsed as Primary and Non-Contributory as to any insurance maintained by the Additional Insured(s) and shown on the certificate of insurance.
- I. An endorsement in favor of the Additional Insured(s) waiving the Contractor's and its insurer's rights of subrogation shall be issued with respect to the Commercial General Liability, Comprehensive Auto Liability, Pollution Liability, Professional Liability and Workers' Compensation and Employers Liability policies. Evidence of this endorsement must be noted on the certificate of insurance.
- Self-funded or other non-risk transfer insurance mechanisms or deductibles/self-insured retentions greater than \$25,000 per occurrence are not acceptable to Owner on any insurance coverage required in this agreement. If the Contractor has such a program, full disclosure must be made to Owner and REL prior to any consideration being given.
- K. Any subcontractor employed by Contractor shall have equivalent coverage.
- L. A Certificate of Insurance, including copies of the Additional Insured endorsements, shall be sent to REL prior to the commencement of any Work (please see the sample attached at the end of Section 7). All Certificates of Insurance and Endorsements verifying the existence of the above required insurance shall be in form and content satisfactory and acceptable to Owner and REL and shall be submitted to REL in a timely manner so as to confirm Contractor's full compliance with these insurance requirements stated herein, throughout the entire term of this Agreement.

Certificates must be sent to: RELcertificates@thehortongroup.com

- M. Contractor shall provide written notice via email to RELcertificates@thehortongroup.com of any cancellation notice received by Contractor from any insurer providing insurance as required in this Agreement within two (2) business days of Contractor's receipt of such notice.
- N. Permitting Contractor to commence Work prior to RELs receipt of the required certificate shall not be a waiver of the Contractor's obligation to provide all of the above insurance. Acceptance by Owner or REL of insurance submitted by Contractor shall not relieve or decrease in any manner the liability of the Contractor for its performance under this Agreement.

In the event Contractor fails to obtain or maintain any of the foregoing required coverage, the Owner may purchase such coverage and charge the expense thereof to the Contractor, or may terminate this Agreement.

These Insurance provisions are intended to be a separate and distinct obligation on the part of Contractor. Therefore, these provisions shall be enforceable and Contractor shall be bound thereby regardless of whether or not the Indemnity provisions of this Agreement are determined at any time to be enforceable in the jurisdiction in which the Work covered by this Agreement is performed. The obligation of the Contractor to provide the insurance herein specified shall not limit in any way the liability or obligations assumed by the Contractor elsewhere in this Agreement.

In the event Contractor or its insurance carrier(s) defaults on any obligations under this Insurance provision, Contractor agrees that it will be liable for all reasonable expenses and attorneys' fees incurred by Owner in the enforcement of the terms of this provision.

O. Owner's And Contractor's Protective Liability Insurance

If the Contractor is unable or unwilling to provide the required General Liability Additional Insured forms, an Owner's and Contractor's Protective Policy can be purchased as an acceptable alternate; Required limits of insurance;

1. Bodily Injury and Property Damage Combined

\$5,000,000 Each Occurrence

\$10,000,000 Annual Aggregate

The Contractor will furnish and maintain during the entire period of construction an Owner's and Contractor's Protective Liability policy written in the name of the Owner and REL with not less than the limits indicated. The named insureds shall be:

- a. Owner
- b. Robinson Engineering, Ltd.
- 3. Proof of insurance for the coverages required to be purchased by the Contractor, including the Owner's and Contractor's Protective Policy shall be submitted to REL for transmittal to the Owner for his approval prior to the start of construction. Proof of the Owner's Protective Policy shall consist of providing an entire copy of that policy to REL. With respect to all other coverages required to be purchased by the Contractor, proof of insurance shall consist of a Certificate of Insurance issued by the Contractor's insurance agency.
- It is further understood that any insurance maintained or carried by Owner and Robinson Engineering, Ltd. shall be in excess of any coverage provided by any Contractor or Subcontractor.
- P. Railroad Protective Insurance will be required by Special Provisions if needed.
- Q. Builder's Risk Insurance is not provided by the Owner. The Contractor is responsible for any loss that would be insured by such coverage. On Contracts for construction of buildings, bridges, or other structures, all Builder's Risk coverage may be required by Special Provisions. Such coverage shall name the Owner, Contractor, subcontractors, and suppliers, as their interests may appear as named insureds.

7-3 PERMITS AND LICENSES

The Contractor, prior to commencing work, shall at his own expense procure all permits, licenses, and bonds necessary for the prosecution of the work, required by Municipal, County, State and Federal regulations, unless specifically provided otherwise in the Special Conditions of the Contract.

The Contractor shall also give all notice, pay all fees, and comply with all Federal, State, County and Municipal laws, ordinances, rules and regulations and building and construction codes bearing on the conduct of the Work.

7-4 PATENTS AND ROYALTIES

If any design, device, material or process covered by letters patent or copyright is used by the Contractor, he shall provide for such use by legal agreement with the owner of the patent or a duly authorized licensee of such owner, and shall save harmless the Owner and the Engineer from any and all loss or expense on account thereof, including its use by the Owner.

7-5 STATE AND FEDERAL PARTICIPATION

When the County, State, and/or the Federal Government pays all or any portion of the cost of the Work, the Work shall be subject to the inspection of the appropriate agency.

7-6 SANITARY PROVISIONS

The Contractor shall comply with all rules and regulations of the Federal, State, County, and local health departments, and shall take precautions to avoid creating unsanitary conditions. The Engineer shall not be responsible for determining whether the Contractor is in compliance with these rules and regulations.

7-7 PUBLIC CONVENIENCE AND SAFETY

The Contractor shall notify the Owner at least five (5) days in advance of the starting of Work, which might in any way inconvenience or endanger traffic, so that arrangements may be made, if necessary, for closing the road and providing suitable detours. The Contractor shall at all times conduct the Work as to insure the least obstruction to vehicular and pedestrian traffic. The convenience of the general public and of residents along the roadway shall be provided for in an adequate and satisfactory manner. (See also 7-9, 7-14 and 8-6.)

If a temporary road is required for the convenience of the general public and/or residents along the roadway, temporary road requirements will not be paid for separately, but will be incidental to the Contract and no extra compensation will be allowed.

7-8 BARRICADES AND WARNING SIGNS

When any section of road is closed to traffic, the Contractor shall provide, erect, and maintain barricades, red flags, signs and lights at each end of the closed section and at all intersecting roads in accordance with the Illinois Manual of Uniform Traffic Control Devices.

If during the progress of the work, it is necessary to provide access to private property along the road, the Contractor shall provide, erect, and maintain within the closed portion of the road, such barricades, signs, flags and lights as may be necessary to protect the Work and to safeguard local traffic.

When traffic is to be permitted to use the road during construction, the Contractor shall protect the work and provide for safe and convenient public travel by providing, erecting, and maintaining such barricades, red flags, and lights as are necessary.

The Contractor's responsibility for the work, as provided in Section 7-15, shall apply, even though barricades, signs, red flags, and lights are installed as required above.

The cost of furnishing and maintaining barricades, warning signs, red flags, and lights as required herein shall be incidental to the Contract and no extra compensation will be allowed. The Engineer shall not be responsible for determining whether the Contractor is in compliance with these rules and regulations.

7-9 DEBRIS ON TRAVELED SURFACE OR STRUCTURES

Where the Contractor's equipment is operated on any portion of the traveled surface or structures used by traffic on or adjacent to the section under construction, the Contractor shall clean the traveled surface of all dirt and debris at the end of each day's operation.

The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed. The Engineer shall not be responsible for determining whether the Contractor is in compliance with these rules and regulations.

7-10 EQUIPMENT ON TRAVELED SURFACE AND STRUCTURES

The traveled surface and structures on or adjacent to the work shall be protected, from damage by lugs or cleats on treads or wheels of equipment.

All equipment used in the prosecution of the work shall comply with the legal loading limits established by the statutes of the State of Illinois or local regulations when moved over or operated on any traveled surface or structure unless permission in writing has been issued by the Owner. Before using any equipment, which may exceed the legal loading, the Contractor shall secure a permit, allowing ample time for making an analysis of stresses to determine whether or not the proposed loading would be within safe limits. The Owner will not be responsible for any delay in construction operations or for any costs incurred by the Contractor as a result of compliance with the above requirements. The Engineer shall not be responsible for determining whether the Contractor is in compliance with these rules and regulations.

7-11 USE OF EXPLOSIVES

When the use of explosives is necessary for the prosecution of the Work, the Contractor shall be governed by the rules and regulations of the Department of Mines and Minerals of the State of Illinois and any local regulations, which govern the use of explosives. The Engineer shall not be responsible for determining whether the Contractor is in compliance with these rules and regulations.

7-12 USE OF FIRE HYDRANTS

If the Contractor desires to use water from hydrants, he shall make application to the proper authorities, and shall conform to the municipal ordinances, rules or regulations concerning their use. Water from

hydrants or other sources shall be at the Contractor's expense unless otherwise provided in the Special Provisions.

Fire hydrants shall be accessible at all times to the Fire Department. No material or other obstructions shall be placed closer to a fire hydrant than permitted by municipal ordinances, rules or regulations, or within ten feet (10') of a fire hydrant, in the absence of such ordinances, rules or regulations.

7-13 PROTECTION AND RESTORATION OF PROPERTY

If corporate or private property interferes with the Work, the Contractor shall notify, in writing, the owners of such property, advising them of the nature or disposition of such property. The Contractor shall furnish the Owner with copies of such notifications and with copies of any agreements between him and the property owners concerning such protection or disposition.

The Contractor shall take all necessary precautions for the protection of corporate or private property, such as walls and foundations of buildings, vaults, underground structures of public utilities, underground drainage facilities, overhead structures of public utilities, trees, shrubbery, crops and fences contiguous to the Work, of which the Contract does not provide for removal. The Contractor shall protect and carefully preserve all official survey monuments, property marks, section markers, and Geological Survey monuments, or other similar monuments, until the Owner or an authorized surveyor or agent has witnessed or otherwise referenced their location or relocation. The Contractor shall take reasonable precautions to avoid disturbing any archeological and other historic remains encountered during construction. The Contractor shall notify the Owner of the presence of an such survey or property monuments or archeological and other historic remains as soon as they are discovered.

The Contractor shall be responsible for the damage or destruction of property of any character resulting from error, neglect, misconduct or omission in his manner or method of execution or non-execution of the Work, or caused by defective Work or the use of unsatisfactory materials, and such responsibility shall not be released until the Work shall have been completed and accepted and the requirements of the Specifications complied with.

Whenever public or private property is so damaged or destroyed, the Contractor shall at his own expense, restore such property to a condition equal to that existing before such damage or injury was done by repairing, rebuilding, or replacing it as may be directed, or he shall otherwise make good such damage or destruction in an acceptable manner. If he fails to do so, the Owner may, after the expiration of a period of forty-eight (48) hours after giving him notice in writing, proceed to repair, rebuild, or otherwise restore such property as may be deemed necessary, and the cost thereof shall be deducted from any compensation due, or which may become due the Contractor under his contract.

The Contractor shall remove all mailboxes within the limits of construction, which interfere with construction operations and shall erect them at temporary locations. As soon as construction

operations permit, he shall set the mailboxes at their permanent locations. The Contractor shall replace at his own expense any mailbox or post which has been damaged by his operations.

The cost of all materials required and all labor necessary to comply with the above provisions will not be paid for separately, but shall be considered as incidental to the Contract, unless otherwise specified in the Special Provisions.

7-14 PROTECTION AND RESTORATION OF TRAFFIC SIGNS

Any traffic sign within the limits of construction, which interferes with construction operations, may be removed by the Contractor when authorized by the traffic sign owner. Any traffic sign, which has been removed, shall be re-erected immediately by the Contractor at the temporary location designated by the traffic sign owner, and as soon as construction operations permit, the sign shall be set at its permanent location. The cost of all materials required and all labor necessary to comply with this provision will not be paid for separately, but shall be considered as incidental to the contract.

The Contractor shall replace at his own expense any traffic sign or post which has been damaged due to his operations.

Any traffic sign designated as critical by the traffic sign owner shall not be disturbed and no additional compensation will be allowed the Contractor for any delays, inconvenience, or damage sustained by him due to any special construction methods required in prosecuting his work due to the existence of such traffic signs.

7-15 CONTRACTOR'S RESPONSIBILITY FOR WORK

The Work shall be under the control and care of the Contractor until final acceptance or use or occupancy by the Owner. The Contractor shall assume all responsibility for injury or damage to the Work by action of the elements or from any other cause whatsoever, and shall rebuild, repair, restore, and make good, at his expense, all injuries or damages to the Work, except that when the Work is opened to usage by written order of the Owner, the provisions of this article shall not apply to damage caused by such use and not due to the Contractor's fault or negligence.

When materials are furnished to the Contractor by the Owner for inclusion in the work, the Contractor's responsibility for handling and installation of all such materials shall be the same as for materials furnished by him.

In case of suspension of Work by the Contractor, the Contractor shall be responsible for the Work and shall take such precautions as may be necessary to prevent damage to the Work, provide for normal drainage and shall erect any necessary temporary structures, signs, or other facilities at his expense.

7-16 GUARANTEE PERIOD

The Contractor shall warrant all Work performed for a period of one (1) year from the date of final acceptance in writing by the Engineer. In case of acceptance of a part of the work for use or occupancy prior to final acceptance of the entire Work, the guarantee for the part so accepted shall be for a period of one year from the date of such partial acceptance, in writing, by the Engineer.

In placing orders for equipment, the Contractor shall purchase same only under a written guarantee from the respective manufacturers that the equipment supplied will function satisfactorily as an integral part of the completed Work in accordance with the Plans and Specifications, and that the manufacturer will repair or otherwise make good any defects in workmanship or materials which may develop within a period of one (1) year from the date of final acceptance. Furthermore, the Contractor shall require that the manufacturer agree in writing at the time the order for equipment is placed that he will be responsible for the proper functioning of the equipment in cooperation with the Contractor, and that whenever necessary during the installation period or tuning up period following construction period, the manufacturer will supply without additional cost to the Owner, such superintendence and mechanical labor and any adjustments and additional parts and labor needed to make the equipment function satisfactorily, even if same was not shown on the approved shop drawings.

7-17 PERSONAL LIABILITY OF OWNER'S AGENTS

In carrying out the provisions of this contract, or in exercising any power or authority granted to the Owner, there shall be no personal liability upon any officer or authorized agent of the Owner provided the Owner is a governmental body, it being understood that all such persons act as agents and representatives of the Owner.

7-18 NO WAIVER OF LEGAL RIGHTS

The Owner and the Engineer shall not be precluded by any measurement, estimate, or certificate made either before or after the completion and acceptance of the Work and payment therefor, from showing the true amount and character of the Work performed and materials furnished by the Contractor, or from showing that any such measurement, estimate, or certificate is untrue or incorrectly made, or that the Work or materials do not conform in fact to the Contract. The Owner shall not be precluded, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from the Contractor and his sureties such damages as if it may sustain by reason of his failure to comply with the terms of the Contract. Neither the acceptance by the Owner, nor any representative of the Owner, nor any payment for or acceptance of the whole or any part of the work, nor any extension of time, nor any possession taken by the Owner, shall operate as a waiver of any portion of the Contract, or of any power herein reserved, or any right to damages herein provided. A waiver of any breach of the Contract shall not be held to be a waiver of any other or subsequent breach.

7-19 SAFETY

Contractor shall comply with State and Federal Safety regulations as outlined in latest revision of Federal Construction Safety Standards (Series 1926) and with applicable provisions and regulation of Occupation Safety and Health Administration (OSHA) Standards of the Williams-Steiger Occupational Health and Safety Act of 1970 (rev.). The Engineer shall not be responsible for determining the Contractor's compliance with these regulations.

The Contractor is solely responsible for the safety procedures, programs and methods of its employees, subcontractors of every tier, and agents. Contractor shall hold the Owner and the Engineer harmless for any and all damages resulting from violations thereof.

7-20 USE OF PRIVATE LAND

The Contractor shall not use any vacant lot or private land as a plant site, depository for materials, or as a spoil site without the written authorization of the owner of the land (or his agent), a copy of which authorization shall be filed with the Owner.

7-21 USE OF WATER

Contractors desiring to use water furnished by the Owner will be required to make application for extension to the proper authorities and conform to the rules and regulations provided in such cases by the municipal ordinances and pay the usual water rates.

7-22 COST OF SERVICES

The Contractor will be required to pay the established water rates for water obtained from the Owner. Large quantities of water for flushing trenches, filling mains, testing or other operations shall be drawn only at night or at times specifically authorized by the Owner.

The cost of all power, lighting and heating required during construction shall be paid by the Contractor and its costs merged in the contract price.

7-23 WORK IN BAD WEATHER

No construction work shall be done during stormy, freezing or inclement weather, except such as can be done satisfactorily, and to secure first-class construction throughout, and then only subject to permission of the Owner.

7-24 SUNDAY WORK

No work shall be performed under these specifications at night or on Sunday and legal holidays without the approval of the Owner. If it is found necessary to continue the work at night or on Sunday or on a legal holiday, the Contractor will be charged for the Engineering and observation at such times at the rate of Seven Hundred Fifty Dollars (\$750.00) per day of eight (8) working hours for each person doing such work on the job, and the amount will be deducted from money due to the Contractor at the time of settlement.

7-25 WATCHMEN

Watchmen are to be provided by the Contractor at the site of the project to prevent loss, damage to property, or accidents.

7-26 CONSTRUCTION DEBRIS

The Contractor shall not conduct any generation, transportation, or recycling of construction or demolition debris, clean or general or uncontaminated soil generated during construction, remodeling, repair, and demolition of utilities, structures, and roads that is not commingled with any waste, without the maintenance of documentation identifying the hauler, generator, place of origin of the debris or soil, the weight or volume of the debris or soil, and the location, owner, and operator of the facility where the debris or soil was transferred, disposed, recycled or treated. This documentation must be maintained by the Contractor for 3 years.

7-27 SAMPLE INSURANCE CERTIFICATE

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ACORD 25 (2010/05)

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SECTION 8. PROSECUTION AND PROGRESS

8-1 SUBLETTING OR ASSIGNMENT OF CONTRACT

The Contractor shall not sublet, sell, transfer, assign, or otherwise dispose of the Contract or Contracts or any portion thereof, or of his right, title, or interest therein, without written consent of the Owner. In case such consent is given, the Contractor will be permitted to sublet a portion thereof, but shall perform with his own organization, Work amounting to not less than 50 per cent of the total Contract, except that any items designated in the Contract as "specialty items" may be performed by subcontract and may be deducted from the total Contract price before computing the amount of work required to be performed by the Contractor with his own organization. No subcontracts, or transfer of Contract, shall in any case release the Contractor of his liability under the Contract. All transactions of the Owner shall be with the Contractor; subcontractors shall be recognized only in the capacity of employees or workmen and shall be subject to the same requirements as to character and competence.

8-2 PROGRESS SCHEDULE

Promptly after the award of the contract, if requested, the Contractor shall submit to the Owner a satisfactory progress schedule, which shall show the proposed sequence of work, and how the Contractor proposes to complete the various items of work within the number of days set up on the contract. The progress schedule shall be reviewed and revised periodically as working conditions warrant. The Contractor shall confer with the Owner in regard to the prosecution of the Work in accordance with this schedule. This schedule shall be used as a basis for establishing major construction operations, and for checking progress of the Work.

8-3 PRE-CONSTRUCTION CONFERENCE

Unless the need for a preconstruction conference is waived by the Engineer, the Contractor shall make himself and his representatives available to meet with the Engineer and other representatives of the Owner, prior to the start of construction to discuss scheduling, handling of materials, payments, etc.

8-4 PROSECUTION OF THE WORK

The Contractor shall begin the Work to be performed under the contract not later than ten (10) days after the execution and acceptance of the Contract, unless otherwise provided, but not prior to the execution of the Contract.

8-5 COMPLETION DATE

The Contractor shall complete all Work on or before the stipulated completion date, or on or before a later date determined as specified herein; otherwise, the Owner may proceed to collect liquidated damages described hereinafter.

When a delay occurs due to unforeseen causes beyond the control and without the fault or negligence of the Contractor, including, but not restricted to, acts of the public enemy, governmental acts, fires, floods, epidemics, strikes, extraordinary delays in delivery of materials caused by strikes, lockouts, wrecks, freight embargoes, governmental acts, or acts of God, the time of completion shall be extended in whatever amount is determined by the Owner.

An "Act of God" means an earthquake, flood, cloudburst, cyclone, or other cataclysmic phenomena of nature beyond the power of the Contractor to foresee or make preparation in defense against. A rain, windstorm or other natural phenomenon of normal intensity, based on U.S. Weather Bureau reports, for the particular locality and for the particular season of the year in which the work is being prosecuted, shall not be construed as an "Act of God", and no extension of time will be granted for the delays resulting therefrom.

8-6 LIMITATIONS OF OPERATIONS

The Contractor shall conduct his work so as to create a minimum amount of inconvenience to vehicular and pedestrian traffic. At any time when, in the judgment of the Owner, the Contractor has obstructed or closed the road or is carrying on operations on a greater portion of a street than is necessary for the proper prosecution of the Work, the Owner may require the Contractor to finish the section on which Work is in progress before the Work is started on any additional section. (See also Section 7-7).

8-7 SUSPENSION OF WORK

The Owner shall have authority to suspend the Work wholly or in part, for such period of time as he may deem necessary, due to conditions unfavorable for the satisfactory prosecution of the Work, or to conditions which in his opinion warrant such action; or for such time as is necessary by reason of failure on the part of the Contractor to carry out orders given, or to perform any or all provisions of the Contract. No additional compensation will be paid the Contractor because of any costs caused by such suspension, except when the suspension is ordered for reasons not resulting from any act or omission on the part of the Contractor. If it becomes necessary to stop Work for an indefinite period of time, the Contractor shall store all material in such manner that they will not obstruct or impede the traveling public unnecessarily or become damaged in any way, take every precaution to prevent damage or deterioration of the Work performed, provided suitable drainage of the roadway, and erect temporary structures where necessary. The Contractor shall not suspend Work without written authority from the Owner. (See also Section 7-15).

8-8 DETERMINATION AND EXTENSION OF CONTRACT TIME FOR COMPLETION

When the time for completion of the Work contemplated is specified in the Contract, it is understood that the completion of the Work within the time specified is an essential part of the Contract. If the Contractor finds it impossible to complete the Work within the time specified in the Contract, he may, at

any time prior to the last thirty (30) days of the Contract time specified, make written request to the Owner for an extension of Contract time. He shall set forth in full in his request the reasons, which he believes justify the granting of his request. If the Owner finds that the Work is delayed because of conditions beyond the control of the Contractor, or that the quantities of work done, or to be done, are in excess, he shall promptly grant an extension of time for completion, which appears reasonable and proper. The extended time for completion shall then be considered as in effect the same as if it were the original Contract time for completion.

8-9 FAILURE TO COMPLETE THE WORK ON TIME

Should the Contractor fail to complete the Work within the Contract time the Contractor shall be liable to the Owner in the amount shown in the following schedule of deductions, as liquidated damages, and not as a penalty, for each day of overrun in the Contract time or such extended time as may have been allowed.

SCHEDULE OF DEDUCTIONS FOR EACH DAY OF OVERRUN IN CONTRACT TIME

Original Con	tract Amount	Daily Charge		
From more	To and			
<u>than</u>	<u>Including</u>	Calendar Day	Work Day	
\$ 0	100,000	\$ 475	\$ 675	
100,000	500,000	750	1,050	
500,000	1,000,000	1,025	1,425	
1,000,000	3,000,000	1,275	1,725	
3,000,000	6,000,000	1,425	2,000	
6,000,000	12,000,000	2,300	3,450	
12,000,000	And over	5,800	8,125	

8-10 DEFAULT ON CONTRACT

If the Contractor fails to begin the Work under Contract within the time specified, or fails to perform the Work with sufficient workmen and equipment or with sufficient materials to insure the completion of said Work within the Contract time, or shall perform the Work unsuitable, or shall neglect or refuse to remove materials or perform anew such Work as shall be rejected as defective and unsuitable, or shall discontinue the prosecution of the Work, or if the Contractor shall become insolvent or be declared bankrupt, or shall commit any act of bankruptcy or insolvency, or shall make an assignment for the benefit of creditors, the Owner shall give notice in writing to the Contractor and his surety of such delinquency, said notice to specify the corrective measures required.

If the Contractor, within a period of ten (10) days after said notice, shall not proceed in accordance therewith, the Owner shall have full power and authority to forfeit the rights of the Contractor and at its

option to call upon the surety to complete the Work in accordance with the terms of the contract, or it may take over the Work, including any or all materials and equipment on the ground as may be suitable and acceptable, and may complete the Work with his own forces, or may enter into a new agreement for the completion of said Contract according to the terms and provisions thereof, or use such other methods as, in its opinion, shall be required for the completion of said Contract in an acceptable manner.

All costs and charges incurred by the Owner, together with the cost of completing the work under Contract, shall be deducted from the Contract amount. In case the expense so incurred by the Owner shall be less than the sum which would have been payable under the Contract if it had been completed by the Contractor, the Contractor shall be entitled to receive the difference subject to any claims for liens thereon in case such expense shall exceed the sum which would have been payable under the Contract, the Contractor and the surety shall be liable and shall pay to the Owner the amount of such excess.

8-11 TERMINATION OF THE CONTRACTOR'S RESPONSIBILITY

Whenever the Work called for by the Contract shall have been completely performed on the part of the Contractor and all parts of the Work have been approved and deemed to be in compliance with the Technical Plans and Specifications by the Engineer, according to the Contract, and the final estimate paid, the Contractor's obligations shall be considered fulfilled, except as set forth in his Bond, in Section 7-18 and his one-year guarantee, in Section 7-16.

SECTION 9. MEASUREMENT AND PAYMENT

9-1 MEASUREMENT OF QUANTITIES

All Work completed under the Contract will be measured by the Engineer according to United States Standard Measures. The method of measurement shall be described in the Specifications or the Special Provisions.

9-2 SCOPE OF PAYMENT

The Contractor shall receive and accept the compensation as herein provided, in full payment for furnishing all materials, labor, tools and equipment; for performing all Work contemplated and embraced under the Contract; for all loss or damage arising out of the nature of the Work or from action of the elements; for any unforeseen difficulties or obstructions which may arise or be encountered during the prosecution of the Work until its final acceptance by the Owner; for all risks of every description connected with the prosecution of the Work; also, for all such expenses incurred by or in consequence of suspension or discontinuance of such prosecution of the work as herein specified, or for any infringement of patents, trademarks, or copyrights, and for completing the Work in an acceptable manner according to the Contract Documents.

Contractor will be paid in cash and/or negotiable warrants at intervals, and in accord with the terms of the Contract. Except for subdivision contracts, the Owner will retain ten percent (10%) of each periodic payment until final completion and acceptance by the Owner of all Work included in the Contract.

The payment of any current estimate prior to final acceptance of the Work by the Owner shall in no way constitute an acknowledgment of the acceptance of the Work, nor in any way prejudice or affect the obligation of the Contractor, at his expense, to repair, correct, renew, or replace any defects or imperfections in the construction or in the strength or quality of the materials used in or about the construction of the Work under Contract and its appurtenances, nor any damage due or attributable to such defects, which defects, imperfections, or damage shall have been discovered on or before the final inspection and acceptance of the Work. Defects, imperfections, or damage, shall be determined by the Engineer observing the work for compliance with the Plans and Specifications, and the Contractor shall be liable to the Owner for failure to correct the same as provided herein.

9-3 INCREASED OR DECREASED QUANTITIES

Whenever the quantity of any item of Work as given in the Proposal shall be increased or decreased, payment shall be made on the basis of the actual quantity completed at the unit price for such item named in the Proposal, except as otherwise provided in Sections 4-3 or in the detailed specifications for each class of Work.

9-4 PAYMENT FOR EXTRA WORK

Extra Work which results from any of the changes as specified in Section 4-3 shall not be started, except in case of an emergency, until receipt of a written authorization or Work order from the Owner, which authorization shall state the items of work to be performed and the method of payment for each item. Work performed without such order will not be paid for.

Extra work will be paid for:

- A. Either at a lump sum price or at unit prices agreed upon by the Contractor and the Owner. (In case a Supplemental Agreement is signed between the Contractor and the Owner, the agreed prices pertaining thereto shall prevail).
- B. If acceptable to the Engineer, on the following force account basis:
 - Labor. The Contractor will be paid the actual amount of wages for all labor and foreman in direct charge of the specific Work for each hour that said labor and foreman are actually engaged in such Work, to which cost shall be added twenty percent (20%) of the sum thereof.
 - 2. Bond, Insurance, Tax, Welfare Fund and other Payments. The Contractor will receive the actual cost of Contractor's bond, public liability and property damage insurance, workmen's compensation insurance, social security tax, welfare fund and other payments, if any, in accordance with agreements applicable to the Contract, required for force account work, to which no percentage shall be added. The Contractor shall furnish satisfactory evidence of the rate or rates paid for such bond, insurance tax, welfare fund and other payments.
 - Materials. The Contractor will receive the actual cost for all materials which are an integral part of the finished Work, including freight charges as shown by the original receipted bills, to which shall be added fifteen percent (15%) of the sum thereof.

The Contractor will be reimbursed for any materials used in the construction of the Work, such as sheeting, false work, form lumber, curing materials, etc., which are not an integral part of the finished Work. The amount of reimbursement shall be agreed upon in writing before such Work is begun, and no percent shall be added. The salvage value of such materials shall be taken into consideration in the reimbursement agreed upon.

4. Equipment. Machinery and equipment, which the Contractor has on the job for use on contract items, shall be used on extra Work as deemed necessary or desirable. The Contractor will be paid for all machinery and equipment used on extra work in accordance with the latest revision of "SCHEDULE OF AVERAGE ANNUAL EQUIPMENT OWNERSHIP EXPENSE WITH OPERATING COST" as issued by the Department of Transportation, State of Illinois, for the period that said machinery and equipment are in use on such Work, to which no percent shall be added. In the event that equipment is used which is not included in aforesaid publication, the latest edition of the "Compilation of Nationally Averaged Rental Rates for Construction Equipment" complied by Equipment Distributors, 615 West 22nd Street, Oak Brook, Illinois 60521, shall be used to determine equipment rental rates and no percent shall be added to the rates indicated in such publication.

9-5 PAYMENT FOR SUBCONTRACTING, EXTRA WORK

Where an authorized subcontractor performs some or all of the Work qualifying as an Extra Work item and compensation is to be based on the terms of paragraph 9-4 (2), the cost of labor, bonds, material and equipment shall be the cost to the subcontractor on these items and an additional allowance to the prime Contractor of five percent (5%) of all costs as determined in paragraph 9-4 (2) shall be made in such instances.

9-6 PARTIAL PAYMENTS

Once each month, the Contractor will make an approximate estimate, in writing, of the materials in place complete, the amount of Work performed, and the value thereof, at the contract unit prices. From the amount so determined of completed work there shall be deducted ten percent (10%) to be retained until after the completion of the entire Work to the satisfaction of the Owner, and the balance certified to the Owner for payment.

In addition, an estimate may, at the discretion of the Owner and upon presentation of receipted bills and freight bills, be made for payment of the value of acceptable non-perishable materials delivered at the Work site or in acceptable storage places and not used at the time of such estimate. The care and storage of such material shall be the Contractor's responsibility. In the absence of receipted bills, an estimate may, at the request of the Contractor and at the discretion of the Owner, be made for payment of the value of materials in acceptable storage places and not used at the time of the estimate, but in such an event payment shall be made of such amounts by a check requiring the endorsement of both the Contractor and materials supplier. Endorsement of such a check by the material supplier shall be construed a waiver of lien for the cost of materials covered by the check. Such materials, when so paid for by the Owner, shall become the property of the Owner, and in the event of default on the part of the Contractor, the Owner may use or cause to be used such materials in the construction of the Work

provided for in the Contract. The amount thus paid by the Owner shall be deducted from estimates due the Contractor as the material is used in the Work.

9-7 ACCEPTANCE AND FINAL PAYMENT

Whenever the Work provided for by the Contract shall have been completely performed on the part of the Contractor, and all parts of the Work have been deemed to be in substantial compliance with the Plans and Specifications by the Engineer and accepted by the Owner, a final estimate showing the value of the Work will be prepared by the Engineer as soon as the necessary measurements and computations can be made, all prior estimates upon which payments have been made being approximate only and subject to correction in the final payment. The amount of this estimate, less any sums that have been deducted or retained under the provisions of the Contract, will be paid to the Contractor as soon as practicable after the final acceptance, provided the Contractor has furnished to the Owner satisfactory evidence that all sums of money due for any labor, materials, apparatus, fixtures, or machinery furnished for the purpose of such Work have been paid or that the person or persons to whom the same may be due have consented to such final payment.

Neither the final payment on this contract by the Owner nor any provisions in the contract documents shall relieve the Contractor of the responsibility for negligence in the furnishing and installation of faulty materials or for faulty workmanship which shows up within the extent and period provided by law or within the guarantee period of one (1) year from final acceptance of the work performed under this Contract, whichever is greater, nor of the responsibility of remedying such faulty workmanship and materials.

The acceptance by the Contractor of the final payment shall constitute a release and waiver of all claims by the Contractor except those previously made and still unsettled.

9-8 OWNER'S RIGHT TO WITHHOLD CERTAIN AMOUNTS

The Owner may withhold, in addition to retained percentages, from payment to the Contractor, such an amount or amounts as may be necessary to cover:

- A. Payments that may be earned or due for just claims for labor and materials furnished in and about the Work.
- B. For defective Work not remedied.
- C. For failure of the Contractor to make proper payments to his subcontractors.
- D. For reasonable doubt that the contract can be completed for the balance then unpaid.

The Owner will disburse and shall have the right to act as agent for the Contractor in disbursing such funds as have been withheld pursuant to this paragraph to the party or parties who are entitled to payment therefrom. The Owner will render to the Contractor a proper accounting of all such funds disbursed in behalf of the Contractor.

The Owner also reserves the right, even after full completion and acceptance of the Work, to refuse payment of the final ten percent (10%) due the Contractor, until it is satisfied that all subcontractors, material suppliers, and employees of the Contractor have been paid in full.

9-9 RELEASE OF CLAIMS AND LIENS

Neither the final payment nor any part of the retained percentage shall become due until the Contractor shall deliver to the Owner a complete release of all claims or liens arising out of this contract, or receipts in full in lieu thereof and, if required in either case, an affidavit that so far as he has knowledge or information the release and receipts include all the labor and materials for which a lien or claim could be filed; but the Contractor may, if a subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the Owner to indemnify the Owner against any claim or lien (in cases where such payment is not already guaranteed by surety bond). If any claim or lien remains unsatisfied after all payments are made, the Contractor shall refund to the Owner all monies that the latter may be compelled to pay in discharging such a lien, including all costs and a reasonable attorney's fee.

DIVISION II

Technical Specifications

EXCAVATION AND CLEANUP

SECTION 1.	EXCAVATION AND BACKFILL FOR UNDERGROUND CONDUITS	1
1-1	DESCRIPTION	1
1-2	CONSTRUCTION DETAILS	1
SECTION 2. F	RESTORATION OF SURFACES	13
2-1	GENERAL	13
2-2	CONSTRUCTION DETAILS	13
SECTION 3. F	FINISHING AND CLEAN UP FOR UNDERGROUND CONDUITS	16
3-1	CLEAN UP	16

SECTION 1. EXCAVATION AND BACKFILL FOR UNDERGROUND CONDUITS

1-1 DESCRIPTION

For the purpose of this section, underground conduits shall be considered sewer pipe, water main or any other pipe conduit indicated on the Plans. Wherever the term "pipe" or "pipe line" is used, it shall mean underground conduit.

Excavation and backfill shall include all excavation, backfilling, compacting, disposal of surplus material, restoration of all disturbed surface, and all other work incidental to the construction of trenches, including any additional excavation which may be required for manholes or other structures forming a part of the pipe line.

1-2 CONSTRUCTION DETAILS

1-2.01 SURFACE REMOVAL AND TOPSOIL PRESERVATION

Along the proposed pipe lines as indicated on the Plans, the Contractor shall remove the surface materials only to such widths as will permit a trench to be excavated which will afford sufficient room for proper efficiency and proper construction. Where sidewalks, driveways, pavements and curb and gutter are encountered, care shall be taken to protect such against fracture or disturbance beyond reasonable working limits. In areas specified on the Plans, topsoil suitable for final grading and landscaping shall be piled separately in locations approved by the Owner and preserved so that it may be restored after the remainder of the backfill is replaced.

1-2.02 WIDTH OF EXCAVATION

A. The bottom width of the trench at and below the top of the pipe and inside the sheeting and bracing, if used, shall be in accordance with Section 550.04 of the Standard Specifications, unless otherwise noted.

Note: The strength or class of pipe shall be as indicated on the Plans.

- B. Trench sheeting and bracing or a trench shield shall be used as required by the rules and regulations of O.S.H.A. The Engineer shall not be responsible for determining whether the contractor is in compliance with this provision. The bottom of the trench excavation shall conform to the details shown on the Plan.
- C. If these trench widths are exceeded without the written permission of the Engineer, the pipe shall be installed with a concrete cradle or with concrete encasement or a stronger pipe than originally specified shall be used as approved by the Engineer.

1-2.03 EXCAVATION BELOW GRADE

In cases where the excavation is carried beyond or below the lines and grades given by the Engineer, the Contractor shall, at his own expense, refill all such excavated space with suitable granular material.

1-2.04 ROCK EXCAVATION

A. GENERAL

Wherever "rock" is used as the name of an excavated material, it shall mean boulders or pieces of rock, concrete, or masonry measuring one-half (1/2) cubic yard or more, hard shale or solid ledge rock and masonry which requires for its removal the continuous use of pneumatic tools or drilling and blasting.

Before payment is allowed for "Rock Excavation", the Contractor shall be required to demonstrate the material cannot be removed "by hand pick" or by power operated excavator or shovel. No payment will be made for Rock Excavation unless air tools or explosives were used by the Contractor. No payment will be made for "Rock Excavation" unless the Engineer approves such payment in writing in advance upon being satisfied that the material meets the above criteria.

B. MEASUREMENT FOR PAYMENT

Where "Rock Excavation" is to be measured for payment, quantities will be determined by the Engineer. Rock required to be removed shall be computed by the cubic yard. Width for pay purposes shall be the measured width of rock removed, but shall not exceed the width specified in Section 550.04 of the Standard Specifications, plus any sheeting and bracing if required. Depth for pay purposes shall be the difference in elevation between the top and bottom of the rock as determined by the Engineer. Where rock is encountered in the bottom of the trench, the maximum depth for payment purposes will be six inches (6") below the bottom of the pipe. Where the proposal does not contain a pay item for "Rock Excavation", the additional cost of rock removal as defined by the specifications shall be paid on extra work basis. (Division I, Section 9-4).

C. PAYMENT

Payment shall be made at the Contract unit price per cubic yard of "Rock Excavation". These prices shall be full compensation for furnishing all materials; for all preparation, excavation and disposal of rock; and for all labor, equipment, tools and incidentals necessary to complete the item.

1-2.05 SUBSURFACE EXPLORATION

All information available to the Owner, if any, on subsurface exploration will be made available for examination by prospective Bidders. However, it is understood and agreed that the Owner shall in no way be held responsible for interpretation of this information, its accuracy or its thoroughness. Prospective Bidders shall make such subsurface explorations as they believe necessary to verify and supplement information received from the Owner.

1-2.06 EXPLORATORY EXCAVATION

A. GENERAL

Whenever, in the opinion of the Engineer, it is necessary to explore an excavate in advance of the Work to determine the best line and grade for the construction of the proposed pipe line, the Contractor shall make explorations and excavations for such purposes.

B. PAYMENT

The cost of such excavation will be paid at the contract unit price per foot for "Exploration Trench", or if no Bid Item is included, on an extra work basis.

1-2.07 BRACED AND SHEETED TRENCHES

A. GENERAL

Open-cut trenches shall be sheeted and braced or otherwise protected as required by any governing Federal or State laws and municipal ordinances, and as may be necessary to protect life, property, or the Work. In any event, the minimum protection shall conform to the recommendations in the Occupational Safety and Health Act Standards for Construction (OSHA). A sand box or trench shield may be used in lieu of sheeting as permitted by OSHA. When close-sheeting is used, it shall be so driven as to prevent adjacent soil from entering the trench either below or through such sheeting. Tight sheeting shall be used in that portion of the excavation in or along state and county highways below the intersection of a 1 to 1 slope line from the nearest face of the excavation to the edge of the pavement.

Where sheeting and bracing are used, the trench width shall be increased accordingly. The sheeting will be driven to the full depth of work, or to a depth where the soil has the stability necessary to meet the OSHA standards, whichever is lower. The shallower depth of required sheeting may be established by soil boring and analysis, to be performed at the Contractor's sole cost. The owner shall have the right of consent in the selection of the soils engineer for the sampling and analysis. This provision shall not relieve the contractor, in any degree, from his responsibilities under the contract.

Sheeting and bracing, which are required to be left in place shall be cut off at the specified elevation. Trench bracing, except that specified to be left in place, may be removed when the backfilling reaches the said bracing's level. All sheeting except that required to be left in place may be removed as the excavation is refilled, in such a manner as to avoid bank cave-in(s) or disturbance to the adjacent area(s) or structure(s). The voids left by the withdrawal of the sheeting shall be carefully filled by jetting, vibrating, ramming or other satisfactory means.

B. PAYMENT

Payment for sheeting and bracing, and all other Work incidental to sheeting and bracing, shall not be made separately but shall be included in the Contract price for the pipe size, except when ordered left in place.

Payment for timber sheeting left in place when shown on the plans or directed by the Engineer shall be made at the Contract unit price per 1,000 board feet of "Timber Sheeting Left in Place."

Payment for steel sheet piling when specified shall be made at the Contract unit price per square foot for "Steel Sheet Piling."

Payment for steel sheet piling left in place when shown on the plans or directed by the Engineer shall be made at the Contract unit price per square foot for "Steel Sheet Piling Left in Place."

1-2.08 TRENCHES WITH SLOPING SIDES, LIMITED

The Contractor may, at his option, where working conditions and right-of-way permit, excavate pipe line trenches with sloping sides, but with the following limitations:

- A. In general, only braced and vertical trenches will be permitted in traveled streets, alleys or narrow easements.
- B. Where trenches with sloping sides are permitted, the slopes shall not extend below the top of the pipe, and trench excavations below this point shall be made with vertical sides with widths not exceeding those specified hereinbefore for the various sizes of pipe.

1-2.09 SHORT TUNNELS

In some instances, trees, fire hydrants, sidewalks and other obstructions may be encountered, the proximity of which may be a hindrance to open-cut excavation. In such cases, the Contractor shall excavate by means of short tunnels in order to protect such obstructions against damage. Where such obstructions are shown on the Plans, short tunnel work shall be considered incidental to the construction of the pipe line and shall not be grounds for extra payment or payment for tunnel work. Where such obstructions are not shown on the Plans, payment will be at the Contract unit price or as extra work in accordance with Division I, Section 9-4.

1-2.10 PILING EXCAVATION MATERIAL

All excavated material shall be stockpiled to avoid obstructing streets, sidewalks and driveways. Excavated material suitable for backfilling shall be stockpiled separately on the site. No material shall be placed closer than 2'0" to the edge of an excavation. Fire hydrants under pressure, valve pit covers, valve boxes, curb top boxes, or other utility controls shall be left unobstructed and accessible until the Work is completed. Gutters shall be kept clear or other satisfactory provisions made for street drainage. Natural watercourses shall not be obstructed or polluted. Surplus material and excavated material unsuitable for backfilling shall be transported and disposed of off the site in disposal areas obtained by the Contractor.

1-2.11 REMOVAL OF WATER

The Contractor shall at all times during construction provide and maintain ample means and devices with which to promptly remove and properly dispose of all water entering the excavations or other parts of the Work until all Work to be performed therein has been completed. No sanitary sewer shall be used for disposal of trench water, unless specifically approved by the Engineer and then only if the trench water does not ultimately arrive at existing pumping or sewage treatment facilities. No water containing settle able solids shall be discharged into storm sewers.

1-2.12 BLASTING

Blasting for excavation will be permitted only after securing the approval of the Owner and only when proper precautions are taken for the protections of persons and property. The hours of blasting will be reviewed by the Owner. Any damage caused by blasting shall be repaired by the Contractor at his expense. The Contractor's methods of procedure in blasting shall conform to Federal and State laws and municipal ordinances and O.S.H.A. rules and regulations. The Engineer shall not be responsible for determining whether the contractor is in compliance with these rules and regulations.

112014 EC 5

1-2.13 SAFETY

A. BARRICADES, GUARDS AND SAFETY PROVISIONS

To protect persons from injury and to avoid property damage, adequate barricades, construction signs, lights and guards as required shall be placed and maintained by the Contractor at his expense during the progress of the construction Work and until it is safe for traffic to use the roads and streets. All material piles, equipment and pipe which may serve as obstructions to traffic shall be enclosed by fences or barricades and shall be protected by proper lights when the visibility is poor. The rules and regulations of O.S.H.A. and appropriate authorities respecting safety provisions shall be observed. The Engineer shall not be responsible for determining whether the contractor is in compliance with these rules and regulations.

B. STRUCTURE PROTECTION

Temporary support, adequate protection and maintenance of all underground and surface structures, drains, sewers and other obstructions encountered in the progress of the Work shall be furnished to the Contractor at his expense. Any structures which may have been disturbed shall be restored upon completion of the Work.

C. PROTECTION OF PROPERTY AND SURFACE STRUCTURES

Trees, shrubbery, fences, poles and all other property and surface structures shall be protected during construction operations unless their removal for purposes of construction is authorized by the Engineer. Any fences, poles, or other man-made surface improvements which are moved or disturbed by the Contractor shall be restored to the original conditions, after construction is completed, at the Contractor's expense. Any trees, shrubbery or other vegetation which are approved for removal or ordered for removal by the Engineer in order to facilitate construction operations shall be removed completely, including stumps and roots, by the Contractor. Responsibility for any damage or claims for damage caused by construction operations to shrubbery or other landscape improvements which were not authorized for removal by the Engineer shall be assumed by the Contractor.

1-2.14 DEVIATIONS OCCASIONED BY STRUCTURES OR UTILITIES

Wherever obstructions are encountered during the progress of the Work and interfere to such an extent that an alteration in the plan is required, the Engineer shall have the authority to change the Plans and order a deviation from the line and grade or arrange with the owners of the structures for the removal, relocation or reconstruction of the obstructions. Where gas, water, telephone, electrical, hot water, steam, or other existing utilities are an impediment to the vertical or horizontal alignment of the proposed pipe line, the Engineer shall order a change in grade or alignment or shall direct the Contractor to arrange with the owners of the utilities for their removal.

1-2.15 INTERRUPTION TO UTILITIES

The Contractor shall proceed with caution in the excavation and preparation of the trench so that the exact location of underground structures may be determined. Prior to proceeding with trench excavation, the Contractor shall contact all utility companies in the area to aid in locating their underground services.

The Contractor shall take all reasonable precautions against damage to existing utilities. However, in the event of a break in an existing water main, gas main, sewer or underground cable, he shall immediately notify the responsible official of the organization operating the utility interrupted. The Contractor shall lend all possible assistance in restoring services and shall assume all cost, charges, or claims connected with the interruption and repair of such services if the location of said utility was marked by the owner thereof prior to excavation.

1-2.16 MAINTENANCE OF TRAFFIC AND CLOSING OF STREETS

The Contractor shall carry on the Work in a manner which will cause a minimum of interruption to traffic, and may close to through travel not more than two consecutive blocks, including the cross street intersected. Where traffic must cross open trenches, the Contractor shall provide suitable bridges at street intersections and driveways. The Contractor shall post suitable signs indicating that a street is closed and necessary detour signs for the proper maintenance of traffic. Prior to closing of any streets, the Contractor shall notify responsible municipal authorities at least five (5) days in advance of the starting of the Work, unless otherwise approved by the municipality.

1-2.17 CONSTRUCTION IN EASEMENTS

In easements across private property, the Contractor shall confine all operations in the easement area and shall be responsible and liable for all damage outside of the easement area. Trees, fences, shrubbery or other type of surface improvements located in the easements will require protection during construction. The provisions of Section 1-2.14C above shall apply to all easement areas as well as to public right-of-way. Precautions shall be taken by adequate sheeting or other approved method to prevent any cave-in or subsidence beyond the easement limits or damage to improvements within the easement. In general, the easement area is intended to provide reasonable access and working area for efficient operation by the Contractor. Where easement space for efficient operation is not provided, the Contractor shall be responsible for organizing his operations to perform within the restrictions shown on the Plans. The Owner shall make available to the Contractor a copy of the construction easements.

112014 EC 7

1-2.18 UNDERGROUND CONDUIT CONSTRUCTED IN TUNNEL

A. GENERAL

Where shown on the plans or where specifically authorized by the Engineer, pipe lines shall be constructed in tunnel. This work will be made in accordance with requirements of any permits obtained by the Owner from railroads or state or county highway departments for tunnel work or in accordance with the following paragraph.

B. MATERIALS

Pipe materials shall be as shown on the Plans or as described in the Special Provisions.

C. EXCAVATION AND LAYING

Requirements for excavation and laying and for joints shall be those applicable for the type of pipe line involved, unless otherwise specified.

Before starting excavations for tunnel shafts or jacking or augering pits, the Contractor shall submit drawings of proposed sheeting and bracing arrangements which have been prepared, signed and sealed by a structural Engineer registered in the State of Illinois for Work in Illinois and by a structural Engineer registered in the State of Indiana for Work in Indiana.

An adequate ventilation system shall be provided to properly ventilate all parts of the tunnel.

D. METHODS OF CONSTRUCTION

- 1. The tunnel shall be only of sufficient width and height to provide free working space. The sides and roof of the tunnel shall be braced sufficiently to support the external loads and to prevent caving, bulging, and settlement of the earth.
- 2. The Contractor shall backfill all tunnels with well compacted sand, fine gravel or stone screenings as rapidly as the conditions permit.
- 3. The backfill material shall be deposited in the tunnel in such a manner as not to injure or disturb the pipe. The filling of the tunnel shall be carried on simultaneously on both sides of the pipe in such a manner that injurious side pressures do not occur. Special care shall be taken to compact the backfill under the haunches of the pipe. The remainder of the tunnel, or such portion of the remainder as may be possible, shall then be backfilled by one of the following methods, at the option of the Contractor.
 - a. The material shall be deposited in uniform layers not to exceed twelve inches (12") thick (loose measure) and such layer either inundated or deposited in water.

- b. The tunnel shall be backfilled with loose material or only partly backfilled at a time, if necessary, and settlement secured in either case by introducing water through holes jetted into the material to a point approximately two feet (2') above the top of the pipe.
- 4. If neither of the above methods is practicable or can be used for only a portion of the backfill, the remainder of the tunnel shall be completely backfilled with material carefully deposited in uniform layers and each layer compacted by ramming or tamping with appropriate tools.
- 5. When sheeting and bracing have been used, sufficient bracing shall be left across the trench as the backfilling progresses to hold the sides and top firmly in place without caving or settlement before the backfilling has been placed. This bracing may be removed as soon as practicable.
- 6. Any depressions which may develop within the area involved in the construction operations due to settlement of the backfilling material shall be filled.

E. USE OF CASING PIPE

The Contractor may use metal casing pipe as a tunnel liner in place of timber shoring for tunnel sections. The design data for such pipe, including, but not necessarily limited to, the diameter, gauge, type of pipe, method of placing and installation will be submitted for the owner's review. The void space between tunnel liners or casing pipe and the carrier pipe shall be filled with compacted sand or other approved material.

F. JACKING OR BORING OF PIPE

The Contractor may, subject to the approval of the Owner, use special cast iron or specially designed reinforced concrete jacking pipe jacked and/or bored into position with or without tunnel liners, for tunneled sections pipe.

G. MEASUREMENT AND PAYMENT

Underground conduit constructed in tunnel will be paid for at the unit prices Bid for "Underground Conduit Constructed in Tunnel" for the various type and sizes for the actual length of tunnel Work. Payment shall include all labor, materials and equipment necessary to construct the conduit and tunnel, complete in place, including excavation and backfill, shoring and bracing, furnishing and laying casing pipe where required and carrier pipe, and all other Work necessary for a complete installation.

1-2-19 SANITARY SEWERS

A. GENERAL

The methods of excavating and backfilling sanitary sewer pipe shall be in compliance with the latest edition of the Illinois Department of Transportation, "Standard Specifications for Road and Bridge Construction", and the Metropolitan Water Reclamation District of Greater Chicago, "Manual of Procedure", latest revision. Where there is a conflict of these specifications, the MWRDGC, "Manual of Procedure" shall be used.

B. MATERIAL

Pipe material shall be as shown on the Plans or as described in the Special Provisions. No substitution of material shall be made without written approval from the Owner.

C. EXCAVATION AND BEDDING

The trench shall be excavated to an elevation to allow for the following bedding.

Bedding, other than concrete embedment, shall consist of gravel, crushed gravel, crushed stone or crushed slag, 1/4" to 1" in size. As a minimum, the material shall conform to the requirements of Article 1004.01 of the State Specifications or ASTM Designation C-33. The gradation shall conform to Section 1004, gradation CA 11 or CA 13 or to ASTM Gradation No. 67. The pipe shall be laid so that it will be uniformly supported and the entire length of the pipe barrel will have full bearing. No blocking of any kind shall be used to adjust the pipe to grade except when used with embedment concrete. Bedding shall be required for all sewer construction, except ductile iron pipe, and shall be of a thickness equal to 1/4 of the outside diameter of the sewer pipe with a maximum thickness of eight inches (8") but shall not be less than four inches (4").

Where unsuitable material is encountered at the grade established, all such unsuitable soil shall be removed under the pipe and for the width of the trench, and shall be replaced with well compacted bedding material, to the satisfaction of the Engineer.

Where rock is encountered, it shall be removed below grade and replaced with a cushion of well compacted bedding material having a thickness under the pipe of not less than eight inches (8").

The cost of furnishing, placing and compacting bedding material will be considered as incidental work and no additional compensation will be allowed.

D. BACKFILLING

The backfilling of the sanitary sewer pipe trench shall be the same as for storm sewer pipe described in Section 550.07 of the Standard Specifications.

E. METHOD OF MEASUREMENT

The method of measurement shall be the same as for storm sewer pipe described in Section 550.09 of the Standard Specifications except measurements will be made to the center of manholes.

F. BASIS OF PAYMENT

This work will be paid for at the Contract unit price per foot for "Sanitary Sewer" of the type and diameter specified and measured as specified.

"Trench Backfill", when specified, will be measured and paid for at the Contract unit price per foot unless otherwise stated in the Special Provisions or contract documents.

1-2.20 WATER MAINS

A. GENERAL

The method of excavating and backfilling water mains shall be in compliance with the latest edition of the Illinois Department of Transportation, "Standard Specifications for Road and Bridge Construction," and those below.

B. MATERIAL

Pipe material shall be as shown on the Plans or as described in the Special Provisions. No substitution of material shall be made without written approval of the Owner.

C. EXCAVATION AND BEDDING

The trench shall be excavated to an elevation to allow the minimum cover over the pipe as called for on the plans. Provision must be made by the Contractor to allow for any future cuts to be made to the ground over the pipe to assure that the minimum cover is maintained.

Bedding as described in Section 1-2.21C for sanitary sewers shall be required for all water mains, except ductile iron pipe that requires no bedding. The method of bedding for unsuitable material and where rock is encountered shall also comply with the conditions of that Section.

The cost of furnishing, placing and compacting bedding material will be considered as incidental work and no additional compensation will be allowed.

D. BACKFILLING

The backfilling of the water main pipe shall be the same as for storm sewer pipe as described in Section 550.07 of the Standard Specifications except that the moist fine aggregate backfill to the elevation of the center of the pipe will not be required for ductile iron pipe. For PVC or any other type of pipe, the moist fine aggregate shall be

brought to a level 12" above the top of the pipe and it shall be compacted as described in that Section.

E. METHOD OF MEASUREMENT

"Water main" pipe of the different types and diameters will be measured by the lineal foot in place.

Unless they are listed as separate Bid items, the water main item shall include all fittings required and all other material, except trench backfill within the specified trench.

F. BASIS OF PAYMENT

This work will be paid for at the Contract unit price per lineal foot for "Water main" of the type and diameter specified and measured as specified.

"Trench Backfill", when specified, will be measured and paid for at the Contract unit price per foot, unless otherwise specified in the special provisions or contract documents.

SECTION 2. RESTORATION OF SURFACES

2-1 GENERAL

Restoration of surfaces shall include the removal of the existing surface, the disposal of surplus material, and the construction of new surfaces as indicated on the plans or Special Provisions. The type of surface restoration required shall be shown on the Plans or described in the Special Provisions.

2-2 CONSTRUCTION DETAILS

2-2.01 TEMPORARY SURFACE OVER TRENCH

Wherever conduits are constructed under traveled roadways, driveways, sidewalks, or other traveled surfaces, a temporary surface shall be placed over the top of the trench as soon as possible after compaction, as specified above, has been satisfactorily completed. The temporary surface shall consist of a minimum of six inches (6") of coarse aggregate conforming to the current specifications of the State Specifications for Grade No. CA-9 or CA-10. The top of the temporary surface shall be smooth and meet the grade of the adjacent undisturbed surface. The temporary surface shall be maintained at the Contractor's expense until final restoration of the street surface is completed, unless specific items for temporary aggregate is specified. No permanent restoration of street surface shall be initiated until authorized by the Engineer.

2-2.02 REMOVAL OF PAVEMENT, SIDEWALK, DRIVEWAY AND CURB

Wherever the pipe is located along or across an improved surface, the width of the trench shall be held as nearly as possible to the maximum width specified in Section 1-2.02. Where brick or concrete pavement, sidewalk, driveway or curbing is cut, the width of the cut shall exceed the actual width of the top of the trench by twelve inches (12") on each side or a total of two feet (2'). Exposed surfaces of portland cement or asphaltic concrete shall be cut with a pavement saw before breaking. Care shall be taken in cutting to insure that a straight joint is sawed.

2-2.03 REPLACEMENT OF PERMANENT TYPE PAVEMENT, SIDEWALKS, DRIVEWAYS, CURBS, GUTTERS AND STRUCTURES.

The Contractor shall restore (unless otherwise specified or ordered by the Engineer) all permanent type pavements, sidewalks, driveways, curbs, gutters, shrubbery, fences, poles and other property and surface structures removed or disturbed during or as a result of construction operations to a condition which is equal in appearance and quality to the condition that existed before the Work began. The surface of all improvements shall be constructed of the same material and match in appearance the surface of the improvement which was removed. Where trench backfill is used, the restoration shall be made as soon as possible after jetting of the backfill has been completed.

112014 EC 13

2-2.04 REPLACING EXISTING TEMPORARY STREET AND ALLEY SURFACES

A. GENERAL

For the purpose of this specification, all existing street and alley surfaces shall be considered temporary except:

(1) concrete or brick pavements; (2) an asphaltic concrete or a bituminous treated surface over a soil cement, concrete, crushed stone or selected gravel base. Specifically included as temporary street surfaces, shall be compacted earth, cinders, shale, mixtures of gravel and earth or crushed stone and earth, whether or not these respective materials are further stabilized by road oil or bituminous surface treatment. This work should not be confused with Temporary Surface Over Trench as specified in Section 2-2.01.

Where conduits are constructed under temporary street or alley surfaces, or where such surfaces are used for the placement of backfill material or are disturbed by construction operations, the Contractor shall reconstruct, by grading and shaping, the entire width of roadway, and any drainage facilities which may have existed, to the original condition at the Contractor's expense, including that portion within the specified trench width where removal and restoration is paid for under a separate payment item.

Where, in the opinion of the Engineer, the conduit is located in the traveled portion of the temporary street or alley traveled surface, a new temporary surface shall be constructed over the trench, as specified in Section 2-2.01 of this Division. After this surface has been placed, it shall be maintained by the Contractor until final restoration is authorized. Just prior to final restoration, the entire width of the street to be restored shall be scarified. For final surface restoration, the Contractor shall apply a bituminous treatment to the entire width of the traveled surface, as ordered by the Engineer. The bituminous treatment shall consist of the application of a bituminous prime coat and a bituminous surface treatment corresponding to the materials and construction methods described in the State Specifications for bituminous surface treatment, Class A-1, A-2, or A-3 as specified, or shown in the bid items.

The Engineer reserves the right to order the omission of Bituminous Surface Treatment in any locations where such omission may be, in his opinion, in the public interest.

B. MEASUREMENT

Measurement for purposes of payment shall be computed by using the actual length and width of surface to which treatment is applied, in accordance with these Specifications.

C. PAYMENT

The cost of final restoration of the surface shall be paid for at the contract unit price per foot, unless so stated in the Special Provisions or for all State of Illinois projects, for "Bituminous Surface Treatment", of the type specified. Such price shall include the cost of all labor and materials necessary to provide the bituminous treatment as specified.

2-2.05 DISPOSAL OF SURPLUS EXCAVATED MATERIAL

Surplus excavated material not needed for backfill shall be promptly removed from the site to locations provided by the Contractor. The cost of removal and disposal of surplus excavated materials will be included in the respective unit prices for pipeline or conduit construction and no additional payment will be allowed therefor.

2-2.06 CLEANING UP

All surplus materials and all tools and temporary structures shall be removed from the site by the Contractor. All dirt, rubbish and excess earth from the excavation shall be hauled to a dump provided by the Contractor and the construction site left clean and acceptable to the Owner at the earliest possible date.

SECTION 3. FINISHING AND CLEAN UP FOR UNDERGROUND CONDUITS

3-1 CLEAN UP

Before acceptance of underground conduits construction, all pipes, manholes, catch basins, fire hydrants and other appurtenances shall be cleaned of all debris and foreign material.

After all backfill has been completed, the ground surface shall be shaped to conform to the contour of adjacent surfaces. General clean up of the entire construction area shall otherwise conform to applicable requirements specified.

DIVISION II

Technical Specifications

SANITARY SEWER AND FORCE MAIN

<u>SECTI</u>	ON 1. PIPE MATERIAL FOR SEWERS	1
1-1	DESCRIPTION	1
1-2	GENERAL	1
1-3	MATERIALS	1
<u>SECTI</u>	ON 2. PIPE LAYING, JOINTING AND TESTING OF SEWERS	3
2-1	CONSTRUCTION DETAILS	3
	AIR TEST TABLE	10
2-2	MEASUREMENT	11
2-3	PAYMENT	11
2-4	MEASUREMENT AND PAYMENT	11
SECTI	ON 3. MANHOLES FOR SANITARY SEWERS	12
<i>3-1</i>	DESCRIPTION	12
<i>3-2</i>	MATERIALS	12
3-3	CONSTRUCTION DETAILS	13
3-4	PAYMENT	16
<i>3-5</i>	MEASUREMENT AND PAYMENT	16
CECTI	ON 4. SERVICE SEWERS	17
<u>3ECTT</u> 4-1	DESCRIPTION	17
4-1 4-2	MATERIALS	17
4-2 4-3	CONSTRUCTION DETAILS	17
4-4	MEASUREMENT	18
4- 4 4-5	PAYMENT	18
4-6	MEASUREMENT AND PAYMENT	19
4-0	WEASONEWENT AND LATMENT	20
<u>SECTI</u>	ON 5. PIPE COVERING AND EMBANKMENT FOR SEWER CONSTRUCTION	20
5-1	DESCRIPTION	20
5-2	CONSTRUCTION DETAILS	20
5_2	MEASUREMENT	20

5-4	PAYMENT	20
SECT	ION 6. FORCE MAIN MATERIAL AND INSTALLATION	21
6-1	DESCRIPTION	21
6-2	GENERAL	21
6-3	CERTIFICATION	21
6-4	MATERIALS	21
6-5	CONNECTION TO EXISTING SANITARY SEWER MANHOLE	23
6-6	STEEL SLEEVES-AUGERED	24
	Standard Sizes of Steel Sleeves Used As Casings*	25
<i>6-7</i>	STEEL SLEEVES-OPEN CUT INSTALLATION	25
6-8	SEWER FLOW CONTROL AND BYPASS PUMPING	26
6-9	WATER USE	28
SECT	ION 7. FORCE MAIN VALVES	29
7-1	GENERAL	29
7-2	MANUFACTURERS	29
7-3	MATERIALS	29
7-4	VALVE JOINTS	30
7-4	OPERATING FORCE	30
7-5	FLOOR AND BENCH STANDS	30
7-6	VALVE VAULTS	30
7-7	TYPE-SPECIFIC VALVE SPECIFICATIONS	31
7.0	DAVMENT	34

SECTION 1. PIPE MATERIAL FOR SEWERS

1-1 DESCRIPTION

Pipe used in sanitary sewer construction, unless otherwise specified, shall be Polyvinyl Chloride Pipe (PVC) or Ductile Iron Pipe (DIP). All sanitary sewer pipe shall have flexible gasketed joints unless otherwise specified.

The Contractor shall only use the sewer pipe material specified on the Plans unless he receives written permission from the Engineer to substitute one of the other materials mentioned herein. No verbal approval, regardless of the source, will be recognized for changing the pipe material, class or type of joint.

1-2 GENERAL

Where reference is made to an ASTM or ANSI designation, it shall be the latest revision at the time of call for Bids, except as noted on the Plans or in the Special Provisions.

CERTIFICATION shall be the responsibility of the pipe manufacturer to certify that pipe and joint material furnished is capable of withstanding the infiltration or exfiltration basis as specified or required, if properly installed.

1-3 MATERIALS

1-3.01 PIPE MATERIALS

The type, class and strength of pipe to be used shall be as shown on the Plans or described in the Special Provisions.

A. DUCTILE IRON PIPE AND FITTINGS

Ductile Iron Pipe shall conform to ANSI A 21.51 (AWWA C-151), Class 52 designed per ANSI A 21.50 (AWWA C-150), tar (seal) coated and/or cement lined per ANSI A 21.4 (AWWA C-104), with mechanical or rubber ring (slip seal or push on) joints. Ductile Iron fittings shall conform to ANSI/AWWA C110 for mechanical, push-on or flanged joints. Cement-mortar and/or tar (seal) coat per ANSI A 21.4 (AWWA 104) and as specified.

B. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

Polyvinyl Chloride pipe (PVC) and fittings shall conform to ASTM F 679 or ASTM D 3034, except that it shall be made of PVC plastic having a minimum cell classification of 12454B.

1-3.02 JOINT MATERIALS

The type of joint materials to be used shall be as shown on the Plans or described in the Special Provisions.

112014

SSFM 1

JOINTS FOR SANITARY SEWERS

- A. Polyvinyl Chloride (PVC) pipe joints shall conform to ASTM D 2855 for solvent joints or ASTM D 3212 for gasket joints.
- B. Ductile iron pipe (DIP) joints shall conform to American National Standard C111/A21.50-90 for Rubber Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.

1-3.03 FITTINGS

Unless otherwise specified, tee fittings shall be provided in the sanitary sewer main for service sewer connections; a log of all tee fitting locations shall be kept by the Contractor during installation and one legible copy of each such log shall be turned over to the Owner prior to completion. Tees shall be six inches (6") inside diameter, unless otherwise specified or noted. All fittings shall be of the same material as the pipe. Material joining the fitting to the pipe shall be free from cracks and shall adhere tightly to each joining surface.

1-3.04 CAP FOR FITTINGS

All fittings shall be capped with a plug of the same material as the pipe, and gasketed with the same gasket material as the pipe joint, or be of material approved by the Engineer. The plug shall be secured to withstand test pressures specified herein.

SECTION 2. PIPE LAYING, JOINTING AND TESTING OF SEWERS

2-1 CONSTRUCTION DETAILS

2-1.01 SEWER PIPE LAYING

Laying of sewer pipe shall be accomplished to line and grade in the trench only after it has been dewatered and the foundation and/or bedding has been prepared in accordance with Division II, Excavation and Cleanup. Mud, silt, gravel and other foreign material shall be kept out of the pipe and off the jointing surfaces.

Variance from established line and grade shall not be greater than one thirty- second of an inch (1/32") per inch of pipe diameter and not to exceed one-half inch (1/2"), provided that any such variation does not result in a level or reverse sloping invert; provided also that variation in the invert elevation between adjoining ends of pipe, due to non-concentricity of joining surface and pipe interior surfaces, does not exceed one sixty-fourth of an inch (1/64") per inch of pipe diameter, or one-half inch (1/2") maximum.

The sewer pipe, unless otherwise approved by the Engineer, shall be laid upgrade from point of connection on the existing sewer or from a designated starting point. The sewer pipe shall be installed with the bell end forward or upgrade, unless approved otherwise. When pipe laying is not in progress, the forward end of the pipe shall be kept tightly closed with an approved temporary plug.

A. SEWER PIPE AND WATER MAIN SEPARATION

Sanitary sewers, house sewers or storm drains that are laid in the vicinity of pipe lines designated to carry potable water shall meet the following conditions as set forth in Division II, Water Distribution, Section 2-2.01.

B. SEWER MANHOLES

Sewer manholes shall be constructed so that no water pipe is in contact with or enclosed by any part of a sewer or sewer manhole. See also Division II, Water Distribution, Section 2-2.01.

2-1.02 DEWATERING

Dewatering sufficient to maintain the water level twelve inches (12") below the surface of the trench bottom or base of the bedding course, shall be accomplished prior to pipe laying and jointing, if not prior to excavation and placing of the bedding as called for in other sections of the Specifications or Special Provisions. The dewatering operation, however accomplished, shall be carried out so that it does not destroy or weaken the strength of the soil under or alongside the trench. The normal water table shall be restored to its natural level in such a manner as to not disturb the pipe and its foundation

2-1.03 BEDDING

The pipe bedding shall be placed so that the entire length of the pipe will have full bearing. No blocking of any kind shall be used to adjust the pipe to grade except when used with concrete encasement.

2-1.04 PLUGS AND CONNECTIONS

Plugs for pipe branches, stubs or other open ends which are not to be immediately connected shall be made of an approved material and shall be secured in place with a joint comparable to the main line joint. Stoppers may be of an integrally cast breakout design.

2-1.05 PIPE MARKINGS

All pipe shall have a homing mark on the spigot provided by the manufacturer.

2-1.06 PIPE JOINTING

Type of joint to be used will conform to the requirements of Section 1-3.02.

All pipe and jointing for sanitary sewers shall be subject to the tests specified in Section 2-1.09.

A. GASKET TYPE JOINTS

All extensions, additions and revisions of a sanitary sewer system, unless otherwise indicated in the Special Provisions, shall be made with sewer pipe jointed by means of a flexible gasket which shall be fabricated and installed in accordance with the specifications that follow. When gaskets are placed on the pipe in the field, the surfaces on which the gasket seats must be thoroughly cleaned. The gasket, lubricated according to the manufacturer's instructions, is placed on the pipe.

Pipe handling after the gasket has been affixed shall be carefully controlled to avoid disturbing the gasket and knocking it out of position or loading it with dirt or other foreign material. Any gaskets so disturbed shall be removed and replaced, cleaned and relubricated if required, before the jointing is attempted.

Care shall be taken to properly align the pipe before joints are entirely forced home. During insertion of the tongue or spigot, the pipe shall be partially supported by hand, sling or crane to minimize unequal lateral pressure on the gasket and to maintain concentricity until the gasket is properly positioned.

Sufficient pressure shall be applied in making the joint to assure that it is home, as described in the installation instructions provided by the pipe manufacturer. Sufficient restraint as specified in Section 2-1.02 shall be applied to the line to assure that joints once home are held so, until fill material under and alongside the pipe has been sufficiently compacted. At the end of the work day, the last pipe laid shall be blocked in an effective way to prevent creep. The pipe shall be closed with a suitable "night cap".

Pipe required to be laid on curved alignment shall be joined in straight alignment and then be deflected, joint by joint. Special care shall be taken in blocking the pipe just previously laid, by tamped fill or otherwise to resist the misaligning forces generated during compression of the joints being made.

B. JOINTING OF DISSIMILAR PIPES

Suitable adaption couplings shall be specified in the Special Provisions for the jointing of dissimilar pipes. Where suitable adaptor couplings are not available for dissimilar pipes the jointing shall be accomplished with a special fabricated coupling to concrete encasement as specified, or as submitted by the Contractor and approved by the Engineer.

2-1.07 SEWER LINE CONNECTIONS

Sewer line connections to trunks, mains, laterals, or side sewers shall be left uncovered until after an acceptance observation has been made. After approval of the connection, the trench shall be backfilled as specified in Division II, Excavation and Cleanup, Section 1-2.20 after first covering the bare pipe with select material compacted to a depth of six inches (6") above the crown of the pipe.

No existing sewer shall be connected to a sanitary sewer unless specifically authorized in each instance by the Engineer. Storm drains and drain tiles shall not be connected to a sanitary sewer.

2-1.08 SERVICE RISERS

Where the depth of the sewer invert is greater than twelve feet (12') below the surface of the ground, a service riser shall be constructed to an elevation of ten feet (10') below the ground elevation or as directed by the Engineer.

The service riser shall be constructed with the six-inch (6") tee as shown on the Plans placed to receive the six-inch (6") riser pipe. The tee shall be bedded as shown on Plans.

The riser pipe shall extend to the proper elevations and shall terminate with a manufactured plug.

Extreme care shall be taken in backfilling around risers. Where the excavated material is not suitable for this purpose in the opinion of the Engineer, granular material shall be placed around the riser.

2-1.09 TESTING AND INSPECTION FOR ACCEPTANCE OF SANITARY SEWER

Testing and inspection of sanitary sewers for acceptability shall be conducted by:

- A. Exfiltration of water
- B. Infiltration of water
- C. Exfiltration of air under pressure
- D. Lamping
- E. Televising (Optional procedure to supplement items A. through E.)

At a minimum, all sanitary sewers shall be tested for acceptability by either A., B., or C. above or a combination thereof. All lines shall be cleaned of debris and flushed clean as necessary. Debris shall not be flushed into sanitary sewer.

112014

SSFM 5

A. SELECTION OF TEST SECTIONS

Unless otherwise specified or directed by the Engineer, the first section of sanitary sewer constructed of approximately 1,200 feet in length or the entire length of sewer if it is less than 1,200 feet shall be tested by the exfiltration, infiltration, or air testing method before additional excavation is permitted.

The Contractor may at his option divide the first section of sewer into subsections of more convenient length for testing. If the section or subsection tested does not pass the tests, it shall be repaired and the test repeated until a satisfactory test is obtained. Excavation shall not proceed beyond the first 1,200 foot section until test results for the entire 1200 feet are satisfactory.

In the event the first 1,200 foot section of sewer or portion thereof did not pass the test on the first trial, the next section of sanitary sewer of approximately 1,200 feet in length shall also be tested, repaired if necessary, and retested until a satisfactory test is obtained before additional excavation is started.

When favorable test results are obtained on the first trail on a full 1,200 foot section of pipe, the Engineer may designate additional sections for testing as conditions in his opinion warrant. The Engineer reserves the right to select the location and lengths of additional test sections when construction operations or materials change or where construction difficulties indicate leakage or deflection may be present or in sections selected at random.

The Engineer shall notify the Contractor of the location where a test is to be required no later than 15 days after the sewer installation has been completed in the section to be tested. Unless otherwise authorized, the Contractor shall arrange to commence the test within 15 days after the sewer has been installed or 15 days after notification by the Engineer, whichever date is later.

B. TESTING TECHNIQUE

All Testing Methods: All wyes, tees and stubs shall be plugged with flexible jointed caps, or acceptable alternate, securely fastened to withstand the internal test pressure. Such plugs or caps shall be readily removable.

 Exfiltration Method Procedures: The section of sewer to be tested shall be sealed by inserting inflatable rubber bags in the pipes or by other means approved by the Engineer, and then water shall be introduced into a manhole until the section is completely filled. The Contractor shall fill the pipe to the test level prior to the time of exfiltration testing to permit normal absorption into the pipe walls.

Throughout the test period of at least one (1) hours, the water level in the upper manhole shall be maintained at least twenty-four inches (24") above the

crown of the upper end of the pipe or at least twenty-four inches (24") above the ground water table, whichever is higher. The length of pipe tested shall be limited so that the pressure on the center line of the lower end of the section tested shall not exceed six feet (6') of water column.

- Infiltration Method Procedures: The section of sewer to be tested shall have been trench backfilled and the tests conducted by inducing infiltration conditions by jetting the sewer trench for a sufficient length of time to insure that the water level in the trench is a minimum of twenty-four inches (24") over the crown of the sewer pipe at the upper end of the pipe. The test must be performed before existing sewers are connected and before sewage flow is allowed in the sewers.
- 3. Air Testing Method Procedures: The section of sewer to be tested shall have been trench backfilled and cleared. Pneumatic plugs (having a sealing length equal to or greater than the diameter of the pipe to be tested) placed in both ends of the pipe to be tested shall be inflated to 25 psig. The sealed sewer pipe shall then be pressurized to 4 psig above the average back pressure of ground water over the sewer pipe and the air pressure allowed to stabilize for at least two minutes.

After the stabilization period the line shall be pressurized to 3.5 psig and the time in minutes measured for pressure to drop to 2.5 psig. If groundwater is present, the air pressure within shall be increased to 3.5 psig above the level of the ground water and the drop of one pound of air pressure measured in minutes.

Air testing techniques shall be in accordance with the latest ASTM standard practice for testing sewer lines by low-pressure air test method for the appropriate pipe material, except that the time shall not be less than that shown in the Air Test Table contained in Section 2-1.11C.

4. Testing Procedures for PVC pipe shall include the following;

All sanitary sewers and manholes shall be tested by low pressure air testing and deflection testing. Deflection test shall not occur within less than thirty (30) days of completion of the section of sewer being tested including backfilling to finished grade.

A five percent (5%) Mandrel Deflection Test shall be performed on all PVC gravity sanitary sewer pipe. These pipes shall be mandrelled with a rigid device sized to pass five percent (5%) or less deflection (or deformation) of the base inside diameter of the sewer pipe.

Laser Profiling of the installed pipe to measure pipe deflection is acceptable in lieu of mandrell testing. The laser profiler shall be a "Scanner 3-D" type, which permits the measuring of actual deformities with a precision of at least 0.25%. The measurement of the actual pipe deformity must be calculated with the actual interior diameter on all points of the pipe (not the nominal diameter). The laser profiler must be able to give a series of at least a 1000 diametrical measurements at any given measuring point in a pipe. The laser profiling and observation measuring equipment must be certified on an annual basis by a qualified and accredited third party laboratory.

After the placement base material or compacted soils, a video recording of the interior of the installed pipe will be properly documented utilizing equipment indicated in this specification. Provide a video and report.

The contractor will dewater, clean, and bypass (if necessary) the installed pipe and provide the Engineer with a video and report using low barrel distortion video equipment with laser profile technology, non-contact laser aim video micrometer, and associated software.

For video recorded, laser profiled pipe that indicates deflection that is in excess of that allowed in the specification, the engineer may require the removal, replacement, repair, and/ or retesting of the pipe that has failed to meet the specific deflection requirements for the type of pipe installed, at no cost to the Owner.

For video recorded, observation and/or defect measured pipe that indicates that it exceeds that allowed in the specification, the engineer may require the removal, replacement, repair, and/ or retesting of the pipe that has failed to meet the specific observation and/or defect specification for that type of pipe installed, at no cost to the Owner.

Provide high quality video recording of the CCTV inspection in a high definition format video with a standard resolution of 720x 480. Utilize a camera with lighting suitable to allow a clear picture of the entire periphery of the pipe. Center the camera in the pipe both vertically and horizontally and be able to pan and tilt to a 90 degree angle with the axis of the pipe and rotating 360 degrees. Use equipment suitable to be able to move the camera through the pipe that will not obstruct the camera's view or interfere with proper documentation of the pipe's condition.

The video image shall be clear, focused, and relatively free from roll, static, or other image distortion qualities that would prevent the reviewer from evaluating the condition of the pipe. The video will include identification, at a minimum, before each line section of pipe to be filmed, the project number, the

structure number corresponding to the structure number on the set of plans for the project, size of pipe, the date and time, and indicate which pipe is being filmed if multiple pipes are connected to the structure. Written or typed television inspection logs shall be taken during the video recording process. Provide the engineer with copies of these "logs" along with the video.

Move the camera and Laser profiler through the pipe at a speed no greater than 30 feet per minute. Mark the video with the distance down the pipe. The distance meter shall have an accuracy of one foot per hundred feet (300mm in 328 meters). Stop the camera and pan when necessary to properly document observations and defects. Film the entire circumference at each joint. The operator must measure each joint, defect and crack discovered during the videotaping process surpassing the permitted values of the present specification.

A report of field conditions utilizing the laser profiler must, at a minimum, contain the following:

- a. graphic indicating the actual deformity registered in real-time for each section of the pipe (every 10mm);
- b. The description and a picture of the pipe and of the laser ring for each deformity surpassing the permitted values by the present standard;
- c. A copy of the calibration certificate from an accredited third party laboratory specifying the technology used, the device used and the certificate's validity date for this device;
- d. A recorded (video and written) measurement of crack lengths and width surpassing the permitted values of the present specification;
- e. A recorded (video and written) measurement of all pipe joints surpassing the permitted values of the present specification;
- f. Documentation of all pipe deformities, actual pipe measurements, leaks, debris and any other damage or defects;
- g. Deviation in pipe line and grade, joint gaps, and joint misalignment;
- h. Indexed and interactive display software for graphics (profile and isometric views), as well as two separate windows showing the video inspection and the laser profiler video inspection simultaneously.
- 5. Lamping shall be performed on all sewer pipeline by the Engineer.

C. ALLOWABLE TESTING LIMITS FOR SANITARY SEWERS

- 1. Exfiltration leakage shall not exceed 200 gallons per inch of pipe diameter per mile per day of sewer pipe, including manholes in the test section.
- Infiltration flow shall be measured by a 90-degree V-notch weir with free fall discharge or other means acceptable to the Engineer. Infiltration leakage shall not exceed 200 gallons per inch of pipe diameter per mile per day of sewer pipe, including manholes in the test section.
- 3. Air leakage test results shall not be less than the time per inch of pipe diameter per length of sewer pipe as specified in the table entitled "Air Test Table".
- 4. Three-fourths (3/4) of the pipe circle shall be observed both vertically and horizontally for lamping.

AIR TEST TABLE

SPECIFICATION TIME (min:sec) REQUIRED FOR PRESSURE DROP FROM 3-1/2 TO 2-1/2 PSIG WHEN TESTING ONE PIPE DIAMETER ONLY

PIPE DIAMETER, INCHES

Length of									
Sewer Pipe									
In Feet	4	6_	8	10	12	15	18	21	24
25	0:04	0:10	0:18	0:28	0:40	1:02	1:29	2:01	2:38
50	0:09	0:20	0:35	0:55	1:19	2:04	2:58	4:03	5:17
75	0:13	0:30	0:53	1:23	1:59	3:06	4:27	6:04	7:55
100	0:18	0:40	1:10	1:50	2:38	4:08	5:56	8:05	10:34
125	0:22	0:50	1:28	2:18	3:18	5:09	7:26	9:55	11:20
150	0:26	0:59	1:46	2:45	3:58	6:11	8:30		
175	0:31	1:09	2:03	3:13	4:37	7:05			
200	0:35	1:19	2:21	3:40	5:17				12:06
225	0:40	1:29	2:38	4:08	5:40			10:25	13:36
250	0:44	1:39	2:56	4:35			8:31	11:35	15:07
275	0:48	1:49	3:14	4:43			9:21	12:44	16:38
300	0:53	1:59	3:31				10:12	13:53	18:09
350	1:02	2:19	3:47			8:16	11:54	16:12	21:10
400	1:10	2:38			6:03	9:27	13:36	18:31	24:12
450	1:19	2:50			6:48	10:38	15:19	20:50	27:13
500	1:28			5:14	7:34	11:49	17:01	23:09	30:14

D. PAYMENT FOR TESTS

Payment for tests will not be paid for separately, but shall be included in the unit price of pipe, per foot. If any section fails to meet the test, it shall be repaired at the Contractor's expense and retested until it meets the leakage limitation.

2-2 MEASUREMENT

For payment purposes, the length of sewers installed shall be measured along the centerline. No deductions in length will be made for tees or fittings.

2-3 PAYMENT

Payment for pipe sewers shall be made at the contract unit price of the size and type indicated on the bid item at the contract unit price per foot for the size and type indicated. The cost of all items of construction not specifically listed for separate payment shall be included as an incidental expense in the contract price. No more than ninety percent (90%) of the value of work included in the unit price shall be eligible for inclusion in a partial payment estimate until leakage tests have been performed as specified and the pipes and joints are found to be satisfactory.

2-4 MEASUREMENT AND PAYMENT

The cost of all items described under "Pipe Laying, Jointing and Testing" not shown as bid items on the Proposal shall not be measured or paid for by item, but shall be included as part of the respective unit bid prices per foot for conduit construction of the size and type specified.

SECTION 3. MANHOLES FOR SANITARY SEWERS

3-1 DESCRIPTION

Manholes shall be leak-tight and shall be constructed of pre-cast concrete units, or cast-in-place concrete only, all in compliance with Plans and these Specifications.

3-2 MATERIALS

3-2.01 REINFORCED CONCRETE

Reinforced concrete shall consist of Portland Cement, mineral aggregates and water, in which steel has been embedded in such manner that the steel and concrete set together.

A. CEMENT

Cement shall conform to the requirements of the Specifications for Portland Cement ASTM C 150, and may be either standard Portland Cement or air-entrained Portland Cement of any type unless otherwise specified in the Special Provisions.

B. WIRE FABRIC REINFORCEMENT

Reinforcement shall consist of wire conforming to ASTM A185 or A497. Also, smooth wire conforming to ASTM A8Z and deformed wire conforming to ASTM A496.

C. BAR REINFORCEMENT

Bar reinforcement shall conform to ASTM A615, grade 40.

D. AGGREGATES

Aggregates shall conform to ASTM C33, except that the requirements for gradation shall not apply to precast items.

E. MIXTURES

The aggregates shall be so sized and graded, and proportioned and thoroughly mixed in proportions of cement and water as will produce a homogeneous concrete mixture of such quality that the manhole components will conform to the strength and watertightness requirements of these specifications.

F. CURING

Cast-in-place manhole components shall be moist-cured for a period not less than seven (7) days except that when high-early-strength cement is used, the curing shall be not less than three (3) days. Pigmented membrane curing compound or other approved method may be applied in lieu of moist curing.

G. STRENGTH

All concrete placed under these specifications shall have a minimum compressive strength of thirty-five hundred (3,500) psi at twenty-eight (28) days. Strength

determination shall be in accordance with ASTM C-39, unless otherwise approved by the Engineer.

3-2.02 STEPS

Manhole steps shall be cast iron ASTM A48 furnished and installed as shown on the Plans with load and pullout ratings meeting OSHA standards.

3-2.03 CAST IRON FRAMES AND COVERS

Castings shall conform to the requirements of gray iron castings ASTM A48 and conform to the details shown on the Plans. They shall be adjusted to final grade with precast concrete rings and mortar.

3-2.04 PRECAST MANHOLE COMPONENTS

Precast manholes shall conform with ASTM C-478 and with design dimensions. Cones and sections shall be substantially free from fractures, large or deep cracks and surface roughness. Slabs shall be sound and free from gravel pockets.

3-2.05 ADJUSTING RINGS

Final adjustment of frames and grates to grade shall be accomplished through the use of precast concrete adjusting rings. The rings shall be designed to provide a structural capacity equal to the cones and sections. They shall have a device for positively positioning and securely fastening the ring to the frame so as to match the surface grade and slope and prevent movement when under traffic loadings.

3-2.06 MONOLITHIC CONCRETE MANHOLES

Monolithic concrete manholes shall conform to detailed shop drawings submitted to the Engineer for approval prior to beginning Work and shall conform to the dimensional requirements specified. Walls and base shall be six inches (6") minimum thickness and space of steps shall be sixteen inches (16").

3-3 CONSTRUCTION DETAILS

3-3.01 FOUNDATION PREPARATION

A. DEWATERING

Dewatering of the site shall conform to the requirements for sewer trench de-watering in Section 2-1.02.

B. SUB-BASE PREPARATION

Adequate foundation for all manhole structures shall be obtained by removal and replacement of unsuitable material with well graded granular material; or by tightening with coarse ballast rock, or by such other means as provided for foundation preparation of the connected sewers, or as shown on the Plans.

3-3.02 BEDDING

Precast base sections shall be placed on a well graded granular bedding course conforming to the requirements for sewer bedding in Section 2, but not less than six inches (6") in thickness and extending

112014 SSFM 13

to the limits of the excavation. The bedding course shall be firmly tamped and made smooth and level to assure uniform contact and support of the precast element.

3-3.03 CAST-IN-PLACE BASES

Unless otherwise specified, cast-in-place bases shall be at least eight inches (8") in thickness and shall extend at least six inches (6") radially outside of the outside diameter of the manhole section.

3-3.04 PRECAST MANHOLES

Precast manholes may be constructed with a precast base section or a monolithic base structure as specified or shown on the Plans.

A precast base section shall be carefully placed on the prepared bedding so as to be fully and uniformly supported in true alignment and making sure that all entering pipes can be inserted on proper grade.

All lift holes on precast elements for sanitary sewer manholes shall be completely filled with a concrete plug and sealed with an approved bitumastic material. All joints between precast elements on sanitary sewer manholes shall be made with an approved bitumastic material or an approved rubber gasket.

The first precast section shall be placed on the monolithic base structure before the base has taken initial set, and shall be carefully adjusted to true grade and alignment with all inlet pipes properly installed so as to form an integral watertight unit; or the section shall be mortared into a suitable groove provided in the top of the monolithic base. The first section shall be uniformly supported by the base concrete, and shall not bear directly on any of the pipes.

Precast sections shall be placed and aligned to provide vertical sides and vertical alignment of the ladder rungs. The completed manhole shall be rigid, true to dimensions, and be watertight.

3-3.05 MONOLITHIC CONCRETE MANHOLES

Monolithic concrete manholes shall be constructed in accordance with the provisions of this Section and the details shown on the Plans.

3-3.06 EXCAVATION AND BACKFILLING

In order to permit the joints to be mortared properly and also to permit proper compaction of the backfill material, the excavation shall be made to a diameter of at least six inches (6") greater than the diameter of the structure.

The space between the sides of the excavation and the outer surfaces of the manhole, shall be backfilled with selected granular backfill if the manhole is in a pavement or if the nearest point of the excavation for the manhole falls within 2 feet of the pavement edge. If the structure falls beyond these limits, other backfilling material may be used, provided it meets with the approval of the Engineer.

3-3.07 INLET AND OUTLET PIPES

Pipe or tile placed in the masonry for inlet or outlet connections shall extend through the wall and beyond the outside surface of the wall a sufficient distance to allow for connections, and the masonry shall be carefully constructed around them so as to prevent leakage along the outer surfaces.

3-3.08 PLACING CASTINGS

Casting placed on concrete or masonry surface shall be set in full bituminous mastic beds. Castings shall be set accurately to the finished elevation so that no subsequent adjustment will be necessary.

A. STREETS AT GRADE

Where Work is in paved streets or areas which have been brought to grade, not more than sixteen inches (16") shall be provided between the top of the cone or slab and the underside of the manhole casting ring for adjustment of the casting ring to street grade.

B. STREETS OR ALLEYS WITH NO ESTABLISHED GRADE

Where Work is in the streets or other areas which have not been brought to grade, not less than four inches (4") nor more than sixteen inches (16") shall be provided between the top of the cone or slab and the underside of the manhole casting ring for adjustment of the casting ring to street grade.

The top of the manhole casting shall be flush with the street surface unless otherwise directed by the Engineer.

C. MANHOLES NOT WITHIN STREET OR ALLEY AREAS

Where Work is in cultivated areas, the top of the casting, unless otherwise directed by the Engineer, shall be eighteen inches (18") below the established ground surface.

Unless otherwise directed, in non-cultivated areas, the top of manhole castings shall be at grade of existing surface.

D. SEALING MANHOLES

Sanitary sewer manholes which are covered with earth or are located in low areas than can collect rainwater, and any other manholes indicated on the Plans, to be sealed, shall be equipped with an approved self-sealing lid.

3-3.09 CHANNELS

Channels shall be made to conform accurately to the sewer grade and shall be brought together smoothly with well rounded junctions, satisfactory to the Engineer, and in conformance with details shown on the Plans.

3-3.10 PIPE CONNECTIONS

Special care shall be taken to see that the openings through which pipes enter the structure shall be provided with flexible watertight connections conforming with ASTM C 923, "Standard Specifications For Resilient Connectors Between Reinforced Concrete Manhole Structures And Pipes." Other methods may be used to ensure watertightness when specified in the Special Provisions.

3-3.11 DROP MANHOLE CONNECTIONS

Drop manhole connections, whenever shown on the Plans, shall conform in all respects to details shown on the Plans.

3-3.12 CLEANING

All newly constructed manholes shall be cleaned of any accumulation of silt, debris, or foreign matter of any kind, and shall be free from such accumulations at the time of final inspection.

3-4 PAYMENT

Payment for each Manhole shall consist of a basic price for each.

3-5 MEASUREMENT AND PAYMENT

The following items under "Manholes for Sanitary Sewers" are specifically listed for separate measurement and payment:

"Manholes" of the type and size indicated.

"Drop Manholes" of the type and size indicated.

SECTION 4. SERVICE SEWERS

4-1 DESCRIPTION

A service sewer is a branch sanitary sewer line constructed from the main sanitary sewer line to a point described on the Plans or to a point established by the Engineer.

The general requirements for construction of sewers in other sections of these Specifications shall apply for service sewers unless they are inconsistent with any of the provisions of this particular section, and the Specifications shall apply alike to all service sewers on public rights of way and private property.

Unless otherwise specified, service sewers and fittings shall be six inches (6") in diameter.

4-2 MATERIALS

4-2.01 PIPE AND FITTINGS

Approved pipe and fitting materials shall be ductile iron, PVC, or vitrified clay. All other materials shall conform to the material requirements for sanitary sewer construction in other sections of the Specifications.

4-2.02 JOINTS

Approved jointing material shall be flexible gasketing. Flexible gasketing shall be construed to include rubber, synthetic rubberlike and plastic materials specially manufactured for the joint, pipe size, and use intended and shall be furnished by the manufacturer of the pipe to be used. Physical properties of the flexible gasketing shall conform to that defined in Section 1.

4-3 CONSTRUCTION DETAILS

4-3.01 GENERAL

Service sewer construction shall conform to all applicable ordinances or regulations unless otherwise stated in the Special Provisions. The Owner will obtain any necessary permits for service sewer construction.

4-3.02 EXCAVATION AND BACKFILL

Excavation and backfilling for service sewers shall conform to the requirements of other sewers, excepting that no backfill in excess of that required to hold the pipe in true alignment shall be placed prior to inspection.

4-3.03 PIPE LAYING AND JOINTING

Pipe laying and jointing, except as hereinafter provided, shall in general conform to the requirements of Section 2. During the pipe laying and jointing, the service sewer shall be kept free of any water, dirt or objectionable matter.

A watertight, factory-made plug shall be installed at the end of each sewer service.

A. LINE AND GRADE

Pipe shall be laid with a minimum grade of one-eighth inch (1/8") per lineal foot unless otherwise ordered. The Contractor shall establish such alignment and grade control as is necessary to properly install the service sewer.

B. PIPE LAYING

Pipe shall be laid in a straight line at a uniform grade between fittings, or on a uniform horizontal or vertical curvature achieved by deflecting pipe joints within the limits recommended by the manufacturer of the pipe used.

4-3.04 FITTINGS

All fittings shall be factory-produced and shall be designed for installation on the pipe to be used. Fittings shall be of the same quality and material as the pipe used.

The maximum deflection permissible at any one (1) fitting shall not exceed 45 degrees (one-eighth (1/8) bend). The maximum deflection of any combination of two adjacent fittings shall not exceed 45 degrees (one-eighth (1/8) bend) unless straight pipe of not less than two and one-half feet (2-1/2') in length be installed between such adjacent fittings, or unless one of such fittings be a wye branch with a cleanout provided on the straight leg.

Service sewers shall be connected to the tee, wye, or riser provided in the public sewer where such is available, utilizing approved fittings or adaptors. Where no tee, wye, or other riser is provided or available, connection shall be made by machine made tap and suitable saddle, or other methods as specified in the Special Provisions.

4-3.05 CLEANOUTS

Cleanouts shall be provided at locations and in accordance with details shown on the Plans.

4-3.06 RESTORATION, FINISHING AND CLEANUP

The Contractor shall restore all paved surfaces, curbing, sidewalks, or other surfaces to their original condition in such manner as to meet the requirements of applicable sections. All surplus material and temporary structures, as well as all excess excavation, shall be removed and the entire site of Contractor operations shall be left in a neat and clean condition.

4-4 MEASUREMENT

Measurement shall be along the pipe from the outside surface of the main sewer to the extreme end of the last pipe or fitting placed. Measurement shall be to the nearest one foot (1').

4-5 PAYMENT

Payment or service sewers shall be at the unit contract price per foot or each for "Service Sewers" of the size indicated. Tees, wyes, bends, adaptors, and plugs shall be considered as incidental to the construction.

All other costs shall be considered as incidentals to the construction of the service sewer and shall be included in the unit Contract prices for "Service Sewers".

4-6 MEASUREMENT AND PAYMENT

The cost of all items described under "Service Sewers" shall not be measured or paid for by item, but shall be included as part of the respective unit bid prices for conduit construction of the size specified.

SECTION 5. PIPE COVERING AND EMBANKMENT FOR SEWER CONSTRUCTION

5-1 DESCRIPTION

This section of the Specification applies to the construction of pipe covering and embankment. Pipe covering shall be constructed where the invert of the pipe is so shallow that placing of earth over the pipe becomes necessary to provide a minimum depth of cover. Pipe cover and embankment shall be constructed where the invert of the pipe is above the existing ground and it becomes necessary to construct an embankment upon which the pipe and pipe covering is to be placed. The embankment and cover shall be constructed to lines shown on the Plans.

5-2 CONSTRUCTION DETAILS

5-2.01 PIPE BED

The area upon which the embankment for the pipe bed is to be placed shall be stripped to the extent the Engineer directs to provide a firm bedding.

The embankment upon which the pipe is to be installed shall be constructed up to the spring line in six inch (6") lifts, each lift being compacted to a density equal to ninety-five percent (95%) of ASSHTO T 99 density. The material used in constructing the embankment shall be such that it will readily compact to required density. The Contractor may use any type of compacting equipment he wishes provided the required end result is obtained, and provided no damage occurs to surface or subsurface improvements.

5-2.02 PIPE COVER

The pipe cover material above the compacted embankment shall be placed without compacting, and shall be shaped to the required section.

5-2.03 SOURCE OF MATERIAL

The source of material shall be that which is specified in the Special Provisions.

5-3 MEASUREMENT

Measurement will be by the cubic yard of embankment as calculated from cross sections based on elevations of the ground surface after stripping and the neat line of the section conforming to the drawing. No deduction will be made for pipe volume displacement.

5-4 PAYMENT

Payment will be made at the unit Contract price per cubic yard for Pipe Covering and Embankment, which price shall be full compensation for furnishing all labor, equipment, and materials necessary to strip, construct and compact the embankment and cover as specified to the satisfaction of the Engineer.

SECTION 6. FORCE MAIN MATERIAL AND INSTALLATION

6-1 DESCRIPTION

Pipe used in force main construction, unless otherwise specified, shall be Polyvinyl Chloride Pipe (PVC) or Ductile Iron Pipe (DIP). All force main shall have flexible gasketed joints unless otherwise specified.

The Contractor shall only use the force main pipe material specified on the Plans unless he receives written permission from the Engineer to substitute one of the other materials mentioned herein. No verbal approval, regardless of the source, will be recognized for changing the pipe material, class or type of joint.

6-2 GENERAL

Where reference is made to an ASTM or ANSI designation, it shall be the latest revision at the time of call for Bids, except as noted on the Plans or in the Special Provisions.

6-3 CERTIFICATION

It shall be the responsibility of the pipe manufacturer to certify that pipe and joint material furnished is capable of withstanding the pressure rating as specified or required, if properly installed.

6-4 MATERIALS

A. DUCTILE IRON FORCE MAIN AND FITTINGS

Ductile Iron Pipe (DIP) force main shall conform to ANSI A21.51 (AWWA C151), designed per ANSI A21.50 (AWWA C150), and shall comply with the American National Standard C104/A21.4-95 for Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water. Flanged fittings shall be Class 53 that meet the requirements of AWWA C110/A21.10. Flanged joints shall meet the requirements of AWWA C115/A21.15 with full-face gaskets for joints on 12-inch diameter and smaller pipe and ring type gaskets for larger pipe. Mechanical joint fittings shall meet the requirements of AWWA C153/A21.53. Mechanical joints shall comply with American National Standard C111/A21.50-90 for Rubber Gasket Joints for Ductile-Iron Pressure Pipe and Fittings. All underground DIP force main shall be Class 52 wrapped in 8-mil thick polyethylene encasement in accordance with ANSI/AWWA C105/A21.5, Method B, with pipe and joints wrapped separately. For ductile iron pipe and fittings with mechanical joints that require harnessing, provide ductile iron mechanical joint retainer glands that are designed to resist pullout of the joints at the test pressures specified. Provide stainless steel bolts and nuts meeting the requirements of ASTM A 307, Grade B. Where required provide wall castings and connecting pieces meeting the requirements of AWWA C110/A21.10.

Installation of DIP shall be governed by AWWA Standard C600-93, AWWA Standard for Installation of Ductile-Iron Water Mains and Their Appurtenances. Bedding shall be in

accordance with ASTM C 12. All piping shall be installed and tested in accordance with AWWA standard C600-93, AWWA Standard for Installation of Ductile-Iron Water Mains and Their Appurtenances.

DIP force main shall utilize mechanical joint fittings for force restraint. The mechanical joint restraint devices shall be:

- 1. EBAA Iron, Inc., MegaLug 1100 series
- 2. Uni-Flange Series 1400, One-Lok Series SLD
- 3. Engineer-approved equal

Measurement shall be made along the centerline of force main installed. The contract unit price bid for DIP force main construction shall include the cost for piping, joint-restraint devices, polyethylene encasement, excavation, trench dewatering and maintenance, trench bottom reshaping, bedding, haunching, compaction, testing, and all other work necessary for a complete job. This work will be paid for at the contract unit price bid of LINEAL FOOT for DUCTILE IRON FORCE MAIN at the diameter specified. Fittings in the force main will be paid for at the contract unit price bid per POUND for DUCTILE IRON FITTINGS at the diameter specified.

B. POLYVINYL CHLORIDE (PVC) FORCE MAIN AND FITTINGS

Polyvinyl Chloride (PVC) force main and fittings shall be Pressure Class 200, DR 14 conforming to AWWA C900 (AWWA Standard for Polyvinyl Chloride [PVC] Pressure Pipe and Fabricated Fittings, 4 in. Through 12 in. [100 mm Through 300 mm], for Water Distribution) with fittings and elastomeric gasketed joints meeting the requirements of AWWA C907 (Injection-Molded Polyvinyl Chloride [PVC] Pressure Fittings, 4 in. Through 12 in. [100 mm Through 300 mm], for Water Distribution), unless otherwise directed by the Engineer.

All PVC piping shall be installed and tested in accordance with AWWA C605 (Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water).

PVC force main shall utilize mechanical joint fittings for force restraint. The mechanical joint restraint devices shall be:

- 1. EBAA Iron, Inc., MegaLug 1100 series
- Uni-Flange Series 1400, One-Lok Series SLD
- 3. Engineer-approved equal

Each PVC pipe length and fitting shall be clearly marked with the following:

- 1. Manufacturer's Name
- 2. Nominal Pipe Size
- 3. Cell Classification
- 4. Minimum Pipe Stiffness

The Contractor shall take great care not to scratch, indent, puncture or otherwise damage the PVC pipe during installation. All pipe materials used shall be inspected and approved by the Engineer before and during installation. If a pipe section has been damaged in any way before or during installation, it shall be removed and replaced with a pipe section acceptable to the Engineer. Pipe installation shall strictly conform to the manufacturer's recommendations.

A detectable metallic tracing and warning tape of a type approved by the Engineer shall also be installed. This work shall consist of burying of metallic tape in the trench running along the centerline of the force main. The tape shall be laid in the trench 2 feet above the buried force main. The tape shall be 2" wide and read "CAUTION – BURIED FORCE MAIN BELOW."

Measurement shall be made along the centerline of force main installed. The contract unit price bid for PVC force main construction shall include the cost for piping, joint-restraint devices, magnetic pipe location tape, excavation, trench dewatering and maintenance, trench bottom reshaping, bedding, haunching, compaction, testing, and all other work necessary for a complete job. This work will be paid for at the contract unit price bid of LINEAL FOOT for PVC FORCE MAIN at the diameter specified. Fittings in the force main will be paid for at the contract unit price bid per POUND for PVC FITTINGS at the diameter specified.

6-5 CONNECTION TO EXISTING SANITARY SEWER MANHOLE

This work involves connection of the force main to an existing sanitary manhole at the location shown on the plans, or as directed by the Engineer. The contractor will have to provide sheeting, scaffolding or bracing to insure that no movement of the exposed manhole will take place while core drilling the exposed wall to allow the pipe installation. Should the structure be found to deflect, displace or fall out of plumb, the contractor shall be responsible for correcting the movement.

In the process of core drilling the wall, extreme care shall be taken so that minimal structural damage is done to the manhole. All debris falling into the manhole must be entirely removed. Connections to existing manholes shall be made using an A-Lok gasket, rubber boot, or other approved flexible seal.

The cost for all equipment, labor and materials, including core drilling the manhole wall opening, excavation, furnishing, erecting, and removing shoring, scaffolding and/or bracing, water stop, and backfilling will be paid for at the contract unit price per EACH for CONNECTION TO EXISTING SANITARY SEWER MANHOLE.

6-6 STEEL SLEEVES-AUGERED

The Contractor is advised to review the site and familiarize himself with the soil conditions prior to finalizing his bid for this portion of the work. No additional compensation shall be allowed for changes in the construction method due to ground conditions that may exist at the time of construction. All work shall be performed in accordance with Section 552 of the Standard Specification except as described in the following specifications and the Steel Sleeve Specification contained herein.

This work shall consist of auguring a steel sleeve at the location and at the line and grades provided on the plans or as where directed by the Engineer. The Contractor shall field verify the elevations and locations of any and all utilities that may cross beneath or over the proposed auger prior to ordering structures, or beginning the auger operation so as to not damage the existing utilities during auger operations. No additional compensation shall be given for any modifications required to be made to the proposed force main design (including but not limited to re-ordering/restocking structures), or for any delay time incurred due to a difference in assumed and actual elevations of the existing utilities.

The Contractor shall take all necessary precautions to prevent the undermining of roadways, structures, embankments, or property including the utilization of trench boxes, sheeting, etc., to properly maintain the auger and receiving pit excavations such that underlying soils between the pavement edge etc. and auger limits are prevented from entering the excavation. In the event that settlement or any other damage occurs to adjacent roadways, property or structures between the time the auguring is completed and the end of the contract bond guaranty period, the Contractor shall be fully responsible for any repairs deemed necessary by the Engineer.

This work shall consist of the construction of steel sleeves (casing pipe) augured at the locations indicated in the contract drawings or as directed by the Engineer. The minimum thickness of the steel sleeves shall be as listed below. All casing pipe shall be smooth, Grade B welded steel pipe meeting the requirements of ASTM A139 and ANSI/ AWWA C200 (AWWA Standard for Steel Water Pipe—6 in. (150 mm) and Larger), minimum yield strength of 35,000 psi. Sleeves shall be installed as indicated in the detail drawings, unless otherwise approved by the Engineer.

After installation of the steel sleeve is completed, the proposed force main shall be constructed in place within the sleeve. The water main shall be inserted and centered by use of model CCS stainless steel casing spacers as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL or Engineer-approved equal.

Caser spacing shall be bolt on style with a two-piece shell made from T-304 stainless steel of a minimum 14-gauge thickness. Each shell section shall have bolt flanges formed with ribs for added strength. Each connecting flange shall have a minimum of three (3) five-sixteenths inch (5/16") T-304 bolts. The shell shall be lined with a ribbed PVC extrusion with a retaining section that overlaps the edge of the shell and prevents slippage. Bearing surfaces (runners) made from UHMW polymer with a static coefficient of friction of 0.11-0.13 shall be attached to support structures (risers) at appropriate positions to properly support the carrier within the casing and to ease installation. The runners shall be attached mechanically by T-304 threaded fasteners inserted through the punched riser section and TIG welded

for strength. Risers shall be made of T-304 14-gauge stainless steel. All risers over two inches (2") in height shall be reinforced. Risers shall be MIG welded to the shell. All metal surfaces shall be fully passivated.

The cost for excavating, shoring, trench backfill, and backfilling of the jacking pit and receiving pit, including dewatering (if necessary), stabilization, and installing the steel sleeve shall be considered incidental to the contract unit price for the steel sleeve auger.

Standard Sizes of Steel Sleeves Used As Casings*

Carrier Pipe ID in Inches	Casing Wall Thickness in Inches	Casing Outside Diameter in Inches
6	0.344	20
8	0.344	20
12	0.375	24
16	0.469	30
20	0.563	36
24	0.625	42
30	0.719	48
36	0.781	54
42	0.875, 0.938	60, 66
48	1.000	72

^{*}Adapted from City of Chicago, IL Water Department Standard Specifications

The cost of furnishing and installation of the steel sleeve, and all incidental work necessary for its installation, including casing spacers, will be paid for at the contract unit price bid per LINEAL FOOT for [SPECIFIED SIZE] DIAMETER STEEL SLEEVE, [SPECIFIED SIZE] WALL THICKNESS, AUGERED. The cost for force main constructed within the sleeves will be paid for at its unit price.

6-7 STEEL SLEEVES-OPEN CUT INSTALLATION

The work for open cut installation of steel sleeves shall be identical to the work described in Section 6.6, except that no augering, jacking, or receiving pits are required.

The cost for excavating, shoring, trench backfill, and backfilling of the open cut area, including dewatering (if necessary), stabilization, and installing the steel sleeve shall be considered incidental to the contract unit price for the steel sleeve auger.

The cost of furnishing and installation of the steel sleeve, and all incidental work necessary for its installation, including casing spacers, will be paid for at the contract unit price bid per LINEAL FOOT for [SPECIFIED SIZE] DIAMETER STEEL SLEEVE, [SPECIFIED SIZE] WALL THICKNESS, OPEN CUT INSTALLATION. The cost for force main constructed within the sleeves will be paid for at its unit price.

6-8 SEWER FLOW CONTROL AND BYPASS PUMPING

It is the intent of this specification to provide the minimum requirements for sewer flow control bypass pumping.

The Contractor shall provide all labor, equipment, supervision, and materials necessary to control flows via bypass pumping through a section or sections of pipe designated for replacement. The Contractor shall be responsible for controlling and maintaining all sanitary and storm flows within the sewer system during the Work. The Contractor may drain flows by pipes, chases, fluming, bypass pumping, or other appropriate methods approved by the Owner.

Precautions shall be taken to ensure that flow control and dewatering operations shall not cause flooding or damage to public or private properties. In the event flooding or damage occurs, the Contractor shall make provisions to correct such damage at no additional cost to the Owner. The Contractor shall be responsible for any damages to public or private property, overflows from the sewer system and violations resulting in fines as a result of the dewatering/bypass operation.

When required for this project, the Contractor shall provide all labor, equipment, and materials necessary for the transfer of flow around the sections of pipe and/or the existing lift station. If the Contractor utilizes a subcontractor for bypass pumping operations, the subcontractor shall have at least five years of experience in the bypass pumping industry.

The bypass shall be made by diversion of the flow from an existing upstream location, around the section(s) to be taken from service for inspection or rehabilitation, to an existing downstream location. The bypass system shall be of adequate capacity to handle all flows, including wet weather related flows. If bypass pumping is utilized by the Contractor to control flows, the Contractor shall be responsible for monitoring the bypass pumping operation at all times until Work is complete. The location of pump(s), force main, discharge point, pumping rates, etc., shall be approved by the Owner.

The Contractor shall prepare a detailed Flow Control Plan that describes the measures to be used to control flows. The Contractor shall submit the Plan to the Engineer for review prior to beginning any flow control work. The Contractor's Plan shall include, but not necessarily be limited to, the following:

- A. Stand-by/back-up pump set for the bypass application.
- B. Detail plan for 24-hour monitoring.
- C. Fueling of pump sets on demand.
- D. Location of flow diversion structures, collapsible sewer plugs, dams, pumps, and related materials and equipment. Sewer plug method and type of plugs or gates to be used.
- E. Key operational control factors, (i.e. maximum flow elevations upstream of dams).
- F. Pump sizes and flow rates.
- G. Destination of bypassed flows, including routing of force mains and provisions for vehicular and pedestrian traffic as necessary.
- H. Wet weather event procedures.

- I. Staging areas for the pumps.
- J. Number, size, material, locations, and method of installation of suction piping.
- K. Bypass pump sizes, capacity, number of each size to be on site, and power requirements.
- L. Calculations of static lift, friction loss, and flow velocity.
- M. Stand-by power.
- N. Downstream discharge plan.
- O. Method of noise control for each pump.
- P. Temporary pipe supports and anchoring required.
- Q. Heavy equipment needed for installation of pumps and piping.

The number and size of pumps utilized in bypass pumping shall be such that if the largest pump is out of service, bypass flows will be maintained during the bypass operation. Bypass pumping equipment shall include pumps, conduits, engines, and related equipment necessary to divert the flow or sewage around the section in which work is to be performed. In addition, the Contactor shall maintain at the same location and in operable condition, duplicate equipment to be used in case there is equipment failure. In this event, the Contractor shall promptly repair or replace the failed equipment to the satisfaction of the Owner.

The bypass system shall be of sufficient capacity to handle the peak flow of the pipe. The Contractor shall provide the necessary labor and supervision to set up and operate the pumping and bypassing system. The Contractor shall comply with any local sound ordinance. The equipment shall be manned continuously. During bypass pumping operations, the Contractor shall provide the necessary labor to continually monitor the operation and ensure uninterrupted and sufficient pumping at all times. The bypass pumping system shall be fueled every 24 hours or when the fuel tank reaches one quarter full, whichever comes first.

The Contractor shall provide all materials and labor as necessary to maintain flows in the existing sewer interceptor and all collector and lateral lines at all times and under all weather conditions. Interruption of flows will not be permitted. Overflows from bypass operations will not be permitted to enter into any streams or bodies of water. The Contractor will be solely responsible for any legal actions taken by the federal or state regulatory agencies if such overflows occur during construction.

New sewer pipes may be used by the Contractor to carry the sanitary flows after the new pipes have passed inspection and testing. Any "temporary" connections to the new sewer pipes shall be approved by the Owner.

New sewer pipes may be used by the Contractor to carry the sanitary flows after the new pipes have passed inspection and testing. Any "temporary" connections to the new sewer pipes shall be approved by the Owner.

Engine driven equipment for bypass pumping equipment shall have "critical grade mufflers." The enclosure shall be portable in order to allow the enclosure to be moved when bypass pumping equipment is moved. These conditions are subject to any other additional stipulations that may be required by local sound ordinances.

Bypass pumping, including all elements detailed above, will be paid for at the contract lump sum price of SEWER FLOW CONTROL AND BYPASS PUMPING.

6-9 WATER USE

The Contractor desiring to use water from municipal hydrants will be required to make an application to the Owner, and if the request is granted, shall conform with the ordinances of the municipality, as well as with the rules and regulations of the Water Department, and will be held responsible for all damages to hydrants and water pipe used for the purposes of securing water. Pipe wrenches approved by the Water Department shall be utilized for opening and closing hydrants and other appurtenances.

When additional water from fire hydrants is necessary to avoid delay in normal work procedures, the water shall be conserved and not used unnecessarily. No fire hydrant shall be obstructed in case of a fire in the area served by the hydrant.

The Owner wishes to keep accurate records of the amount of water used for the construction purposes. The Contractor shall use an approved water meter to record usage, and shall report the total water used to the Water Superintendent at the end of each working day. The Contractor will be responsible for the cost of the water billed at the normal residential rate.

SECTION 7. FORCE MAIN VALVES

7-1 GENERAL

Provide valve operators complete, including a suitable enclosure, with all appurtenances necessary for the operator to perform its intended function. Such appurtenances include, but are not limited to, anchor bolts and other mounting hardware, extension stems, operating nuts, direct burial valve boxes, and other such items.

7-2 MANUFACTURERS

Acceptable manufacturers are listed below. Other manufacturers of equivalent products may be submitted.

- A. Automatic Air Valves:
 - 1. Val-Matic Valve & Mfg. Corporation
 - 2. GA Industries
 - 3. APCO
 - 4. Engineer-approved equal
- B. Eccentric Plug Valves:
 - 1. DeZURIK
 - 2. GA Industries
 - 3. Engineer-approved equal
- C. Single Disc Swing Check Valves:
 - 1. American Flow Control
 - 2. Clow Valve Company
 - 3. M&H Valve Company
 - 4. Mueller Company
 - 5. GA Industries
 - 6. Engineer-approved equal

7-3 MATERIALS

Fabricate valves and operators of materials resistant to corrosion for the required service. For valve components the following standards shall apply:

- A. Operator housings and pedestal handwheels:
 - 1. Cast iron ASTM A 126, Class B

ASTM A 48, Class 30 or 35

2. Ductile iron ASTM A 395

ASTM A 536, Grade 65-45-12

3. Cast steel ASTM A 27/A27M

112014

SSFM 29

B. Operator worms, steel ASTM A 29/A29M Grade

Designation 8620

1. Operator gears, steel ASTM A 572/A572M (spur & helical)

2. Worm gears, bronze ASTM B 148, Alloy C95400 or C95500

ASTM B 584, Alloy C86300

7-4 VALVE JOINTS

Fabricate all valves with flanged ends, unless otherwise specified. For metallic flanged joints, provide flanges that are faced accurately at right angles to the axis of the casting. Face and drill flanges and shop coat with a rust-preventive compound before shipment. For flanged joints, provide flanges whose dimensions and drillings meet the requirements of ASME B16.1, 125 pounds as a minimum. For valves installed in force mains with test pressure requirements higher than 125 psi, provide flanges whose pressure ratings equal or exceed the specified test pressure of the force main. Furnish special drillings where required. For valves having flanges that do not conform to the thickness requirements of ASME B16.1, test each valve in accordance with the hydrostatic shell test pressure requirements of ASME B16.1.

7-4 OPERATING FORCE

Fabricate valves to limit the maximum force required to operate all manual valves, including but not limited to valves with wrench operated nuts, levers, handwheels and chainwheels, to 40 pounds. Limit the overall length of each wrench or single-arm lever to 18 inches. Limit the overall length of each dual-arm lever to 36 inches.

7-5 FLOOR AND BENCH STANDS

Accurately center floor and bench stands over the valve. Solidly bolt stands to the floor or support structure, with through-bolts wherever possible. Place approximately 3/4 inch of non-shrink cement grout beneath stands mounted on concrete or similar construction to assure uniform support. For stands installed within the area of a removable type floor, platform, or grating, securely mount them on their own support structure independent of the removable element, unless otherwise shown or specified.

7-6 VALVE VAULTS

Where a valve is shown or specified to be located within a vault, the vault shall be furnished and installed as shown on the drawings.

7-7 TYPE-SPECIFIC VALVE SPECIFICATIONS

Provide valves of the type(s) specified conforming to the specifications detailed in the sections below.

7-7.01 AIR RELEASE VALVES

A. SCOPE AND INTENT

This specification is intended to cover the design, manufacture, and testing of 1 in. (25 mm) through 8 in. (200 mm) Wastewater Combination Air Valves suitable for pressures up to 150 psig (1000 kPa).

Wastewater Combination Air Valves shall be fully automatic float operated valves designed to exhaust large quantities of air during the filling of a piping system and close upon liquid entry. The valve shall open during draining or if a negative pressure occurs. The valve shall also release accumulated air from a piping system while the system is in operation and under pressure. The valve shall perform the functions of both Wastewater Air Release and Wastewater Air/Vacuum Valves and furnished as a single body and dual body type as indicated on the plans.

B. STANDARDS, APPROVALS, AND VERIFICATION

Valves shall be manufactured and tested in accordance with American Water Works Association (AWWA) Standard C512. The manufacturer shall have a quality management system that is certified to ISO 9001:2000 by an accredited, certifying body.

C. CONNECTIONS

Single body valves sizes 4 in. (100 mm) and smaller shall have full size NPT inlets and outlets equal to the nominal valve size with a 2 in. (50 mm) inlet on 1 in. (25 mm) valves. The body inlet connections shall be hexagonal for a wrench connection. The body shall have 2" NPT cleanout and 1" NPT drain connection on the side of the casting. The valve shall have three additional NPT connections for the addition of backwash accessories.

D. DESIGN

Valves shall provide an extended body with a through flow area equal to the nominal size. Floats shall be unconditionally guaranteed against failure including pressure surges. Valves 4 in. (100 mm) and larger employing a bottom float guide shall be provided with a resilient bumper to cushion the float during sudden opening conditions. The seat shall provide drop tight shut off to the full valve pressure rating.

Single body valves shall have a full port orifice, a double guided plug, and an adjustable threaded orifice button. The 1 in. (25 mm) body shall be globe style to increase float clearance and reduce clogging. The plug shall be protected against direct water impact by an internal baffle and extended float stem. The float shall include a sensitivity skirt to minimize spillage.

E. MATERIALS AND CONSTRUCTION

Body material shall be ASTM A536 Grade 65-45-12 ductile iron. The float, plug, guide shafts, and bushings shall be constructed of Type 316 stainless steel. Non-metallic guides and bushings are not acceptable. Resilient seats shall be Buna-N. Interior of valve to be coated with fusion bonded epoxy. The exterior of the valve shall be coated with a universal alkyd primer.

Backwash accessories shall be furnished and shall consist of an inlet shut-off valve, a blow-off valve, a clean water inlet valve, rubber supply hose, and quick disconnect couplings. Accessory valves shall be quarter-turn, full ported bronze ball valves.

F. MANUFACTURER QUALIFICATIONS

The manufacturer shall demonstrate a minimum of five (5) years' experience in the manufacture of air valves. The valves shall be manufactured and tested in accordance with American Water Works Association Standard (AWWA) C512. When requested, the manufacturer shall provide test certificates, dimensional drawings, parts list drawings, and operation and maintenance manuals.

Wastewater Combination Air Valve shall be manufactured by Val-Matic Manufacturing Corporation, Elmhurst, IL, USA; GA Industries, Cranberry Township, PA, USA or Engineer-approved equal.

7-7.02 ECCENTRIC PLUG VALVES

A. SCOPE AND INTENT

This specification is intended to cover the design, manufacture, and testing of quarter turn plug valves meeting the requirements of AWWA C517 having an eccentric action that causes the plug to rise off the seat contact during the opening movement rather than sliding from its seat.

B. MATERIALS AND CONSTRUCTION

Provide plug valves with Buna-N or Chloroprene faced plugs.

Construct plug valves of cast iron or semi-steel at least equal to ASTM A 126, Class B, or ductile iron at least equal to ASTM A536 Grade 65-45-12. Construct the body seats with a welded-in overlay, of not less than 90 percent pure nickel, on all surfaces contacting the plug face. Make the overlay a minimum of 1/16-inch thick. Provide zinc plated bonnet bolts, studs and nuts on exposed valves and stainless steel buried valves.

Make the water-tightness of the valve seating adjustable. Provide a seating adjustment device that is external to the valve and that can be used without the need to remove the valve from the piping and with the valve under pressure.

Furnish plug valves with oil impregnated, permanently lubricated, Type 316 stainless steel bearings in the upper and lower journals.

Provide a stem seal consisting of multiple, self-adjusting and replaceable chevron type packing rings and a packing gland. Make the stem seal adjustable and replaceable without removing the valve from the piping and without the need to disassemble the valve and operator. For buried or submerged service, provide a sealed enclosure to keep the stem seal clean.

Unless otherwise specified, construct the valve with a minimum port area of 80 percent of the full area of the pipe in which the valve is installed.

Equip plug valves, except for buried or submerged service, with external visible indication of the plug position.

Unless otherwise shown or specified, equip valves with quarter-turn gear operators. Furnish one wrench for each size valve in each individual room or space in which valves are located. All geared operators to have bronze bearing located above and below the worm gear, as well as grease seals.

Unless otherwise shown or specified, for eccentric plug valves installed in horizontal piping, orient the valve such that when the shaft is in the horizontal position the seat is in the downstream position, and when the valve is in the open position, the plug is up. Unless otherwise shown or specified, for eccentric plug valves installed in vertical piping, orient the valve with the plug up when the valve is in the closed position.

C. SOURCE QUALITY CONTROL

Perform a bi-directional seat leakage shop test on each eccentric plug valve in accordance with Section 5 of AWWA C517. Demonstrate that there is no leakage past the plug.

Give each eccentric plug valve hydrostatic shop pressure tests in accordance with Section 5 of AWWA C517. Demonstrate with the hydrostatic tests that the valve is structurally sound and that there are no leaks through the external surfaces of the valve.

7-7.03 SINGLE DISC SWING CHECK VALVES

A. SCOPE AND INTENT

Provide single disc swing check valves designed to allow a full diameter passage and to operate with a minimum loss of pressure.

B. MATERIALS AND CONSTRUCTION

Provide 1/8- through 3-inch check valves that meet the requirements of MSS SP-80. Except as specified herein, provide 4-inch through 24-inch check valves that meet the requirements of AWWA C508.

112014

SSFM 33

Equip check valves with cast or ductile iron body; bronze or stainless steel renewable seat rings; bronze, cast or ductile iron disc with replaceable bronze or rubber disc rings; bronze disc hinge bushings; and stainless steel hinge pins. Carefully mount discs and provide discs that swivel in disc hinges. Provide pins, discs and other parts that are non-corrosive, non-sticking, and properly cured to operate satisfactorily within a temperature range of 34 to 100 degrees Fahrenheit and with the fluid specified.

Check valves shall be of the lifting arm type. Screw type check valves will not be allowed. Equip 6-inch and larger check valves with outside levers and weights.

7-8 PAYMENT

This work shall be paid for at the contract unit price per each for the type of valve specified at the diameter specified, complete with the valve vault (if specified), which payment shall include full compensation for furnishing labor, materials, and equipment, complete, in-place, and accepted, and for all materials necessary to complete the work as shown on the plans and specified above.

PREVAILING WAGES

Will County Prevailing Wage Rates posted on 9/16/2024

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Trade Title	Rg	Type	ပ	Base	Foreman	Ā.	Sa	Su	면	M/H	Pension	Vac	Trng	Other Ins	Add OT 1.5x owed	Add OT 2.0x owed
ASBESTOS ABT-GEN	₹	ALL		50.15	51.15	1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
ASBESTOS ABT-MEC	₹.	BLD		41.27	44.57	1.5	5.	2.0	2.0	15.84	16.02	0.00	0.90		3.11	6.21
BOILERMAKER	.₹	BLD		55.76	60.77	2.0	2.0	2.0	2.0	6.97	26.44	0.00	3.34	1.95	0.00	38.26
BRICK MASON	₹	BLD		52.06	57.27	1.5	1.5	2.0	2.0	12.70	24.54	0.00	1.24	0.00	3.99	7.98
CARPENTER	₹	ALL		55.11	60.62	2.0	2.0	2.0	2.0	12.89	30.48	0.70	0.93	0.00	0.00	0.00
CEMENT MASON	¥	ALL		47.70	49.70	2.0	1.5	2.0	2.0	12.70	32.80	0.00	0.80	00.00	0.00	0.00
CERAMIC TILE FINISHER	₹	BLD		47.09	47.09	1.5	1.5	2.0	2.0	13.00	16.82	0.00	1.09	0.00	5.17	10.34
CERAMIC TILE LAYER	₹	BLD		54.84	59.84	1.5	1.5	2.0	2.0	13.00	20.68	0.00	1.17	0.00	7.15	14.30
COMMUNICATION	₹	BLD		44.00	48.40	1.5	1.5	2.0	2.0	17.19	17.60	0.00	0.75	2.37	0.00	0.00
ELECTRIC PWR EQMT OP	₹	, ALL		62.10	68.14	1.5	1.5	2.0	2.0	13.08	20.88	0.00	3.32	0.00	18.64	37.28
ELECTRIC PWR GRNDMAN	₹	ALL		48.44	68.14	1.5	1.5	2.0	2.0	10.20	16.29	0.00	2.60	0.00	14.55	29.09
ELECTRIC PWR LINEMAN	¥	ALL		62.10	68.14	1.5	1.5	2.0	2.0	13.08	20.88	0.00	3.32	0.00	18.64	37.28
ELECTRICIAN	W	BLD		54.00	58.86	1.5	1.5	2.0	2.0	17.74	22.27	0.00	1.35	5.00	0.00	0.00
ELEVATOR CONSTRUCTOR	₹	BLD		67.84	76.32	2.0	2.0	2.0	2.0	16.18	20.96	5.45	0.75		0.00	0.00
GLAZIER	₩	BLD		51.55	53.05	1.5	2.0	2.0	2.0	15.64	26.18	0.00	2.27	0.00	0.00	0.00
HEAT/FROST INSULATOR	E E	BLD		55.02	58.32	1.5	7:	2.0	2.0	15.84	19.01	0.00	0.90		4.60	9.20
IRON WORKER	Ā	ALL.		50.50	55.55	2.0	2.0	2.0	2.0	14.06	30.21	0.00	1.00		0.00	0.00
LABORER	₹	ALL		50.15	50.90	1.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
LATHER	F	ALL		55.11	60.62	2.0	2.0	2.0	2.0	12.89	30.48	0.70	0.93	0.00	0.00	0.00
MACHINIST	Ā	BLD		58.39	62.39	1.5	7:	2.0	2.0	9.93	8.95	1.85	1.47		0.00	0.00
MARBLE FINISHER	H	ALL		39.50	53.55	7.5	7:	2.0	2.0	12.70	22.32	0.00	0.73	0.00	2.88	5.76
MARBLE SETTER	, A	BLD	ANY MARKET	51.00	56.10	7:	1.5	2.0	2.0	12.70	24.01	0.00	0.92	0.00	3.73	7.45
MATERIAL TESTER I	Ā	, ALL		40.15		1.5	7.	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
MATERIALS TESTER II	¥	, ALL		45.15		7.5	1.5	2.0	2.0	17.71	16.92	0.00	0.91		0.00	0.00
MILLWRIGHT	Ā	ALL		55.11	60.62	2.0	2.0	2.0	2.0	12.89	30.48	0.70	0.93	0.00	0.00	00.00
OPERATING ENGINEER	₹	BLD	-	60.80	64.80	2.0	2.0	2.0	2.0	23.70	20.80	2.00	2.70	0.00	0.00	0.00

00'0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.98	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.99	000
0.00	0.00	00.00	00.00	00.00	0.00	00.00	0.00	00.0	0.00	0.00	0.00	00.0	0.00	00.0	00.0	0.00	00.0	0.00	00.0	00.00	0.00	00.00			0.00	2.62	0.00	0.00	
2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	1.86	00.00	0.93	3.12	1.15	1.83	1.11	1.59	1.10	1.24	1 10
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	20.80	16.19	16.81	30.48	22.85	21.22	17.74	16.44	19.43	19.30	24.54	14 15
23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	23.70	15.76	8.20	12.89	13.65	17.81	17.75	11.83	15.01	14.95	12.70	17.75
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0 0
2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0 0
2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	7.
2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	7.
64.80	64.80	64.80	64.80	64.80	64.80	69.35	69.35	69.35	69.35	69.35	69.35	63.00	63.00	63.00	63.00	63.00	63.00	63.00	59.68	51.09	60.62	60.00	53.00	62.05	55.25	60.86	62.85	57.27	57.50
59.50	56.95	55.20	64.55	61.80	63.80	69.35	67.85	63.35	58.85	70.85	58.85	59.00	58.45	56.40	55.00	53.80	62.00	00.09	53.05	45.49	55.11	57.00	50.00	58.55	50.25	56.35	60.10	52.06	56.50
7	က	4	ιΩ	9	7	_	2	က	4	2	9	-	2	က	4	5	9	7											
BLD	BLD	BLD	BLD	BLD	BLD	FLT	FLT	FLT	FLT	FLT	FLT	HWY	HWY	HW	HWY	HWY	HWY	HWY	ALL	BLD	ALL	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD
₩	¥	₹	A	¥	¥	Ā	A	A	Ā	All	Α	A	AII	All	All	All	All	All	Ail	All	All	All	All	All	All	W	All	All	ΠΔ
OPERATING ENGINEER	PAINTER	PAINTER - SIGNS	PILEDRIVER	PIPEFITTER	PLASTERER	PLUMBER	ROOFER	SHEETMETAL WORKER	SPRINKLER FITTER	STONE MASON	SURVEY WORKER																		

SURVEY WORKER	=	All HWY		56.50	57.50	5.	1.5	2.0	2.0	17.75	14.15	00.0	1.49		00.00	0.00
TERRAZZO FINISHER	₩ W	BLD		48.94	48.94	1.5	1.5	2.0	2.0	13.00	18.42	00.00	1.11	0.00	4.22	8.44
TERRAZZO MECHANIC	= A	BLD		52.85	56.35	1.5	1.5	2.0	2.0	13.00	19.81	00.0	1.15	0.00	4.47	8.94
TRAFFIC SAFETY WORKER I	II V	HWY		42.10	43.70	1.5	1.5	2.0	2.0	11.11	9.81	00.0	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	4LL	ALL HWY		43.10	44.70	1.5	5.	2.0	2.0	11.11	9.81	00.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	All	ALL	_	45.10		1.5	1.5	2.0	2.0	11.65	13.76	00.0	0.25	0.00	0.00	0.00
TRUCK DRIVER	All ALL	ALL	7	45.25		1.5	7.5	2.0	2.0	11.65	13.76	00.0	0.25	0.00	00.00	0.00
TRUCK DRIVER	■	ALL	က	45.45		1.5	1.5	2.0	2.0	11.65	13.76	0.00	0.25	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	4	45.65		5.5	5:	2.0	2.0	11.65	13.76	0.00	0.25	0.00	0.00	0.00
TUCKPOINTER	= A	BLD		51.53	52.53	7:5	7.	2.0	2.0	10.05	22.66	0.00	1.15	00.00	0.00	0.00

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 WILL COUNTY

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

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including

and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold 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

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS TECHNICIAN

production and reproduction, telephone and telephone interconnect, facsimile, equipment and appliances used for domestic, commercial, educational and entertainment purposes, pulling of wire through conduit but not the installation of conduit. Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice, sound and vision

MARBLE FINISHER

interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for

tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-Heavy Duty Self-Propelled Transporter or Prime Mover, Highlift Shovels or Front Endloader 2-1/4 yd. and over, Hoists, Elevators, (Truck Mounted); Concrete Tower, Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor, Hydraulic Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under: Concrete Placer; Concrete Placing Boom; Concrete Pump Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching

Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches. (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu., ft.; Concrete Placer; Concrete Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard ube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking frenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Wheel Excavator; Widener (APSCO).

Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compactor, etc.; Tug Boats.

Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven. Class 4. Air Compressor, Combination - Small Equipment Operator, Directional Boring Machine; Generators, Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a otal of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties job duties as the classification entitled "Material Tester/Inspector II".

SPECIAL PROVISIONS

TABLE OF CONTENTS

GENERAL
SCOPE OF WORK
COMPLETION SCHEDULE
FUNDING LIMITS
PREQUALIFICATION
WAGE RATES
INSURANCE REQUIREMENTS
PARTIAL PAYMENTS
JOINT VENTURES, CONTRACTORS, AND SUBCONTRACTORS
GUARANTEE
WORK HOURS
NOTIFICATION REQUIREMENTS
TRAFFIC CONTROL
WATER USE4
WORK IN CONFINED SPACES
MANHOLE ACCESS4
PROJECT PROGRESS COMMUNICATION4
RAILROAD RIGHT-OF-WAY ENTRY PERMIT
RAILROAD PROTECTIVE LIABILITY INSURANCE
RAILROAD FLAGGER
SEWER FLOW CONTROL
SANITARY SEWER TO BE CLEANED
HEAVY CLEANING OF SEWER
TELEVISING SANITARY SEWERS
EQUIPMENT RETRIEVAL
PROPERTY RESTORATION 15

CITY OF CREST HILL 2024 SANITARY SEWER TELEVISING PROJECT SPECIAL PROVISIONS

GENERAL

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022; the latest editions of the "Supplemental Specifications and Interim Special Provisions" and the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" and the "Manual of Test Procedures for Materials" in effect on the date of the invitation for bids; the "Supplemental Specifications and Recurring Special Provisions", the "Standard Specifications for Water and Sewer Main Construction in Illinois", latest edition; the Division I General Requirements and Covenants and the Division II Technical Specifications which apply to and govern the proposed improvement, and in case of conflict with any part, or parts of said specifications, the said Special Provisions shall take precedence and shall govern.

However, in all cases, the Division I General Requirements and Covenants of the specifications shall take precedence over the Division 100 General Requirements and Covenants of the Standard Specifications for Road and Bridge Construction and shall govern.

SCOPE OF WORK

This project consists of the internal television inspection of sanitary sewers, sewer cleaning, and lawful removal and disposal of accumulated and recovered materials, all in the City of Crest Hill, Illinois (Owner).

The Contractor shall be responsible to sufficiently familiarize themself with the local conditions prior to bidding the project. It is hereby understood and agreed that the contract unit prices shall prevail throughout the contract, and that adjustments to unit prices will <u>not</u> be allowed for any increase or decrease to the contract quantities or due to varying levels of cleaning which may be required.

COMPLETION SCHEDULE

It is anticipated that the contract will be awarded in December 2024. All work contained within this contract, including restoration of surface areas disturbed by the Contractor, if any, shall be completed within 120 calendar days from the date of the contract award.

It is the Contractor's responsibility to ensure that the contract documents and insurance requirements are met in a timely manner as no work will be allowed until this information is received and correct. No adjustment to completion date will be made if this requirement is not met.

Failure to complete the work on time may result in assessment of liquidated damages in accordance with Section 8-9, "FAILURE TO COMPLETE THE WORK ON TIME" of the General Requirements & Covenants of this contract.

FUNDING LIMITS

The quantities called for in this contract indicate the amount of work to be expected. The actual amounts for the various items may vary depending upon actual field conditions. The Owner reserves the right to reduce or increase the scope of project quantities and to delete entire line

items. It shall be understood and agreed upon that the unit prices for these items shall prevail throughout the period of the contract and that no additional compensation per unit price or otherwise will be allowed for any increase or decrease in the quantities, including but not limited to, decreases due to the deletion of an entire location/section of the improvement. No increases in unit price will be allowed if method of construction changes due to a decrease in quantity.

Under no circumstances can the awarded dollar amount be exceeded during the project without written authorization from the Owner. The Contractor is responsible for tracking quantities to ensure this does not happen.

PREQUALIFICATION

The Contractor shall have sufficient experience, as determined by the Owner and their representatives, in the field of sewer cleaning and televising to warrant release of the bid documents. The Contractor shall provide such documentation as is deemed necessary upon request that would demonstrate the Contactor has completed at least five sewer cleaning and televising projects for a municipality or sanitary district over the past three years with a minimum contract dollar value of \$100,000. The Contractor must use National Association of Sewer Services Companies (NASSCO) Pipeline Assessment and Certification Program (PACP) certified operators for the televising of the sewer on this project and must supply the NASSCO certification numbers for the operators on the job.

WAGE RATES

This contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seg. (the Act"). The Act requires Contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor's website.

All Contractors and subcontractors rendering services under this Contractor must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping duties.

INSURANCE REQUIREMENTS

The Insurance Requirements can be found in Section 7 of the General Requirements "Legal Relations and Responsibility to the Public". The Contractor and any Subcontractors shall obtain and thereafter keep in force for the term of the Contract the insurance coverage specified in this section. The Contractor shall not commence work under the Contract until all the insurance required by this section or any Special Provision has been obtained.

Section 7.02E Pollution Liability **WILL** be required as part of this project. Section 7.02F Professional Liability **WILL NOT** be required as part of this project.

PARTIAL PAYMENTS

Division 1 GENERAL REQUIREMENTS AND COVENANTS Section 9-6 PARTIAL PAYMENTS shall be modified as follows: Once each month, the Contractor will make an approximate estimate, in writing, of the materials in place complete, the amount of Work performed, and the value thereof, at the contract unit prices. From the amount so determined of completed work there shall be an amount retained until after the completion of the entire work to the satisfaction of the Owner,

and the balance certified to the Owner for payment. The amount retained will be in accordance with 30ILCS 550/1.

JOINT VENTURES, CONTRACTORS, AND SUBCONTRACTORS

No joint venture shall be permitted on this project. The Contractor shall be required to perform the majority, or more than fifty percent (50%) of the dollar value, of the contract with his own resources (labor, equipment, materials, accessories, tools, transportation, services, technical competence, etc.). The Contractor may subcontract a minority part of the work.

GUARANTEE

All workmanship, materials and equipment shall be guaranteed for a period of one (1) year from the date of written acceptance by the Owner. Upon receipt of notice from the Owner of failure of any part of the system during the guarantee period, new replacement parts shall be furnished and installed by the Contractor at no additional cost to the Owner.

WORK HOURS

The Contractor may prosecute work between the hours of 7:00 a.m. and 6:00 p.m., Monday through Friday and Saturdays between the hours of 8:00 a.m. and 6:00 p.m. No work will be permitted between the hours of 6:00 p.m. and 7:00 a.m., on Sundays, or on holidays, without prior written permission of the Owner.

NOTIFICATION REQUIREMENTS

The Contractor shall provide two (2) business days of advanced written notice to: 1.) the City of Crest Hill and the Engineer prior to the start of the work 2.) those properties with connections to the sewer sections to be televised within the forthcoming workday via door hangers, and 3.) any other properties that may potentially be adversely affected by the televising operations via door hangers. The notification shall be of a form and method as approved by the City of Crest Hill and the Engineer.

TRAFFIC CONTROL

Traffic Control shall be in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, these special provisions and any special details and Highway Standards contained herein and, in the plans, and specifications and the Standard Specifications for Traffic Control Items.

Special attention is called to §107.09 and §107.14 of the Standard Specifications for Road and Bridge Construction and the Highway Standards: 701001-02, 701006-05, 701011-04, 701101-05, 701301-04, 701501-06, 701606-10, 701801-06, 701901-10.

The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other traffic control devices as may be necessary for the purpose of regulating, warning, or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Section 107.14 of the Standard Specifications and the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways.

Traffic Control and Protection will not be compensated for separately, instead, all traffic control work required by the Standard Specifications shall be considered included in the cost of various contract pay items.

WATER USE

The Contractor desiring to use water from municipal hydrants will be required to make an application to the Owner and, if the request is granted, shall conform with the ordinances of the municipality, as well as with the rules and regulations of the Water Department, and will be held responsible for all damages to hydrants and water pipes used for the purposes of securing water. Pipe wrenches approved by the Water Department shall be utilized for opening and closing hydrants and other appurtenances.

When additional water from fire hydrants is necessary to avoid delay in normal work procedures, the water shall be conserved and not used unnecessarily. No fire hydrant shall be obstructed in case of a fire in the area served by the hydrant.

The Owner wishes to keep accurate records of the amount of water used for the construction purposes. The Contractor shall use an approved water meter to record usage and shall report the total water used to the City of Crest Hill Public Works Director at the end of each working day. The Contractor will not be responsible for the cost of the water used.

WORK IN CONFINED SPACES

The Contractor's attention is directed to the nature of the working environment for most of the work required in this contract. Working in confined spaces, such as manholes, is inherently dangerous and must be done only with certain equipment, procedures, and precautions. Properly functioning equipment, including but not necessarily limited to a ventilator of adequate capacity, gas detectors, respiratory masks, winch, harness etc. and support personnel on the ground for the worker(s) in the manhole may be necessary at each work site.

This contract's means and methods for performing the required work, including safety provisions, are and remain the Contractor's responsibility. The Owner and the Engineer have neither any responsibility to monitor and/or inspect the Contractor's means and methods, including the safety equipment and/or practices, for performing the work required in this contract nor shall they assume any responsibility and/or liability whatsoever resulting from the Contractor's means and methods during this contract.

The cost of compliance with this requirement shall not be compensated for separately but shall be considered included in the cost of various contract pay items.

MANHOLE ACCESS

The Contractor shall be solely responsible for accessing the facilities. The Owner will assist in locating all facilities but shall not be responsible for providing additional access to the facilities, other than identifying roadways and easements to access the project site.

PROJECT PROGRESS COMMUNICATION

Communication with the Owner and the Engineer is imperative to the success of the project. The following written and verbal communications are required as part of the contract:

 Each Monday by noon during the project, the Contractor shall send an email to the Owner and the Engineer with an excel spreadsheet delineating the work completed for the previous week and the work plan for the current week. Contractor is to contact the Owner's representative anytime their schedule changes that inhibits them from working as per the schedule.

RAILROAD RIGHT-OF-WAY ENTRY PERMIT

A. Description: The contractor shall be responsible for entering into an agreement with Canadian National Railway (CNR) Company for proposed work within the railroad right-of-way. All costs associated with the CNR Company Right of Entry Agreement (copy enclosed) including but not limited to the formulation, execution and filing of the Right of Entry agreement shall be the responsibility of the contractor.

All coordination with the railroad shall be the responsibility of the Contractor. Enclosed, for the Contractor's convenience, is a copy of CNR's ROE Agreement Information form. Please start work on the Railroad permit, insurance, and any necessary safety training within one week after the contract award date to ensure the permit is approved at the time inspection activities will commence. For railroad flagging, see the special provision below.

B. Measurement and Payment: Any and all costs associated with the Canadian National Railway Right-of-Entry (ROE) Agreement including but not limited to formulation, execution and filing of the Right-of-Entry agreement, application fee, adhering to their Insurance requirements, safety training, etc. shall be the responsibility of the Contractor, which shall be paid for at the contract unit price per EACH for RAILROAD RIGHT-OF-WAY ENTRY PERMIT.

RAILROAD PROTECTIVE LIABILITY INSURANCE

- **A. Description**: The Contractor shall be responsible for providing the necessary railroad protective liability insurance required by CNR as detailed in the Right of Entry Information included in this Contract or as otherwise specified by CNR.
- **C. Measurement and Payment:** All costs associated with the Canadian National Insurance requirements shall be the responsibility of the Contractor, which shall be included in the cost of the RAILROAD PROTECTIVE LIABILITY INSURANCE pay item.

RAILROAD FLAGGER

A. Description: This work shall be performed in accordance with Sections 107.12 and 109.05 of the Standard Specifications.

The flagging costs incurred for the work associated at the locations of Oakland Avenue and Canadian National Railway property will be reimbursed by the City of Crest Hill in accordance with Section 109.05 of the Standard Specifications. The Contractor is responsible for coordinating and pre-payment for flagging services, if necessary, per the requirements by Canadian National Railway and as outlined in the Right of Entry (ROE) License Agreement. The number of days flagging is needed shall be kept to a minimum and the Owner/Engineer should review and approve the scheduling for flagging services in advance. The Contractor will be reimbursed by the Owner for the actual number of flagging days used. The Contractor is required to conduct operations at all times in full compliance with the rules, regulations and requirements of Canadian National Railway.

The Contractor shall give thirty (30) days advance written notice to the Engineering Superintendent of the Railroad or their authorized representative prior to commencement of any construction work on the improvement affecting the railroad property. The Contractor shall notify

the Railroad sufficiently in advance of when the protective services are required. The Contractor shall make every effort to notify the Railroad in advance if a previously requested flagger will not be needed for any reason.

Any costs for flagging protection provided by the Railroad at the Contractor's request for those days when the Contractor does not work shall be borne by the Contractor.

B. Measurement and Payment: An allowance for Flaggers will be made on this project. This work shall be paid for at the contract unit price per DOLLARS for RAILROAD FLAGGER, which the Contractor shall enter as \$10,000. The need for flaggers in the railroad's property will be at the direction of Canadian National Railway. No additional compensation will be granted for downtime when the flaggers are not present when requested.

SEWER FLOW CONTROL

The Contractor shall be responsible for maintaining sewer flow necessary for the continuation of sewer service during construction and/or inspection.

During sewer cleaning operations, the flows shall be reduced to a maximum of twenty five percent (25%) of the pipe diameter by manual operation of pump stations, plugging/blocking of the flows or by pumping/bypassing of the flows, as specified.

Any sewer plugs utilized during bypass pumping shall be designed so that all or any portion of the sewage flow can be released. During the cleaning, inspection or repair portion of the operation, flows shall be controlled as described above. After these tasks have been completed, flows shall be restored to normal.

The Contractor shall not backup or flood existing services or buildings. This may require that the Contractor provide bypass pumping capabilities. Any bypass pumping that may be required will be considered included in the contract. Whenever flows in a sewer line are blocked, plugged, or bypassed, sufficient precautions must be taken to protect the sewer lines from damage that might be inflicted by excessive sewer surcharging. The Contractor shall be solely responsible and liable for any property damages resulting from the work.

When pumping/bypassing is required, the Contractor shall supply the necessary pumps, conduits and other equipment to divert the flow of sewage around the sewer section in which work is to be performed. The bypass system shall be of sufficient capacity to handle existing flows plus additional flow that may occur during periods of a rain event. The Contractor will be responsible for furnishing the necessary labor and supervision to set up and operate the pumping and bypassing of the flow. If pumping is required on a twenty-four (24) hour basis, all engines shall be equipped in a manner to keep the pump noise at a minimum.

The cost of compliance with this requirement shall not be compensated for separately but shall be considered included in the cost of various contract pay items.

SANITARY SEWER TO BE CLEANED

A. Description: While this item of work consists of the cleaning of sewers and adjacent structures, i.e., manhole cleaning with high-velocity hydro-cleaning equipment, it is not expected that there will be much Sanitary Sewer to be Cleaned on this project. Place holder quantities have been included, should the need arise to clean a few segments of sewer. **The intent of this project**

is to televise to assess pipeline condition and to locate areas that may need subsequent cleaning.

Cleaning shall be performed on the entire sewer section starting at and including the upstream structure and continuing to and including the downstream structure. If cleaning of an entire section cannot be successfully performed from the downstream equipment set-up location, the Contractor shall set-up the cleaning equipment on the upstream structure and continue cleaning.

When, in the opinion of the Owner or the Engineer, hydro-cleaning equipment cannot satisfactorily clean or remove obstructions in the pipe, such as root penetrations, mineral deposits, heavy debris, etc., the Contractor shall utilize the appropriate mechanical cleaning equipment and continue operations to remove the obstructions.

If any debris remains on the benches, walls or inverts of any structures after cleaning has been completed, the Contractor shall be required to re-clean the structures and the adjacent downstream sections of sewer at no additional cost to the Owner.

It is recognized that there are some conditions, such as badly broken, collapsed, or eroded pipe, or major blockages, that may prevent cleaning from being accomplished or where additional sewer line damage would be done if cleaning is attempted or continued. Should conditions of this nature be encountered, the Contractor shall notify the Owner or the Engineer immediately. The Owner or the Engineer shall then determine an alternative cleaning method or choose not to clean that specific sewer section.

- **B.** Cleaning Precautions: During sewer cleaning operations, satisfactory precautions shall be taken to ensure that the water pressure created does not damage or cause flooding of public or private property being served by the sewer. When possible, the flow of sewage in the sewer shall be utilized to provide the necessary pressure for hydraulic cleaning devices. If heavy-cleaning equipment is approved by the Owner or Engineer for use, extreme care shall be taken to ensure that the existing sewer is not damaged during the operations.
- **C. Debris Removal and Disposal:** All sludge, dirt, sand, rocks, grease, roots, corroded or broken pipe pieces, concrete, asphalt, bricks, or any other material resulting from the cleaning operation shall be removed at the downstream structure of the section being cleaned by a "Vactor" or similar type of vacuum truck. Debris catching baskets shall also be required during any operation in which debris may pass from one sewer segment to an adjacent sewer segment. Passing material from structure section to structure section shall not be permitted.

All materials and debris collected during the cleaning operations shall be removed from the site and disposed of at the end of each workday. Under no circumstances will the Contractor be allowed to accumulate debris on the site of work. The Owner will provide an accessible staging area within the municipality's limits for the temporary placement of a debris box.

It is the sole responsibility of the Contractor to properly dispose of all collected sewer debris daily. This work shall be done at the Contractor's own expense and considered included in the cost of various contract pay items. All requirements of the Illinois Environmental Protection Agency and all other regulating agencies shall be followed. The Contractor shall be required to provide all necessary documentation for the proper and lawful disposal of debris. The Owner shall not be responsible for the disposal of the debris.

D. Cleaning Equipment: The Contractor shall provide all equipment necessary to meet the intent of the specification, including, but not limited to, high velocity water-jetting equipment, vacuum machines, hydraulically propelled equipment, or mechanically powered equipment. Cleaning equipment capable of cleaning lengths up to one thousand feet (1000') shall be provided. Equipment must be able to clean this length with vehicular access to only one structure. Whatever equipment is used, any necessary pulleys and/or supports shall be installed in structures so as not to restrict the cleaning operation or damage existing structures.

High-Velocity Hydro-Cleaning Equipment:

All high-velocity sewer cleaning equipment shall be constructed for ease and safety of operation. The equipment shall have a selection of two (2) or more high-velocity nozzles. The nozzles shall be capable of producing a scouring action from 15 degrees to 45 degrees in all size lines designated to be cleaned. Equipment shall also include a high velocity gun for washing and scouring structure walls and bench. The high velocity gun for washing manholes shall be capable of producing flows from a fine spray to a long-distance solid stream. The equipment shall carry its own water tank, auxiliary engines, pumps, and hydraulically driven hose reel. All controls shall be located so that the equipment is operated above ground.

Hydraulic Cleaning Equipment:

The equipment used shall be of the movable dam type and be constructed such that a portion of the dam may be collapsed at any time during the cleaning operation to protect against flooding of the upstream sewer lines. The movable dam shall be of an external diameter equal to the internal diameter of the sewer being cleaned and shall be provided with a flexible scraper around the outer periphery to ensure total grease removal. If sewer cleaning balls, or other such equipment, which cannot be collapsed instantly are used, precautions against flooding of upstream sewers (public or private) shall be taken.

Mechanical Cleaning Equipment:

Bucket machines shall be in pairs with sufficient power to perform the work in an efficient manner. Machines shall be belt operated or have an overload device. Machines with direct drive that could cause damage to the pipe will not be allowed. Where bucket machines and buckets are to be used, caution should be taken that a properly sized flexible cable be used so that breakage will not occur when hanging the cleaning equipment within the sewer.

A power rodding machine shall be of the continuous type capable of holding a minimum of one thousand feet (1000') of rod without joints, couplings, fittings or connectors. The rodding equipment shall be provided with a minimum rated 25 Hp motor drive unit. The rod shall be 4.0-gauge specifically treated steel. To ensure safe operations, the machine shall have a fully enclosed body and an automatic safety throw-out clutch or relief valve. The rodding unit shall be able to pull brushes, swabs, and other cleaning equipment as well as the television camera. It shall also have a footage meter attached so that the location of the cleaning tools and/or television camera will be known at all times.

Lumberjacks and impact & drill cutters are multipurpose cutters running off water pressure designed to cut roots and used to remove grease, mineral deposits and protruding laterals. Since lumberjacks can rotate at up to 50,000 rpm, extreme caution is required to ensure that the existing sewer pipes are not damaged while utilizing this type of equipment.

Impact & drill cutters typically rotate at about 200 rpm with impacts of up to 1000 blows per minute. Three modes for impact & drill cutter types usually include impact and drill simultaneously, impact only and drill only. Extreme caution is required to ensure that the existing sewer pipes are not damaged while utilizing this type of equipment.

- **E.** Acceptance of Sewer Cleaning: Acceptance of sewer line cleaning shall be made upon the successful completion of the televising inspection and shall be to the industry standard of 95% clean. If the televising inspection shows the cleaning to be unsatisfactory, the Contractor shall be required to re-clean and re-inspect the sewer line until the cleaning is shown to be satisfactory, at no additional cost to the Owner.
- **F. Measurement and Payment:** The cost of this work, regardless of the number of set-ups, passes, or types of cleaning equipment used, including structure cleaning and heavy cleaning, shall be paid for at the contract unit price bid per HOUR for SANITARY SEWER TO BE CLEANED [DIAMETER].

HEAVY CLEANING OF SEWER

It is not expected that Heavy Cleaning of Sewer will be needed on this project. The intent of this project is to televise to assess pipeline condition and to locate areas that may need subsequent cleaning. Heavy Cleaning shall be deemed necessary, when in the opinion of the Engineer, continued use of high velocity hydro-cleaning does not meet the industry standard of 95% clean and cannot be satisfactorily utilized due to obstructions present in the sewer, i.e., heavy root penetrations, mineral deposits, built up debris in the line, etc.; that would prevent optimal viewing of the pipeline.

The Contractor shall then select such appropriate heavy cleaning equipment as listed under "Mechanical Cleaning Equipment" that would be capable of removing all dirt, grease, rocks, roots, mineral deposits, internal deposits, and other deleterious materials from the sewer line while preventing damage to that line.

It shall be understood that the cost for heavy cleaning, if necessary, shall be included in the SANITARY SEWER TO BE CLEANED, [DIAMETER], pay item and that no additional compensation shall be allowed.

TELEVISING SANITARY SEWERS

A. Description: The Contractor shall furnish the mobile television inspection studio, all television and other necessary types of equipment, and all materials, electricity, labor, technicians, etc., as may be needed to perform the closed-circuit television inspection of the sewers as shown on the plans or as directed by the Owner or the Engineer. This work does not include sanitary sewer cleaning in preparation for televising but is designated for segments selected for televising of sanitary sewers only.

The television inspection shall be performed in one section of sewer at a time between adjacent structures. The inspection shall be performed by pulling the television camera or crawling through the section of the sewer along the axis of the pipe. The inspection may be performed in a forward or backward direction as dictated by the sewer line conditions at the time of the inspection.

The television inspection shall be conducted in such manner that the television control technician or supervisor, and the Owner or the Engineer, can determine if the sewer line needs cleaning, so

that all leaking joints, pipe breaks, line sags or dips, service lines, roots, etc. can be accurately seen and located within and along the sewer line.

The operation of the television equipment shall be controlled by a skilled certified technician or supervisor who shall be located at the control panel in the mobile television inspection studio. The operator must be certified by NASSCO for PACP. The control of the television equipment may be accomplished by means of remote-control winches or by telephone or other suitable means of communications between the television control technician or supervisor in the mobile television inspection studio and the technicians operating the winches at either end of the sewer section being inspected.

The television control technician in the mobile television inspection studio shall always be able to move the television camera through the sewer in either direction without loss of quality in the video presentation on the television monitor. The television image on the monitor shall, always, be free of electrical interference and shall provide a clear, stable image and picture. If for any reason the television inspection image becomes unclear, out of focus, too dark or too light to see the condition of the sewer being televised, the Contractor will be directed to re-televise that section of sewer at no additional cost. When directed to do so by the Owner or the Engineer, or television control technician, the television camera shall be stopped and/or backed up as required so either can view, analyze, and photograph when so desired any features or conditions that appear unusual or uncommon in a good sound sewer.

The travel speed of the television camera through the sewer shall be uniform and shall not exceed the maximum speed of 30 feet per minute, under normal conditions. Any means of propelling the camera through the sewer which produces non-uniform rates of speed, or which results in a speed faster than that specified by the Owner, or the Engineer will not be acceptable.

The television control technician shall be able to adjust the brightness of the lighting system built into the television camera and be able to change the focus of the television camera by remote control. The television image shall continuously be recorded with proper lighting. Services or sections of sewer that appear too dark or too light to see the condition of the sewer or the connected service shall be re-televised at no additional cost.

Television inspection of the sewer is required to start from the center of the manhole whether it is upstream or downstream and shall finish at the center of the manhole at the other end of the sewer section being televised. No preset measurements or starting the camera inside the pipe any distance will be allowed. This means that from the center of the manhole when the camera starts moving the footage counter shall be set at zero and increase accurately through the sewer pipe being televised. Every service connection shall be viewed to confirm whether it is active or capped.

Measurement of the exact location of any sewer line defects (i.e., breaks, sags, leaks, etc.) shall be at the ground level by means of a metering device. Markings on a cable, or the like, which would require interpolation for the structure depth, will not be allowed. Measurement meters shall be accurate to two-tenths of a foot (0.20'). A measuring target in front of the television camera shall be used as an exact measurement reference point, and the meter reading shall show the exact location of this measurement reference point.

Where obstructions within the sewer line prevent the passage of televising equipment, the Contractor shall reset his equipment to pass through the sewer line section from the other end and thereby complete the inspection of the section.

B. Televising Equipment: The television camera used for the sewer line inspection shall be one specifically designed and constructed for such inspection work. Lighting for the camera shall be adequate and suitable, and adjustable to allow a clear picture of the entire periphery of the pipe. The camera shall be capable of rotating three hundred and sixty (360) degrees about its axis. The camera shall be waterproof and shall be operative in 100 percent humidity conditions.

The camera shall be small enough to pass through and clearly televise the interior of a six-inch (6") diameter sewer and all other larger sewer sizes up to and including the largest diameter sewer as bid on this project. The camera focal length or distance shall be adjustable through a range of six inches (6") to infinity. The television camera shall be capable of transmitting a picture having not less than 600 lines of resolution and in color. The picture shall be free at all times of electrical interference and shall provide a clear stable image having the number of lines of resolution specified.

To ensure optimum or peak picture quality throughout all conditions that may be encountered during the sewer inspection work, the variable intensity control of the camera lighting and the adjustments for focal length and iris control shall be under the direct control of the television control technician at the central control panel in the television inspection studio. The camera speed and direction of movement shall also be controlled by the television control technician in the television inspection studio.

The view seen by the television camera shall be transmitted to a monitor of not less than twelve inches (12") diagonally in size. The television monitor shall be located inside the mobile television studio. The monitor character generator shall be capable of creating the precise numeric manhole identification number with no truncation allowed regardless of the number of digits that make up the manhole identification number.

The mobile television studio shall be large enough to accommodate up to four people for the purpose of viewing the monitor while the inspection is in progress. The Owner or Engineer shall have access to view the television screen at all times.

The video recording equipment shall be the type on which both audio and video information can be recorded. This equipment shall be continuously connected to the television inspection or monitoring equipment in such a manner that it can easily be turned on or off as the Owner or the Engineer determines that a video or audio recording is or is not needed.

The video recording and monitoring equipment shall have the built-in capability to allow the Owner or the Engineer, or television control technician, to instantly review both the audio and video quality of the video productions during the television survey. Playback speed shall be continuously adjustable from 1/3 normal speed (for slow-motion viewing) to normal playback speed.

The central control panel, television camera controls, video recording equipment, etc. shall all be located in the mobile television studio. The television studio shall be mounted on a mobile device (truck or trailer) which will allow safe and orderly movement of the inspection equipment throughout the job site.

C. Digital Video Format: Digital Video Format (i.e., mpeg or avi) delivered one file per sewer line section shall be provided on two separate external USB 3.0 Portable Solid-State Drives (SSD) in digital format. All digital video and PDF report files shall be named in a manner such that the "to manhole" and "from manhole" is precisely defined for linkage to GIS. For example, a pipe

segment with an upstream manhole number of 123 and a downstream manhole number of 456 shall be named "123-456.mpg" and "123-465.pdf". Two (2) copies of the finished video recordings on external hard drives and PDF reports shall be delivered to the Engineer, the cost of which shall not be paid separately but shall be included in the cost of various contract pay items.

A video recording of the inspection view as it appears on the television monitor shall be taken for the complete length of all sewer lines that are television inspected or as may be directed by the Owner or Engineer. The video recording shall be made whenever television inspection is in process. However, the video recording shall be stopped after a short duration whenever the television camera movement is stopped or backed up to examine a defect for a length of time. Whenever the camera movement is restarted, the video recording should be restarted prior to any camera movement.

The video recording of the sewer line inspection shall produce a video image equal to or better than the quality of the picture on the television monitor. When the recorded video information is replayed and reviewed on the monitor/receiver, it shall be free of electrical interference and shall produce a clear, stable image with a resolution of not less than 600 lines.

The video recordings shall also supply a continuous audio record of all observations for the complete length of all sewer lines television inspected. The audio portion of the composite signal shall be sufficiently free of electrical interference, background noise, and heavy foreign or regional accents to provide an oral report that is clear and complete and easily discernible. The audio portion of the video reporting shall be recorded by the operating technician on the video as they are being produced and shall include the following:

- 1. Sewer line location (street name and address, structure to structure numbers, etc.)
- 2. Description and location of defects observed in the sewer line
- 3. Description and location of service laterals
- 4. Length of each sewer line section televised
- 5. All other information as encountered during inspection such as obstructions to camera passage and sags in the pipe which require dewatering

Dubbing the audio information onto the video track after the internal television inspection is completed will not be permitted.

Video recordings shall be one file per sewer line section and shall be included on the external hard drives submitted. Two (2) hard drives containing all the video and report files shall be delivered to the Engineer. The hard drives shall be labeled "CITY OF CREST HILL – 2024 SANITARY SEWER TELEVISING PROJECT – 24-R0481.01".

- **D. Spreadsheet:** Also included on each hard drive should be a master spreadsheet that has a record for each line segment televised. The spreadsheet shall be in MS Excel format and shall have hyperlinks to the video files and the associated PDF report for each section of sewer televised. It shall include the following information for each record:
 - Date Televised
 - Length Surveyed
 - Pipe Segment Reference (Pipe ID)
 - Upstream Manhole ID
 - Upstream Manhole Rim to Invert

24-R0481.01

- Downstream Manhole ID
- Downstream Manhole Rim to Invert
- MPEG Video
- PDF Report
- Data Folder Location
- City, Village or Town
- Street Name
- Location Details
- Pipe Height (Diameter)
- Pipe Width
- Pipe Shape
- Pipe Material
- Additional Information
- Structural Quick
- Structural Index
- O&M Quick
- O&M Index
- Overall Quick
- Overall Index
- REL Project Number

E. Television Inspection Reports: The Contractor shall keep an electronic log or record covering the television inspection work and the information acquired for each sewer line section inspected. A sewer line section is defined here as the length of sewer which connects two (2) adjacent structures. Specialized forms shall be used for this log or record, and they must meet the approval of the Owner or Engineer prior to initiation of work for the project. After the televising is complete, the detailed observations from each final television inspection segment need to be submitted in a digital MS Access Database format as well as in PDF report format that includes the following information:

- Date and Time televised
- Name of Inspection company
- Name of TV control technician
- NASSCO certification number of TV control technician
- REL Project Number
- Sewer pipe ID (non-abbreviated structure-to-structure numbers in their entirety)
- Sewer line section location (street name, address nearest to each manhole)
- Sewer pipe size
- Sewer pipe material
- Sewer pipe length
- Depth of sewer in each manhole to within plus or minus 0.1 feet
- Sewer section joint length
- Upstream Manhole ID (provided by the Engineer)
- Downstream Manhole ID (provided by the Engineer)
- Name of the inspection video file for the sewer pipe
- Direction of flow and direction of camera movement in sewer line
- Root intrusion and mineral deposit locations and descriptions
- Notes on changes in sewer line grades, sewer dips, sags, etc.
- Sewer service line locations (distance from the upstream manhole)
- Sewer service line connection type (Y or T)
- Sewer service line location on the periphery of the sewer pipe (clock position)

- Sewer service line status (active/capped)
- Pipe damage and character, type, and location of such damage
- NASSCO structural, O&M and Overall pipe severity ranking
- NASSCO Quick Rating
- Other problems or remarks

The submittal of the MS Access database containing all television inspection observations as well as the PDF copies of the report shall be submitted on the two (2) hard drives and shall be considered included in the contract and must be submitted on or before the completion dates specified in the contract documents.

- **F. Final Project Reports:** Two (2) hard copies of the final project reports shall be prepared by the Contractor and submitted to the Engineer prior to the completion deadline specified herein, as soon as possible after completion of television inspection of all sewer lines. This report shall include as a minimum the following information:
 - 1. Sewer line section television inspection logs or records and a summary of information on the logs or records.
 - Field maps showing field notes, and the correct address location of each manhole shall be shown in addition to its identifying manhole number. The correct locations of all manholes should be marked on the plan sheets and submitted with the report and marked "AS FIELD LOCATED."
 - 3. An index of all video segments recorded and an identification record for each of those segments.

There shall be no separate or extra compensation for preparation and submittal of the final project reports. All the Contractor's costs for preparation and submittal of the final project reports shall be considered included in the cost of various contract pay items.

G. Measurement and Payment: Measurement for payment will be made from center to center of upstream and downstream structures, from center of structure to end of pipe/inspection, or other agreed upon stopping point for each foot of sewer line televised. The Contractor's unit proposal, price per foot for the television inspection of sewer lines, shall be considered as full compensation for furnishing all labor, equipment, and materials and for performing all work associated with the television inspection of the various sewer lines. There will be no separate or extra compensation for re-televising lines that show televising to be unsatisfactory, acquiring the location information required for the television inspection records, for recording and keeping said records for stopping and/or backing up the television camera to better view and analyze any unusual sewer line features or items, or for any other items of work that may be required.

Where obstructions within the sewer line prevent the passage of the television camera and other equipment, the Contractor shall reset his equipment so it can pass through the sewer from the other end of the sewer section and thereby complete the inspection of the sewer. This work all will be paid for at the contract unit price per FOOT for TELEVISING SANITARY SEWERS.

EQUIPMENT RETRIEVAL

The Contractor shall promptly retrieve at the end of the internal inspection all equipment, including television cameras, from the sewer being worked on. The municipality may, at its discretion, allow some additional retrieval time for any equipment which may get stuck in the sewer or in whose retrieval the Contractor may experience some difficulty. In such a case, the Contractor shall promptly contact the Owner or other similar designated public official to advise of the

24-R0481.01

circumstances and to request additional retrieval time. The Contractor shall continue to maintain the sewer in continuous service during the entire retrieval process, using pumping or any other required means.

If it becomes necessary to excavate for equipment retrieval, the Contractor shall be responsible for restoring the sewer section disturbed in the retrieval efforts, to the satisfaction of the Owner, backfilling and restoring the disturbed ground surface to the pre-retrieval conditions or better.

To avoid equipment retrieval difficulty, the Contractor is encouraged at his discretion to pass the camera only through the sewer as a test-run to ascertain the retrieval conditions. Logging of defects or other conditions usually required to be logged in the internal inspection work will not be required during the test-run.

All materials and labor involved in the equipment retrieval and test-runs, including excavation, restoration of the sewer and ground surface described above, shall be considered included in the cost of various contract pay items, and shall not be compensated for separately.

PROPERTY RESTORATION

It is anticipated that no public and/or private property shall be disturbed by this work. The Contractor shall take all precautions to avoid such damage and shall restore any public and/or private property, including landscaping, damaged and/or disturbed by the proposed work, to the satisfaction of the Owner, at no additional compensation. If the Contractor encounters a situation which some private property or a public facility/infrastructure will suffer unavoidable damage or disturbance, the Contractor shall bring it to the Owner's attention for a specific authorization to proceed with such work at no additional cost, before the task in question is performed. All property restoration shall be considered included in the cost of various contract pay items.

CNRR APPLICATION REQUIREMENTS



SAFETY GUIDELINES FOR CONTRACTORS AND NON-CN PERSONNEL

Introduction

This document is a condensed version of CN's mandatory safety training for Contractors and non-CN personnel. It should be noted that this document is not a substitute for the mandatory safety training for Contractors and non-CN personnel including eRailsafe or Contractor Orientation as the case may be. For the purposes of this document "Contractor" may also apply to individuals on CN property, whether under contract to CN or not.

Contractor's employees or subcontractors performing work within the CN right-of-way must familiarize themselves with CN's Contractor Safety Package, complete a Contractor Orientation Course and must be registered on the Contractor Completion Database which can be found at the following website: www.contractororientation.com. If you have been contracted by CN and are completing work on behalf of CN, you are required to ensure anyone working on the project within CN right of way, or within 30 feet of the nearest rail (whichever is greater), has completed eRailSafe. This course can be found at the following website: www.erailsafecanada.com

These guidelines are not to be considered as a substitute for the applicable government regulations. These guidelines are the minimum requirement and must be exceeded where the hazard or government regulations warrant.

It is not possible to deal with every hazard in this one document. These guidelines are to be employed in conjunction with Government Acts, Regulations, local Ordinances, CN Safety and Operating Rules Standards, and good judgment to facilitate the safe completion of the work.

Additional information regarding safe work practices may be included in contract documents and specifications. In the event of a discrepancy between these guidelines and the contract, the contract shall govern.

CN's Basic Safety Requirements

The Contractor's attention is drawn to the following highlights from CN's "Basic Safety Requirements":

- 1. Take all reasonable measures to ensure the protection of employees, customers, property, and the general public.
- 2. Address promptly all environmental and safety concerns.
- Analyze all accidents or incidents resulting in, or having potential for, loss or injury, and take remedial action promptly to prevent recurrence.
- 4. Require all persons granted access to Company property to comply with applicable Risk Management policies, standards, and procedures.
- 5. Provide employees with appropriate training to enable them to work safely.
- 6. Inspect personal protective equipment (PPE), tools and equipment before use to ensure that they are in good working condition.
- 7. Contractor's employees or subcontractors performing work within the CN right-of-way must familiarize themselves with CN's Contractor Safety Package, complete a Contractor Orientation Course and must be registered on the Contractor Completion Database which can be found at the following website: https://contractororientation.com If you have been contracted by CN and are completing work on behalf of CN, you are required to ensure anyone working on the project within CN right of way has completed eRailSafe. This can be found at the following website: www.erailsafecanada.com

CN's Risk Management policy is premised on the following:

- to work in a safe manner is a condition of employment/Contract;
- all accidents or incidents resulting in loss or injury are preventable;
- it is possible to eliminate or safeguard all operating conditions that may result in injury, property damage, or other losses;
- employees will be provided with appropriate training to enable them to work safely;
- employees and management must work jointly in efforts to promptly resolve and improve safety and health conditions in the workplace.

Safety Guidelines

- Page 1 of 5 -

January 2019

GENERAL RULES AND INFORMATION

"Expect the movement of a train, engine, rail car or track unit at any time, on any track, in either direction. Protect yourself and others from the movement of trains, engines, railcars and track units and do not expect them to stop."

If any situation arises which affects the safe movement of trains, CN must be contacted immediately at:

1-800-465-9239.

Alternatively, contact CN's Network Operations Centre in Edmonton at:

1-800-661-3963.

Before any digging is performed on CN property, proper clearance and instructions must be obtained through the Information Technology Command Centre (ITCC Network Management Centre) at:

1-800-661-3687 or 1-800-NO1-FOTS.

In an emergency, any object waved violently by anyone on or near the track is a signal for trains to stop.

Violation of CN's mandatory Contractor Safety training or contravention of these guidelines may result in the immediate removal of the Contractor or the offending personnel from CN property.

Compliance with Government Regulations

Contractors shall follow all applicable Federal, Provincial, and Municipal Acts, Regulations, Laws and Codes, including but not limited to those related to the licensing of workers, occupational health and safety, transportation or handling of dangerous substances, inspection and certification of equipment. As CN is a federally regulated enterprise, Contractors are advised that work undertaken on CN right-of-way may be governed by Federal regulation.

The Contractor must become familiar with all applicable regulations and must ensure compliance by workers at the job site. Supplementary instructions may be issued by CN representatives from time to time.

Contractor's Responsibility

- Before entering upon CN right-of-way, the Contractor must have all documentation properly executed and available for review by CN personnel at the working site. (i.e. Permits, Licenses, Contract Documents, Contractor Safety Approved identification card and/or Waivers).
- 2. Daily briefings must be held at every work site to review the contents of these guidelines and any unique conditions at the site relating to safety. A record must be kept of such briefings by the Contractor's responsible person at the work site. Work site briefings must be updated regularly as the job conditions change
- Unless explicitly permitted by CN, no equipment or vehicle may enter upon the operated right-of-way.
- 4. Unless explicitly permitted by CN, no work shall take place within thirty (30) feet of the nearest rail except in the presence of a CN Protecting Foreman. The CN Protecting Foreman is concerned only with the safe movement of trains and will not be responsible for the safety of the Contractor, the Contractor's personnel or the Contractor's equipment.
- 5. Contractor's personnel must not crawl under, climb over or pass through standing railway equipment.
- 6. Contractor's personnel must not cross a track within thirty (30) feet, of standing railway equipment.
- 7. CN has many power and/or communication cables buried within the CN right-of-way. The Contractor shall be sure of their location before making any excavation, driving stakes or otherwise penetrating the ground surface. In the event of any excavation work that strikes an underground cable adjacent to CN's track, the contractor must make immediate contact with CN
- 8. In accordance with CN's safety standards, Contractor's personnel must wear CN required personal protective equipment at all times while on CN right-of-way. Such equipment will include hard hats, safety glasses, reflective apparel, safety footwear (protective footwear shall meet or exceed CSA Z195 and/or ASTM F2413, shall cover and support the ankle and have a defined heel. In

Safety Guidelines

- Page 2 of 5 -

January 2019

Canada, the defined heel must be a minimum of 9 mm (3/8 inch) and shall not exceed 25 mm (1 inch). In the US, the defined heel must be a minimum of 12 mm (1/2 inch and shall not exceed 25mm (1 inch). Boots must be equipped with laces, which must be laced to the top and tied. Hearing and respiratory protection and fall arrest equipment shall be worn where signs are posted or when a potential hazard exists.

- 9. No CN plant, signal, structure, equipment or property of any kind may be tampered with, modified or removed.
- 10. "Hi-rail" equipment shall only be operated on the track by personnel qualified in the latest version of the "Canadian Rail Operating Rules".
- 11. Horseplay, practical jokes, fighting or any other activity that may create a hazard will not be tolerated.
- 12. Contractor's personnel must immediately abide by instructions from CN personnel.

Approaching Train

- 1. On the approach of a train, the Protecting Person will communicate to the Contractor's Responsible Person, either by radio or by personal contact, that a train is approaching.
- 2. After receiving the train information from the Protecting Person, the Contractor's Responsible Person must ensure that all workers, equipment and materials are "Clear Of The Track" (as defined in 5.3.5. below) then communicate this to the Protecting Person.
- 3. The Protecting Person will not authorize any trains through the working limits nor authorize cancellation of protection before receiving confirmation that all workers have been alerted, stopped working and the track is clear of workers and machinery.
- 4. After the train has passed, no one is to foul or occupy the track until the Protecting Person has given the authorization. Authorization will be communicated to the Contractor's Responsible Person.

Clear Of The Track

To be Clear of the Track shall be defined as:

- 1. All work has been stopped.
- 2. All workers are made aware of the approaching train and route to be followed.
- 3. All workers, equipment and material have been positioned beyond the clearance limits or at any other location deemed safe by CN. (at least 5 meters (15 feet) from the nearest rail of the track on which the train is to pass with additional allowances for curvature and super elevation).
- 4. All off-track equipment by special approval less than 5 (15 feet) meters of the nearest rail has stopped working and operators have left their equipment.
- 5. All off-track equipment more than 5 meters (15 feet) from the nearest rail has stopped working. Operators may remain in their cabs unless directed otherwise by the Contractor's Responsible Person. All equipment must be properly secured against unintentional movement
- 6. All on-track equipment has been moved into the siding or other track as per the Protecting Person's instruction. Operators will leave their equipment unless directed otherwise by the Contractor's Responsible Person. All unattended equipment must be properly secured against unintentional movement
- 7. Booms, cranes or other similar equipment have been immobilized and the boom is parallel to the railway track(s), and clear of the nearest rail be 5 meters (15 feet)
- 8. Provided there is no possible way for the worker to become unintentionally foul of a passing train, and at the discretion of the CN Supervisor, workers may continue working.

POLICY TO PREVENT WORKPLACE ALCOHOL AND DRUG PROBLEMS

Policy standards

The Contractor, subcontractors, employees, suppliers and visitors must remain free from any adverse effects of alcohol or other drugs and conduct themselves in an appropriate manner while on CN business or premises. The Contractor must ensure that all those having access to the site adhere to the following standards when on CN business or premises, including vehicles and equipment:

- 1. No use, possession, distribution or sale of illegal drugs or drug paraphernalia.
- 2. No use, possession, distribution or sale of beverage alcohol or any form of alcohol.
- 3. Responsible use of prescribed and over-the-counter medications.
- 4. No distribution, offering or sale of prescription medications.
- 5. To report for duty and remain during the entire period of duty free of the negative effects of alcohol and other drugs, including the after effects of such use.

Consequences of violation

Failure to meet these standards will be considered a breach of the contract. This may at CN's sole discretion, trigger the suspension or termination of the contract.

Policy violation procedures

Where CN has reasonable grounds to believe any individual in the employ of the Contractor or a supplier is on duty in an unsafe condition or otherwise in violation of the Policy, or where during the preliminary phase of any investigation such an individual has been identified as being directly involved in the chain of acts or omissions leading up to an accident or incident:

- 1. CN will escort the individual(s) to a safe place.
- 2. CN will notify the Contractor or supplier.
- 3. The Contractor will investigate the situation.
- 4. The Contractor must satisfy CN that there has been no policy breach.
- 5. If a policy breach has occurred, the individual will not be allowed to continue providing services to CN without written permission from a CN official, and he/she will be required to adhere to any conditions governing his/her return.

<u>Firearms</u>

Firearms (loaded or empty) are not permitted on CN property, except for CN Police officers and other designated persons performing authorized work and when authorized to do so. In all cases, any firearms must be accompanied with a written authorization from the Chief of CN Police and the person should have in his possession all pertinent government permits.

Explosives

No explosives will be permitted on CN property without written CN approval.

Vehicles

Contractor's vehicles on the site must be in safe operating condition. Operators must observe all site speed limits. Unattended vehicles must not be left running unnecessarily. Where they must be left running, the parking brake must be applied. The operator is responsible for the safety of all passengers and the stability of materials being transported.

All vehicles will be parked in a pre-determined area and where required, a designated Contractor entrance shall be used.

Smoking in the Workplace

Smoking is not permitted in any CN interior workplace or motor vehicle.

Safety Guidelines

- Page 4 of 5 -

January 2019

Security

Contractor's personnel will proceed directly to the Contractor's work location. Contractor's employees must remain at their designated work site and must not wander about the site.

The Contractor shall not permit persons other than the Contractor's personnel to enter the site without the prior written authority of the CN representative.

Emergency Evacuation Procedures

Prior to commencing work, all Contractor's employees must be familiar with the emergency evacuation plan for that work site. The Contractor shall issue written emergency and rescue procedures to the Contractor's personnel and shall post such procedures on the job site.

Unsafe Conditions or Practices

Contractors shall correct or report any unsafe conditions or practices they observe. All such conditions or practices shall be reported to the CN representative at the work site as soon as practical.

Reporting Accidents/Incidents

All accidents/incidents occurring on CN property, that result in or had the potential of causing serious injury, lost work days, vehicle or property damage must be reported to the CN representative within twenty-four (24) hours. All such incidents will be fully investigated by the Contractor.

The Contractor shall subsequently provide a written report to CN (i.e. Company Officer assigned as Liaison to Contractor) within seven (7) days detailing the nature of the incident, the cause(s), regulatory authorities notified, and a specific action plan to prevent recurrence.

Treatment of Injured Personnel (Contractors)

Contractors shall ensure the following is provided for their personnel as required by CN and in accordance with applicable government regulations:

- 1. Adequate first-aid supplies and equipment.
- Qualified personnel to render first-aid treatment.

Audio and Visual Recording Equipment

Cameras and audio-visual equipment are not permitted on CN property without prior approval. Use of personal electronic devices such as smart phones for the purpose of recording video, photographic or audio information is prohibited while on CN property.

Summary

In conclusion, CN requires the full cooperation of the Contractor and the Contractor's employees with these guidelines and all other applicable regulations. Should there be any doubt as to the meaning or interpretation of these guidelines, consult with the CN representative responsible for the worksite.

Contractor Acknowledgement

Contractor/Sub-contractor personnel must read and understand CN's "Safety Guidelines for Contractors and Non-CN Personnel". The Contractor/Sub-contractor must also follow the appropriate Contractor Safety training.



Diane R Lewis Public Works Officer (IL, IA, PA)

17641 S Ashland Ave Homewood II, 60430 T 708-332-3557 Email: Diane.Lewis@cn.ca

Right of Entry Information

Cost is \$1000.00 for application

Railroad Company requires <u>everyone</u> (contractor, consultants, etc.) working on Railroad Company property to have a Right-of-Entry (ROE) License Agreement. ROE license agreement applications are handled by email. Once Railroad Company receives the information requested below, and if application is approved, Railroad Company will draw up a ROE License Agreement, and will forward electronic copy by email for applicant's execution. ROE License Agreement will be delayed if Railroad Company receives the required documents separately, incomplete, or inaccurate. Railroad Company will return a fully executed digital copy of the ROE License Agreement by email for Applicant's files and records. No work may occur on Railroad Company property nor will flagging protection be provided until ROE License Agreement has been fully executed by both parties and returned. Please contact Railroad Company a minimum of three (3) weeks prior to the project start date.

Please use this form and return by email to submit application request for a Right of Entry agreement.

Legal Name of contractor -

Contact name -

Contact email -

Street Address -

City, State, Zip -

Telephone -

Reason for ROE – Cleaning and televising of the sanitary sewer that runs along the railroad easement between crossings #260589V and #260799K, as well at the #260799K crossing at Oakland Avenue. All work is done within the sanitary sewer manholes.

Duration of ROE (Include start and finish dates) -

Location of project (City, State) with nearest railroad milepost or crossing id number - Crest Hill, IL.

Railroad easement between Gaylord Road crossing (#260589V) and Oakland Avenue crossing (#260799K), and at Oakland Avenue crossing (#260799K).

Will there be subcontractors on this project (list all subs) -

Does your work require a traffic shift in opposing lane over a railroad at-grade crossing - No.

Include a map showing the project location

Email the completed form to: Diane.Lewis@cn.ca

Note: Fully executed ROE may take up to 3+ weeks to obtain

Safety Training Required

ALL contractor personal will have to comply with CN safety requirements including and before entering upon the property of the Railroad for performance of any work, secure permission from the Engineering Superintendent of the Railroad Company or his authorized representative for the occupancy and use of the Railroad's property and shall confer with the Railroad relative to requirements for railroad clearances, operation and general safety regulations. Outside contractors and subs, who are not employed by CN or doing work for CN, are required to register with www.contractororientation.com and complete the basic safety and security tests. Contractor Orientation provides the basic safety, security and PPE requirements for CN. You may find more information on registering with contractor orientation on the contractor orientation website. Once you register, follow the CN links and you will be required to take the course labeled CN Contractor Security / Safety Course.

EXCEPTION: CN has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

Insurance Requirements

Railroad Company allows outside parties to come onto Railroad Company property to perform work, such as survey or inspection work, installation of pipelines and wirelines, and other work for projects necessitating the occupancy of Railroad Company. Before commencing work, and until the license of allowing such occupancy ends or is terminated, outside parties shall provide and maintain the following insurance in form and amount with companies satisfactory to and as approved by Railroad Company.

- 1. Minimum insurance required of outside party:
 - A. Statutory Workers Compensation and Employer's Liability Insurance.
 - B. Automobile Liability Insurance in an amount not less than \$1,000,000 combined single limit.
 - C. Commercial General Liability Insurance (Occurrence Form) in an amount not less than \$5,000,000 per occurrence, with an aggregate limit of not less than \$10,000,000. The policy must name Railroad Company and its parents as additional insureds in the following form:

Wisconsin Central Ltd. and its Parents Attn: Diane Lewis 17641 S Ashland Ave Homewood II, 60430 715.332-3557 (office) Diane.Lewis@cn.ca

The policy must not contain any provisions excluding coverage for injury, loss or damage arising out of or resulting from doing business or undertaking construction or demolition on, near, or adjacent to railroad track or facilities, and using endorsement CG 2417 10 01 or equivalent approved by Railroad Company.

D. When outside party is required by Railroad Company or Governing Authority to purchase Railroad Protective Liability Insurance to cover work on, near or adjacent to railroad track or facilities, and outside party is not being hired for this project by Railroad Company, outside party must procure Railroad Protective Liability Insurance in the following form;

This coverage shall be written on an Occurrence Form with limits of not less than \$5,000,000 per occurrence for Bodily Injury, Personal Injury and Physical Damage to Property, with an aggregate limit of not less than \$10,000,000. The policy must name:

Wisconsin Central Ltd. and its Parents Attn: Diane Lewis 17641 S Ashland Ave Homewood IL, 60430 715.332-3557 (office) Diane.Lewis@cn.ca

- E. Pollution Insurance AS REQUIRED AND DETERMINED BY PROJECT.
- F. All policies described above must include description of operations, Railroad Company milepost, highway or street name, city and state of location, project number, and Railroad Company contact person on the certificate.
- 2. Before commencing work, outside party shall deliver to Railroad Company a certificate of insurance evidencing the foregoing coverages and, if requested by Railroad Company, true and complete copies of the policies described above. If the policy is being issued in conjunction with, or as a result of, a city, county or state contract, the policy should be initially submitted to the respective city, county or state agency that will review it first and then forward it to Railroad Company.
- 3. Common Policy Provisions. Each policy described in paragraph 1, parts A through E above, must include the following provisions:

CN 24-Hour Emergency Contact Number:

1-800-465-9239

Cable Locates:

CN utilities are not part of Digger's Hotline. Please request a cable locate by using the Flagging - Cable Locate Form. \$975.00 Fee.

Flagging Protection:

Rates:

\$2,500 for each basic day (up to 8 hours, includes 2 hours to set up flags)

\$275.00 for each overtime hour

Weekend or Holiday work is \$275.00 per hour with an 8 hour minimum or

\$2,200.00 plus any overtime.

Flagging must be prepaid based on the estimated number of days needed.

Usually only one flagman is required at the work site.

Flagman protection is required when there is any work being done within 25 feet of the centerline of the closest rail, but if you will be using cranes with booms larger then 25' but are working away from

the ROW, flagman protection will be required, just in case a crane topples over and violates that 25' rule.

CN's US Flagging group is the contact for arranging flagman protection on your upcoming project. CN requires at least a ten business day notice prior to the start of work, so arrangements can be made through our flagging contractor. Please complete the attached form and send to the address below along with prepayment. The sooner the form is sent to CN, the more likely you will get a flagger for the days you request.

CN – US Flagging 17641 S. Ashland Ave Homewood, IL 60430 Phone: (248) 914-9695 Email: Flagging_US@cn.ca

Section B

RIGHT OF ENTRY FORM FOR CONTRACTORS General Conditions

- "Railroad" refers to Canadian National Railway Company or such of its affiliates or associates (within the meaning ascribed to those terms under the Canada Business Corporations Act) to whose property this Authorization and Consent relates.
- This Agreement is entered into as of this [date]
 between Railroad, having its registered office at 935 de la
 Gauchetière West, Montreal, Quebec, H3B 2M9, and
 [Company Name] ("Company"),
 having a place of business at
 [Address].
- 3. The Railroad, solely to the extent of its right, title and interest, without any warranty, expressed or implied, at law, under contract or otherwise, hereby grants to Company and its authorized employees, servants, agents or contractors, Authorization and Consent to enter upon the property described under Exhibit "A" hereto (the "Railroad property") for the sole purpose described under Exhibit "A" hereto.
- 4. This Authorization and Consent shall terminate forthwith upon expiration of the term noted in Exhibit "A" hereto, it being understood that Railroad shall have entire discretion to revoke this Authorization and Consent at any time prior to the expiration of the term, upon notice to that effect to the Company, which notice shall be effective forthwith upon receipt by the Company or at such later date indicated by Railroad in the aforesaid notice.
- The Railroad grants this consent subject to the understanding that Company and its authorized employees, servants, agents or contractors who enter upon Railroad property will:
 - 5.1. See that any activities conducted on said Railroad property are done in a good workmanlike manner, in compliance with applicable laws, statutes, regulations, policies, directives, orders, approvals and other legal requirements and in such manner and at such time as not to obstruct or interfere with Railroad's operation, trains or the functioning of its signal and communications systems or any fiber optic cable system or unduly delay the safe passage of Railroad's trains;
 - 5.2. Observe, abide by and comply with any and all guidelines, directives and policies adopted from time to time by Railroad including, without limitation (i) Railroad's drug and alcohol policy; and (ii) Safety Guidelines for Contractors and Non-CN Personnel; and
 - 5.3. Return said Railroad property to the same condition, reasonable wear and tear excepted, as existed prior to such work, failing which Railroad, after providing written notice to Company, and allowing Company a reasonable amount of time to return the Railroad property to the same condition, may do so at Company's sole cost and expense.
- No work shall be performed or equipment located within twenty-five (25) feet of the centerline of the nearest railroad track without flagging protection being provided by Railroad, at the Company's expense. Said work must be

arranged no less than ten (10) business days in advance of starting work.

Indemnity

Company agrees to indemnify and save harmless Railroad, its affiliates and associates and their employees, servants, and agents (collectively the "Indemnitee") from and against claims, demands, suits, judgments, actions, liens and other encumbrances, settlements, liability, costs and expenses (including, without limitation, court costs, experts' fees and attorneys' fees) when the injury, death, damage, loss or destruction is caused by the breach of contract or warranty, violation of statute, intentional misconduct or negligent act or omission of the Company, its employees, agents, contractors or subcontractors or when such act or omission is the kind for which one is made strictly liable, whether such claim arises in equity, at common law, or by statute, or under the law of contracts, torts (including without limitation, negligence and strict liability without regard to fault) or property of every kind or character (including Railroad property) ("Claims") and including, without limitation, Claims for personal injury or bodily injury to or death of any person, emotional distress, real and personal property damage and including derivative, consequential, indirect damages and economic loss, and also including, without limitation, Claims arising in favor of or brought by any of Company's employees, agents, contractors or representatives, or by any governmental agency or any other third party. Company shall not, however, be responsible for any such Claims to the extent it is solely caused by the gross negligence or wilful misconduct of the Indemnitee.

Insurance

(Required when Company accesses the property with equipment, including vehicles)

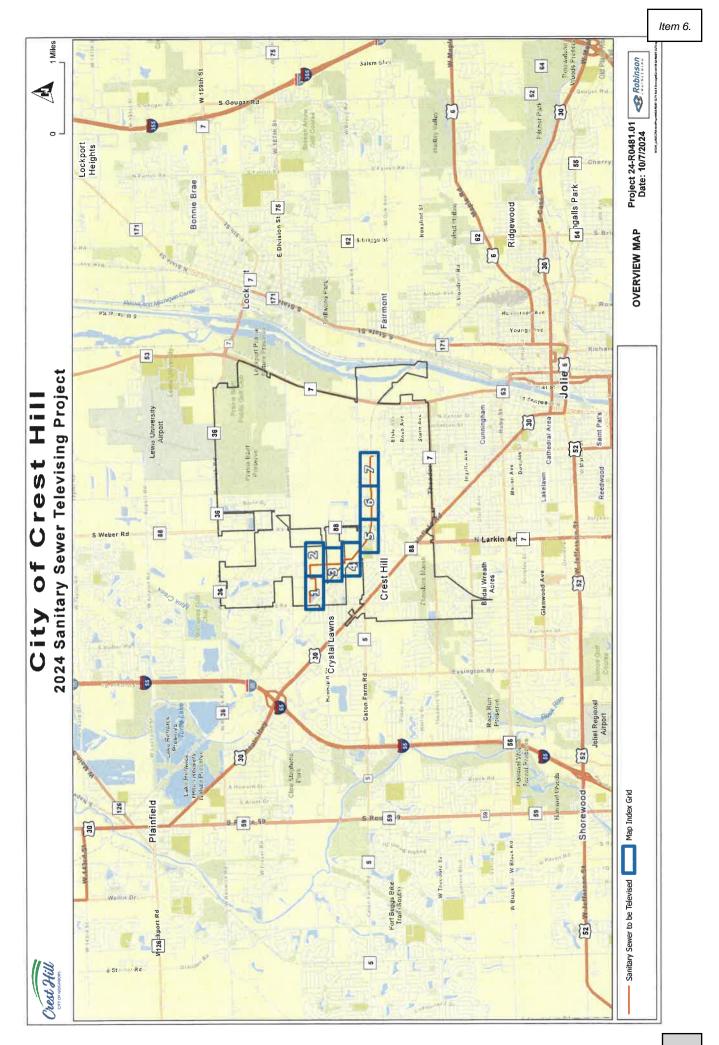
- 8. Company shall provide and keep in force and effect throughout the term of this Authorization and Consent:
 - 8.1. Comprehensive General Liability insurance in an amount of no less than five million dollars (\$5,000,000), or such greater amounts as Railroad may reasonably require from time to time, combined single limit for bodily/personal injury including death and/or damage to or destruction of property (including loss of use) caused by an accident or an occurrence and also including contingent employers liability, products and completed operations coverage, non-owned and automobile liability contractual liability endorsement specifically granting coverage for all liability assumed under this agreement. This insurance shall name Railroad as additional insured and shall contain cross liability clause and shall specifically include liability for operations within or around railroads and railway tracks;
 - 8.2. Automobile Liability insurance on all licensed vehicles owned by, hired, leased to or on behalf of the Company in an amount no less than five million dollars (\$5,000,000) per occurrence; and
 - 8.3. If available in the jurisdiction covered by this Agreement Worker's Compensation insurance in amounts not less than the statutory limits and

		employer's liability in an amount no less than five million dollars (\$5,000,000).			
	8.4.	Company's contractor will not enter Railroad property without having in its possession a certificate certifying that contractor has obtained all of the insurance coverage required hereunder. The Railroad may at any time require the contractor to furnish said certificate and failure to so may result in removal from Railroad property, cancellation of agreement and other consequences including without limiting damages or consequential losses resulting from the noncompletion of the work, as Railroad may determine. Said insurance shall state that no material changes will be made to the policies unless Railroad is given a prior written notice of thirty (30) days before such change or cancellation. Any insurance coverage required under the terms and conditions of this contract shall in no manner restrict or limit the liabilities assumed by Company nor shall they release Company from any of its obligations under this contract.			
		Miscellaneous			
9.	Company shall not have the right to transfer and/or assign this Authorization and Consent or any of its rights hereunder without Railroad's prior written consent, which consent Railroad shall have entire discretion to withhold or delay.				
10.	This Authorization and Consent shall be governed by the laws of the jurisdiction where Railroad property accessed under the authority hereof is located, as noted under Exhibit "A" hereto.				
The	partie	es have executed this Agreement this day of _ _, 200			
<u>RAI</u>	LROA	D			
Prin Title	t Nan	ne:			
COI	MPAN	<u>Y</u>			
Prin	t Nan	ne:			

9.

Railroad property:							
Limited Access Purpose:	For the limited purpose of						
	[insert de	[insert detailed description].					
Equipment Involved (including vehicles)	Yes		Note: If access to the property involves equipment, including vehicles, Company must provide and keep in force and effect throughout the term of this Authorization and Consent, the insurance set forth under Section 8 hereof.				
	No						
Term:	A term of[number of days/months/year beginning on [commencement date] ar terminating on [termination date], unle sooner terminated as provided hereunder.						
Representative: (name and address)							

EXHIBITS



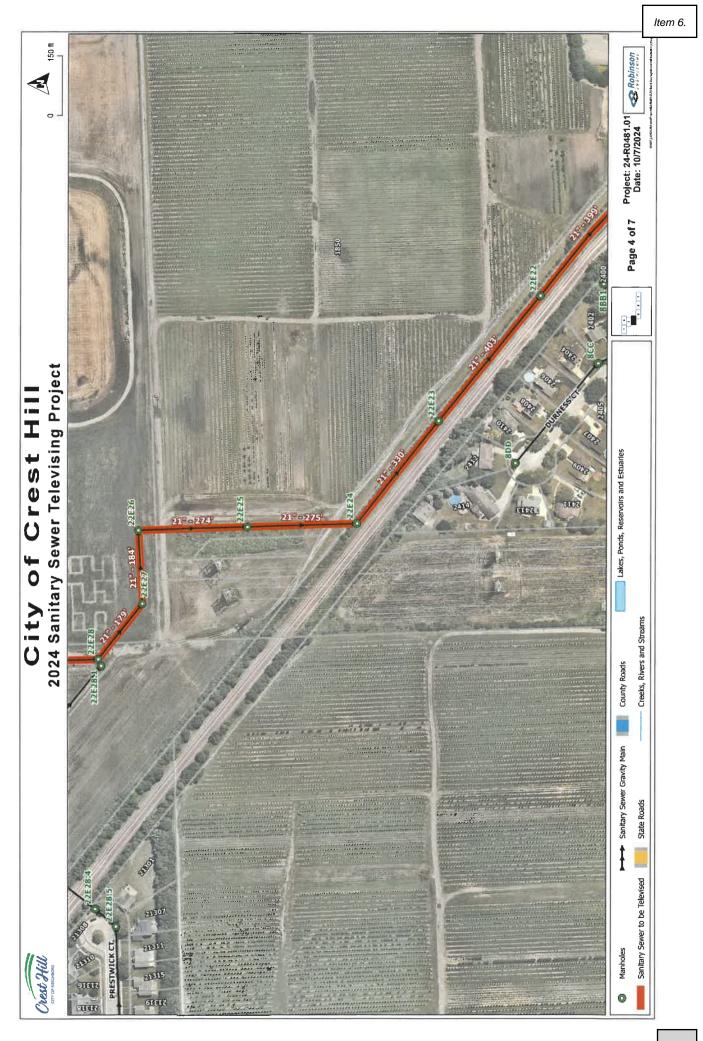


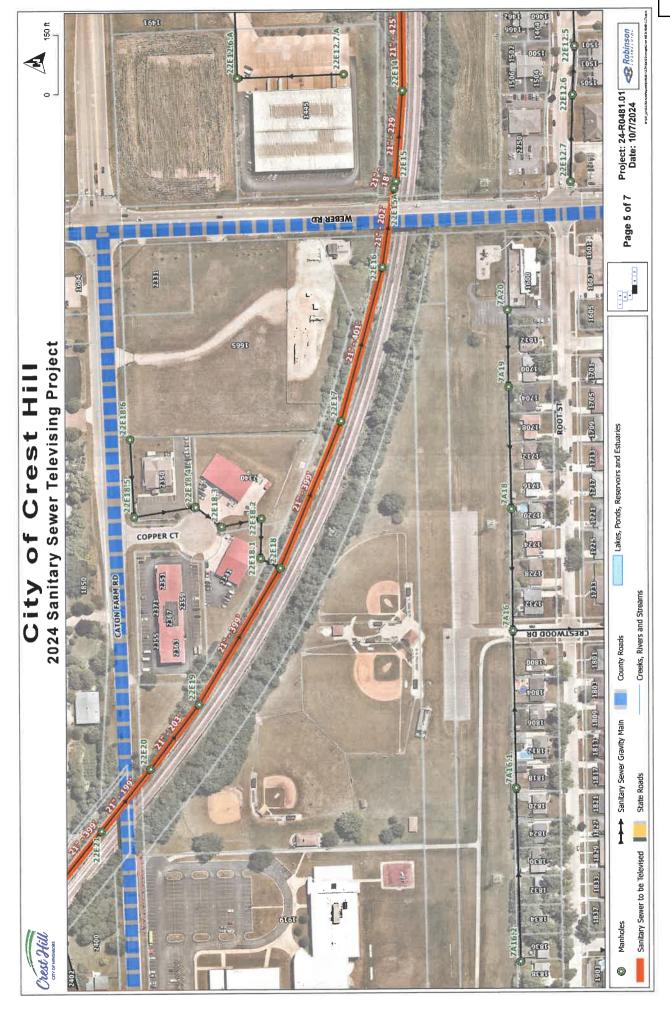
Crest Hill

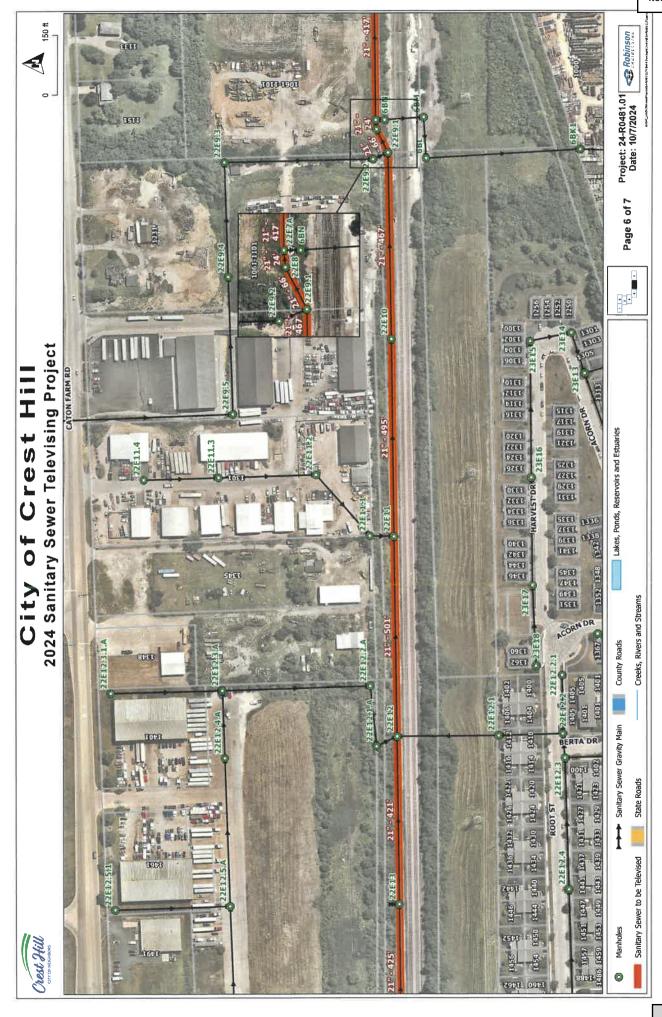
alli sasa

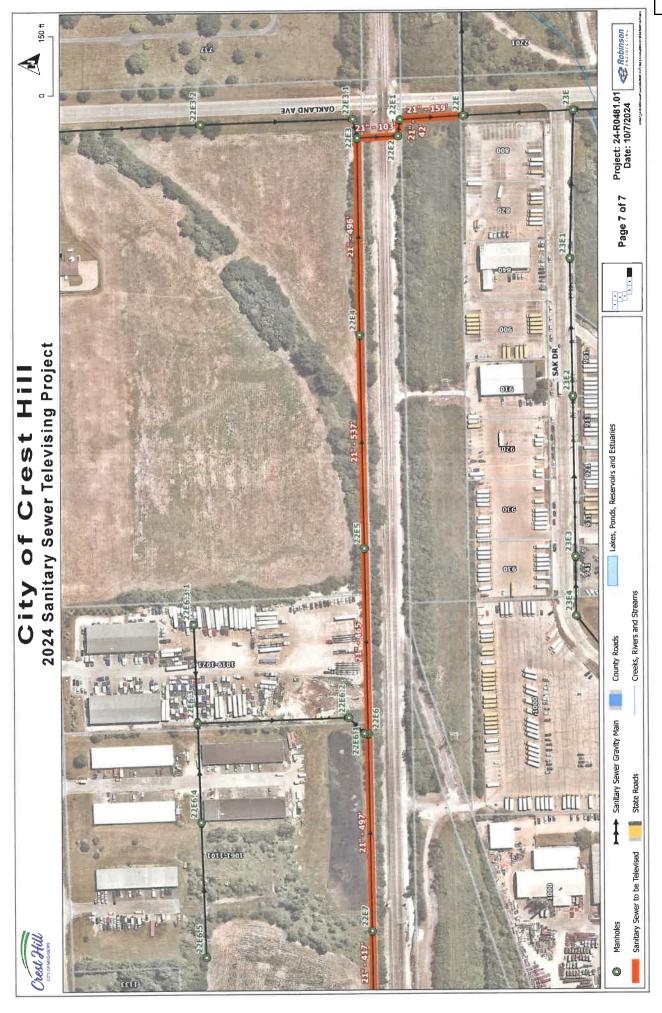
Manholes











SUPPLEMENTAL INFORMATION



City of Crest Hill

2024 Sanitary Sewer Televising Project Pipe Segment Schedule by USMH

USMH	DSMH	STREET	DIAMETER (IN)	PIPE ID	MATERIAL	LENGTH (FT)	PAGE
22E1	22E	Oakland Ave	21	1679	Unknown	159	Page 7
22E10	22E9.1	Harvest Dr	21	948	Unknown	467	Page 6
22E11	22E10	Harvest Dr	21	947	Unknown	495	Page 6
22E12	22E11	Harvest Dr	21	945	Unknown	501	Page 6
22E13	22E12	Harvest Dr	21	944	Unknown	421	Page 6
22E14	22E13	Weber Rd	21	934	Unknown	425	Page 5 and 6
22E15	22E14	Weber Rd	21	933	Unknown	229	Page 5
22E15A	22E15	Weber Rd	21	932	Unknown	18	Page 5
22E16	22E15A	Weber Rd	21	960	Unknown	202	Page 5
22E17	22E16	Weber Rd	21	1457	Unknown	401	Page 5
22E18	22E17	Caton Farm Rd	21	1456	Unknown	399	Page 5
22E19	22E18	Caton Farm Rd	21	1466	Unknown	399	Page 5
22E2	22E1	Oakland Ave	21	1678	Unknown	42	Page 7
22E20	22E19	Caton Farm Rd	21	1465	Unknown	203	Page 5
22E21	22E20	Caton Farm Rd	21	1464	Unknown	199	Page 5
22E22	22E21	Caton Farm Rd	21	1467	Unknown	399	Page 4 and 5
22E23	22E22	Railroad	21	1468	Unknown	403	Page 4
22E24	22E23	Railroad	21	1469	Unknown	330	Page 4
22E25	22E24	Railroad	21	1455	Unknown	275	Page 4
22E26	22E25	Railroad	21	1454	Unknown	274	Page 4
22E27	22E26	Railroad	21	1451	Unknown	184	Page 4
22E28	22E27	Railroad	21	1450	Unknown	179	Page 4
22E29	22E28	Railroad	21	1362	Unknown	458	Page 3 and 4
22E3	22E2	Oakland Ave	21	1677	Unknown	103	Page 7
22E30	22E29	Railroad	21	1361	Unknown	498	Page 3
22E31	22E30	Railroad	21	1360	Unknown	502	Page 2 and 3
22E32	22E31	Lidice Pkwy	21	1359	Unknown	500	Page 2
22E33	22E32	Lidice Pkwy	21	1357	Unknown	499	Page 2
22E33.1	22E33	Lidice Pkwy	15	1355	Unknown	403	Page 2
22E33.10	22E33.9	S Gaylord Rd	12	1346	Unknown	300	Page 1
22E33.11	22E33.10	S Gaylord Rd	12	1345	Unknown	301	Page 1
22E33.12	22E33.11	S Gaylord Rd	12	1344	Unknown	267	Page 1
22E33.2	22E33.1	Lidice Pkwy	15	1354	Unknown	401	Page 2
22E33.3	22E33.2	Churnovic Ln	15	1353	Unknown	183	Page 1 and 2
22E33.4	22E33.3	Churnovic Ln	15	1352	Unknown	385	Page 1
22E33.5	22E33.4	Advantage Ave	15	1351	Unknown	330	Page 1
22E33.6	22E33.5	Advantage Ave	15	1350	Unknown	301	Page 1
22E33.7	22E33.6	Advantage Ave	15	1349	Unknown	298	Page 1
22E33.8	22E33.7	Advantage Ave	15	1348	Unknown	287	Page 1
22E33.9	22E33.8	Advantage Ave	12	1347	Unknown	196	Page 1
22E4	22E3	Oakland Ave	21	1690	Unknown	496	Page 7
22E5	22E4	Sak Dr	21	1689	Unknown	537	Page 7



City of Crest Hill

2024 Sanitary Sewer Televising Project Pipe Segment Schedule by USMH

USMH	DSMH	STREET	DIAMETER (IN)	PIPE ID	MATERIAL	LENGTH (FT)	PAGE
22E6	22E5	Sak Dr	21	1691	Unknown	465	Page 7
22E7	22E6	Sak Dr	21	1685	Unknown	497	Page 7
22E7A	22E7	Sak Dr	21	1688	Unknown	417	Page 6 and 7
22E8	22E7A	Sak Dr	21	958	Unknown	24	Page 6
22E9.1	22E8	Sak Dr	21	951	Unknown	66	Page 6



Table of Contents

Manhole 22E33.12	
Camera Images: Area Photo & Topside Photo	. :
Manhole 22E33.10	. :
Camera Images: Area Photo & Topside Photo	. 1
Manhole 22E33.9	. 2
Camera Images: Area Photo & Topside Photo	. 2
Manhole 22E33.7	. 2
Camera Images: Area Photo & Topside Photo	. 2
Manhole 22E33.5	
Camera Images: Area Photo & Topside Photo	. 3
Manhole 22E33.3	
Camera Images: Area Photo & Topside Photo	. 3
Manhole 22E33	
Camera Images: Area Photo & Topside Photo	. 4
Manhole 22E31	
Camera Images: Area Photo & Topside Photo	, 4
Manhole 22E30	
Camera Images: Area Photo & Topside Photo	. 5
Manhole 22E28	
Camera Images: Area Photo & Tonside Photo	C



Manhole 22E26	6
Camera Images: Area Photo & Topside Photo	6
Manhole 22E24	6
Camera Images: Area Photo & Topside Photo	6
Manhole 22E22	7
Camera Images: Area Photo & Topside Photo	7
Manhole 22E19	7
Camera Images: Area Photo & Topside Photo	7
Manhole 22E18	8
Camera Images: Area Photo & Topside Photo	8
Manhole 22E14	8
Camera Images: Area Photo & Topside Photo	8
Manhole 22E10	9
Camera Images: Area Photo & Topside Photo	9
Manhole 22E5	9
Camera Images: Area Photo & Topside Photo	9
Manhole 22E3	10
Camera Images: Area Photo & Topside Photo	10



Manhole 22E33.12

Manhole Location: Easement

Nearest Address: 21541 S. Gaylord Rd.

Estimated Depth of Flow: 0%

Camera Images: Area Photo & Topside Photo





Manhole 22E33 10

Manhole Location: Easement

Nearest Address: 16811 Advantage Ave.

Estimated Depth of Flow: 20%





Page 1 of 10



Manhole 22E33.9

Manhole Location: Easement

Nearest Address: 16811 Advantage Ave.

Estimated Depth of Flow: 20%

Camera Images: Area Photo & Topside Photo





Manhole 22E33.7

Manhole Location: Easement

Nearest Address: 16811 Advantage Ave.

Estimated Depth of Flow: 20%





Page 2 of 10



Manhole 22E33.5

Manhole Location: Easement

Nearest Address: 16901 Advantage Ave.

Estimated Depth of Flow: 20%

Camera Images: Area Photo & Topside Photo





Manhole 22E33.3

Manhole Location: Easement

Nearest Address: 16901 Advantage Ave.

Estimated Depth of Flow: 20%





Page **3** of **10**



Manhole 22E33

Manhole Location: Easement

Nearest Address: 16825 Enterprise Blvd.

Estimated Depth of Flow: 20%

Camera Images: Area Photo & Topside Photo





Manhole 22E31

Manhole Location: Easement

Nearest Address: 16825 Enterprise Blvd.

Estimated Depth of Flow: 30%





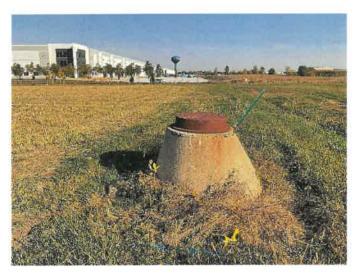
Page 4 of 10



Manhole 22E30

Manhole Location: Easement Nearest Address: 17124 Weber Rd. Estimated Depth of Flow: 30%

Camera Images: Area Photo & Topside Photo





Manhole 22E28

Manhole Location: Easement Nearest Address: 17124 Weber Rd. Estimated Depth of Flow: 40%





Page 5 of 10



Manhole 22E26

Manhole Location: Easement Nearest Address: 17124 Weber Rd. Estimated Depth of Flow: 40%

Camera Images: Area Photo & Topside Photo





Manhole 22E24

Manhole Location: Easement

Nearest Address: 1850 Caton Farm Rd.

Estimated Depth of Flow: 30%





Page 6 of 10



Manhole 22E22

Manhole Location: Easement

Nearest Address: 1850 Caton Farm Rd.

Estimated Depth of Flow: 30%

Camera Images: Area Photo & Topside Photo





Manhole 22E19

Manhole Location: Easement

Nearest Address: 2355 Caton Farm Rd.

Estimated Depth of Flow: 30%





Page **7** of **10**



Manhole 22E18

Manhole Location: Easement

Nearest Address: 2341 Caton Farm Rd. Estimated Depth of Flow: 25%

Camera Images: Area Photo & Topside Photo



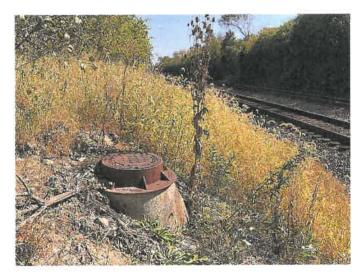


Manhole 22E14

Manhole Location: Easement

Nearest Address: 1445 Caton Farm Rd.

Estimated Depth of Flow: 25%





Page 8 of 10



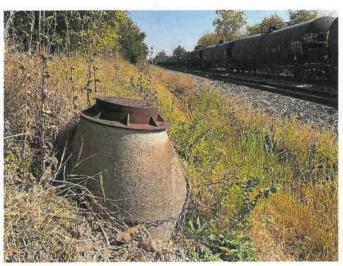
Manhole 22E10

Manhole Location: Easement

Nearest Address: 1231 Caton Farm Rd.

Estimated Depth of Flow: 30%

Camera Images: Area Photo & Topside Photo





Manhole 22E5

Manhole Location: Easement

Nearest Address: 1019 Caton Farm Rd.

Estimated Depth of Flow: 25%





Page **9** of **10**

City of Crest Hill 2024 Sanitary Sewer Televising Project (Manhole Access Exhibit) REL 24-R0481.01



Manhole 22E3

Manhole Location: Easement

Nearest Address: Oakland Ave. and RXR Crossing

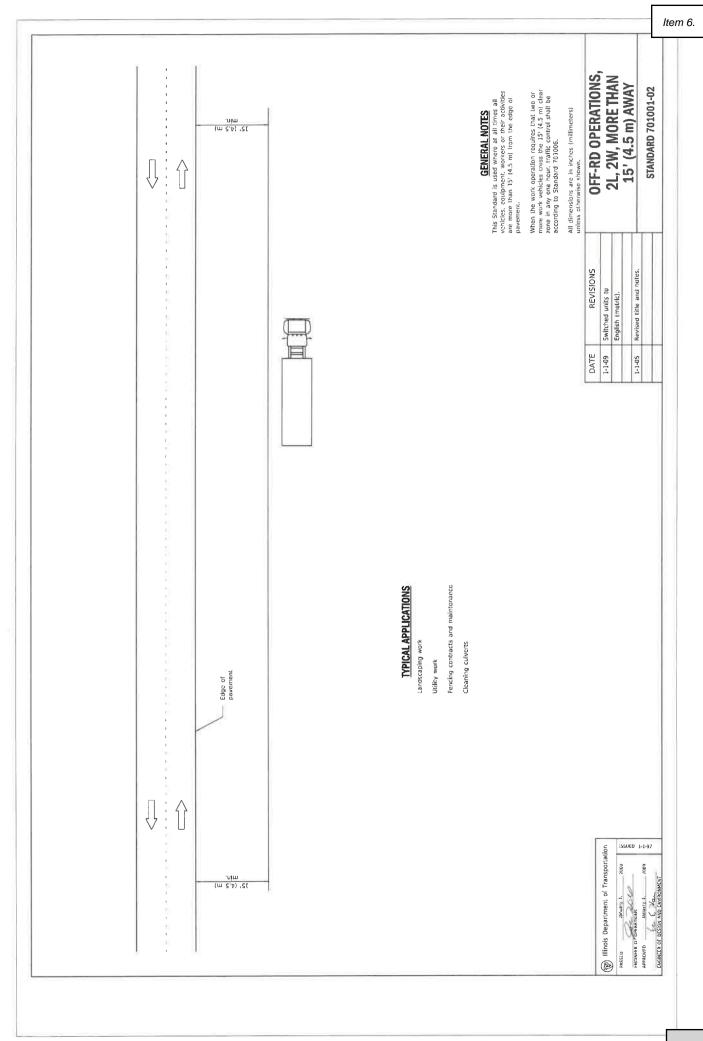
Estimated Depth of Flow: 20%

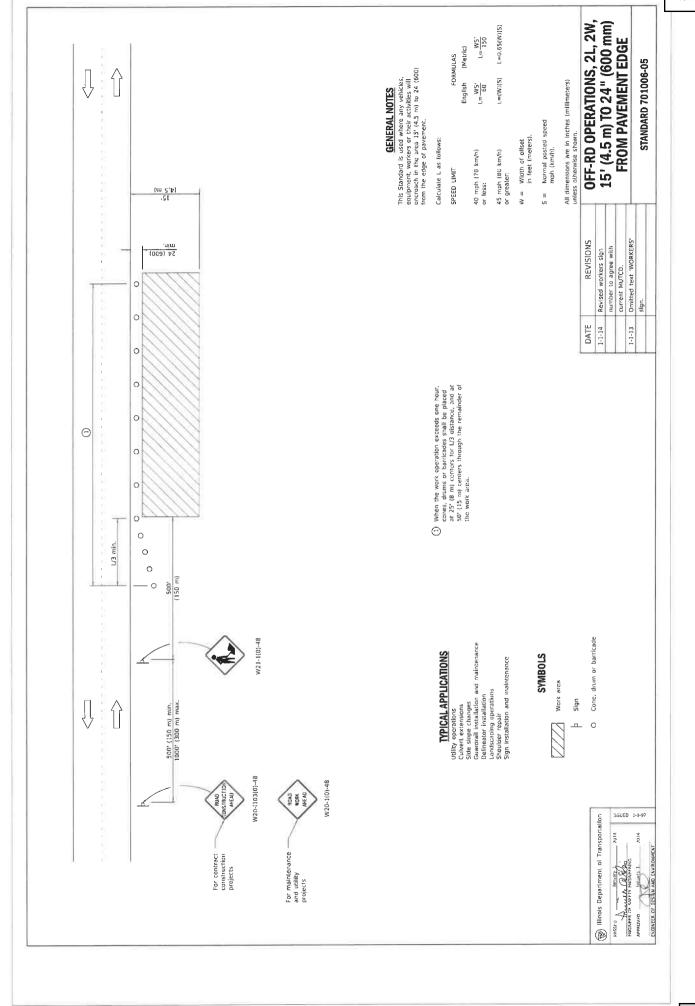
Camera Images: Area Photo & Topside Photo

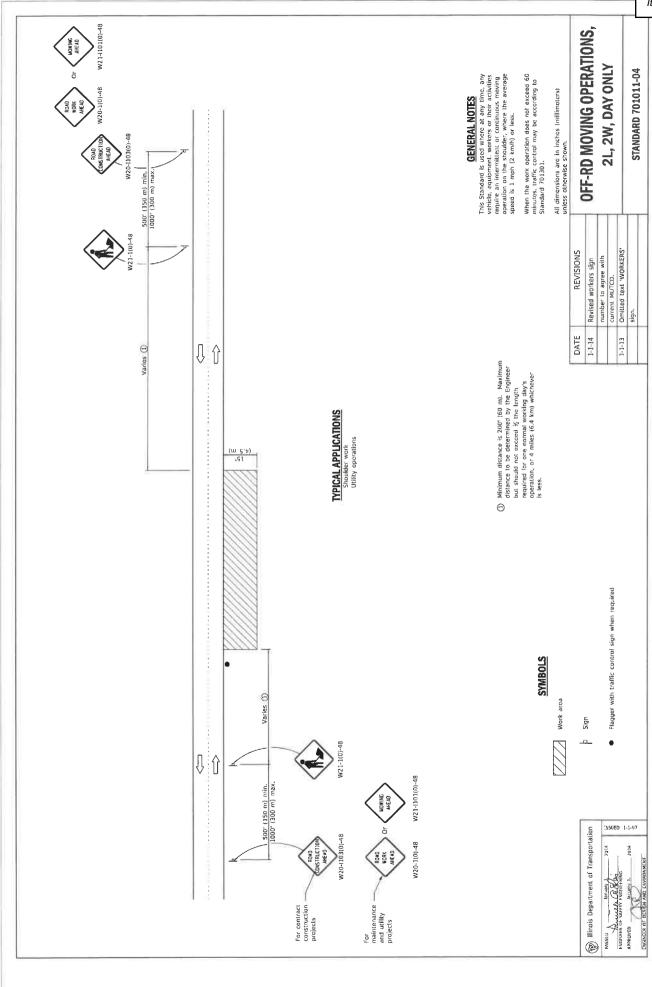


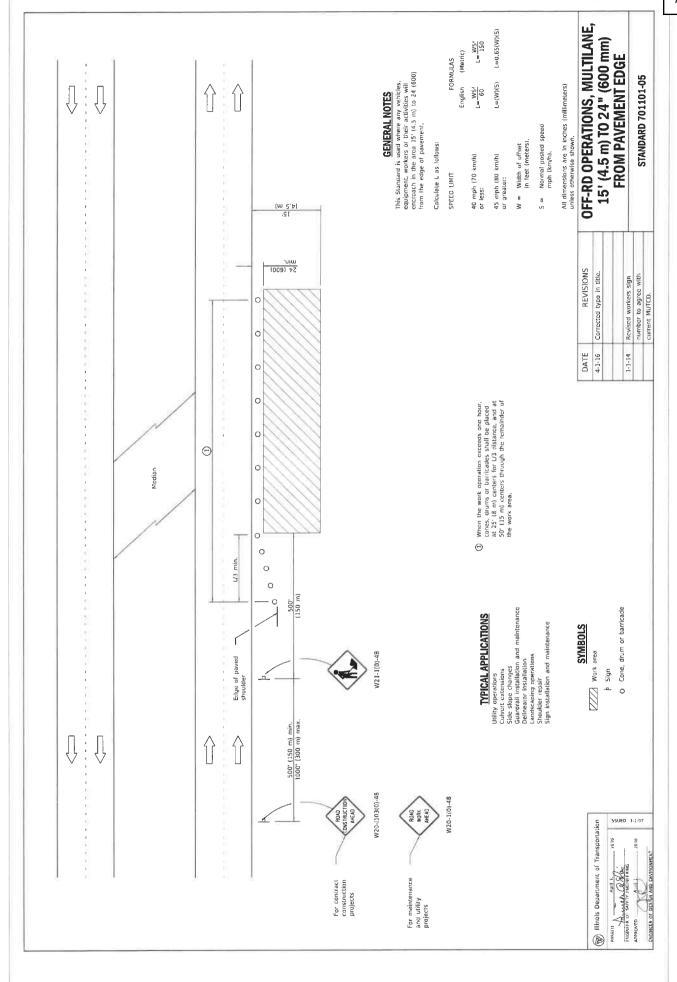


STANDARD DRAWINGS

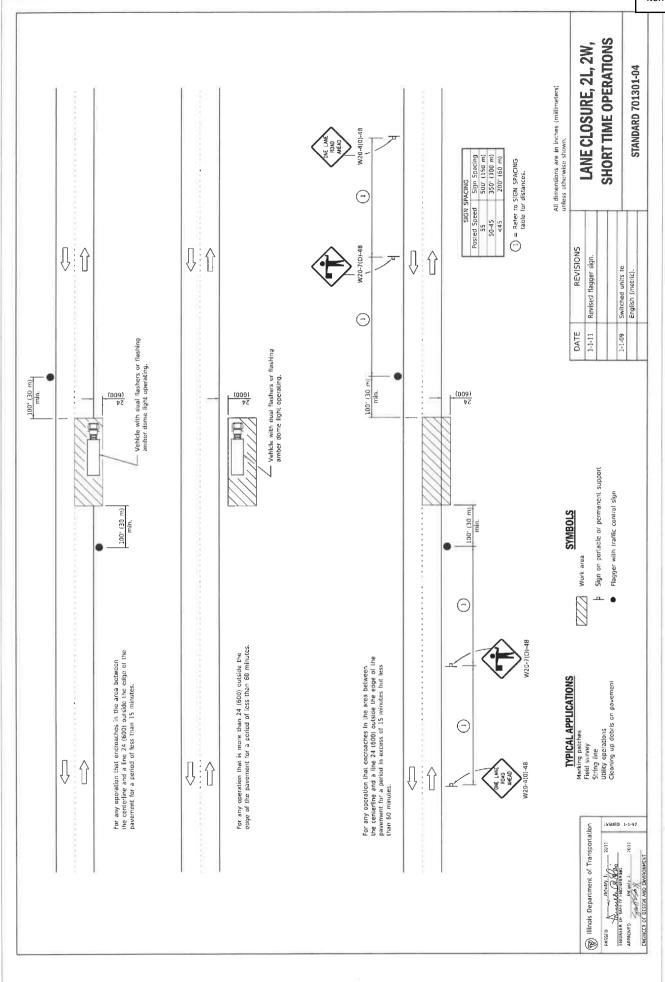


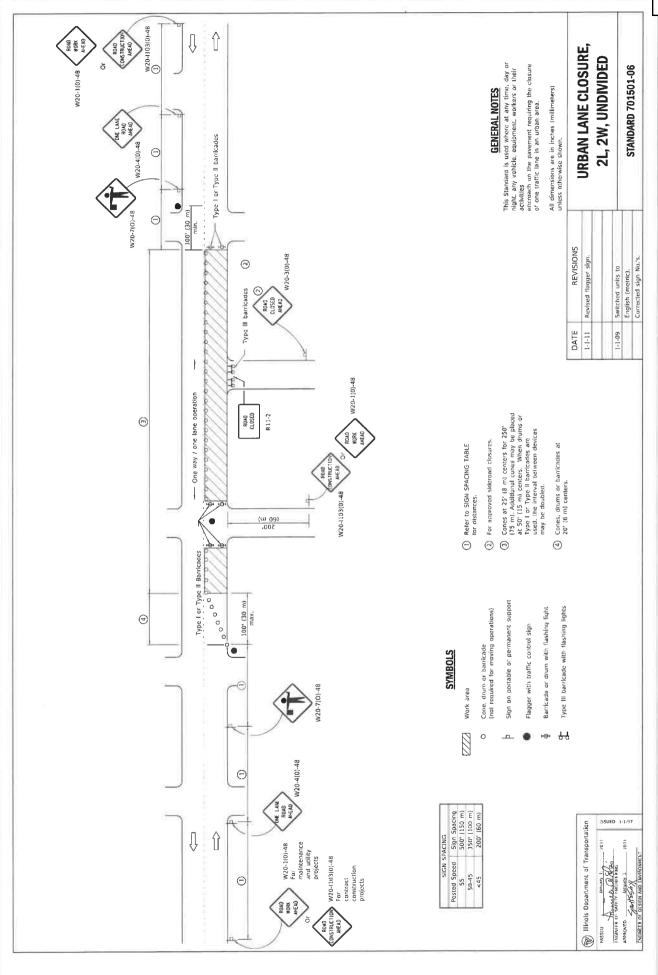


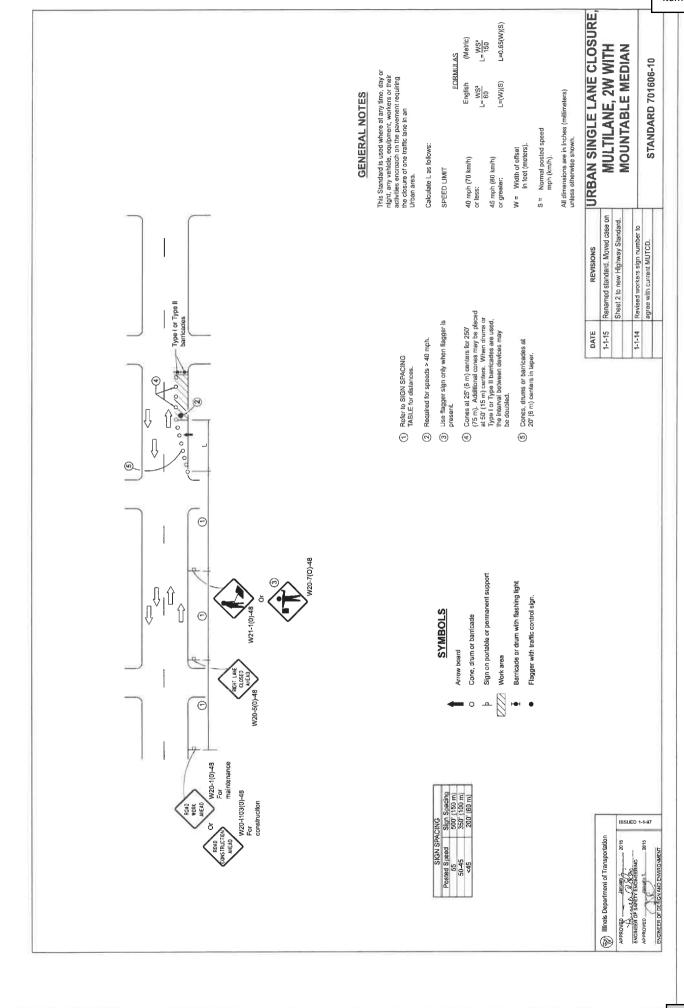


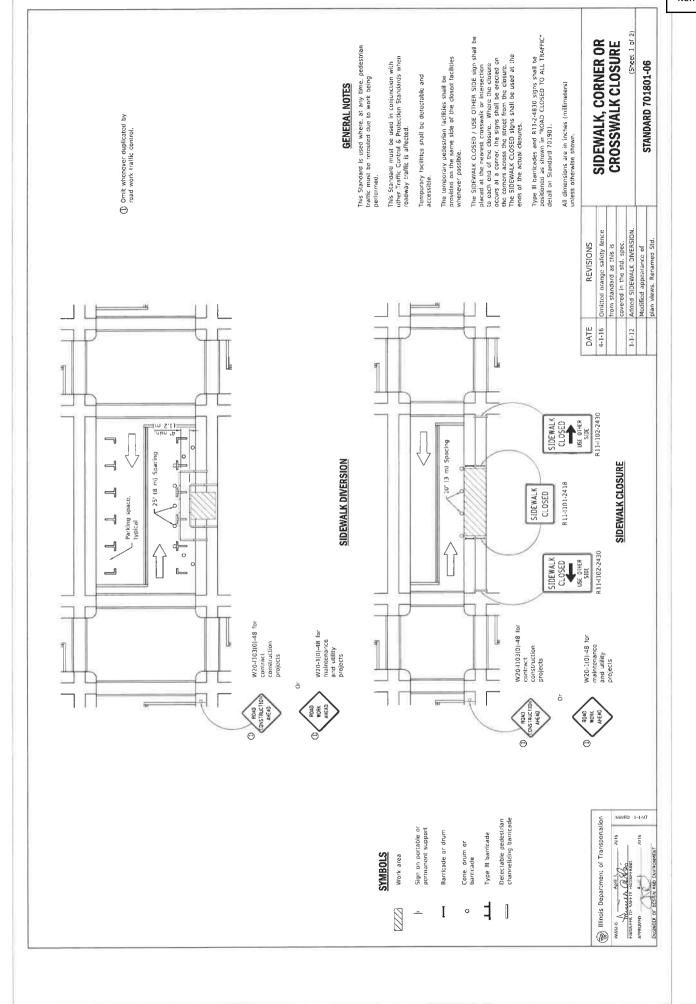


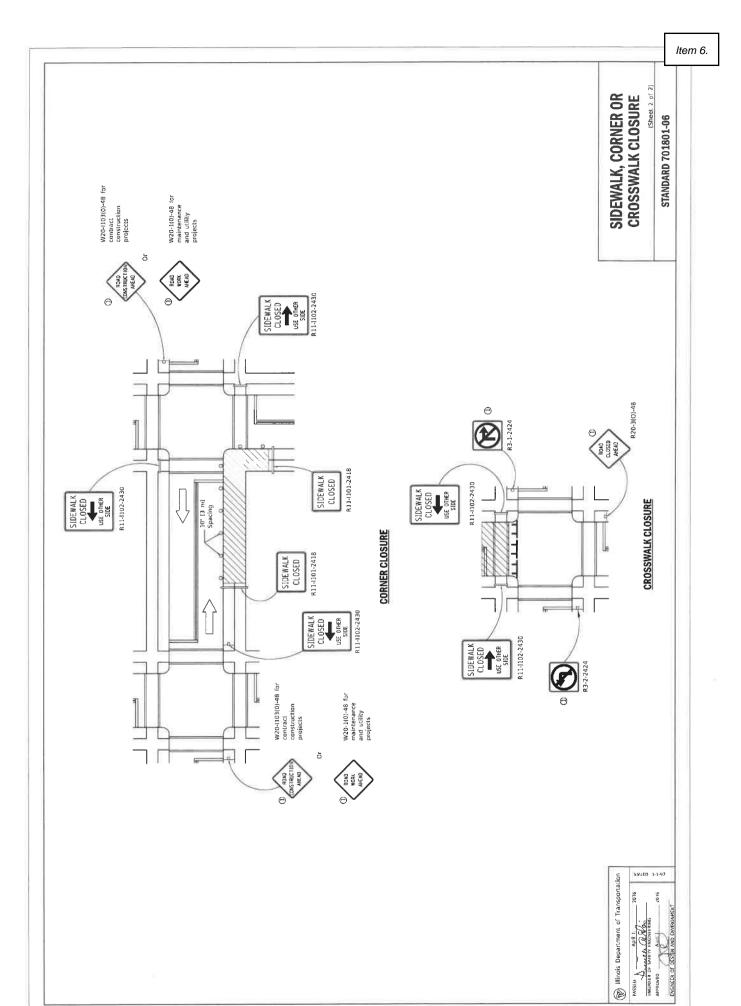


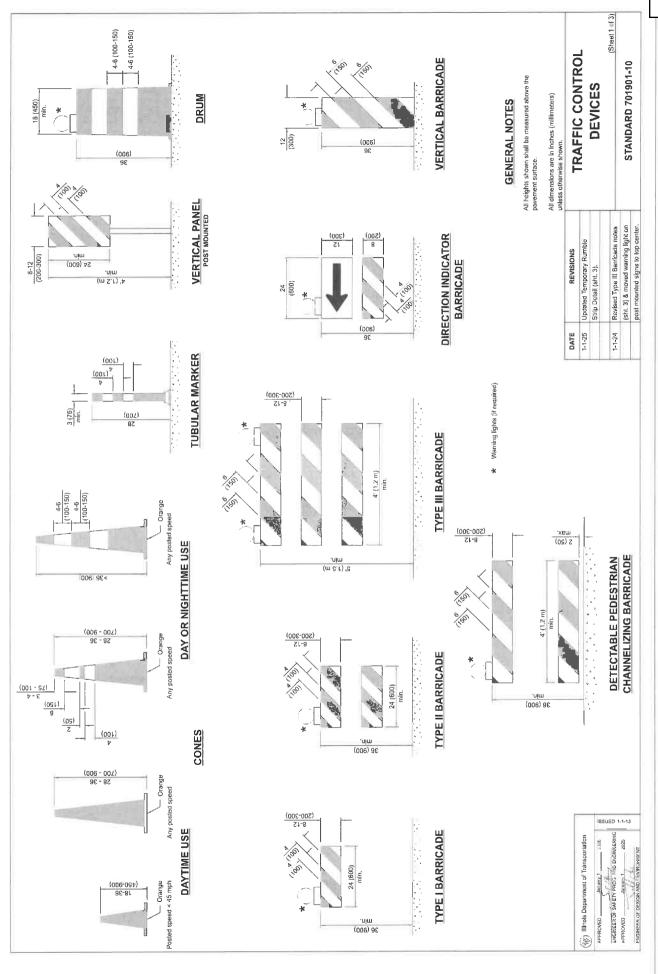


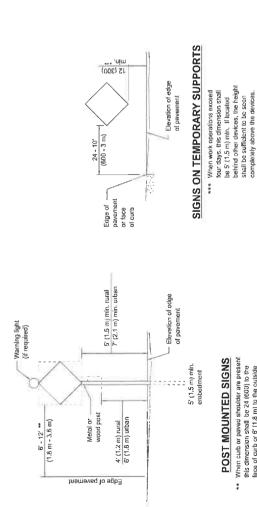












- 18x18 (450x450) Orange flags SIGN SPECIFIED)

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

This signing is required for all projects 2 miles (3200 m) or more in length.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-

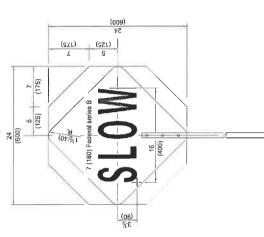
WORK LIMIT SIGNING

END CONSTRUCTION

ROAD CONSTRUCTION NEXT X MILES G20-1104(0)-6036

G20-I105(0)-6024

HIGH LEVEL WARNING DEVICE

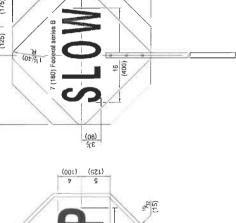


8 (200) Federal series C

WIDTH

MAX

When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder. POST MOUNTED SIGNS



MILES

×

AHEAD

FLAGGER TRAFFIC CONTROL SIGN

REVERSE SIDE

FRONT SIDE

'7 - '8 (m 1.S - m 8.t)

WIDTH RESTRICTION SIGN

W12-1103-4848

XX'-XX" width and X miles are variable.

R10-I108p-3618 **** W21-III5(0)-3618 R2-1106p-3618 R2-1-3648 Sign assembly as shown on Standards or as allowed by District Operations. SXXX FINE MINIMUM PHOTO ENFORCED SPEED WORK ⊥ШП

G20-1103-6036 WORK ZONE END

This sign shall be used when the above sign assembly is used. SPEED LIMIT

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-1108p shall only be used along roadways under the juristiction of the State.

TRAFFIC CONTROL DEVICES

STANDARD 701901-10

(Sheet 2 of 3)

ENGINEER OF SAFETY PRO 0 ENGINEERING

5025

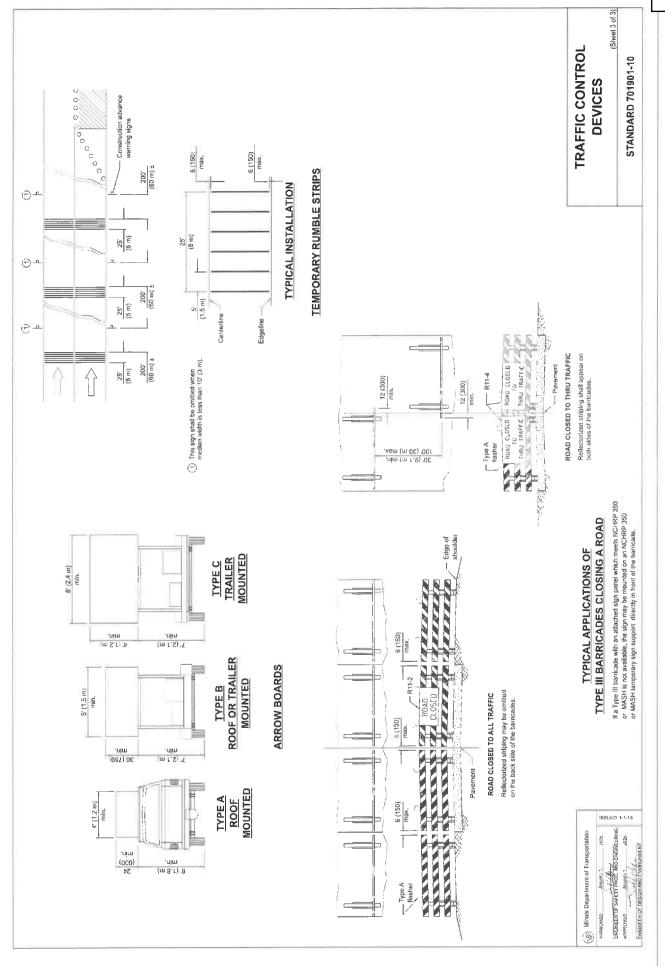
APPROVED January 1 20
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TO SHARE THE SHARE THE

(R) Illinois Department of Transportation





Agenda Memo

Crest Hill, IL

Meeting Date: January 20, 2025

Submitter: Ronald J Wiedeman

Department: Engineering

Agenda Item: A resolution approving a construction agreement for Ludwig Water Main

Replacement from Center to Cora by and between the City of Crest Hill, Will County

Illinois and Len Cox & Sones Excavating.

Summary: Per a request from public works the section of water main along Ludwig from Center to Cora has been requested to be replaced due to the 6 water main breaks along this section of existing water main with four of them due to the BL Duke fire. A plan sheet showing the proposed work was sent out to four (4) locally qualified contractors to provide a cost to replace the water main along Ludwig from Center to Cora.

All four (4) local prequalified contractors (4) submitted quotes for this work. The quotes were delivered to the Engineering Department by 4:00 PM local time on Wednesday, November 20, 2024. The following is a list of the bids received:

Results

1.	Len Cox & Sons Excavating.	\$119,000.00
2.	Construction by Camco, Inc.	\$147,793.25
3.	J Russ and Company Inc.	\$173,243.02
4.	Airy's Inc.	\$203,730.00

I have reviewed the quotes and found them to be correct and in order, and I feel that the quotes do reflect the market as it exists today.

Recommended Council Action: A resolution approving a construction agreement for Ludwig Water Main Replacement from Center to Cora by and between the City of Crest Hill, Will County Illinois and Len Cox & Sones Excavating.

Financial Impact:

Funding Source: Water Fund

Budgeted Amount: \$4,900,000.00

Cost: \$119,000

Total Budget amount obligated to date including this work: \$3,553,519.52

Attachments:

Bid Tab-Ludwig

Resolution Ludwig-Len Cox

Ludwig Ave Water Main Proposal 11-20-2024

Ludwig-Center to Cora Emergency Water Main Replacement

<u>Contractor</u>	Bid Amount	<u>Ranking</u>
Construction by Camco, Inc.	\$147,793.25	2
Airy's Inc.	\$203,730.00	4
J. Russ and Company, Inc.	\$173,243.02	3
Len Cox & Sons Excavating	\$119,000.00	1

RESOLUTION NO.	
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A RESOLUTION APPROVING A CONSTRUCTION AGREEMENT FOR LUDWIG WATER MAIN REPLACEMENT FROM CENTER TO CORA BY AND BETWEEN THE CITY OF CREST HILL, WILL COUNTY, ILLINOIS AND LEN COX & SONS EXCAVATING

WHEREAS, the Corporate Authorities of the City of Crest Hill, Will County, Illinois, have the authority to adopt resolutions and to promulgate rules and regulations that pertain to the City's government and affairs and protect the public health and, safety, and welfare of its citizens; and

WHEREAS, pursuant to Section 2-2-12 of the Illinois Municipal Code (65 ILCS 5/2-2-12), the City Council possesses the authority to enter into contracts that serve the legitimate corporate purposes of the City; and

WHEREAS, Len Cox and Sons Excavating (the "COMPANY"), is an entity that is in the business of providing Construction Services, for the Ludwig Water Main Replacement from Center to Cora (the "Services"); and

WHEREAS, the City Council desires to engage the Company to provide the Services and the Company is ready, willing to perform the Services for the City; and

WHEREAS, City Staff have negotiated an AGREEMENT for Ludwig Water Main Replacement from Center to Cora (the "Agreement") with the Company for the purposes of engaging the Company to perform the Construction Services (a copy of the Agreement is attached hereto as Exhibit A and fully incorporated herein); and

WHEREAS, the Staff and City Council has reviewed the Agreement and determined that the conditions, terms, and provisions of the Agreement are fair, reasonable, and acceptable to the City; and

WHEREAS, the City Council has determined that it is in the best interest of the City and its citizens to enter into the Agreement with the Company.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Crest Hill, Illinois, pursuant to its statuary authority, as follows:

SECTION 1: PREAMBLE. The City Council hereby finds that all of the recitals contained in the parable to this Resolution are true, correct and complete and are hereby incorporated by reference hereto and made part hereof.

SECTION 2: AGREEMENT APPROVED. The City Council hereby finds and declares that the conditions, terms, and provisions of this Agreement (Exhibit A) in the amount of \$119,000.00 are fair, reasonable, and acceptable to the City and that the same is hereby approved in form and

substance. Therefore, the City Council hereby authorizes and directs the Mayor to execute and deliver, and the Clerk to attest, the Agreement, and further to take any and all other actions, including without limitation the execution and delivery of any and all documents, necessary and appropriate to effectuate the intent of this Resolution, which is to enter into the Agreement with the Company.

SECTION 3: SEVERABILITY. If any section, paragraph, clause or provisions of this Resolution is held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any other provision of this Resolution.

SECTION 4: REPEALER. All ordinances, resolutions or orders, or parts thereof, which conflict with the provisions of this Resolution, are to the extent of such conflict herby repealed.

SECTION 5: EFFECTIVE DATE. This Resolution shall be in full force and effect immediately upon its passage and publication according to law.

[Intentionally Blank]

PASSED THIS 13TH DAY JANUARY, 2025.

	Aye	Nay	Absent	Abstain
Alderman Scott Dyke				
Alderwoman Jennifer Methvin				
Alderwoman Claudia Gazal				
Alderman Darrell Jefferson				
Alderperson Tina Oberlin				
Alderman Mark Cipiti				
Alderman Nate Albert				
Alderman Joe Kubal				
Mayor Raymond R. Soliman				
APPROVED THIS 13TH DAY OF JAN	UARY 2025.			
Raymond R. Soliman, Mayor				
ATTEST:				
Christine Vershav-Hall. City Clerk				

EXHIBIT A



Proposal

Job: Ludwig Avenue Water Main Repair/Replacement

Due Date/Time: November 20, 2024 @ 4:00pm

Owner: City of Crest Hill

Addendums: #1/REVISED PRINT EMAILED

Item # Description	Quan.	<u>Unit</u>	
1 STAKING/LAYOUT	1	LS	
2 PAVEMENT REMOVAL	275	SY	
3 CLASS D PATCHING, 6"	275	SY	
4 GRANULAR TRNECH BACKFILL, CA/7	450	CY	
5 DUCTILE IRON PIPE, 8"	400	LF	
6 8"X6" DUCTILE IRON REDUCER	1	EA	
7 8" 45 DEGREE BENDS WITH MEGA LUGS	4	EA	
8 8" VALVE WITH BOX AND STABILIZER	1	EA	
9 REMOVE CROSS	1	EA	
10 TESTING/CHLORINATING	1	LS	
11 TRAFFIC CONTROL & MOBILIZATION	1	LS	
GRAND TOTAL			\$119,000.00

** Estimate does not include the following (unless otherwise stated):

Inspection Fees, Rock Excavation, Engineered As-Builts,
Concrete Sidewalks or Curbs, Lime Stabilization, Turf Restoration,
Fees for Permits, Payment and/or Performance Bonds, Water Service Connections,
CCDD Sampling or Testing, QC/QA,or Well Point Dewatering.

Jason T. Cox - Partn

November 20, 2024

Date

Accepted By _	Date:

Ludwig Ave Water Main Replacement, Crest Hill, 11-20-24 11/20/2024 1 of 1

Attest:		
Allesi		

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Agenda Memo





Meeting Date: January 20, 2025

Submitter: Ronald J Wiedeman

Department: Engineering

Agenda Item: Resolution approving an engagement letter By and Between the city of Crest Hill,

Will County, Illinois and Chapman and Cutler, LLP for funding through the Water Pollution Control Loan Program as administered by the IEPA for the Capital projects required for the city's switch to Lake Michigan Water Supply for a not to exceed of

\$20,000.00

Summary: As part of the process to secure funding for the Capital projects required for the city's switch to Lake Michigan Water Supply, the city will need to engage Chapman and Cutler as out bond council to secure funding through the Water Pollution Control Loan Program as administered by the IEPA. Chapman and Cutler have done previous work with the city when using this funding stream.

Recommended Council Action: Resolution approving an engagement letter By and Between the city of Crest Hill, Will County, Illinois and Chapman and Cutler, LLP for funding through the Water Pollution Control Loan Program as administered by the IEPA for the Capital projects required for the city's switch to Lake Michigan Water Supply for a not to exceed of \$20,000.00

Financial Impact:

Funding Source: Water Fund Budgeted Amount: \$1,025,000

Cost: 20,000.00

Amount authorized to date in 2025 budget including the above is \$989,269.00

Attachments:

Draft Res. With Ch. Cutler Eng Ltr Exhibit

RESOLUTION _____

A RESOLUTION APPROVING AN ENGAGEMENT LETTER BY AND BETWEEN THE CITY OF CREST HILL, WILL COUNTY, ILLINOIS, AND CHAPMAN AND CUTLER, LLP

WHEREAS, the Corporate Authorities of the City of Crest Hill, Will County, Illinois, have the authority to adopt resolutions and to promulgate rules and regulations that pertain to the City's government and affairs and protect the public health, safety, and welfare of its citizens; and

WHEREAS, pursuant to Section 2-2-12 of the Illinois Municipal Code (65 ILCS 5/2-2-12), the City Council possesses the authority to enter into contracts that serve the legitimate corporate purposes of the City; and

WHEREAS, Chapman and Cutler, LLP (the "Company"), is in the business of, *inter alia*.

providing legal services in connection with the issuance of revenue bonds (the "Services"); and

WHEREAS, the City Council desires to engage the Company to provide the Services and the Company is ready, willing, and able to perform the Services for the City; and

WHEREAS, the Company has presented the City with an Engagement Letter (the "Agreement") for the purposes of engaging the Company to perform the Services (a copy of the Agreement is attached hereto as Exhibit A and fully incorporated herein); and

WHEREAS, the City Council has reviewed the Agreement and determined that the conditions, terms, and provisions of the Agreement are fair, reasonable, and acceptable to the City; and

WHEREAS, the City Council has determined that it is in the best interests of the City and its citizens to enter into the Agreement with the Company.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Crest Hill, Illinois, pursuant to its statutory authority, as follows:

SECTION 1: PREAMBLE. The City Council hereby finds that all the recitals contained in the preamble to this Resolution are true, correct and complete and are hereby incorporated by reference thereto and made a part hereof.

SECTION 2: AGREEMENT APPROVED. The City Council hereby finds and declares that the conditions, terms, and provisions of the Agreement (Exhibit A) are fair, reasonable, and acceptable to the City and that the same is hereby approved in form and substance. Therefore, the City Council hereby authorizes and directs the Mayor to execute and deliver, and the Clerk to attest, the Agreement, and further to take any and all other actions, including without limitation the execution and delivery of any and all documents necessary and appropriate to effectuate the intent of this Resolution, which is to enter into the Agreement with the Company.

SECTION 3: SEVERABILITY. If any section, paragraph, clause or provision of this Resolution is held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any other provision of this Resolution.

SECTION 4: REPEALER. All ordinances, resolutions or orders, or parts thereof, which conflict with the provisions of this Resolution, are to the extent of such conflict hereby repealed.

SECTION 5: EFFECTIVE DATE. This Resolution shall be in full force and effect immediately upon its passage and publication according to law.

[Intentionally Blank]

PASSED THIS 20^{TH} DAY OF JANUARY, 2025.

	Aye	Nay	Absent	Abstain
Alderwoman Jennifer Methvin				
Alderman Scott Dyke			\$ 	
Alderwoman Claudia Gazal				
Alderman Darrell Jefferson				· · · · · · · · · · · · · · · · · · ·
Alderperson Tina Oberlin				
Alderman Mark Cipiti				
Alderman Nate Albert				
Alderman Joe Kubal				·
Mayor Raymond R. Soliman				
ä	Christin	ne Vershav-I	Hall, City Cle	rk
	0.11.0.1		,,	
APPROVED THIS 20 TH DAY OF JANUA	RY, 2025.			
Raymond R. Soliman, Mayor				

EXHIBIT A (Engagement Letter)



Lawrence E. White

Chapman and Cutler LLP 320 South Canal Street, 27th Floor Chicago, Illinois 60606

T 312.845.3426 F 312.516.3926 white@chapman.com

January 10, 2025

Mr. Tony Graff Interim City Administrator City of Crest Hill 20600 City Center Boulevard Crest Hill, Illinois 60403

CHAPMAN

Focused on Finance

Re:

City of Crest Hill, Will County, Illinois (the "City")
Waterworks and Sewerage System Revenue Bonds, IEPA, Series 2025

Dear Tony:

We are pleased to provide an engagement letter for our services as bond counsel for the bonds in reference (the "Bonds"). For convenience and clarity, we may refer to the City in its corporate capacity and to you, the City officers (including the governing body of the City) and employees and general and special counsel to the City, collectively as "you" (or the possessive "your"). You have advised us that the purpose of the issuance of the Bonds, briefly stated, is to provide for improvements to the waterworks and sewerage system of the City. You are retaining us for the limited purpose of rendering our customary approving legal opinion as described in detail below.

A. DESCRIPTION OF SERVICES

As Bond Counsel, we will work with you and the following persons and firms: the underwriters or other bond purchasers who purchase the Bonds from the City (all of whom are referred to as the "Bond Purchasers"), counsel for the Bond Purchasers, financial advisors, trustee, paying agent and bond registrar and their designated counsel (you and all of the foregoing persons or firms, collectively, the "Participants"). We intend to undertake each of the following (the "Services") as necessary:

- 1. Review relevant Illinois law, including pending legislation and other recent developments, relating to the legal status and powers of the City or otherwise relating to the issuance of the Bonds.
- 2. Obtain information about the Bond transaction and the nature and use of the facilities or purposes to be financed or, for any portion of the Bonds to be issued for refunding

Mr. Tony Graff January 10, 2025 Page 2

purposes, the facilities or purposes financed with the proceeds of the bonds to be refunded (the "Project").

- 3. Review the proposed timetable and consult with the Participants as to the issuance of the Bonds in accordance with the timetable.
- 4. Prepare or review major Bond documents, including tax compliance certificates, review the bond purchase agreement, if applicable, and, at your request, draft descriptions of the documents which we have drafted. We understand that the Bonds will be purchased by the Illinois Environmental Protection Agency (the "Purchaser") and that the Purchaser will independently perform its due diligence investigation with respect to the Bonds.
- 5. Prepare or review all pertinent proceedings to be considered by the governing body of the City; confirm that the necessary quorum, meeting and notice requirements are contained in the proceedings and draft pertinent excerpts of minutes of the meetings relating to the financing.
- 6. Attend or host such drafting sessions and other conferences as may be necessary, including a preclosing, if needed, and closing; and prepare and coordinate the distribution and execution of closing documents and certificates, opinions and document transcripts.
- 7. Render our legal opinion regarding the validity of the Bonds and the source of payment for the Bonds, which opinion (the "Bond Opinion") will be delivered in written form on the date the Bonds are exchanged for their purchase price (the "Closing"). The Bond Opinion will be based on facts and law existing as of its date. Please see the discussion below at Part D. Please note that our opinion represents our legal judgment based upon our review of the law and the facts so supplied to us that we deem relevant and is not a guarantee of a result.

B. LIMITATIONS; SERVICES WE DO NOT PROVIDE

Our Services as Bond Counsel are limited as stated above. Consequently, unless otherwise agreed pursuant to a separate engagement letter, our Services *do not* include:

- 1. Giving any advice, opinion or representation as to the financial feasibility or the fiscal prudence of issuing the Bonds, including, without limitation, the undertaking of the Project, the investment of Bond proceeds, the making of any investigation of or the expression of any view as to the creditworthiness of the City, of the Project or of the Bonds or the form, content, adequacy or correctness of the financial statements of the City. We will not offer you financial advice in any capacity beyond that constituting services of a traditionally legal nature.
- 2. Except as described in Paragraph (A)(5) above, assisting in the preparation or review of an official statement or any other disclosure document with respect to the Bonds

Mr. Tony Graff January 10, 2025 Page 3

(which may be referred to as the "Official Statement") or performing an independent investigation to determine the accuracy, completeness or sufficiency of the Official Statement or rendering any advice, view or comfort that the Official Statement does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements contained therein, in light of the circumstances under which they were made, not misleading. Please see our comments below at Paragraphs (D)(5) and (D)(6).

- 3. Independently establishing the veracity of certifications and representations of you or the other Participants. For example, we will not review the data available on the Electronic Municipal Market Access system website created by the Municipal Securities Rulemaking Board (and commonly known as "EMMA") to verify the information relating to the Bonds to be provided by the Bond Purchasers, and we will not undertake a review of your website to establish that information contained corresponds to that which you provide independently in your certificates or other transaction documents.
- 4. Supervising any state, county or local filing of any proceedings held by the governing body of the City incidental to the Bonds.
- 5. Preparing any of the following requests for tax rulings from the Internal Revenue Service (the "IRS"), blue sky or investment surveys with respect to the Bonds, state legislative amendments or pursuing test cases or other litigation.
- 6. Opining on securities laws compliance or as to the continuing disclosure undertaking pertaining to the Bonds; and, after the execution and delivery of the Bonds, providing advice as to any Securities and Exchange Commission investigations or concerning any actions necessary to assure compliance with any continuing disclosure undertaking.
 - 7. Any other services not specifically set forth above in Part A.

C. ATTORNEY-CLIENT RELATIONSHIP; REPRESENTATION OF OTHERS

Upon execution of this engagement letter, the City will be our client, and an attorney-client relationship will exist between us. However, our Services as Bond Counsel are limited as set forth in this engagement letter, and your execution of this engagement letter will constitute an acknowledgment of those limitations. Also please note that the attorney-client privilege, normally applicable under state law, may be diminished or non-existent for written advice delivered with respect to Federal tax law matters.

This engagement letter will also serve to give you express written notice that from time to time we represent in a variety of capacities and consult with most underwriters, investment bankers, credit enhancers such as bond insurers or issuers of letters of credit, ratings agencies,

Mr. Tony Graff January 10, 2025 Page 4

investment providers, brokers of financial products, financial advisors, banks and other financial institutions and other persons who participate in the public finance market on a wide range of issues. Prior to the execution of this engagement letter we may have consulted with one or more of such firms regarding the Bonds including, specifically, the Bond Purchasers. We are advising you, and you understand that the City consents to our representation of it in this matter, notwithstanding such consultations, and even though parties whose interests are or may be adverse to the City in this transaction are clients in other unrelated matters. Your acceptance of our services constitutes consent to these other engagements. Neither our representation of the City nor such additional relationships or prior consultations will affect, however, our responsibility to render an objective Bond Opinion.

Your consent does not extend to any conflict that is not subject to waiver under applicable Rules of Professional Conduct, or to any matter that involves the assertion of a claim against the City or the defense of a claim asserted by the City. In addition, we agree that we will not use any confidential non-public information received from you in connection with this engagement to your material disadvantage in any matter in which we would be adverse to you.

Further, this engagement letter will also serve to give you express notice that we represent many other municipalities, school districts, park districts, counties, townships, special districts and units of local government both within and outside of the State of Illinois and also the State itself and various of its agencies and authorities (collectively, the "governmental units"). Most but not all of these representations involve bond or other borrowing transactions. We have assumed that there are no controversies pending to which the City is a party and is taking any position which is adverse to any other governmental unit, and you agree to advise us promptly if this assumption is incorrect. In such event, we will advise you if the other governmental unit is our client and, if so, determine what actions are appropriate. Such actions could include seeking waivers from both the City and such other governmental unit or withdrawal from representation.

We anticipate that the City will have its general or special counsel available as needed to provide advocacy in the Bond transaction and has had the opportunity to consult with such counsel concerning the conflict consents and other provisions of this letter; and that other Participants will retain such counsel as they deem necessary and appropriate to represent their interests.

D. OTHER TERMS OF THE ENGAGEMENT; CERTAIN OF YOUR UNDERTAKINGS

Please note our understanding with respect to this engagement and your role in connection with the issuance of the Bonds.

Mr. Tony Graff January 10, 2025 Page 5

- 1. In rendering the Bond Opinion and in performing any other Services hereunder, we will rely upon the certified proceedings and other certifications you and other persons furnish us. Other than as we may determine as appropriate to rendering the Bond Opinion, we are not engaged and will not provide services intended to verify the truth or accuracy of these proceedings or certifications. We do not ordinarily attend meetings of the governing body of the City at which proceedings related to the Bonds are discussed or passed unless special circumstances require our attendance.
- 2. The factual representations contained in those documents which are prepared by us, and the factual representations which may also be contained in any other documents that are furnished to us by you are essential for and provide the basis for our conclusions that there is compliance with State law requirements for the issue and sale of valid bonds. Accordingly, it is important for you to read and understand the documents we provide to you because you will be confirming the truth, accuracy and completeness of matters contained in those documents at the issuance of the Bonds.
- 3. If the documents contain incorrect or incomplete factual statements, you must call those to our attention. We are always happy to discuss the content or meaning of the transaction documents with you. Any untruth, inaccuracy or incompleteness may have adverse consequences affecting either the tax exemption of interest paid on the Bonds or the adequacy of disclosures made in the Official Statement under the State and Federal securities laws, with resulting potential liability for you. During the course of this engagement, we will further assume and rely on you to provide us with complete and timely information on all developments pertaining to any aspect of the Bonds and their security. We understand that you will cooperate with us in this regard.
- 4. You should carefully review all of the representations you are making in the transaction documents. We are available and encourage you to consult with us for explanations as to what is intended in these documents. To the extent that the facts and representations stated in the documents we provide to you appear reasonable to us, and are not corrected by you, we are then relying upon your signed certifications for their truth, accuracy and completeness.
- 5. Issuing the Bonds as "securities" under State and Federal securities laws and on a tax-exempt basis is a serious undertaking. As the issuer of the Bonds, the City is obligated under the State and Federal securities laws and the Federal tax laws to disclose all material facts. The City's lawyers, financial advisers and bankers can assist the City in fulfilling these duties, but the City in its corporate capacity, including your knowledge, has the collective knowledge of the facts pertinent to the transaction and the ultimate responsibility for the presentation and disclosure of the relevant information.

Mr. Tony Graff January 10, 2025 Page 6

- 6. As noted, the members of the governing body of the City also have duties under the State and Federal securities and tax laws with respect to these matters and should be knowledgeable as to the underlying factual basis for the bond issue size, use of proceeds and related matters.
- 7. We are also concerned about the adoption by the City of the gift ban provisions of the State Officials and Employees Ethics Act, any special ethics or gift ban ordinance, resolution, bylaw or code provision, any lobbyist registration ordinance, resolution, bylaw or code provision or any special provision of law or ordinance, resolution, bylaw or code provision relating to disqualification of counsel for any reason. We are aware of the provisions of the State Officials and Employees Ethics Act and will assume that you are aware of these provisions as well and that the City has adopted proceedings that are only as restrictive as such Act. However, if the City has stricter provisions than appear in such Act or has adopted such other special ethics or lobbyist provisions, we assume and are relying upon you to advise us of same.

E. FEES

As is customary, we will bill our fees as Bond Counsel on a transactional basis instead of hourly. Disbursements and other non-fee charges are included in our fees for professional services. Factors which affect our billing include: (a) the amount of the Bonds; (b) an estimate of the time necessary to do the work; (c) the complexity of the issue (number of parties, timetable, type of financing, legal issues and so forth); (d) recognition of the partially contingent nature of our fee, since it is customary that in the case no financing is ever completed, we render a greatly reduced statement of charges; and (e) a recognition that we carry the time for services rendered on our books until a financing is completed, rather than billing monthly or quarterly.

Based upon our current understanding of the terms, structure, size and schedule of the proposed financing, the duties we will undertake pursuant to this engagement letter, the time we estimate will be necessary to effectuate the transaction and the responsibilities we will assume, we expect that our fee will be \$20,000.

Our statement of charges is customarily rendered and paid at Closing, or in some instances upon or shortly after delivery of the bond transcripts; we generally do not submit any statement for fees prior to the Closing, except in instances where there is a substantial delay from the expected timetable. In such instances, we reserve the right to present an interim statement of charges. If, for any reason, the Bonds are not issued or are issued without the rendition of our Bond Opinion as bond counsel, or our services are otherwise terminated, we expect to negotiate with you a mutually agreeable compensation.

CHAPMAN Focused on Finance

Mr. Tony Graff January 10, 2025 Page 7

The undersigned will be the attorney primarily responsible for the firm's services on this Bond issue, with assistance as needed from other members of our bond, securities and tax departments.

F. END OF ENGAGEMENT AND POST-ENGAGEMENT; RECORDS

Our representation of the City and the attorney-client relationship created by this engagement letter will be concluded upon the issuance of the Bonds. Nevertheless, subsequent to the Closing, we will prepare and provide the Participants a bond transcript in a CD-ROM format pertaining to the Bonds.

Please note that you are engaging us as special counsel to provide legal services in connection with a specific matter. After the engagement, changes may occur in the applicable laws or regulations, or interpretations of those laws or regulations by the courts or governmental agencies, that could have an impact on your future rights and liabilities. Unless you engage us specifically to provide additional services or advice on issues arising from this matter, we have no continuing obligation to advise you with respect to future legal developments.

This will be true even though as a matter of courtesy we may from time to time provide you with information or newsletters about current developments that we think may be of interest to you. While we would be pleased to represent you in the future pursuant to a new engagement agreement, courtesy communications about developments in the law and other matters of mutual interest are not indications that we have considered the individual circumstances that may affect your rights or have undertaken to represent you or provide legal services.

At your request, to be made at or prior to Closing, any other papers and property provided by the City will be promptly returned to you upon receipt of payment for our outstanding fees and client disbursements. All other materials shall thereupon constitute our own files and property, and these materials, including lawyer work product pertaining to the transaction, will be retained or discarded by us at our sole discretion. You also agree with respect to any documents or information relating to our representation of you in any matter which have been lawfully disclosed to the public in any manner, such as by posting on EMMA, your website, newspaper publications, filings with a County Clerk or Recorder or with the Secretary of State, or otherwise, that we are permitted to make such documents or information available to other persons in our reasonable discretion. Such documents might include (without limitation) legal opinions, official statements, resolutions or ordinances, or like documents as assembled and made public in a governmental securities offering.

In addition, we employ cloud-based applications to transmit and to store some or all information concerning this engagement, including the confidential or personal information you provide us. This means that the information you provide with respect to this engagement will

CHAPMANFocused on Finance

Mr. Tony Graff January 10, 2025 Page 8

not necessarily be stored within our firm or our network, but rather on a third-party's servers, which is commonly referred to as being stored in the cloud. We have reviewed the terms of use, policies, procedures and security practices of each cloud provider we use and your information will be encrypted while in transit to that third party's servers and while at rest in the cloud. While we cannot provide any type of guarantee about the security of the information stored in the cloud, we have concluded the respective cloud providers' practices are compatible with our professional obligations regarding confidential treatment of your information. If you have any concerns about the cloud applications we use please contact us and we will be glad to discuss them further with you.

CHAPMANFocused on Finance

Mr. Tony Graff January 10, 2025 Page 9

G. YOUR SIGNATURE REQUIRED

If the foregoing terms are acceptable to you, please so indicate by returning the enclosed copy of this engagement letter dated and signed by an authorized officer not later than 30 days after the date of this letter, retaining the original for your files. Please note that if we perform Services prior to your executing this engagement letter, this engagement letter shall be effective as of the date we have begun rendering the Services. We will provide copies of this letter to certain of the Participants to provide them with an understanding of our role. We look forward to working with you.

Very truly yours,

CHAPMAN AND CUTLER LLP

Lawrence E. White

Accepted and Approved:

CITY OF CREST HILL, WILL COUNTY, ILLINOIS

By:_______

Title:______

Date: ______, 2025

LEW/SGP

Enclosure

Agenda Memo



Crest Hill, IL

Meeting Date: | January 20, 2025

Submitter: Raymond R. Soliman, Mayor

Department: Mayor's Office

Agenda Item: Resolution Honoring Jason Opiola on his Retirement as Deputy Chief of the

Crest Hill Police Department

Summary Jason Opiola will be at the January 20th city council meeting to accept a Resolution honoring Jason Opiola on his retirement as Deputy Chief of the City of Crest Hill Police Department.

Recommended Council Action:

Financial Impact:

Funding Source:

Budgeted Amount:

Cost:

Attachments:

RESOLUTION # 1276____

A RESOLUTION HONORING JASON F. OPIOLA ON HIS RETIREMENT AS DEPUTY CHIEF OF THE CITY OF CREST HILL POLICE DEPARTMENT

WHEREAS, Jason F. Opiola began his law enforcement career with the Lansing Police Department in September of 2000, where he graduated from the Police Academy and worked as a Patrol Officer; and

WHEREAS, Jason F. Opiola began his career in September of 2001, as a Patrolman for the City of Crest Hill Police Department, where he also worked as a Field Training Officer, Truck Enforcement Officer, Firearms Instructor, was a member of the Joliet Police Special Operations Squad, a Commander with the Will Grundy Major Crimes Task Force, and served on the board of Will Grundy Major Crimes Task Force as Treasurer; and

WHEREAS, Jason F. Opiola was appointed Deputy Chief of Patrol for the City of Crest Hill Police Department on August 2, 2021 and over the course of 23 years of service has received numerous recognitions, commendations and awards; and

WHEREAS, Jason F. Opiola served the citizens of Crest Hill in addition to being an active member of several boards and organizations, including graduating from the Northwestern University Staff and Command Class, a member and board member of the Will County Police Chief's Association, the Illinois Police Chief Association member, and the International Association of Police Chiefs member; and

WHEREAS, Jason F. Opiola during his tenure as Deputy Chief of Police was instrumental in providing leadership for numerous Department accomplishments, most notably responsible for the Development and Internal procedures to comply with the Safe-T-Act, security system for the newly constructed City Center, the continued participation in the Illinois Traffic Safety Enforcement program, the addition of the yearly mental health screenings and counseling services for Crest Hill Police Officers, and collaborator in the effort to host the first Neighbor's Night Out community event; and

WHEREAS, Jason F. Opiola retired from the City of Crest Hill Police Department on January 3, 2025 and has, during his 23 years of service, protected and secured the safety of all Crest Hill residents.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and City Council of the City of Crest Hill, Will County, Illinois as follows:

Section 1: The Mayor and City Council of the City of Crest Hill wish to express their heartfelt gratitude and profound expression of thanks to Jason F. Opiola for his dedicated years of service to the citizens of Crest Hill.

Section 2: The Mayor and City Council extend their best wishes to Jason F. Opiola for a productive and joyous future and for his continued success in whatever endeavor he chooses.

Section 3: The Crest Hill City Clerk is directed to forward a certified copy of this Resolution to Jason F. Opiola and make the original of this Resolution available to members of the general public during normal business hours at the City of Crest Hill City Clerk's Office.

RESOLVED THIS 20^{TH} DAY OF JANUARY, 2025.
Christine Vershay-Hall, City Clerk
APPROVED THIS 20^{TH} DAY OF JANUARY, 2025.
Raymond R. Soliman, Mayor

Item 10.

Jan 15, 2025 02:26PM

Report Criteria:

Detail report type printed

[Report].Check Issue Date = 12/23/2024,01/01/2025,01/21/2025

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
9	ABeep	128218	ABEEP SERVICE	11/14/2024	655.44	655.44	23578	01/21/2025	1224	01025310
Tota	al 9:				655.44	655.44				
46	Republic Ser	0721-008301	DECEMBER 2024 MON	12/20/2024	117,091.05	117,091.05	23652	01/21/2025	1224	80005300
Tota	al 46:				117,091.05	117,091.05				
82	Vestis	6030366452	UNIFORMS FOR STP	01/01/2025	110.68	110.68	23663	01/21/2025	1224	07085300
		6030366452	UNIFORMS FOR WATE	01/01/2025	59.95	59.95	23663	01/21/2025		
		6030366453	UNIFORMS FOR FLEE	01/01/2025	72.12	72.12	23663	01/21/2025	1224	01075300
		6030366453	UNIFORMS FOR STRE	01/01/2025	104.46	104.46	23663	01/21/2025	1224	
		6030366453	MATS FOR PUBLIC WO	01/01/2025	42.03	42.03	23663	01/21/2025	1224	01045300
		6030366453	RESTROOM SERVICE	01/01/2025	64.50	64.50	23663	01/21/2025	1224	01045300
		6030366453	UNIFORMS FOR BUILD	01/01/2025	90.22	90.22	23663	01/21/2025	1224	01045300
		6030366453	UNIFORMS FOR WATE	01/01/2025	15.71	15.71	23663	01/21/2025	1224	07065300
		6030368823	MATS EAST PLANT	01/08/2025	63.45	63.45	23663	01/21/2025	1224	01045300
		6030368823	UNIFORMS FOR STP	01/08/2025	59.76	59.76	23663	01/21/2025	1224	07085300
		6030368823	UNIFORMS FOR WATE	01/08/2025	34.54	34.54	23663	01/21/2025	1224	07065300
		6030368824	UNIFORMS FOR FLEE	01/08/2025	20.65	20.65	23663	01/21/2025	1224	01075300
		6030368824	UNIFORMS FOR STRE	01/08/2025	168.35	168.35	23663	01/21/2025	1224	01035300
		6030368824	MATS FOR PUBLIC WO	01/08/2025	109.25	109.25	23663	01/21/2025	1224	01045300
		6030368824	RESTROOM SERVICE	01/08/2025	64.50	64.50	23663	01/21/2025	1224	01045300
		6030368824	UNIFORMS FOR BUILD	01/08/2025	12.00	12.00	23663	01/21/2025	1224	01045300
		6030368824	UNIFORMS FOR WATE	01/08/2025	10.15	10.15	23663	01/21/2025	1224	07065300
Tota	al 82:				1,102.32	1,102.32				
112	Accurate Em	AUR2295613	EMPLOYMENT SCREE	01/01/2025	241.16	241.16	23579	01/21/2025	1224	01125300
Tota	al 112:				241.16	241.16				
171	Brent Hasser	December 20	CONSULTNG SERVICE	01/01/2025	2,500.00	2,500.00	23585	01/21/2025	1224	01105300
Tota	al 171:				2,500.00	2,500.00				
187	Christopher	1021//	CH BUSINESSS PARK	01/10/2025	1,900.00	1,900.00	23589	01/21/2025	1994	01035330
107	Christopher		DESIGN HILLCREST W	01/10/2025	5,268.61	5,268.61	23589	01/21/2025		12007602
			PROFESSIONAL SERV	01/10/2025	4,037.00	4,037.00	23589	01/21/2025		13005330
			PARKROSE-PROFESSI	01/10/2025	11,065.00	11,065.00	23589	01/21/2025		12007620
Tota	al 187:				22,270.61	22,270.61				
										
285	Cintas Fire P		QUARTERLY SPRINKL	11/06/2024	422.39	422.39	23590	01/21/2025		01045300
		0F94732803	FIRE EXTINGUISHER I	11/15/2024	242.27	242.27	23590	01/21/2025	1224	01045300
Tota	al 285:				664.66	664.66				
201	City of Joliet	957730	FLEET- FUEL DECEMB	01/08/2025	4,885.79	4,885.79	23591	01/21/2025	1994	01075410
201	Sity Si bollot		FLEET- FUEL DECEMB	01/08/2025	3,900.74	3,900.74	23591	01/21/2025		01075410
			FLEET- FUEL DECEMB	01/08/2025	43.13	43.13		01/21/2025		01075410
		2230							··	· · ·

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
Tota	al 291:				8,829.66	8,829.66				
320	ComEd 9282	December 20	ELECTRIC - VALVE STA	12/26/2024	22.59	22.59	23596	01/21/2025	1224	07065353
Tota	al 320:				22.59	22.59				
323	ComEd 2717	December 20	ELECTRIC 1306-1/2 HA	12/26/2024	26.38	26.38	23594	01/21/2025	1224	07075353
Tota	al 323:				26.38	26.38				
324	ComEd 5197	December 20	0 ROOT BERTA ELECT	12/26/2024	26.38	26.38	23595	01/21/2025	1224	07075353
Tota	al 324:				26.38	26.38				
327	ComEd 2395	December 20	LIFT STATION ELECTR	01/04/2025	255.86	255.86	23593	01/21/2025	1224	07075353
Tota	al 327:				255.86	255.86				
400	D&I Electroni		ALARM SERVICE CALL ALARM SERVICE CALL	12/22/2024 01/01/2025	1,269.00 197.97	1,269.00 197.97	23598 23598	01/21/2025 01/21/2025		01065301 01065301
Tota	al 400:				1,466.97	1,466.97				
451	Dynegy 1266	December 20	WELL #4 ELECTRIC	01/02/2025	2,781.79	2,781.79	23606	01/21/2025	1224	07065353
Tota	al 451:				2,781.79	2,781.79				
452	Dynegy 6760	December 20	EAST PLANT ELECTRI	01/02/2025	11,280.41	11,280.41	23610	01/21/2025	1224	07085353
Tota	al 452:				11,280.41	11,280.41				
453	Dynegy 6635	December 20	WEST PLANT ELECTRI	01/02/2025	13,795.49	13,795.49	23609	01/21/2025	1224	07085353
Tota	al 453:				13,795.49	13,795.49				
454	Dynegy 0817	December 20	WELL #11 ELECTRIC	01/02/2025	3,293.31	3,293.31	23604	01/21/2025	1224	07065353
Tota	al 454:				3,293.31	3,293.31				
455	Dynegy 0098	December 20	WELL #10 ELECTRIC	01/02/2025	4,488.89	4,488.89	23602	01/21/2025	1224	07065353
Tota	al 455:				4,488.89	4,488.89				
457	Dynegy 6385	December 20	WELLS 9 AND 12 ELEC	01/02/2025	715.18	715.18	23608	01/21/2025	1224	07065353
Tota	al 457:				715.18	715.18				
458	Dynegy 0906	December 20	WELL #7 ELECTRIC	01/02/2025	1,920.81	1,920.81	23605	01/21/2025	1224	07065353
Tota	al 458:				1,920.81	1,920.81				
459	Dynegy 1656	December 20	WELL #8 ELECTRIC	01/02/2025	2,980.10	2,980.10	23607	01/21/2025	1224	07065353
Tota	al 459:				2,980.10	2,980.10				
461	Dynegy 0425	December 20	WELL #1 ELECTRIC	01/02/2025	2,437.71	2,437.71	23603	01/21/2025	1224	07065353

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
Tot	al 461:				2,437.71	2,437.71				
483	Energenecs I	0048772-IN	MAINTENANCE FOR W	01/10/2025	296.10	296.10	23611	01/21/2025	1224	07065300
Tota	al 483:				296.10	296.10				
518	Experian	6000006097	MONTHLY INVOICE	12/29/2024	25.00	25.00	23613	01/21/2025	1224	01025345
Tota	al 518:				25.00	25.00				
528	Feece Oil Co	2257036	FLEET- CITGARD 15W-	12/17/2024	1,386.00	1,386.00	23615	01/21/2025	1224	01075410
Tot	al 528:				1,386.00	1,386.00				
545	Old National	2024 MX 292 2024 MX 358	OLD NATIONAL BANK- OLD NATIONAL BANK-	01/07/2025 01/07/2025	142.70 10.30	142.70 10.30	23647 23647	01/21/2025 01/21/2025		01025310 01025310
Tot	al 545:	202 :		0.70172020	153.00	153.00	200	0 1/2 1/2020		0.0200.0
729	Illinois Assoc.	18332	ILACP MEMBERSHIP D	10/01/2024	265.00	265.00	23619	01/21/2025	1224	01025341
Tot	al 729:				265.00	265.00				
820	Joliet Townsh	January 2025	ANIMAL CONTROL SE	01/07/2025	1,250.00	1,250.00	23623	01/21/2025	1224	01105300
Tot	al 820:				1,250.00	1,250.00				
829	JX Enterprise	22331070P	FLEET- PO 31777 PET	01/09/2025	217.86	217.86	23624	01/21/2025	1224	01075400
Tot	al 829:				217.86	217.86				
849	Kirwan Mech	i76021 i76782 i76825	QUARTERLY HVAC MA HVAC MAINTENANCE/ HVAC MAINTENANCE/	01/01/2025 12/13/2024 12/15/2024	3,030.00 1,219.00 3,660.00	3,030.00 1,219.00 3,660.00	23625 23625 23625	01/21/2025 01/21/2025 01/21/2025	1224	07085300 07085366 07085366
Tota	al 849:				7,909.00	7,909.00				
865	UKG Kronos	12340011	UKG-KRONOS	12/21/2024	4,320.00	4,320.00	23658	01/21/2025	1224	01065301
Tota	al 865:				4,320.00	4,320.00				
880	Law Enforce	INV-0830	COURTSMART PROGR	12/31/2024	1,600.00	1,600.00	23627	01/21/2025	1224	01025341
Tot	al 880:				1,600.00	1,600.00				
927	Quadient Lea	Q1663242	LEASE AGREEMENT	01/02/2025	516.99	516.99	23648	01/21/2025	1224	01115300
Tota	al 927:				516.99	516.99				
956	McMaster Ca	38105654	FLEET- PLOW PIVOT B	12/17/2024	349.28	349.28	23629	01/21/2025	1224	01075400
Tot	al 956:				349.28	349.28				
958	Meade, Inc.	711076	TRAFFIC SIGNAL MAIN TRAFFIC SIGNAL MAIN TRAFFIC SIGNAL MAIN	12/31/2024 12/31/2024 12/31/2024	208.20 208.20 208.20	208.20 208.20 208.20	23630 23630 23630	01/21/2025 01/21/2025 01/21/2025	1224	01035300 01035300 01035300

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
Tota	al 958:				624.60	624.60				
100	ai 500.									
961	Menards	80370	BUILDING MAINTENAN	11/18/2024	53.40	53.40	23631	01/21/2025	1224	01045400
		80408	CHRISTMAS DECORAT	11/19/2024	171.82	171.82	23631	01/21/2025	1224	01045400
		80468	BUILDING MAINTENAN	11/20/2024	95.86	95.86	23631	01/21/2025	1224	01045400
		80518	BUILDING MAINTENAN	11/21/2024	10.38	10.38	23631	01/21/2025	1224	01045400
		80589	BUILDING MAINTENAN	11/22/2024	202.90	202.90	23631	01/21/2025	1224	01045400
		80721	BUILDING MAINTENAN	11/25/2024	15.45	15.45	23631	01/21/2025	1224	01045400
		80751	BUILDING MAINTENAN	11/26/2024	35.98	35.98	23631	01/21/2025		01045400
		80771	BUILDING MAINTENAN	11/26/2024	366.79	366.79	23631	01/21/2025	1224	
		80826	BUILDING MAINTENAN	11/27/2024	5.98	5.98	23631	01/21/2025		01045400
		81343	PAPER TOWELS-PAPE	12/08/2024	36.92	36.92	23631	01/21/2025	1224	01025400
		81490	BUILDING MAINTENAN	12/11/2024	81.68	81.68	23631	01/21/2025	1224	01045400
		81546	BUILDING MAINTENAN	12/12/2024	11.97	11.97	23631	01/21/2025		01045400
		82398	BUILDING MAINTENAN	01/02/2025	78.28	78.28	23631	01/21/2025	1224	
		82407 82409		01/02/2025	49.63	49.63	23631	01/21/2025		01045400
			EAST PLANT SUPPLIE BUILDING MAINTENAN	01/02/2025	163.39 189.48	163.39	23631	01/21/2025	1224	07085366 01045400
		82569	BUILDING MAINTENAN	01/06/2025 01/07/2025		189.48	23631 23631	01/21/2025	1224	01045400
		02032	BOILDING WAINTENAN	01/07/2025	50.90	50.90	23031	01/21/2025	1224	01043400
Tota	al 961:				1,620.81	1,620.81				
962	Menards Inc	80167	FLEET- WORKSHOP S	11/14/2024	598.97	598.97	23632	01/21/2025	1224	01075400
Tota	al 962:				598.97	598.97				
973	Microbac Lab	C24011457	QUARTERLY LAND AP	12/17/2024	502.50	502.50	23634	01/21/2025	1224	07085306
		C24011458	QUARTERLY LAND AP	12/17/2024	502.50	502.50	23634	01/21/2025	1224	07085306
		C24011463	SEMI-ANNUAL EFFLUE	12/18/2024	1,485.75	1,485.75	23634	01/21/2025	1224	07085306
		C25000021	SEMI-ANNUAL EFFLUE	01/02/2025	1,592.25	1,592.25	23634	01/21/2025	1224	07085306
		C25000057	SEMI-ANNUAL EFFLUE	01/03/2025	1,487.75	1,487.75	23634	01/21/2025	1224	07085306
Tota	al 973:				5,570.75	5,570.75				
991	MOE Fringe	February 202	FEB 2025 MOE BENEFI	01/01/2025	1,948.00	1,948.00	424	01/01/2025	1224	01024200
	_	February 202	FEB 2025 MOE BENEFI	01/01/2025	13,354.20	13,354.20	424	01/01/2025	1224	01034200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	3,896.00	3,896.00	424	01/01/2025	1224	01044200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	2,946.50	2,946.50	424	01/01/2025	1224	01124200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	2,922.00	2,922.00	424	01/01/2025	1224	01164200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	6,492.10	6,492.10	424	01/01/2025	1224	07064200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	3,818.20	3,818.20	424	01/01/2025	1224	07074200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	5,216.10	5,216.10	424	01/01/2025	1224	07084200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	9,044.10	9,044.10	424	01/01/2025	1224	07094200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	5,942.00	5,942.00	424	01/01/2025	1224	01074200
		February 202	FEB 2025 MOE BENEFI	01/01/2025	2,376.80	2,376.80	424	01/01/2025	1224	01114200
		K. Urbanski J	JAN 2025 MOE BENEFI	12/20/2024	487.00	487.00	423	12/23/2024	1124	01124200
		K. Urbanski J	JAN 2025 MOE BENEFI	12/20/2024	487.00	487.00	423	12/23/2024	1124	07094200
Tota	al 991:				58,930.00	58,930.00				
995	Monroe Truc	5504727	FLEET- UNIT #101 CON	01/10/2025	412.90	412.90	23635	01/21/2025	1224	01075400
Tota	al 995:				412.90	412.90				
1003	Factory Moto	162-197953	FLEET- TPMS SENSOR	01/09/2025	40.66	40.66	23614	01/21/2025	1224	01075400
		50-5809395	FLEET- OIL FILTERS, T	01/02/2025	615.40	615.40	23614	01/21/2025	1224	01075400

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
		50-5809395	FLEET- OIL FILTERS, T	01/02/2025	191.88	191.88	23614	01/21/2025	1224	01075410
		50-5812282	FLEET- STOCK 26 INC	01/03/2025	755.40	755.40	23614	01/21/2025	1224	01075400
		50-5822516	FLEET- TPMS SENSOR	01/09/2025	40.66	40.66	23614	01/21/2025	1224	01075400
		52-581900	FLEET- TPMS SENSOR	01/09/2025	162.64	162.64	23614	01/21/2025	1224	01075400
		53-488708	FLEET- OIL FILTERS, T	01/02/2025	150.92	150.92	23614	01/21/2025	1224	01075400
		53-488708	FLEET- OIL FILTERS, T	01/02/2025	191.88	191.88	23614	01/21/2025	1224	01075410
		62-642350	FLEET- TPMS SENSOR	01/09/2025	40.66	40.66	23614	01/21/2025	1224	01075400
Tota	al 1003:				2,190.10	2,190.10				
1017	DACRA Adju	DT 2024-12- DT 2024-12-	DACRA TECH SOFTWA DACRA TECH SOFTWA	12/31/2024 12/31/2024	1,250.00 1,250.00	1,250.00 1,250.00	23599 23599	01/21/2025 01/21/2025		01025400 01165300
Tota	al 1017:	D1 2024-12-	DAGRA TECHTOOLIWA	12/31/2024	2,500.00	2,500.00	23399	01/21/2025	1224	01103300
1016	ai 1017.					2,300.00				
1059	Nicor 39-52-5	December 20	WELL #10 NICOR	01/07/2025	58.18	58.18	23642	01/21/2025	1224	07065350
Tota	al 1059:				58.18	58.18				
1060	Nicor 56-57-8	December 20	WELL #9/12 NICOR	01/03/2025	243.78	243.78	23643	01/21/2025	1224	07065350
Tota	al 1060:				243.78	243.78				
1062	Nicor 89-13-6	December 20	WELL #11 NICOR GAS	01/03/2025	232.42	232.42	23644	01/21/2025	1224	07065350
Tota	al 1062:				232.42	232.42				
1063	Nicor 24-66-3	December 20	LIFT STATION NICOR	01/03/2025	52.30	52.30	23641	01/21/2025	1224	07075350
Tota	al 1063:				52.30	52.30				
1065	Nicor 95-25-4	December 20	WELL #1 NICOR	01/02/2025	151.27	151.27	23646	01/21/2025	1224	07065350
Tota	al 1065:				151.27	151.27				
1066	Nicor 08-01-5	December 20	WELL #7 NICOR GAS	01/02/2025	417.99	417.99	23637	01/21/2025	1224	07065350
Tota	al 1066:				417.99	417.99				
1067	Nicor 89-80-1	December 20	EAST PLANT NICOR	01/02/2025	891.49	891.49	23645	01/21/2025	1224	07085350
Tota	al 1067:				891.49	891.49				
1116	Altorfer Indus	P58C005373	GROOVED PIN	01/08/2025	66.40	66.40	23583	01/21/2025	1224	01075400
		P58C005373	BUCKET TIP	01/08/2025	155.76	155.76	23583	01/21/2025	1224	01075400
		P58C005373	TIP PIN RETAINER	01/08/2025	122.80	122.80	23583	01/21/2025	1224	01075400
Tota	al 1116:				344.96	344.96				
1195	Quill LLC	42117130	BLACK PRINTER TONE	12/26/2024	146.32	146.32	23649	01/21/2025	1224	01165401
	Qu 220		CYAN PRINTER TONE	12/26/2024	106.66	106.66	23649	01/21/2025		01165401
Tota	al 1195:				252.98	252.98				
1243	Ray OHerron	2385729	UNIFORM EQUIPMENT	01/02/2025	1,068.49	1,068.49	23650	01/21/2025	1224	01025344
	-	2385732	UNIFORM-BURNS	01/02/2025	1,079.79	1,079.79	23650	01/21/2025	1224	01025344
			UNIFORM-LEWIS	01/03/2025	18.99	18.99	23650	01/21/2025		01025344

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
Tota	al 1243:				2,167.27	2,167.27				
1285	Brian Sempli	Clothing Rei	FY 25 CLOTHING REIM	12/11/2024	98.86	98.86	23586	01/21/2025	1224	01074107
Tota	al 1285:				98.86	98.86				
1295	Shaw Media	1224100852	CREST HILL PAGE	12/31/2024	460.00	460.00	23654	01/21/2025	1224	01105321
Tota	al 1295:				460.00	460.00				
1302	Shorewood H	01-450218	TS 410 STIHL CUTQUI	01/13/2025	879.20	879.20	23655	01/21/2025	1224	07065430
Tota	al 1302:				879.20	879.20				
1326	Ray Soliman		MONTHLY GAS MILEA MONTHLY GAS MILEA	11/29/1909 01/02/2025	50.00 50.00	50.00 50.00	23651 23651	01/21/2025 01/21/2025		01015342 01015342
Tota	al 1326:				100.00	100.00				
1336	Spesia & Tayl	823490	GENERAL CORPORAT	12/23/2024	15,498.50	15,498.50	23657	01/21/2025	1224	01105302
Tota	al 1336:				15,498.50	15,498.50				
1355	Joe Johnson	P01244	FLEET- UNIT #120 REA	12/13/2024	85.85	85.85	23621	01/21/2025	1224	01075400
Tota	al 1355:				85.85	85.85				
1392	SWAHM	January 2025	SWAHM 01-2025	01/01/2025	85,636.58	85,636.58	425	01/01/2025	1224	01002438
Tota	al 1392:				85,636.58	85,636.58				
1432	Ron Tirapelli	656598CM	FLEET- CORE CREDIT FLEET- HOOD LATCH,	12/06/2024 01/02/2025	75.00- 80.00	75.00- 80.00	23653 23653	01/21/2025 01/21/2025		01075400 01075400
			FLEET- UNIT #938 IGNI	01/07/2025	236.52	236.52	23653	01/21/2025		01075400
Tota	al 1432:				241.52	241.52				
1502	Underground	070984-01	CLAMPS	12/27/2024	657.00	657.00	23659	01/21/2025	1224	07065430
Tota	al 1502:				657.00	657.00				
1548	Verizon Wirel	6101850199 9979430167	MONTHLY STATEMENT VERIZON	12/23/2024 11/23/2024	1,252.59 1,318.94	1,252.59 1,318.94	23661 23661	01/21/2025 01/21/2025		01025310 01025310
Tota	al 1548:				2,571.53	2,571.53				
1549	Verizon Wirel	6102535186	VERIZON WIRELESS S	01/01/2025	2,313.00	2,313.00	23662	01/21/2025	1224	07065350
Tota	al 1549:				2,313.00	2,313.00				
1589	Wescom	20250206	WESCOM DISPATCH S	01/02/2025	23,335.42	23,335.42	23667	01/21/2025	1224	01025307
Tota	al 1589:				23,335.42	23,335.42				
1602	Will County	2025-1073	2025 MEMBERSHIP DU	01/01/2025	22,096.56	22,096.56	23668	01/21/2025	1224	01015345

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
Tota	al 1602:				22,096.56	22,096.56				
1605	Will County R	40806961-CI	MUNICIPAL LIENS/REL	12/12/2024	52.00	52.00	23669	01/21/2025	1224	01115325
Tota	al 1605:				52.00	52.00				
1638	Wunderlich D	208072	GATE REPAIR EAST PL	01/10/2025	786.25	786.25	23671	01/21/2025	1224	07085366
Tota	al 1638:				786.25	786.25				
1694	Nicor 13-03-7	December 20	PW NICOR	01/02/2025	1,050.29	1,050.29	23638	01/21/2025	1224	01035351
Tota	al 1694:				1,050.29	1,050.29				
1746	Vestis First Ai	ORD5-01229	EYE WASH STATIONS -	01/09/2025	955.77	955.77	23664	01/21/2025	1224	01045300
Tota	al 1746:				955.77	955.77				
1769	Conrad Polyg	6340	POLYGRAPH EXAM	11/27/2024	800.00	800.00	23597	01/21/2025	1224	01025341
Tota	al 1769:				800.00	800.00				
1778	Konica Minolt	9010237584	MONTHLY COPIER MAI	12/14/2024	410.97	410.97	23626	01/21/2025	1224	01065301
Tota	al 1778:				410.97	410.97				
1801	AceK9	295997	K-9 EXPENSE	01/06/2025	168.00	168.00	23580	01/21/2025	1224	01025346
Tota	al 1801:				168.00	168.00				
1853	Buckeye Pow	PSV401063 PSV401625 PSV401626	WELL 1 GENERATOR LIFT STATION GENERA WELL 1 GENERATOR	12/31/2024 01/07/2025 01/07/2025	4,116.94 375.00 375.00	4,116.94 375.00 375.00	23588 23588 23588	01/21/2025 01/21/2025 01/21/2025	1224	07065300 07075361 07065300
		PSV401627	WELL 10 GENERATOR	01/07/2025	375.00	375.00	23588	01/21/2025	1224	07065300
Tota	al 1853:				5,241.94	5,241.94				
1877	Joliet Tent Co	CH202403	TENT AND TABLE REN	11/30/2024	1,530.00	1,530.00	23622	01/21/2025	1224	01108001
Tota	al 1877:				1,530.00	1,530.00				
		December 20	NICOR MONTHLY STAT	01/07/2025	632.16	632.16	23640	01/21/2025	1224	01105350
Tota	al 1879:				632.16	632.16				
1880	Nicor 17-28-8	December 20	POLICE DEPARTMENT	01/07/2025	618.19	618.19	23639	01/21/2025	1224	01105350
Tota	al 1880:				618.19	618.19				
1951	HOLCIM - M	720659294	STONE FOR MAIN BRE	01/08/2025	997.34	997.34	23618	01/21/2025	1224	07065430
Tota	al 1951:				997.34	997.34				
1953	Amazon Capi	133C-MC4K 133C-MC4K 133C-MC4K	SCISSORS KEYBOARD & MOUSE PHONE CASE	01/10/2025 01/10/2025 01/10/2025	10.44 12.39 13.99	10.44 12.39 13.99	23584 23584 23584	01/21/2025 01/21/2025 01/21/2025	1224	01165401 01165401 01165401

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/endor lumber Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
	133C-MC4K	MANILA ENVELOPES	01/10/2025	19.99	19.99	23584	01/21/2025	1224	01165401
	133C-MC4K	STAPLER	01/10/2025	20.99	20.99	23584	01/21/2025	1224	01165401
	133C-MC4K	DESK LAMP	01/10/2025	28.86	28.86	23584	01/21/2025	1224	01165401
	133C-MC4K	WHITEBOARD	01/10/2025	43.82	43.82	23584	01/21/2025	1224	01165401
	133C-MC4K	STAPLE REMOVER	01/10/2025	5.74	5.74	23584	01/21/2025	1224	01165401
	133C-MC4K	DRY ERASER & MARK	01/10/2025	6.64	6.64	23584	01/21/2025	1224	01165401
	133C-MC4K	DESK FAN	01/10/2025	7.99	7.99	23584	01/21/2025	1224	
	13JP-M61P-	FLEET- TRUCKS EXHA	12/19/2024	219.00	219.00	23584	01/21/2025		01075400
	19HD-3VYQ	5 TAB DIVIDERS	01/06/2025	43.96	43.96	23584	01/21/2025	1224	01115401
	19HW-MNR	FILE FOLDERS	01/08/2025	8.13	8.13	23584	01/21/2025	1224	01035401
	19HW-MNR	POST IT TABS	01/08/2025	6.78	6.78	23584	01/21/2025	1224	01035401
	1HH9-MVV6	HUMIDIFIER - OFFICE	01/13/2025	29.98	29.98	23584	01/21/2025	1224	
	1KQ6-FFC6-	AIR BAG BLOWER	01/10/2025	452.84	452.84	23584	01/21/2025	1224	01035400
	1KTG-NHRL	FILE FOLDERS	01/08/2025	67.10	67.10	23584	01/21/2025	1224	01105401
	1TJW-3PG3-	CLIPBOARD FOR COM	01/07/2025	23.88	23.88	23584	01/21/2025	1224	01165401
	11H9-PKLK-	JANITORIAL SUPPLIES	01/10/2025	313.81	313.81	23584	01/21/2025	1224	01045400
	141L-JD34-L	FILE FOLDERS	12/30/2024	59.41	59.41	23584	01/21/2025	1224	01025400
	17FC-C3KP-	ENVELOPES	12/27/2024	37.98	37.98	23584	01/21/2025	1224	01025400
	17LV-FDYT-T	ROTER	12/27/2024	44.99	44.99	23584	01/21/2025	1224	01065301
	19GV-DX7H-	RECEIPT BOOK	01/10/2025	7.30	7.30	23584	01/21/2025	1224	01165401
	1H4Y-363D-	PRINTER PAPER	12/27/2024	95.12	95.12	23584	01/21/2025	1224	01025400
	1HDL-9DV3-	LYSOL WIPES	01/08/2025	14.97	14.97	23584	01/21/2025	1224	01105401
	1KYM-XKCC	JANITORIAL SUPPLIES	01/13/2025	293.12	293.12	23584	01/21/2025	1224	01045400
	1MPQ-743X-	TAPE DISPENSER	01/06/2025	3.43	3.43	23584	01/21/2025	1224	01115401
	1MPQ-743X-	MANILA FOLDERS	01/06/2025	31.67	31.67	23584	01/21/2025	1224	01115401
	1MPQ-743X-	WASTER TONER CAN	01/06/2025	36.14	36.14	23584	01/21/2025	1224	01105401
	1MPQ-743X-	BROTHER LABELS	01/06/2025	76.74	76.74	23584	01/21/2025	1224	01105401
	1VL7-PM7Y-	P-TOUCH LABEL MAK	01/10/2025	83.37	83.37	23584	01/21/2025	1224	01125401
Total 1953:				2,120.57	2,120.57				
1965 Mark Cipiti	December 20	HOLIDAY LIGHTS CON	12/27/2024	208.50	208.50	23628	01/21/2025	1224	01108001
Total 1965:				208.50	208.50				
1977 AIS Inc	90749	TIME & MATERIALS HA	12/23/2024	1,301.00	1,301.00	23582	01/21/2025	1224	01065301
	90849	MONTHLY SERVICES	01/10/2025	15,377.00	15,377.00	23582	01/21/2025	1224	01065301
Total 1977:				16,678.00	16,678.00				
1985 SpectrumVo	ol 488006 Janu	SPECTRUM MONTHLY	01/01/2025	247.05	247.05	23656	01/21/2025	1224	01105350
Total 1985:				247.05	247.05				
1992 Vissering C	•	WSTP PAY APP 23 WSTP PAY APP 24		1,013,747.42		23665 23666	01/21/2025 01/21/2025		35007512 35007512
Total 1992:				2,016,955.40	2,016,955.40				
2024 Comcast B	us 227501360	COMCAST MONTHLY	12/15/2024	7,924.72	7,924.72	23592	01/21/2025	1224	01065301
Total 2024:				7,924.72	7,924.72				
2043 Donald E. I	Mo December 20	DONALD E MORRIS R	12/31/2024	2,274.15	2,274.15	23601	01/21/2025	1224	01165300

Vendor Number	Name	Invoice Number	Description	Invoice Date	Invoice Amount	Check Amount	Check Number	Check Issue Date	GL Period	GL Account
2052	Bryan Barnes	NAPWDA Me	K9 EXPENSE-BARNES	01/09/2025	50.00	50.00	23587	01/21/2025	1224	01025346
Tota	al 2052:				50.00	50.00				
2073	David Strahl		TEMP HR	12/20/2024	3,332.00	3,332.00	23600	01/21/2025		01105300
			TEMP HR	12/30/2024	1,396.50	1,396.50	23600	01/21/2025		01105300
		44 45	TIME WORKED 12/29/2 TIME WORKED 1/5/202	01/06/2025 01/13/2025	2,376.50 3,236.45	2,376.50 3,236.45	23600 23600	01/21/2025 01/21/2025		01105300 01105300
Tota	al 2073:				10,341.45	10,341.45				
2074	MGT Impact	MGT36330	HOURS WORKED FOR	01/06/2025	10,640.00	10,640.00	23633	01/21/2025	1224	01105300
		MGT36331	HOURS WORKED FOR	01/06/2025	7,772.00	7,772.00	23633	01/21/2025	1224	01105300
		MGT36333	HOURS WORKED FOR	01/06/2025	10,640.00	10,640.00	23633	01/21/2025	1224	01105300
		MGT36334	HOURS FOR JULIUS H	01/06/2025	10,005.00	10,005.00	23633	01/21/2025	1224	01105300
Tota	al 2074:				39,057.00	39,057.00				
2077	Gate System	2409280-IN	PW GATE MAINTENAN	12/27/2024	320.00	320.00	23617	01/21/2025	1224	01045360
Tota	al 2077:				320.00	320.00				
2091	Lenny's Gas	4918	FLEET- DECEMBER 20	01/07/2025	8.00	8.00	23616	01/21/2025	1224	01075400
Tota	al 2091:				8.00	8.00				
2004	William MaCl	0	CITY COUNCIL MEET	04/03/2025	150.00	450.00	22670	04/04/0005	1004	01105200
2094	William McCl	9	CITY COUNCIL MEETI CITY COUNCIL MEETI	01/03/2025 01/03/2025	150.00 150.00	150.00 150.00	23670 23670	01/21/2025 01/21/2025		01105300 01105300
Tota	al 2094:				300.00	300.00				
2116	Adrian Galve	Clothing Rei	FY 25 CLOTHING REIM	01/05/2025	100.87	100.87	23581	01/21/2025	1224	01034107
Tota	al 2116:				100.87	100.87				
2123	Erik Bulger	Clothing Rei	FY 25 CLOTHING REIM	01/06/2025	212.91	212.91	23612	01/21/2025	1224	01044107
Tota	al 2123:				212.91	212.91				
2138	Varitech Indu	IN060-20013	ANIT-ICING EQUIPMEN	12/18/2024	18,773.76	18,773.76	23660	01/21/2025	1224	12007620
Tota	al 2138:				18,773.76	18,773.76				
0400	III::- O-4-	440440	CATE DEDAID	40/04/0004	205.40	205.40	00000	04/04/0005	4004	07005004
2139	Illinois Gate		GATE SERVICE CALL	12/31/2024	395.16	395.16	23620	01/21/2025		07065361
		112127	GATE SERVICE CALL GATE MAINTENANCE	01/08/2025 01/10/2025	280.00 698.19	280.00 698.19	23620 23620	01/21/2025 01/21/2025		01065301 01045360
		112129	GATE MAINTENANCE	01/10/2023			23020	01/21/2023	1224	01043300
Tota	al 2139:				1,373.35	1,373.35				
2140	Nicholas Cal	ITOA Novem	REIMBURSEMENT-CA	11/25/2024	328.32	328.32	23636	01/21/2025	1224	01025342
Tota	al 2140:				328.32	328.32				
Gra	nd Totals:				2,578,886.75	2,578,886.75				

Item 10. Page: CITY OF CREST HILL Paid Invoice Report - Audit

Check issue dates: 5/1/2020 - 1/31/2025

Jan 15, 2025 02:26PM

Vendor Invoice Invoice Invoice Check Check Check GL Period GL Account Number Number Description Date Amount Amount Number Issue Date Name

Report Criteria:

Detail report type printed

[Report].Check Issue Date = 12/23/2024,01/01/2025,01/21/2025