Purchasing Division
Finance Department

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Addendum 5
Solicitation 24-99440
Woodland Booster Station Upgrade

This addendum serves to notify all bidders of the following changes to the solicitation documents:

- Please see the attached Document.
- Supplemental Provisions has been updated and is attached.

Please acknowledge receipt of this Addendum by checking the acknowledgement box within the www.bidexpress.com solicitation.

Posted: **May 3, 2024**

City of Duluth
Supplementary Provisions – State & Federal Funding

1. Disbursements
   a. No money under this Contract shall be disbursed by the City to any Contractor unless the Contractor is in compliance with the Federal Agency requirements with regard to accounting and fiscal matters to the extent they are applicable.
   b. Unearned payments under this Contract may be suspended or terminated upon the Contractor's refusal to accept any additional conditions that may be imposed by the Federal Agency at any time; or if the grant, if applicable, to the City under which this Contract is made is suspended or terminated.

2. Subcontracting Requirements
   a. The Contractor shall include in any subcontract the clauses set forth in these City of Duluth Supplementary Provisions in their entirety and shall also include a clause requiring the subcontractors to include these clauses in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.
   b. The Contractor shall not subcontract any part of the work covered by this Contract or permit subcontracted work to be further subcontracted without the City's prior written approval of the subcontractors. The City will not approve any subcontractor for work covered by this Contract who is at the time ineligible under the provisions of any applicable regulations issued by a Federal Agency or the Secretary of Labor, United States Department of Labor, to receive an award of such subcontract.

3. Termination

If the Contractor is in breach of the Contract, the City, by written notice to the Contractor, may terminate the Contractor's right to proceed with the Work. Upon such termination, the City may take over the Work and prosecute the same to completion, by contract or otherwise, and the Contractor and its sureties shall be liable to the City for any additional cost incurred by the City in its completion of the Work and they shall also be liable to the City for liquidated damages for any delay in the completion of the Work as provided below. If the Contractor's right to proceed is terminated, the City may take possession of and utilize in completing the Work such materials, tools, equipment, and plant as may be on the site of the Work and necessary therefore.

City shall have the right to terminate this contract immediately without other cause in the event that all or a portion of the funds that the City intends to use to fund its obligations under the contract have their source with the State or Federal government or any agency thereof and said source reduces or eliminates their obligation to provide some or all of the funds previously committed by it to fund City's payment obligations under the Contract. The City agrees that termination hereunder will not relieve the City of its obligation to pay Contractor for Work satisfactorily performed and reasonable costs incurred prior to the effective date.

Notwithstanding anything herein to the contrary, the City may terminate this Contract at any time upon written notice given by the City (for any reason, including the convenience of the City) to the Contractor at least thirty (30) days prior to the effective date of the termination of this Contract. The City agrees that termination hereunder will not relieve the City of its obligation to pay Contractor for Work satisfactorily performed and reasonable costs incurred prior to the effective date of the termination

provided that Contractor has not committed a breach of this Contract. Nothing contained in this section shall prevent either party from pursuing or collecting any damages to which it may be entitled by law.

4. Force Majeure.

The right of the Contractor to proceed shall not be terminated nor shall the Contractor be charged with liquidated damages for any delays in the completion of the Work due to any acts of the Government, including controls or restrictions upon or requisitioning of materials, equipment, tools, or labor by reason of war, National Defense, or any other national emergency; any acts of the City; causes not reasonably foreseeable by the parties to this Contract at the time of the execution of the Contract which are beyond the control and without the fault or negligence of the Contractor, including, but not restricted to, acts of God or of the public enemy, acts of another Contractor in their performance of some other contract with the City, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and weather of unusual severity such as hurricanes, tornadoes, cyclones, and other extreme weather conditions; nor to any delay of any Subcontractor occasioned by any of the causes specified above. The Contractor shall promptly notify the City in writing within ten (10) days of the delay. Upon receipt of such notification, the City shall ascertain the facts and the cause of the delay. If, upon the basis of facts and the terms of the Contract, the delay is properly excusable, the City shall extend the time for completing the Work for a period of time commensurate with the period of excusable delay.

5. Equal Employment Opportunity.

During the performance of this contract, the contractor agrees as follows:

a. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

b. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

c. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

e. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

f. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or

suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

g. The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (a) through (g) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

6. Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms.

Per 2 CFR 200.321, prime contractor must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms (collectively referred to as socioeconomic firms) are used when possible. The affirmative steps must include:

a. Placing qualified socioeconomic firms on solicitation lists;
b. Assuring that socioeconomic firms are solicited whenever they are potential sources;
c. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by socioeconomic firms;
d. Establishing delivery schedules, where the requirements permit, which encourage participation by socioeconomic firms; and
e. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

7. Good Faith Efforts.

For purposes of this section, a DBE means an entity owned or controlled by a socially and economically disadvantaged individual as described by Public Law 102-389 (42 U.S.C. 4370d) or as described by Title X of the Clean Air Act Amendments of 1990 (42 U.S.C. 7601 note); a Small Business Enterprise (SBE); a Small Business in a Rural Area (SBRA); or a Labor Surplus Area Firm (LSAF, a Historically Underutilized Business (HUB) Zone Small Business Concern, or a concern under a successor program.

Per 40 CFR 33.301, prime contractor must make the following good faith efforts whenever procuring construction, equipment, services and supplies:

a. Ensure Disadvantaged Business Enterprises (DBEs) are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Indian Tribal, State and Local and Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
b. Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes, whenever possible, posting solicitations for bids or proposals for a minimum of 30 calendar days before the bid or proposal closing date.

c. Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Indian Tribal, State and local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.

d. Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.

e. Use the services and assistance of the SBA and the Minority Business Development Agency of the Department of Commerce.

Additional contract administrative requirements per 40 CFR 33.302 are:

a. Prime contractor must notify the City in prior to any termination of a DBE subcontractor for convenience by the prime contractor.

b. If a DBE subcontractor fails to complete work under the subcontract for any reason, the prime contractor must employ the six good faith efforts summarized above if soliciting a replacement subcontractor.

c. Prime contractor must provide EPA Form 6100-2 - DBE Program Subcontractor Participation Form to all of its DBE subcontractors. EPA Form 6100-2 gives a DBE subcontractor the opportunity to describe the work the DBE subcontractor received from the prime contractor, how much the DBE subcontractor was paid and any other concerns the DBE subcontractor might have, for example reasons why the DBE subcontractor believes it was terminated by the prime contractor. DBE subcontractors may send completed copies of EPA Form 6100-2 directly to the appropriate EPA DBE Coordinator.

8. Davis Bacon Act.

Contractor shall comply with the Davis-Bacon Act (40 U.S.C. 3141–3144, and 3146–3148) as supplemented by Department of Labor regulations (29 CFR Part 5, ‘‘Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction’’). Contractor shall pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in the wage decision included as part of the bid solicitation. In addition, contractor shall pay wages not less than once a week.

9. Compliance with the Copeland “Anti-Kickback” Act.

Contractor shall comply with the Copeland ‘‘Anti-Kickback’’ Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, ‘‘Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States’’). Contractor and any subcontractors are prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled.

10. Contract Work Hours and Safety Standards Act.

Contractor shall comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Contractor shall compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Contractor shall ensure that no laborer or mechanic involved in the Work is required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence. In addition, state or local funding sources may impose more strict

requirements or higher rates for wages, benefits, and overtime rates. Contractors must review the labor cost bidding data form included with the bid package and compensate workers accordingly.

11. Clean Air Act and Federal Water Pollution Control Act

Contractor shall comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA). Contractor agrees to include this provision in any subcontract exceeding $150,000 that is financed in whole or in part with Federal funds.

12. Energy Standards.

Contractor shall comply with all mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201).

13. Suspension and Debarment.

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945. The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into. A contract award must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM.gov), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 19898 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

14. Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended)

Contractors must certify that that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352.

15. Procurement of Recovered Materials .

In the performance of this contract, the Contractor shall comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. This shall include making maximum use of products containing recovered materials as designated by the Environmental Protection Agency (EPA) unless (i) the materials cannot be acquired competitively and within the timeframe required by the contract performance schedule; (ii) the materials designated by the EPA do not meet contract performance requirements; or (iii) the materials cannot be acquired for a reasonable price. Information about this requirement, along with the list of EPA- designated items, is available at the EPA's Comprehensive Procurement Guidelines web site, https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program .

16. Telecommunications and Video Surveillance Services or Equipment

In the performance of this contract, Contractor/Supplier shall comply with Public Law 115-232, Section 889, which prohibits the procurement or use of covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is

telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).

For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, use of video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities) is prohibited.

In addition, telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country is prohibited.

17. Domestic Preferences for Procurements

As appropriate and to the extent consistent with law, Contractor shall, to the greatest extent practicable under a Federal award, supply and/or use goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). For purposes of this section, "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States. "Manufactured products" means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

Contractors shall include the preceding language in all subcontracts.

PART 1

ADDENDUM #5
24-99440
WOODLAND BOOSTER STATION UPGRADE
CITY OF DULUTH
PROJECT 00616177
MAY 3, 2024

CERTIFICATION

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Scott Chilson

Signature: Scott R. Chilson

Date: 5/2/24 License #: 44287

NOTICE

This Addendum is issued to modify, explain, or correct the original drawings, specifications and/or previous addendums and is hereby made a part of the Contract Documents. Please attach this Addendum to the specifications in your possession and note receipt of this Addendum on page 00 41 00-2 of the bid. The bid date remains unchanged.

BID FORM

Bid Item No.8 SCADA Contractor Allowance

CHANGE bid form on Bid Express. Item 8 SCADA Contractor Allowance from $100,000 to $140,000.

SPECIAL PROVISIONS

SP-4 PRE-BID CONFERENCE

CLARIFICATION: Record of pre-bid Conference and Attendance are attached to this addendum.

SP-17 (1906) Partial Payments C.8.i.

CHANGE the $100,000 allowance value $140,000.

TECHNICAL SPECIFICATIONS

Section 01 21 00 Allowances 1.07,D.1.

CHANGE the $100,000 allowance value $140,000.

Section 26 05 00 Common Work Results for Electrical 1.03, G. 6. f**.**

REPLACE with the following: **"**Payment of SCADA System Contractor, Instrument Control Systems, charges for service will be paid by an allowance which will be adjusted up or down by a change order to the Contract to reflect actual utility company invoices. Contractor handling charges, overhead, and mark-up shall be included in the base bid and are not included under this allowance. No hardware or equipment **other than the control panel** may be paid for with the allowance.

DRAWINGS

Drawing 05-C102 Site Civil Yard Piping Plan – Phase 1

REPLACE Top of pipe notes for booster station inlet pipes from "T.O.P. = 862.71'" with "CL = 861.92'"

Drawing 30-M303 Booster Station – Process Mechanical Building Cross Section

REPLACE Sheet with the attached. Note elevation clarification for booster pump unit.

Drawing 30-M502 Booster Station – Process Mechanical Details

REPLACE Sheet with the attached. Note elevation clarification for booster pump unit.

END OF ADDENDUM

GENERAL NOTES

A. NO ATTEMPT HAS BEEN MADE TO SHOW ALL PIPE SUPPORTS, RESTRAINTS, HANGERS, ANCHORS, EXPANSION JOINTS, AND OTHER PIPING PRODUCTS REQUIRED FOR PIPING SUPPORT, THERMAL EXPANSION, AND ANCHORAGE. ABSENCE OF THESE PRODUCTS ON DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING THEM IN ACCORDANANCE WITH THE PROJECT SPECIFICATIONS.

B. EQUIPMENT AND PROCESS PIPING DIMENSIONS ARE SHOWN TO THE NEAREST 0'-1" . DETAILS AND DRAWINGS ARE DIAGRAMMIC. THE CONTRACTOR SHALL VERIFY DIMENSIONS WITH APPROVED SHOP DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

C. ALL BELOW GRADE, MECHANICALLY JOINTED, DUCTILE IRON PIPE SHALL BE INSTALLED WITH SERIES 1100TDM MEGALUGS MANUFACTURED BY EBAA IRON, OR PREAPPROVED EQUAL.

D. ALL BELOW GRADE PROCESS PIPING SHALL BE CEMENT LINED, HIGH PRESSURE RATED DUCTILE IRON PIPE WITH GALVANIC EXTERIOR COATING. PIPE SHALL BE ENCASED IN POLYEYTHLENE WRAP WITH CATHODIC PROTECTION PER CITY OF DULUTH REQUIREMENTS.

E. FOR CLARITY, ALL PIPING, FITTINGS, AND EQUIPMENT ARE DRAWN WITH 125# FLANGES. PROVIDE ALL PROCESS PIPE FITTINGS AND EQUIPMENT WITH 250# FLANGES.

KEYNOTES

1 PIPE FLOOR STAND, TYP. SEE DETAIL 04/30-M501
2 PROVIDE PRESSURE TRANSDUCER AND TRANSMITTER. INSTALL DOWNSTREAM OF FLOW METER
3 PROCESS EQUIPMENT CONCRETE ISOLATION PAD, SEE STRUCTURAL FOR DETAILS
4 PROVIDE EXPANSION JOINT FITTING, FLANGED. INSTALL AT BOOSTER PUMP DISCHARGE.
5 ROUTE AIR RELEASE VALVE 2" COPPER DISCHARGE PIPING TO TRENCH DRAIN, SEE DETAIL 06/30-M501
6 FLOOR PENETRATION, SEE DETAIL 02/30-M501
7 ANODE BUSS, TYP. BOND TO BOOSTER PUMP CAN
8 ANODE CONDUCTOR
9 PROVIDE WATERMAIN CONCRETE THRUST BLOCKING, SEE CITY OF DULUTH STANDARD DETAILS
10 NPT TAP AND FLOW SWITCH (BY DIV 26)
11 PROVIDE RESTRAINED 20" MJ SOLID SLEEVE(S) OR ROMAC COUPLING(S) TO CONNECT TO STEEL PE STUB FROM THE INLET BARREL TO 20" DIP
12 PROVIDE SUCTION PRESSURE MONITORING DEVICES ON WALL MOUNTED RACK, SEE DETAIL 02/30-M502
13 1" COPPER WATER LINE FOR SUCTION PRESSURE MONITORING, TAPPED IN MAIN AT STREET, SEE SITE PLAN

PROCESS EQUIPMENT SCHEDULE - PROPOSED

NOTE: PROCESS EQUIPMENT SCHEDULE IS PROVIDED AS A GENERAL REFERENCE. EQUIPMENT (NOT SHOWN) MAY BE REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS REQUIRED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL VERIFY ANY INFORMATION LISTED AND NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES, OR MISSING INFORMATION.

TAG ID	TYPE	COMMENTS
P-2-1A	SIMFLO PUMP	PUMP A, 600 HP
P-2-1B	SIMFLO PUMP	PUMP B, 600 HP
T-3-1	HYDROPNEUMATIC TANK	1,000 GALLON CAPACITY, MANUFACTURED BY BLACOH OR EQUAL

PROCESS VALVES & EQUIPMENT SCHEDULE - PROPOSED

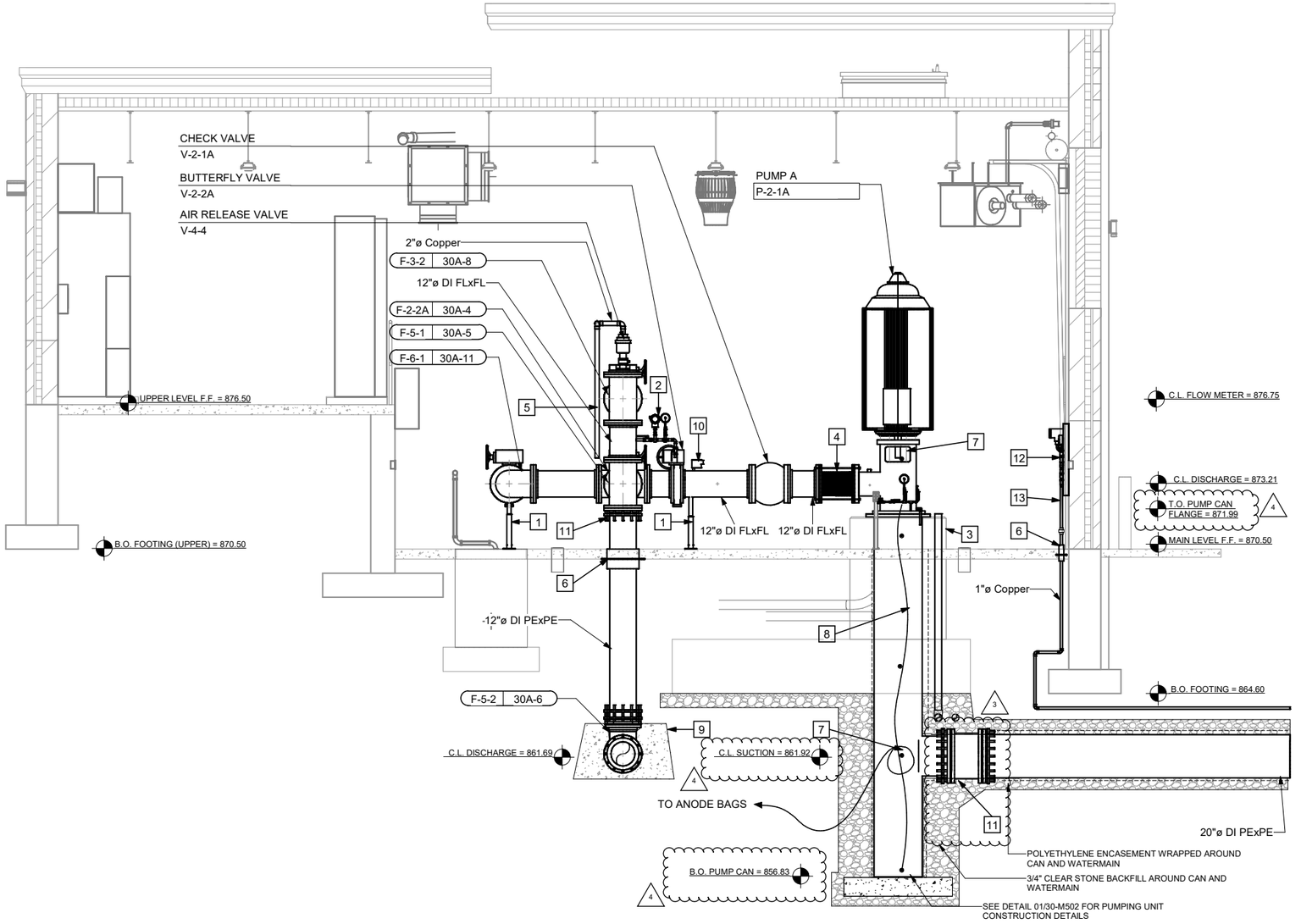
NOTE: APPURTENANCE SCHEDULE IS PROVIDED AS A GENERAL REFERENCE. APPURTENANCES (NOT SHOWN) MAY BE REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS REQUIRED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL VERIFY ANY INFORMATION LISTED AND NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES, OR MISSING INFORMATION.

TAG ID	ABBREVIATION	TYPE	SIZE	COMMENTS
4-1	FE	FLOW METER	12"ø-12"ø	MIN. 5xØ" UPSTREAM AND 2xØ" DOWNSTREAM, COORDINATE WITH DIV 26
V-2-1A	CV	CHECK VALVE	12"ø-12"ø	
V-2-1B	CV	CHECK VALVE	12"ø-12"ø	
V-2-2A	BFV	BUTTERFLY VALVE	12"ø-12"ø	LUGGED OR FLANGED STYLE
V-2-2B	BFV	BUTTERFLY VALVE	12"ø-12"ø	LUGGED OR FLANGED STYLE
V-3-1	BFV	BUTTERFLY VALVE	8"ø-8"ø	LUGGED OR FLANGED STYLE
V-4-1	ARV	AIR RELEASE VALVE	2"ø-2"ø	ROUTE DISCHARGE PIPING TO FLOOR DRAIN, SEE DETAIL 6/30-M501
V-4-2	BFV	BUTTERFLY VALVE	12"ø-12"ø	LUGGED OR FLANGED STYLE
V-4-3	BFV	BUTTERFLY VALVE	12"ø-12"ø	LUGGED OR FLANGED STYLE, PROVIDE RESTAINED FLANGE ADAPTER ON INLET SIDE
V-4-4	ARV	AIR RELEASE VALVE	2"ø-2"ø	
V-5-1	BFV	BUTTERFLY VALVE	12"ø-12"ø	LUGGED OR FLANGED STYLE
V-6-1	BFV	BUTTERFLY VALVE	12"ø-12"ø	LUGGED OR FLANGED STYLE
V-6-2	PRV	PRESSURE RELIEF VALVE	12"ø-12"ø	
V-6-3	BFV	BUTTERFLY VALVE	12"ø-12"ø	LUGGED OR FLANGED STYLE
V-6-4	ARV	AIR RELEASE VALVE	2"ø-2"ø	ROUTE DISCHARGE PIPING TO FLOOR DRAIN, SEE DETAIL 6/30-M501

PIPE FITTING SCHEDULE - PROPOSED

NOTE: FITTING SCHEDULE IS PROVIDED AS A GENERAL REFERENCE. ADDITIONAL FITTINGS (NOT SHOWN) MAY BE REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS REQUIRED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL VERIFY ANY INFORMATION LISTED AND NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES, OR MISSING INFORMATION. ALL FITTINGS GREATER THAN OR EQUAL TO 3" IN DIAMETER SHALL BE RATED FOR A MIN. OF 300 PSI.

TAG ID	SERIAL ID	TYPE	SIZE	COMMENTS
F-2-2A	30A-4	CROSS - FLANGED	12"ø-12"ø-12"ø-12"ø	PROVIDE FLANGE BOLT PIPE SUPPORT
F-6-1	30A-11	ELBOW - FLANGED	12"ø-12"ø	PROVIDE FLANGE BOLT PIPE SUPPORT
F-5-2	30A-6	ELBOW - MJ	12"ø-12"ø	RESTRAIN WITH TANDEM MEGALUGS
F-5-1	30A-5	TEE - FLANGED	12"ø-12"ø-12"ø	PROVIDE RESTAINED FLANGE ADAPTER AT OUTLET
F-3-2	30A-8	TEE - FLANGED	12"ø-12"ø-12"ø	PROVIDE BLIND FLANGE WITH 2" NPT TAP FOR ARV



1 / 30-M303 **BOOSTER PUMP PROCESS PIPING SECTION**

3/8" = 1'-0" (22"x34") 3/16" = 1'-0" (11"x17") 0 1 2 4 6

PLOT DATE: 6/2/2024 10:14:12 AM Autodesk Docs://00616177 - Duluth Woodland Water Pump Station/00616177 - WOODLAND PUMP STATION_R4_R23.rvt

PROJECT DATE: FEBRUARY 26, 2024	DRAWN BY: JJY	DESIGNED BY: SRC	CHECKED BY: AR

No	DATE	REVISIONS	BY
3	4/23/24	ADDENDUM NO. 3	SRC
4	5/2/24	ADDENDUM NO. 4	SRC

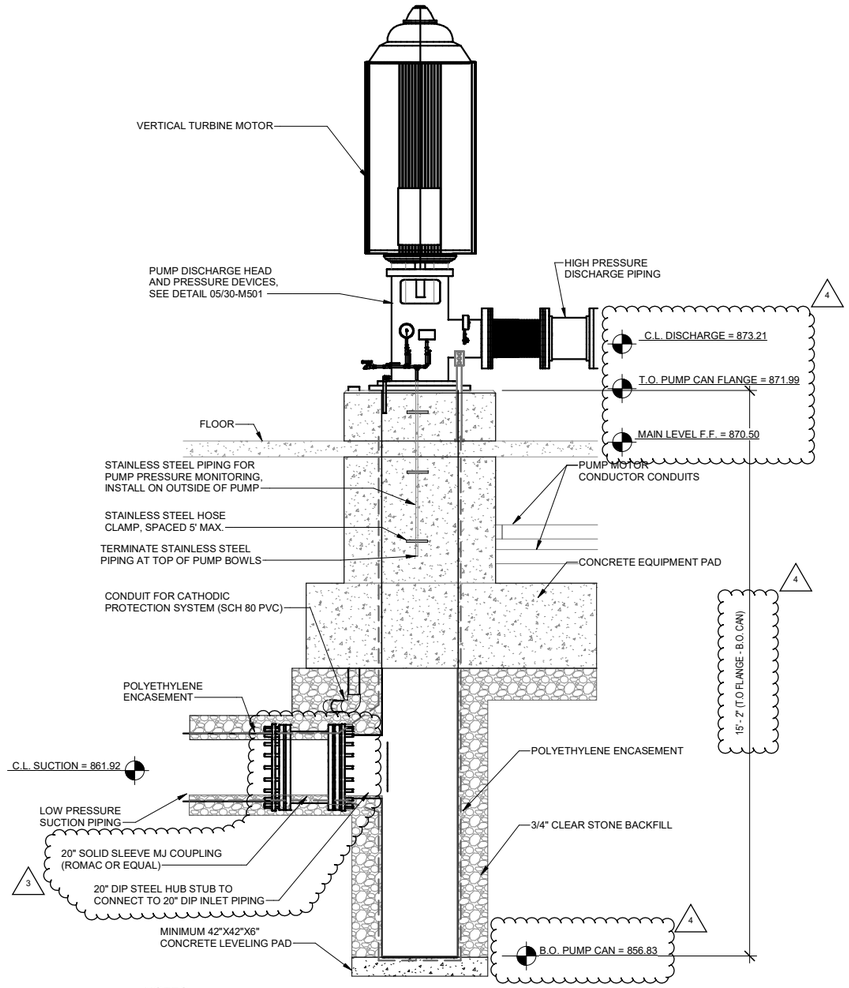
I HEREBY CERTIFY THAT THIS PLAN, REPORT, OR SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DATE: FEBRUARY 26, 2024 ENGINEER: SCOTT CHILSON LICENSE # 44287

MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
332 W Superior St, Ste 600, Duluth MN 55802
(218) 722-3915 www.msa-ps.com
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WOODLAND BOOSTER STATION IMPROVEMENTS
CITY OF DULUTH
ST. LOUIS COUNTY, MINNESOTA

BOOSTER STATION - PROCESS MECHANICAL BUILDING CROSS SECTION

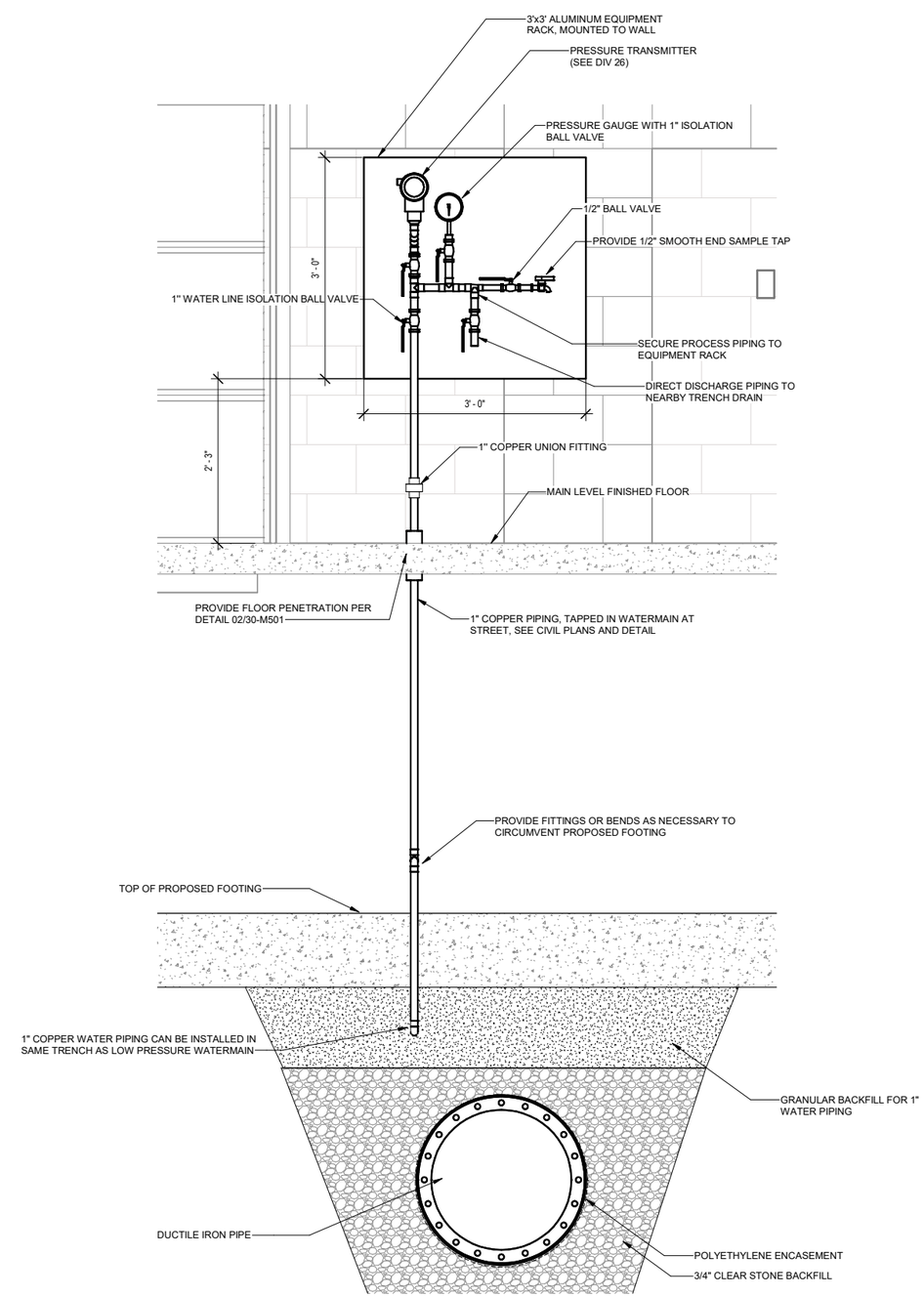
PROJECT NO. 00616177
SHEET 30-M303



NOTES:
1. CONTRACTOR OPTION FOR PRECAST OR CAST-IN-PLACE CONCRETE FOR LEVELING PAD.
2. LOW PRESSURE SUCTION PIPING AND PUMP CAN SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT AND BACKFILLED WILL STONE UP TO CONCRETE EQUIPMENT BASE LIMITS.

1 30-M502 TYPICAL PUMPING UNIT DETAIL

1/2" = 1'-0" (22"x34") 0 1 2 4
1/4" = 1'-0" (11"x17")



2 30-M502 LOW PRESSURE MONITORING SYSTEM DETAIL

1" = 1'-0" (22"x34") 0 6" 1' 2'
1/2" = 1'-0" (11"x17")

PROJECT DATE: FEBRUARY 26, 2024	DRAWN BY: JJY	No	DATE	REVISIONS	BY
	DESIGNED BY: SRC	3	4/23/24	ADDENDUM NO. 3	SRC
	CHECKED BY: AR	4	5/2/24	ADDENDUM NO. 4	SRC

I HEREBY CERTIFY THAT THIS PLAN, REPORT, OR SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DATE: FEBRUARY 26, 2024 ENGINEER: SCOTT CHILSON LICENSE # 44287

MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
332 W Superior St, Ste 600, Duluth MN 55802
(218) 722-3915 www.msa-ps.com
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WOODLAND BOOSTER STATION IMPROVEMENTS
CITY OF DULUTH
ST. LOUIS COUNTY, MINNESOTA

BOOSTER STATION - PROCESS MECHANICAL DETAILS

PROJECT NO. 00616177
SHEET 30-M502

PLOT DATE: 5/2/2024 10:14:13 AM J:\Active\Docs\00616177 - Duluth Woodland Water Pump Station\009 Design\Drawings\Sheets\00616177 - WOODLAND PUMP STATION_PM_R24.mxd

City of Duluth
DEPARTMENT OF PUBLIC WORKS/UTILITIES
Engineering Division
211 City Hall • Duluth MN 55802
(218) 730-5200 Fax: (218) 730-5907

PRE-BID MEETING
~~AGENDA~~ RECORD

RE: **City Project 1988 – Woodland Booster Station / City of Duluth**

TIME: 10:00 A.M. (Virtual) Started at 10:02

DATE: May 2, 2024

LOCATION: Virtual Meeting

ATTENDEES: Refer to the Sign-In List

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1. **SIGN-IN –** Please email me if your contact information (schilson@msa-ps.com)
2. **INTRODUCTION**
    a. Meeting Format
        i. Virtual review and summary of project
        ii. Access to the site
            1. 1:00 to 3:00 today – Please Confirm with Aaron Soderlund
            2. Or by request
    b. KEY PERSONNEL
        i. OWNER - City of Duluth
            1. City Project Manager – Aaron Soderlund (218) 730-5083, cell (218) 349-6331
        ii. MSA Professional Services, Inc. – (218)-722-3915
            1. Project Manager – Scott Chilson, (608) 355-8868, cell (608) 963-6527
            2. Project RPR – Phillip Lockett, cell (218) 348-9161
3. **BID DOCUMENTS**
    a. Access on Bid Express
        i. City Purchasing Website - Bids & Request For Proposals | Home (duluthmn.gov) – 24-99440
        ii. Bid Express | Secure, Online Bidding for Construction & General Procurement | Infotech (infotechinc.com)
    b. Special Conditions
    c. Drawings
        i. #D Viewer Link for enhanced visualization - https://autode.sk/3uNK3W8 – **Please bid the plan and specs**
    d. Duluth Standard Construction Specification and Details - Standard Construction Specifications | Home (duluthmn.gov)
    e. Bid Form
    f. Project Manual
    g. Special Provisions
    h. Appendices
        i. Project Funding Package - MN PFA Drinking Water Funding Information
        ii. Soil Report
        iii. Existing Booster Station and Site Plans

iv. Hazardous Materials Report
v. Basis of Design Construction Schedule
vi. Engineering Technical Specifications

i. Addenda
   i. (4) are currently posted.
   ii. Anticipate a fifth by the end of the week.

4. SCOPE OF WORK (SP-2)

a. This project involves furnishing all labor, work, materials, and equipment necessary:
   i. This project will improve the service provided by the Woodland Booster Station. The work will include the construction of a new booster station building to replace the existing booster station building. The proposed building will consist of cavity wall construction (CMU with brick veneer) and bar joist framing.
   ii. The work will include site grading, HVAC, plumbing including sanitary service lateral, electrical service and controls, storm sewer, yard piping, concrete sidewalk, bituminous driveway, site restoration, curb and gutter, and bituminous street restoration.
   iii. The work will include new dual feed 480V electrical service, new controls, new VFD Motor controls, 2 new vertical turbine booster pumps housed in closed-bottom inlet barrels, 2 new 600 hp motors, and new process piping and appurtenances.
   iv. The work will include the phased demolition of the existing booster station building and all utility services, pumps, controls, appurtenances, etc.
   v. The work will include the construction of a Pressure Reducing Valve (PRV) Station. The PRV station will include the construction/installation of rectangular concrete manhole with access hatch, yard piping, process piping and appurtenances, site grading, and site restoration.
   vi. The work will include the coordination with MN Power on the installation of a new dual 480V service to the proposed building, and demolition of the existing medium voltage service to the existing building.
   vii. Allowances
      1. SCADA Contractor
      2. Owner Directed
      3. Utility Fees
b. Phased construction is essential. The facility must stay operational. All interruptions have to be planned and minimize down time.

5. CONTRACT TIME

a. SP-15
b. Refer to basis of design construction schedule – Guideline for practical construction timeline allowing for anticipated lead times for equipment and materials.
c. Work hours
d. Block-out dates: Construction Activities encourage but to avoid the following: No major process changes, cut-overs, start-ups, training, commissioning, etc.
   i. Week containing Memorial Day holiday.
   ii. Week containing July Fourth holiday.
   iii. Week containing Labor Day holiday.
   iv. Week of the water conference (typically in October)
   v. Week of Minnesota gun deer hunt
   vi. Week of Thanksgiving holiday

vii. Week between Christmas and New Year holidays
viii. Others as needed

6. FUNDING

a. PFA
b. City confirmed PFA funding, and that all equipment and materials provided on this project shall be **BABA** compliant or the required waivers would be required to administered by the contractor.

7. Bid From and Partial Payments (SP-17)

a. Mobilization
b. Woodland Booster Station Improvements
c. Demolition of the existing Woodland Booster Station
d. PRV Station
e. Brick Type A
f. Brick Type B
g. Brick Type C
h. SCADA Contractor
i. Owner Directed Addition Allowance
j. Utility Allowance

8. PERMITS (SP-17)

a. Contractor responsibility

9. ANTICIPATED CONSTRUCTION SEQUENCE (SP-47)

a. Notice to Proceed
b. Obtain Permits
c. Shop Drawings
d. Preconstruction Meeting
e. Utility Service Coordination
f. Mobilize
g. Provide Erosion Control
h. Install Traffic Control
i. Utility Field Locates
j. Construct new Woodland Pump Station and utilities including intermediate restoration (Refer to Contract Drawings)
k. Construct new PRV Station including restoration. (Refer to Contract Drawings)
l. Start-up, testing, training, commissioning, and reliability testing. (Refer to Contract Drawings)
m. Decommission demolish the existing Woodland Booster Station and utilities (Refer to Contract Drawings)
n. Site restoration and removal of traffic control.
o. Complete project start-up and close out.

10. Comments and Directions from City

11. Contractors Question

a. Tech4, please confirm that extents of the power study holds to the items listed in the spec. MSA confirmed list is spec should be the basis on design.

12. Site Visits

Please try to be at the station at 1:00.

Multiple contractors confirmed they would be visiting the site and existing station at 1:00.

13. Adjournment: 10:23 AM

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purchasing@duluthmn.gov

PRE-BID MEETING ATTENDANCE LIST

RECORD

May 2, 2024

City Job Number: 1988
Project: City of Duluth
Woodland Booster Station

NAME	COMPANY	PHONE	EMAIL
Aaron Soderlund	City of Duluth	(218) 349-6331	asoderlund@duluthmn.gov
Scott Chilson	MSA	(608)-355-8868	schilson@msa-ps.com
Jim Peterson	Hunt Electric	218-461-7719	jwpeterson@huntelec.com
Blake Kolquist	GPM	218-393-3853	bkolquist@gpmco.com
Dan Libby	GPM	208-722-9904	dlibby@gpmco.com
Peter Aldritt	Magney	612-599-9941	Bids@magneyconstruction.com
Chris Krook	Belknap Electrical, Inc.	715-394-7769	chriskrook@belknapelectric.com
Nathan Fox	Lakehead Construction, Inc.	715.395.2607	nfox@lakeheadconstructors.com
Brian Wedlund	Stack Brothers	715-817-8562	brian.wedlund@stackbr.us
Moe Ludwig	Gardner Builder	218-216-5911	moel@gardner-builders.com
Jon Brostowitz	Veit	218-350-1037	jon.brostowitz@veitusa.com
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Karl Yrjanson	Archkey	218-725-3422	Karl.Yrjanson@archkey.com
Mike Bukovitz	Tech4, LLC	920-532-0480	mikeb@tech4.com
Ben Nickila	Johnson Wilson Constructors		
Joe Polo	Lakehead Construction, Inc.		
Mike Wolf	City of Duluth		
Nicholas Grivette	ACCT, Inc.		
Colin Leonard	Rice Lake Construction Group	612-718-7489	colin_leonard@ricelake.org