

ADDENDUM #1
GFWTP 1916 HEAD HOUSE UPGRADES
TD&H Job Number 23-232
August 27, 2025

TO PROSPECTIVE BIDDERS: All plan holders of record. Acknowledge receipt of this Addendum by **filling out the table on Bid Form, page 2 Section 5.03.** Failure to do so may disqualify the proposal. This Addendum forms a part of the Construction Documents to the same extent as if found therein and modifies them as follows:

REMINDER: Contract documents **MUST** be original copies purchased from the City of Great Falls. All bids must be made on the forms provided in this bound purchased copy. The entire purchased bound contract documents, including bid, must be in a sealed envelope turned in prior to the bid opening.

GENERAL NOTES, INSTRUCTIONS AND CONTRACT REQUIREMENTS

- Item 1:** Invitation to Bid, change the Bid Opening date from September 3, 2025 to September 17, 2025, at 9 a.m. local time in the Gibson Conference Room at the Civic Center.
- Item 2:** For those interested, there will be an additional Pre-Bid Walkthrough on September 3, 2025, at 9 a.m. at the Great Falls Water Treatment Plant 1301 Lower River Road, Great Falls MT.
- Item 3:** Replace Bid Form with the attached updated Bid Form.
- Item 4:** Replace The MT Prevailing Wage Rates with the attached MT Prevailing, dated 7/1/2025 (attached.) The Davis Bacon Wage Rates dated 6/6/2025 remain current. Contractor must pay rates of whichever is highest.
- Item 5:** Replace the Measurement and Payment with the attached updated Measurement and Payment. Added Line Item 106 Miscellaneous.
- Item 6:** Construction Agreement, Exhibit C
ADD: The Notice to Proceed will be issued with a start date no earlier than 10/27/2025 and no later than 11/3/2025, unless both parties agree otherwise in writing. The construction project must be completed within 300 calendar days from the start date of the Notice to Proceed.
- Item 7:** Construction Agreement, Exhibit G – Professional Liability Insurance is waived for this Construction Agreement.

SPECIFICATION CHANGES

REPLACE: Specification 011000 with the attached.

ADDED MISSING SPECIFICATION: 02 83 19.13 Lead-Based Paint Abatement was missing from Bid Documents. – See Attached

PLAN CHANGES

Sheets S2.0, S2.1, S3.3, S4.0 and S7.0 – Delete reference to 02 82 00 and replace with reference 02 83 19.13

Sheet S5.2 – ADDED Dimensions to Detail 3, see attached.

CLARIFICATIONS

Response to questions from a bidding contract.

QUESTION 1: Flag No. #1 on Drawing S2.1 States, “Rapid Mixer - – Temporarily remove and install after construction to meet manufacturer requirements. Please provide the submittals or Operation and Maintenance Manuals for the existing mixers, to ensure the equipment is handled and properly removed and reinstalled the Rapid Mixers.

RESPONSE 1: The Rapid Mixer is a Hayward Gordon mixer, model #STX-12. We were not able to locate an owner’s manual, but you can contact the manufacturer directly through their website to request one.

QUESTION 2: Flag Note #2 on Drawings S2.1 states, “Carbon Equipment – Temporarily remove and install after construction to meet manufacturer requirements. Please provide the submittals or Operation and Maintenance Manuals for the existing Carbon Equipment, to ensure the equipment is handled and properly removed and reinstalled the equipment.

RESPONSE 2 : It may be possible to work around the Carbon Equipment in this area, but it is shown as being moved for ease of construction. There are no clear markings on the equipment. Please coordinate with WTP staff if relocation is necessary.

QUESTION 3: Receiving Chamber – When we do drain the Receiving Chamber, is there any settlement that has accumulated at the bottom of the chamber, and if so, can you quantify the depth and condition of the settlement.

RESPONSE 3: To drain the tank, water flows backward through the inflow pipes at the bottom. Since the inflow pipes enter the side of the tank a few feet above the bottom, the bottom has not been fully visible. Additional pumps would be required to remove the remaining water below the inflow pipes. We do not know if there is any debris/settlement at the bottom of the tank.

QUESTION 4: Detail 4/S6.1, shows the new slab to (E) Wall tie-in. The detail shows a clean straight cut. It will be difficult to get that close to the existing walls with our sawcutting and demo as there is a minimum distance requirement due to the offset of the saw housing. A flush cut will require bush hammering the remaining 2” to 4” of concrete back to the existing walls. In the event that while we are bush hammering these areas and additional concrete is inadvertently removed (not knowing the condition of the walls), will there be additional repair methods be required for possible exposed rebar or specific grout required?

RESPONSE 4: The portion of slab that remains after sawcutting must be bush hammered. No additional repair methods are required at this time.

QUESTION 5: Drawing S8.1 – Shows that there is a 54” pipeline from the Seasonal Basins. To minimize the concerns of the City to not allow dust or slurry into the Receiving Chamber and the treatment process during the demo, would it be possible to have the City convey influent water to the Seasonal Basins and then redirect the water back to the plant, into the Rapid Mix Tanks while we are doing the demo over the Receiving Chamber.

RESPONSE 5: We appreciate the effort to identify alternative solutions. Unfortunately, the Seasonal Basins have not been operational for many years, and all flow from the Seasonal still passes through the Receiving Chamber. In other words, no bypass of the Receiving Chamber is currently available. The only other potential option would be to construct a temporary wall dividing the Receiving Chamber into two halves, operating on either the West or East Rapid Mix. While we felt this approach was not feasible, it remains a possible option.

END OF ADDENDUM NO. 1

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SECTION 00300

BID FORM

PROJECT IDENTIFICATION:

GREAT FALLS WATER TREATMENT PLANT 1916 HEAD HOUSE UPGRADES

O.F. 1332.7

(Name of Project)

GREAT FALLS, MONTANA

(Location)

THIS BID SUBMITTED TO:
City of Great Falls – City Clerk
#2 Park Drive
P.O. Box 5021
Great Falls, MT 59403

1.01 The undersigned Bidder proposes and agrees if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents, to perform and furnish all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the terms and conditions of the Bidding Documents.

2.01 Bidder accepts all of the terms and condition of the Advertisement or Invitation to Bid, and Instruction to Bidders, including without limitations those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for sixty (60) days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bidding Documents, other related data identified in the Bidding Documents, and the following Addenda, receipt of all which is hereby acknowledged the following Addenda:

Addendum No.

Addendum Date

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Special Provisions, and (2) reports and drawings of a Hazard Environmental Condition, if any, which has been identified in the Special Provisions.

E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of the Work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies and data with the Bidding Documents.

I. Bidder has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by ENGINEER is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.

The BIDDER certifies that no official of the OWNER, ENGINEER, or any member of such officials' immediate family, has direct or indirect interest in the pecuniary profits or Contracts of

ADDENDUM NO. 1 - 8/27/2025

the BIDDER.

5.01 The Bidder will complete the Work in accordance with the Contract Documents for the following prices(s):

BASE BID
GFWTP Headhouse Repairs

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE
101	Mobilization	1	LS		
102	Replace Operating Floor (Receiving, Flume & Rapid Mix)	1	LS		
103	Replace Basement Slab and Beams (Includes MEP)	1	LS		
104	Repair Rapid Mix Walls	150	SF		
105	Replace East Operating Floor	1	LS		
106	Miscellaneous	1	LS	\$80,000	\$80,000

TOTAL AMOUNT BASE BID , ITEMS 101–105 \$ _____
(Figures)

(Words)

BID ADDITIVE ALTERNATE 1
GFWTP Headhouse Repairs

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE
201	Repair Roof Trusses	1	LS		

TOTAL AMOUNT FOR BID ALTERNATIVE NO. 1, ITEMS 201 \$ _____
(Figures)

(Words)

BID ADDITIVE ALTERNATE 2**GFWTP Headhouse Repairs**

ITEM NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	TOTAL PRICE
301	Redundant Hot Water Pump HWP-2	1	LS	_____	_____

TOTAL AMOUNT FOR BID ALTERNATIVE NO. 2, ITEMS 301-302 \$ _____

(Figures)

(Words)

A. Unit Prices have been computed in accordance with the Instructions to Bidders.

B. Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities provided, determined as provided in the Contract Documents.

C. The undersigned agrees that the unit prices shall govern in checking the Bid, and should a discrepancy exist in the Total Estimated Price and Total Amount of Unit Prices Bid as listed above after extensions are checked and corrections made, if any, the Total Amount of Unit Prices Bid as corrected shall be used in awarding this Contract.

D. The OWNER reserves the right to reject any or all bids.

6.01 Bidder agrees that the Work will be completed and ready for final payment in accordance with the Construction Agreement or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.

7.01 The following documents are attached to and made a condition of the Bid:

A. Required Bid security in the amount of 10% of the maximum Bid price including alternates, if any, and in the form of a Bid Bond identified in the Instructions To Bidders.

8.01 The terms used in this Bid with the initial capital letters have the meanings indicated in the Instructions To Bidders.

ADDENDUM NO. 1 - 8/27/2025

SUBMITTED on _____, _____.
(Date)

Montana Contractor's Registration # (if any) _____.

Employer's Tax ID No. _____.

If BIDDER is:

An Individual: _____
(Name typed or printed)

By: _____
(Individual's Signature)

Doing business as: _____

Business Address: _____

Phone No.: _____ FAX No.: _____

A Partnership: _____
(Partnership Name)

By: _____
(Name, typed or printed)
(Signature) _____

Business Address: _____

Phone No.: _____ FAX No.: _____

A Corporation: _____
(Corporation Name)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature of person authorized to sign)

ADDENDUM NO. 1 - 8/27/2025

Title: _____

Attest: _____
(Signature)

Business Address: _____

Phone No.: _____ FAX No.: _____

Date of Qualification To Do Business Is: _____

(Corporate Seal)

A Joint Venture: Each Joint Venture Must Sign

Joint Venture Name: _____
(Name)

By: _____
(Signature of Joint Venture Partner)

Name: _____
(Name, printed or typed)

Title: _____

Business Address: _____

Phone No.: _____ FAX No.: _____

Joint Venture Name: _____
(Name)

By: _____
(Signature of Joint Venture Partner)

Name: _____
(Name, printed or typed)

Title: _____

Business Address: _____

Phone No.: _____ FAX No.: _____

ADDENDUM NO. 1 - 8/27/2025

Address of Joint Venture for Receipt of Official Communication:

Address: _____

Phone No.: _____ FAX No.: _____

(Each Joint Venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

END OF SECTION 00300

ADDENDUM NO. 1 - 8/27/2025

MONTANA
PREVAILING WAGERATESFOR BUILDINGCONSTRUCTIONSERVICES2025

Effective: July 1, 2025

Note: These are revised 2025 rates and supersede the rates that were published
on January 11, 2025

*Greg Gianforte, Governor
State of Montana*

*Sarah Swanson, Commissioner
Department of Labor & Industry*

To obtain copies of prevailing wage rate schedules, or for information relating to public works projects and payment of prevailing wage rates, visit ESD at erd.dli.mt.gov/labor-standards or contact:

Employment Standards Division
Montana Department of Labor and Industry
P. O. Box 8011
Helena, MT 59604
Phone 406-444-6543

The department welcomes questions, comments, and suggestions from the public. In addition, we'll do our best to provide information in an accessible format, upon request, in compliance with the Americans with Disabilities Act.

MONTANA PREVAILING WAGE REQUIREMENTS

The Commissioner of the Department of Labor and Industry, in accordance with Sections 18-2-401 and 18-2-402 of the Montana Code Annotated (MCA), has determined the standard prevailing rate of wages for the occupations listed in this publication.

The wages specified herein control the prevailing rate of wages for the purposes of Section 18-2-401, et seq., MCA. It is required each employer pay (as a minimum) the rate of wages, including fringe benefits, travel allowance, zone pay and per diem applicable to the district in which the work is being performed as provided in the attached wage determinations.

All Montana Prevailing Wage Rates are available on the internet at <https://erd.dli.mt.gov/labor-standards/state-prevailing-wage-rates> or by contacting the department at (406) 444-6543.

In addition, this publication provides general information concerning compliance with Montana's Prevailing Wage Law and the payment of prevailing wages. For detailed compliance information relating to public works contracts and payment of prevailing wage rates, please consult the regulations on the internet at erd.dli.mt.gov/labor-standards or contact the department at (406) 444-6543.

SARAH SWANSON
Commissioner
Department of Labor and Industry
State of Montana

TABLE OF CONTENTS

MONTANA PREVAILING WAGE REQUIREMENTS:

A.	Date of Publication	3
B.	Definition of Building Construction	3
C.	Definition of Public Works Contract	3
D.	Prevailing Wage Schedule	3
E.	Rates to Use for Projects	3
F.	Wage Rate Adjustments for Multiyear Contracts	3
G.	Fringe Benefits	4
H.	Prevailing Wage Districts	4
I.	Dispatch City	5
J.	Zone Pay	5
K.	Computing Travel Benefits	5
L.	Per Diem	5
M.	Apprentices	5
N.	Posting Notice of Prevailing Wages	5
O.	Employment Preference	5
P.	Projects of a Mixed Nature	6
Q.	Occupations Definitions Website	6
R.	Welder Rates	6
S.	Foreman Rates	6

WAGE RATES:

BOILERMAKERS	7
BRICK, BLOCK, AND STONE MASONS	7
CARPENTERS	7
CARPET INSTALLERS	8
CEMENT MASONS AND CONCRETE FINISHERS	8
CONSTRUCTION EQUIPMENT OPERATORS	
OPERATORS GROUP 1	8
OPERATORS GROUP 2	9
OPERATORS GROUP 3	9
OPERATORS GROUP 4	10
OPERATORS GROUP 5	10
OPERATORS GROUP 6	10
OPERATORS GROUP 7	11
CONSTRUCTION LABORERS	
LABORERS GROUP 1	11
LABORERS GROUP 2	11
LABORERS GROUP 3	12
LABORERS GROUP 4	12
DRYWALL APPLICATORS	12
ELECTRICIANS: INCLUDING BUILDING AUTOMATION CONTROL	13
ELEVATOR CONSTRUCTORS	13
FLOOR LAYERS	14
GLAZIERS	14
HEATING AND AIR CONDITIONING	14
INSULATION WORKERS - MECHANICAL (HEAT AND FROST)	14
IRONWORKERS - REINFORCING IRON AND REBAR WORKERS	15
IRONWORKERS - STRUCTURAL IRON AND REBAR WORKERS	15
MILLWRIGHTS	15
PAINTERS: INCLUDING PAPERHANGERS	15
PILE BUCKS	16
PILOT CAR DRIVERS	
PLASTERERS	16
PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	17
ROOFERS	18
SHEET METAL WORKERS	18
SOLAR PHOTOVOLTAIC INSTALLERS	19
SPRINKLER FITTERS	20
TAPERS	20
TELECOMMUNICATIONS EQUIPMENT INSTALLERS	21
TERRAZZO WORKERS AND FINISHERS	21
TILE AND STONE SETTERS	21
TRUCK DRIVERS	22

A. Date of Publication **January 13, 2025**

B. Definition of Building Construction

For the purposes of Prevailing Wage, the Commissioner of Labor and Industry has determined that building construction occupations are defined to be those performed by a person engaged in a recognized trade or craft, or any skilled, semi-skilled, or unskilled manual labor related to the construction, alteration, or repair of a public building or facility, and does not include engineering, superintendence, management, office or clerical work.

The Administrative Rules of Montana (ARM), 24.17.501(2) – 2(c), states *“Building construction projects generally are the constructions of sheltered enclosures with walk-in access for housing persons, machinery, equipment, or supplies. It includes all construction of such structures, incidental installation of utilities and equipment, both above and below grade level, as well as incidental grading, utilities and paving.”*

Examples of building construction include, but are not limited to, alterations and additions to buildings, apartment buildings (5 stories and above), arenas (closed), auditoriums, automobile parking garages, banks and financial buildings, barracks, churches, city halls, civic centers, commercial buildings, court houses, detention facilities, dormitories, farm buildings, fire stations, hospitals, hotels, industrial buildings, institutional buildings, libraries, mausoleums, motels, museums, nursing and convalescent facilities, office buildings, out-patient clinics, passenger and freight terminal buildings, police stations, post offices, power plants, prefabricated buildings, remodeling buildings, renovating buildings, repairing buildings, restaurants, schools, service stations, shopping centers, stores, subway stations, theaters, warehouses, water and sewage treatment plants (buildings only), etc.”

C. Definition of Public Works Contract

Section 18-2-401(11)(a), MCA defines “public works contract” as *“...a contract for construction services let by the state, county, municipality, school district, or political subdivision or for nonconstruction services let by the state, county, municipality, or political subdivision in which the total cost of the contract is in excess of \$25,000...”*.

D. Prevailing Wage Schedule

This publication covers only Building Construction occupations and rates. These rates will remain in effect until superseded by a more current publication. Current prevailing wage rate schedules for Heavy Construction, Highway Construction, and Nonconstruction Services occupations can be found on the internet at <https://erd.dli.mt.gov/labor-standards/state-prevailing-wage-rates/> or by contacting the department at (406) 444-6543.

E. Rates to Use for Projects

ARM, 24.17.127(1)(c), states *“The wage rates applicable to a particular public works project are those in effect at the time the bid specifications are advertised.”*

F. Wage Rate Adjustments for Multiyear Contracts

Section 18-2-417, MCA states:

“(1) Any public works contract that by the terms of the original contract calls for more than 30 months to fully perform must include a provision to adjust, as provided in subsection (2), the standard prevailing rate of wages to be paid to the workers performing the contract.

(2) The standard prevailing rate of wages paid to workers under a contract subject to this section must be adjusted 12 months after the date of the award of the public works contract. The amount of the adjustment must be a 3% increase. The adjustment must be made and applied every 12 months for the term of the contract.

(3) Any increase in the standard rate of prevailing wages for workers under this section is the sole responsibility of the contractor and any subcontractors and not the contracting agency.”

G. Fringe Benefits

Section 18-2-412, MCA states:

“(1) To fulfill the obligation...a contractor or subcontractor may:

(a) pay the amount of fringe benefits and the basic hourly rate of pay that is part of the standard prevailing rate of wages directly to the worker or employee in cash;

(b) make an irrevocable contribution to a trustee or a third person pursuant to a fringe benefit fund, plan, or program that meets the requirements of the Employee Retirement Income Security Act of 1974 or that is a bona fide program approved by the U. S. department of labor; or

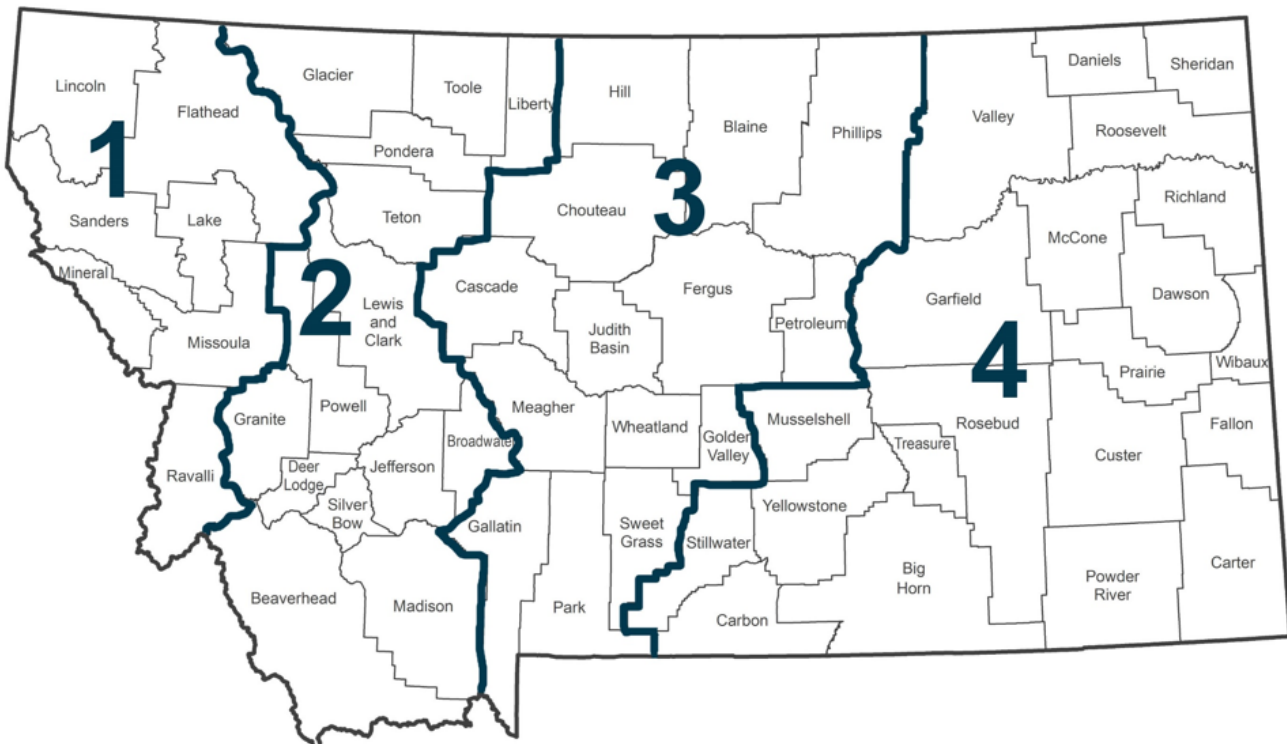
(c) make payments using any combination of methods set forth in subsections (1)(a) and (1)(b) so that the aggregate of payments and contributions is not less than the standard prevailing rate of wages, including fringe benefits and travel allowances, applicable to the district for the particular type of work being performed.

(2) The fringe benefit fund, plan, or program described in subsection (1)(b) must provide benefits to workers or employees for health care, pensions on retirement or death, life insurance, disability and sickness insurance, or bona fide programs that meet the requirements of the Employee Retirement Income Security Act of 1974 or that are approved by the U. S. department of labor.”

Fringe benefits are paid for all hours worked (straight time and overtime hours). However, fringe benefits are not to be considered a part of the hourly rate of pay for calculating overtime, unless there is a collectively bargained agreement in effect that specifies otherwise.

H. Prevailing Wage Districts

Montana counties are aggregated into 4 districts for the purpose of prevailing wage. The prevailing wage districts are composed of the following counties:

Montana Prevailing Wage Districts

I. Dispatch City

ARM, 24.17.103(11), defines dispatch city as *"...the courthouse in the city from the following list which is closest to the center of the job: Billings, Bozeman, Butte, Great Falls, Helena, Kalispell, Miles City, Missoula and Sidney."* A dispatch city shall be considered the point of origin only for jobs within the counties identified in that district (as shown below):

District 1 – Kalispell and Missoula: includes Flathead, Lake, Lincoln, Mineral, Missoula, Ravalli, and Sanders;

District 2 – Butte and Helena: includes Beaverhead, Broadwater, Deer Lodge, Glacier, Granite, Jefferson, Lewis and Clark, Liberty, Madison, Pondera, Powell, Silver Bow, Teton, and Toole;

District 3 – Bozeman and Great Falls: includes Blaine, Cascade, Chouteau, Fergus, Gallatin, Golden Valley, Hill, Judith Basin, Meagher, Park, Petroleum, Phillips, Sweet Grass, and Wheatland;

District 4 – Billings, Miles City and Sidney: includes Big Horn, Carbon, Carter, Custer, Daniels, Dawson, Fallon, Garfield, McCone, Musselshell, Powder River, Prairie, Richland, Roosevelt, Rosebud, Sheridan, Stillwater, Treasure, Valley, Wibaux, and Yellowstone.

J. Zone Pay

Zone pay is not travel pay. ARM, 24.17.103(25), defines zone pay as *"...an amount added to the base pay; the combined sum then becomes the new base wage rate to be paid for all hours worked on the project. Zone pay must be determined by measuring the road miles one way over the shortest practical maintained route from the dispatch city to the center of the job."* See section I above for a list of dispatch cities.

K. Computing Travel Benefits

ARM, 24.17.103(23), states *" 'Travel pay,' also referred to as 'travel allowance,' is and must be paid for travel both to and from the job site, except those with special provisions listed under the classification. The rate is determined by measuring the road miles one direction over the shortest practical maintained route from the dispatch city or the employee's home, whichever is closer, to the center of the job."* See section I above for a list of dispatch cities.

L. Per Diem

ARM, 24.17.103(19), states *" 'Per diem' typically covers costs associated with board and lodging expenses. Per diem is paid when an employee is required to work at a location outside the daily commuting distance and is required to stay at that location overnight or longer."*

M. Apprentices

Wage rates for apprentices registered in approved federal or state apprenticeship programs are contained in those programs. Additionally, Section 18-2-416(2), MCA states *"...The full amount of any applicable fringe benefits must be paid to the apprentice while the apprentice is working on the public works contract."* Apprentices not registered in approved federal or state apprenticeship programs will be paid the appropriate journey level prevailing wage rate when working on a public works contract.

N. Posting Notice of Prevailing Wages

Section 18-2-406, MCA provides that contractors, subcontractors and employers who are *"...performing work or providing construction services under public works contracts, as provided in this part, shall post in a prominent and accessible site on the project or staging area, not later than the first day of work and continuing for the entire duration of the project, a legible statement of all wages and fringe benefits to be paid to the employees."*

O. Employment Preference

Sections 18-2-403 and 18-2-409, MCA requires contractors to give preference to the employment of bona fide Montana residents in the performance of work on public works contracts.

P. Projects of a Mixed Nature

Section 18-2-418, MCA states:

“(1) The contracting agency shall determine, based on the preponderance of labor hours to be worked, whether the public works construction services project is classified as a highway construction project, a heavy construction project, or a building construction project.

“(2) Once the project has been classified, employees in each trade classification who are working on that project must be paid at the rate for that project classification”

Q. Occupations Definitions

You can find definitions for these occupations on the following Bureau of Labor Statistics website:

http://www.bls.gov/oes/current/oes_stru.htm

R. Welder Rates

Welders receive the rate prescribed for the craft performing an operation to which welding is incidental.

S. Foreman Rates

Rates are no longer set for foremen. However, if a foreman performs journey level work, the foreman must be paid at least the journey level rate.

WAGE RATES

BOILERMAKERS

No Rate Established

Duties Include:

Construct, assemble, maintain, and repair stationary steam boilers, boiler house auxiliaries, process vessels, and pressure vessels.

[↑ Back to Table of Contents](#)

BRICK, BLOCK, AND STONE MASONS

	Wage	Benefit
District 1	\$33.81	\$18.06
District 2	\$33.81	\$18.06
District 3	\$33.81	\$18.06
District 4	\$33.81	\$18.06

Zone Pay:

All Districts

0-70 mi. free zone

>70-90 mi. \$60.00/day

>90 mi. \$80.00/day

[↑ Back to Table of Contents](#)

CARPENTERS

	Wage	Benefit
District 1	\$30.24	\$14.33
District 2	\$30.24	\$14.33
District 3	\$30.24	\$14.33
District 4	\$30.24	\$14.33

Zone Pay:

All Districts

0-30 mi. free zone

>30-60 mi. base pay + \$4.00/hr.

>60 mi. base pay + \$6.00/hr.

Duties Include:

Install roll and batt insulation, and hardwood floors.

[↑ Back to Table of Contents](#)

CARPET INSTALLERS

No Rate Established

Duties Include:

Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials.

[↑ Back to Table of Contents](#)

CEMENT MASONS AND CONCRETE FINISHERS

	Wage	Benefit
District 1	\$37.54	\$17.04
District 2	\$37.54	\$17.04
District 3	\$37.54	\$17.04
District 4	\$26.39	\$17.04

Duties Include:

Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, or curbs. Align forms for sidewalks, curbs, or gutters.

Zone Pay:**All Districts**

0-30 mi free zone

30-60 mi base pay+2.95/hr.

>60 mi base pay+4.75/hr.

[↑ Back to Table of Contents](#)

CONSTRUCTION EQUIPMENT OPERATORS GROUP 1

	Wage	Benefit
District 1	\$27.20	\$15.20
District 2	\$30.03	\$13.63
District 3	\$32.36	\$13.38
District 4	\$32.36	\$13.15

This group includes but is not limited to:

Air Compressor; Auto Fine Grader; Belt Finishing; Boring Machine (Small); Cement Silo; Crane, A-Frame Truck Crane; Crusher Conveyor; DW-10, 15, and 20 Tractor Roller; Farm Tractor; Forklift; Form Grader; Front-End Loader, under 1 cu. yd; Oiler, Herman Nelson Heater; Mucking Machine; Oiler, All Except Cranes/Shovels; Pumpman.

Travel Pay**District 1**

0-45 mi. free zone

>45-85 mi. \$60.00/day

>85 mi. \$90.00/day

Zone Pay**District 2**

0-30 mi. free zone

>30-60 mi. base pay + \$3.50/hr.

>60 mi. base pay + \$5.50/hr.

Districts 3 and 4

0-30 mi. free zone

>30-60 mi. base pay + \$3.05/hr.

>60 mi. base pay + \$4.85/hr.

[↑ Back to Table of Contents](#)

CONSTRUCTION EQUIPMENT OPERATORS GROUP 2

	Wage	Benefit
District 1	\$30.82	\$13.55
District 2	\$31.76	\$13.42
District 3	\$31.40	\$14.15
District 4	\$28.60	\$11.70

This group includes but is not limited to:

Air Doctor; Backhoe\Excavator\Shovel, up to and incl. 3 cu. yds; Bit Grinder; Bituminous Paving Travel Plant; Boring Machine, Large; Broom, Self-Propelled; Concrete Travel Batcher; Concrete Float & Spreader; Concrete Bucket Dispatcher; Concrete Finish Machine; Concrete Conveyor; Distributor; Dozer, Rubber-Tired, Push, & Side Boom; Elevating Grader\Gradall; Field Equipment Serviceman; Front-End Loader, 1 cu. yd up to and incl. 5 cu. yds; Grade Setter; Heavy Duty Drills, All Types; Hoist\Tugger, All; Hydralift Forklifts & Similar; Industrial Locomotive; Motor Patrol (except finish); Mountain Skidder; Oiler, Cranes\Shovels; Pavement Breaker, EMSCO; Power Saw, Self-Propelled; Pugmill; Pumpcrete\Grout Machine; Punch Truck; Roller, other than Asphalt; Roller, Sheepsfoot (Self-Propelled); Roller, 25 tons and over; Ross Carrier; Rotomill, under 6 ft; Trenching Machine; Washing /Screening Plant.

[↑ Back to Table of Contents](#)

Travel Pay**District 1**

0-45 mi. free zone
>45-85 mi. \$60.00/day
>85 mi. \$90.00/day

Zone Pay**District 2**

0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

Districts 3 and 4

0-30 mi. free zone
>30-60 mi. base pay + \$3.05/hr.
>60 mi. base pay + \$4.85/hr.

CONSTRUCTION EQUIPMENT OPERATORS GROUP 3

	Wage	Benefit
District 1	\$33.45	\$12.53
District 2	\$33.40	\$13.65
District 3	\$34.16	\$13.82
District 4	\$31.51	\$13.88

This group includes but is not limited to:

Asphalt Paving Machine; Asphalt Screed; Backhoe\Excavator\Shovel, over 3 cu. yds; Cableway Highline; Concrete Batch Plant; Concrete Curing Machine; Concrete Pump; Cranes, Creter; Cranes, Electric Overhead; Cranes, 24 tons and under; Curb Machine\Slip Form Paver; Finish Dozer; Front-End Loader, over 5 cu. yds; Mechanic\Welder; Pioneer Dozer; Roller Asphalt (Breakdown & Finish); Rotomill, over 6 ft; Scraper, Single, Twin, or Pulling Belly-Dump; YO-YO Cat Haul Truck, Articulating Trucks, Vac Truck.

[↑ Back to Table of Contents](#)

Travel Pay**District 1**

0-45 mi. free zone
>45-85 mi. \$60.00/day
>85 mi. \$90.00/day

Zone Pay**Districts 2 - 4**

0-30 mi. free zone
>30-60 mi. base pay + \$3.50/hr.
>60 mi. base pay + \$5.50/hr.

CONSTRUCTION EQUIPMENT OPERATORS GROUP 4

	Wage	Benefit
District 1	\$35.67	\$13.45
District 2	\$35.67	\$13.75
District 3	\$34.23	\$14.31
District 4	\$35.67	\$14.34

This group includes but is not limited to:

Asphalt\Hot Plant Operator; Cranes, 25 tons up to and incl. 44 tons; Crusher Operator; Finish Motor Patrol; Finish Scraper.

Travel Pay**District 1**

0-45 mi. free zone
 >45-85 mi. \$60.00/day
 >85 mi. \$90.00/day

Zone Pay**Districts 2 - 4**

0-30 mi. free zone
 >30-60 mi. base pay + \$3.50/hr.
 >60 mi. base pay + \$5.50/hr.

[↑ Back to Table of Contents](#)

CONSTRUCTION EQUIPMENT OPERATORS GROUP 5

	Wage	Benefit
District 1	\$35.05	\$14.76
District 2	\$36.77	\$14.95
District 3	\$36.77	\$15.02
District 4	\$36.77	\$15.11

This group includes but is not limited to:

Cranes, 45 tons up to and incl. 74 tons.

Travel Pay**District 1**

0-45 mi. free zone
 >45-85 mi. \$60.00/day
 >85 mi. \$90.00/day

Zone Pay**Districts 2 - 4**

0-30 mi. free zone
 >30-60 mi. base pay + \$3.50/hr.
 >60 mi. base pay + \$5.50/hr.

[↑ Back to Table of Contents](#)

CONSTRUCTION EQUIPMENT OPERATORS GROUP 6

	Wage	Benefit
District 1	\$37.86	\$16.50
District 2	\$37.86	\$16.50
District 3	\$37.86	\$16.50
District 4	\$37.20	\$16.55

This group includes but is not limited to:

Cranes, 75 tons up to and incl. 149 tons; Cranes, Whirley (All).

Zone Pay:**All Districts**

0-30 mi. free zone
 >30-60 mi. base pay + \$3.50/hr.
 >60 mi. base pay + \$5.50/hr.

[↑ Back to Table of Contents](#)

CONSTRUCTION EQUIPMENT OPERATORS GROUP 7

	Wage	Benefit
District 1	\$38.96	\$16.35
District 2	\$38.96	\$16.31
District 3	\$38.96	\$16.50
District 4	\$38.96	\$16.31

Zone Pay:
All Districts
 0-30 mi. free zone
 >30-60 mi. base pay + \$3.50/hr.
 >60 mi. base pay + \$5.50/hr.

This group includes but is not limited to:

Cranes, 150 tons up to and incl. 250 tons; Cranes, over 250 tons—add \$1.00 for every 100 tons over 250 tons; Crane, Tower (All); Crane Stiff-Leg or Derrick; Helicopter Hoist.

[↑ Back to Table of Contents](#)

CONSTRUCTION LABORERS GROUP 1/FLAG PERSON FOR TRAFFIC CONTROL

	Wage	Benefit
District 1	\$24.55	\$12.00
District 2	\$24.55	\$12.00
District 3	\$24.55	\$12.00
District 4	\$24.55	\$12.00

Zone Pay:
All Districts
 0-15 mi. free zone
 >15-30 mi. base pay + \$0.65/hr.
 >30-50 mi. base pay + \$0.85/hr.
 >50 mi. base pay + \$1.25/hr.

[↑ Back to Table of Contents](#)

CONSTRUCTION LABORERS GROUP 2

	Wage	Benefit
District 1	\$22.44	\$7.71
District 2	\$24.72	\$11.38
District 3	\$28.46	\$12.00
District 4	\$24.43	\$9.44

Zone Pay:
All Districts
 0-15 mi. free zone
 >15-30 mi. base pay + \$0.65/hr.
 >30-50 mi. base pay + \$0.85/hr.
 >50 mi. base pay + \$1.25/hr.

This group includes but is not limited to:

General Labor; Asbestos Removal; Burning Bar; Bucket Man; Carpenter Tender; Caisson Worker; Cement Mason Tender; Cement Handler (dry); Chuck Tender; Choker Setter; Concrete Worker; Curb Machine-lay Down; Crusher and Batch Worker; Heater Tender; Fence Erector; Landscape Laborer; Landscaper; Lawn Sprinkler Installer; Pipe Wrapper; Pot Tender; Powderman Tender; Rail and Truck Loaders and Unloaders; Riprapper; Sign Erection; Guardrail and Jersey Rail; Spike Driver; Stake Jumper; Signalman; Tail Hoseman; Tool Checker and Houseman and Traffic Control Worker.

[↑ Back to Table of Contents](#)

CONSTRUCTION LABORERS GROUP 3

	Wage	Benefit
District 1	\$25.55	\$12.00
District 2	\$25.55	\$12.00
District 3	\$25.55	\$12.00
District 4	\$25.55	\$12.00

This group includes but is not limited to:

Concrete Vibrator; Dumpman (Grademan); Equipment Handler; Geotextile and Liners; High-Pressure Nozzleman; Jackhammer (Pavement Breaker) Non-Riding Rollers; Pipelayer; Posthole Digger (Power); Power Driven Wheelbarrow; Rigger; Sandblaster; Sod Cutter-Power and Tamper.

[↑ Back to Table of Contents](#)

Zone Pay:**All Districts**

0-15 mi. free zone

>15-30 mi. base pay + \$0.65/hr.

>30-50 mi. base pay + \$0.85/hr.

>50 mi. base pay + \$1.25/hr.

CONSTRUCTION LABORERS GROUP 4

	Wage	Benefit
District 1	\$26.48	\$11.57
District 2	\$25.60	\$12.00
District 3	\$25.60	\$12.00
District 4	\$25.60	\$12.00

This group includes but is not limited to:

Hod Carrier***; Water Well Laborer; Blaster; Wagon Driller; Asphalt Raker; Cutting Torch; Grade Setter; High-Scaler; Power Saws (Faller & Concrete) Powderman; Rock & Core Drill; Track or Truck Mounted Wagon Drill and Welder incl. Air Arc.

[↑ Back to Table of Contents](#)

Zone Pay:**All Districts**

0-15 mi. free zone

>15-30 mi. base pay + \$0.65/hr.

>30-50 mi. base pay + \$0.85/hr.

>50 mi. base pay + \$1.25/hr.

***Hod Carriers will receive the same amount of travel and/or subsistence pay as bricklayers when requested to travel.

DRYWALL APPLICATORS

No Rate Established

Duties Include:

Drywall and ceiling tile installation.

[↑ Back to Table of Contents](#)

No Zone Pay Established

ELECTRICIANS: INCLUDING BUILDING AUTOMATION CONTROL

	Wage	Benefit
District 1	\$36.88	\$15.78
District 2	\$36.00	\$15.87
District 3	\$36.50	\$16.76
District 4	\$40.00	\$16.95

Duties Include:

Electrical wiring; equipment and fixtures; street lights; electrical control systems. Installation and/or adjusting of building automation controls also during testing and balancing, commissioning and retro-commissioning.

Travel:**District 1**

No mileage due when traveling in employer's vehicle.

The following travel allowance is applicable when traveling in employee's vehicle:

0-15 mi. free zone
 >15-45 mi. \$0.585/mi. in excess of the free zone.
 >45 mi. \$75.00/day

Districts 2 & 3

No mileage due when traveling in employer's vehicle.

The following travel allowance is applicable when traveling in employee's vehicle:

0-08 mi. free zone
 >08-50 mi. current federal mileage rate/mi. in excess of the free zone.
 >50 mi. \$71.57/day

District 4

No mileage due when traveling in employer's vehicle.

The following travel allowance is applicable when traveling in employee's vehicle:

0-18 mi. free zone
 >18-60 mi. federal mileage rate/mi.

Per Diem**District 4**

>60 mi. \$80.00/day

Per Diem in Big Sky and West Yellowstone \$125/day.

[↑ Back to Table of Contents](#)

ELEVATOR CONSTRUCTORS

	Wage	Benefit
District 1	\$64.87	\$46.38
District 2	\$64.87	\$46.38
District 3	\$64.87	\$46.38
District 4	\$64.87	\$46.38

Travel:**All Districts**

0-15 mi. free zone
 >15-25 mi. \$49.73/day
 >25-35 mi. \$99.45/day
 >35 mi. \$112.90/day

Special Provision:

.93/mile when added to amounts above if using employee vehicle.

[↑ Back to Table of Contents](#)

FLOOR LAYERS**No Rate Established**

Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.

[↑ Back to Table of Contents](#)

GLAZIERS

	Wage	Benefit
District 1	\$24.13	\$3.66
District 2	\$24.13	\$3.66
District 3	\$24.13	\$3.66
District 4	\$23.73	\$4.02

Travel and Per Diem:**All Districts**

No travel or per diem established.

[↑ Back to Table of Contents](#)

HEATING AND AIR CONDITIONING

	Wage	Benefit
District 1	\$32.95	\$14.16
District 2	\$33.15	\$15.35
District 3	\$34.69	\$16.88
District 4	\$35.76	\$18.44

All Districts

0-45 mi. free zone

>45 mi.

- \$0.25/mi. in employer vehicle.
- \$0.65/mi. in employee vehicle.

Duties Include:

Testing and balancing, commissioning and retro-commissioning of all air-handling equipment and duct work.

Per Diem:**All Districts**

\$85/day

[↑ Back to Table of Contents](#)

INSULATION WORKERS - MECHANICAL (HEAT AND FROST)

	Wage	Benefit
District 1	\$43.81	\$21.99
District 2	\$43.81	\$21.99
District 3	\$43.81	\$21.99
District 4	\$43.81	\$21.99

Travel:

0-30 mi. free zone

>30-40 mi. \$25.00/day

>40-50 mi. \$35.00/day

>50-60 mi. \$45.00/day

>60 mi. \$130.00/day plus

- \$0.56/mi. if transportation is not provided.
- \$0.20/mi. if in company vehicle.

Duties Include:

Insulate pipes, ductwork or other mechanical systems.

[↑ Back to Table of Contents](#)

IRONWORKERS – REINFORCING IRON AND REBAR WORKERS

	Wage	Benefit
District 1	\$36.83	\$26.92
District 2	\$34.83	\$24.68
District 3	\$34.83	\$25.37
District 4	\$34.16	\$25.83

Travel:**All Districts**

0-45 mi. free zone

>45-85 mi. \$100.00/day

>85 mi. \$150.00/day

Duties Include:

Structural steel erection; assemble prefabricated metal buildings; cut, bend, tie, and place rebar; energy producing windmill type towers; metal bleacher seating; handrail fabrication and ornamental steel.

[↑ Back to Table of Contents](#)**IRONWORKERS – STRUCTURAL IRON AND STEEL WORKERS**

	Wage	Benefit
District 1	\$34.94	\$26.37
District 2	\$34.83	\$25.37
District 3	\$34.83	\$25.37
District 4	\$34.83	\$25.37

Travel:**All Districts**

0-45 mi. free zone

>45-85 mi. \$100.00/day

>85 mi. \$150.00/day

Duties Include:

Structural steel erection; assemble prefabricated metal buildings; cut, bend, tie, and place rebar; energy producing windmill type towers; metal bleacher seating; handrail fabrication and ornamental steel.

[↑ Back to Table of Contents](#)**MILLWRIGHTS**

	Wage	Benefit
District 1	\$40.45	\$21.25
District 2	\$40.45	\$21.25
District 3	\$40.45	\$21.25
District 4	\$40.45	\$21.25

Zone Pay:**All Districts**

0-30 mi. free zone

>30-60 mi. base pay + \$4.00/hr.

>60 mi. base pay + \$6.00/hr.

[↑ Back to Table of Contents](#)**PAINTERS: INCLUDING PAPERHANGERS**

	Wage	Benefit
District 1	\$29.40	\$21.48
District 2	\$20.30	\$21.48
District 3	\$29.40	\$21.48
District 4	\$26.64	\$21.48

Travel and Per Diem:**All Districts**

No travel or per diem established.

[↑ Back to Table of Contents](#)

PILE BUCKS

No Rate Established

Duties Include:

Set up crane; set up hammer; weld tips on piles; set leads; insure piles are driven straight with the use of level or plum bob. Give direction to crane operator as to speed and direction of swing. Cut piles to grade.

Zone Pay:

All Districts

0-30 mi. free zone

>30-60 mi. base pay + \$4.00/hr.

>60 mi. base pay + \$6.00/hr.

[↑ Back to Table of Contents](#)

PILOT CAR DRIVERS

No Rate Established

[↑ Back to Table of Contents](#)

PLASTERERS

No Rate Established

Duties Include:

All materials beyond the substrate, such as a moisture barrier, any type of drainage installation between the moisture barrier and insulation or EPS board, the attachment of the EPS board, installation of fiberglass mesh embedded in the base coat, any water-resistant coat that is applied on top of the insulation to serve as a weather barrier, and the application of the finish coat.

[↑ Back to Table of Contents](#)

PLUMBERS, PIPEFITTERS, AND STEAMFITTERS

	Wage	Benefit
District 1	\$40.90	\$17.47
District 2	\$44.90	\$17.47
District 3	\$44.90	\$17.47
District 4	\$40.90	\$20.86

Duties Include:

Assemble, install, alter, and repair pipe-lines or pipe systems that carry water, steam, air, other liquids or gases. Testing of piping systems, commissioning and retro-commissioning. Workers in this occupation may also install heating and cooling equipment and mechanical control systems.

Travel:**District 1**

0-30 mi. free zone
>30-50 mi. \$35.00/day
>50-75 mi. \$45.00/day
>75 mi. \$100.00/day

Special Provision

If transportation is not provided, mileage at \$0.35/mi. for one trip out and one trip back is added to the amounts above. However, if the employee is traveling more than 75 miles/day, only subsistence at the rate of \$85.00/day is required.

Districts 2 & 3

0-45 mi. free zone
>45 mi.

- \$0.00/mi. in employer vehicle.
- \$0.65/mi. in employee vehicle.

Special Provision:

At the contractors' option, mileage for one trip out and one trip back per week may be paid plus subsistence at the rate of \$135.00/day.

District 4

0-70 free zone
>70 mi.

- On jobs when employees do not work consecutive days: \$0.55/mi. if employer doesn't provide transportation. Not to exceed two trips.
- On jobs when employees work any number of consecutive days: \$110.00/day.

ROOFERS

	Wage	Benefit
District 1	\$32.97	\$9.40
District 2	\$32.97	\$9.40
District 3	\$32.97	\$9.40
District 4	\$25.08	\$5.19

Duties Include:

Metal roofing, covers roofs, walls and foundations with water proofing, insulation and vapor barriers in addition to metal flashings. Roofing includes shingles, low slope membranes, metal roofs, insulation, spray foam, coatings and vapor barriers. Wall coverings include metal panels, insulated metal panels and other waterproofing or rain screen systems. Foundation systems include waterproofing and insulation. Excludes prefabricated metal buildings.

Travel:**District 1**

0-50 mi. free zone

>50 mi.

- \$0.00/mi. in employer vehicle.
- \$0.35/mi. in employee vehicle.

District 2 and 3

0-35 mi. free zone

>35 mi.

- \$0.00/mi. in employer vehicle.
- \$0.40/mi. in employee vehicle.

District 4

0-50 mi. free zone

>50 mi.

- \$0.00/mi. in employer vehicle.
- \$0.35/mi. in employee vehicle.

Per Diem:**District 1**

\$84.00/day

District 2 and 3

Employer pays for room + \$30.00/day.

District 4

Employer pays for room + \$25.00/day.

[↑ Back to Table of Contents](#)

SHEET METAL WORKERS

	Wage	Benefit
District 1	\$38.14	\$21.61
District 2	\$38.14	\$21.61
District 3	\$38.14	\$21.61
District 4	\$38.14	\$21.61

Duties Include:

Testing and balancing, commissioning and retro-commissioning of all air-handling equipment and duct work. Manufacture, fabrication, assembling, installation, dismantling, and alteration of all HVAC systems, air conveyer systems, and exhaust systems. All lagging over insulation and all duct lining.

All Districts

0-45 mi. free zone

46-65 mi. \$35/day

>65 mi. \$155/day for overnight stay

>65 mi. if employee is driving/riding in a company vehicle and returns home the same day, drive time shall be paid both ways, and no subsistence paid.

Drive time will be at straight time and there shall be no benefits paid for drive time. Drive time will be outside the regular shift.

[↑ Back to Table of Contents](#)

SOLAR PHOTOVOLTAIC INSTALLERS

	Wage	Benefit
District 1	\$36.50	\$16.76
District 2	\$36.50	\$16.76
District 3	\$36.50	\$16.76
District 4	\$36.50	\$16.76

Travel:**Districts 1, 2 and 3**

No mileage due when traveling in employer's vehicle.

The following travel allowance is applicable when traveling in employee's vehicle:

- 0-08 mi. free zone
- >08-50 mi. federal mileage rate/mi. in excess of the free zone.
- >50 mi. \$60.57/day

District 4

No mileage due when traveling in employer's vehicle.

The following travel allowance is applicable when traveling in employee's vehicle:

- 0-18 mi. free zone
- >18-60 mi. federal mileage rate/mi.
- >60 mi. \$75.00/day

[↑ Back to Table of Contents](#)

SPRINKLER FITTERS

	Wage	Benefit
District 1	\$44.11	\$32.36
District 2	\$44.11	\$23.55
District 3	\$38.70	\$20.37
District 4	\$44.11	\$21.97

Duties Include:

Duties Include but not limited to any and all fire protection systems: Installation, dismantling, inspection, testing, maintenance, repairs, adjustments, and corrections of all fire protection and fire control systems, including both overhead and underground water mains, all piping, fire hydrants, standpipes, air lines, tanks, and pumps used in connection with sprinkler and alarm systems.

Travel**All Districts**

The following travel allowance is applicable when traveling in employee's vehicle.

- 0-60 mi. free zone
- >60-80 mi. \$19.00/day
- >80-100 mi. \$29.00/day
- >100 mi. \$105.00/day + the IRS rate per mile and \$8.92 for every 15 miles traveled for one trip out and one trip back

No travel allowance required when in employer's vehicle except when staying the night.

[↑ Back to Table of Contents](#)

TAPERS**No Rate Established****Travel and Per Diem:****All Districts**

No travel or per diem established.

[↑ Back to Table of Contents](#)**TELECOMMUNICATIONS EQUIPMENT INSTALLERS**

	Wage	Benefit
District 1	\$39.66	\$14.43
District 2	\$22.00	\$11.06
District 3	\$22.00	\$11.27
District 4	\$22.00	\$11.27

Travel:**All Districts**

The federal mileage rate/mi. in effect when travel occurs if using own vehicle.

Per Diem:**All Districts**

Employer pays for meals and lodging up to \$75.00/day. When jobsite is located in Big Sky, West Yellowstone, and Gardiner, lodging and meals will be provided by the employer for all actual and reasonable expenses incurred.

Duties Include:

Install voice; sound; vision and data systems. This occupation includes burglar alarms, fire alarms, fiber optic systems, and video systems for security or entertainment

[↑ Back to Table of Contents](#)**TERRAZZO WORKERS AND FINISHERS****No Rate Established****Duties Include:**

Finish work on hard tile, marble, and wood tile to floors, ceilings, and roof decks

[↑ Back to Table of Contents](#)**Travel and Per Diem**

No travel or per diem established.

TILE AND STONE SETTERS**No Rate Established****Duties Include:**

Apply hard tile, stone, and comparable materials to walls, floors, ceilings, countertops, and roof decks.

[↑ Back to Table of Contents](#)

TRUCK DRIVERS

Pilot Car Driver **No Rate Established**

	Wage	Benefit
District 1	\$23.68	\$ 7.67
District 2	\$23.80	\$ 6.13
District 3	\$23.80	\$ 6.13
District 4	\$23.68	\$ 7.67

Zone Pay:
All Districts
No zone pay established.

Truck drivers include but are not limited to:

Combination Truck & Concrete Mixer; Distributor Driver; Dry Batch Trucks; Dump Trucks & Similar Equipment; Flat Trucks; Lowboys, Four-Wheel Trailers, Float Semitrailer; Powder Truck Driver (Bulk Unloader Type); Servicemen; Service Truck Drivers, Fuel Truck Drivers, Tiremen; Trucks with Power Equipment; Truck Mechanic; Water Tank Drivers, Petroleum Product Drivers.

[↑ Back to Table of Contents](#)

MEASUREMENT AND PAYMENT

SCOPE: The following description of work, measurement of pay quantity, and method of payment shall govern payment to Contractor under this Contract. Payment for these items shall be full compensation for the completed item of work furnished and installed, and the cost of any incidental work or materials required to complete the item.

BASE BID

101. Mobilization. Mobilization shall consist of preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment of offices, buildings, and other facilities necessary for work on the project; and for all other work and operations which must be performed or costs incurred prior to beginning work on the project site. Payment for mobilization will be made at the lump sum price bid for "Mobilization." This payment shall constitute full compensation for all work described above, including but not limited to: transportation of personnel and equipment to the site; setup of temporary facilities such as field offices, storage, and sanitary facilities; obtaining permits and insurance; initial site surveys and staking; coordination with facility operations; and protection of existing equipment and systems. All other pre-construction expenses not specifically included in other bid items shall be considered included in this lump sum. No separate payment will be made for demobilization; it shall be considered incidental to mobilization.
102. Replace Operating Floor (Receiving Chamber, Flume & Rapid Mix): Measurement and payment for this item shall be made at the contract lump sum price for "Replace Operating Floor (Receiving Chamber, Flume & Rapid Mix)." The lump sum payment shall include full compensation for demolition and removal of the existing concrete operating floor and furnishing and installing a new concrete floor over the flume and both Rapid Mix tanks. Work also includes furnishing and installing new stainless-steel framing and stainless-steel diamond plate flooring over the Receiving Chamber, removal and reinstallation of gate valves located in the Receiving Chamber and the Settled Water Flume, installation of a new stainless-steel ladder in the Receiving Chamber, new stainless-steel handrail at designated areas, and removal and reinstallation of existing equipment as needed to facilitate the work. All labor, materials, equipment, and incidental work necessary to complete the item in accordance with the contract documents shall be included in this lump sum.
103. Replace Basement Slab and Beams (Includes MEP): Measurement and payment for this item shall be made at the contract lump sum price for "Replace Basement Slab and Beams (Includes MEP)." This item includes demolition and removal of the existing basement slab and supporting concrete beams and furnishing and installing a new reinforced concrete slab and beam system. Work includes temporary support of existing utilities and equipment, removal and reinstallation of existing boilers, demolition of the existing water heater, removal and replacement of the existing circulation pump, installation of all new mechanical piping, and electrical work to facilitate removal and reinstallation of the boiler plant including its accessories. This item also includes supporting or rerouting of existing piping, conduit or other items currently supported by the slab. All associated labor, materials, equipment, and incidental items required to complete the work shall be considered included in the lump sum price.

ADDENDUM NO. 1 - 8/27/2025

104. Repair Rapid Mix Walls: Measurement and payment for this item shall be made at the contract lump sum price for “Repair Rapid Mix Walls.” This work includes surface preparation by sandblasting and application of a high-performance epoxy coating system to the interior walls of the East and West Rapid Mix tanks. The lump sum shall include all labor, materials, containment and protection systems, equipment access, cleaning, coating application, curing, and all incidental work necessary to complete the repairs in accordance with the contract documents.
105. Replace East Operating Floor: Measurement and payment for this item shall be made at the contract lump sum price for “Replace East Operating Floor.” This item includes demolition and removal of existing wood floor supports and bar grating and furnishing and installing new stainless-steel structural framing and stainless-steel bar grating. Work also includes removal and reinstallation of equipment as needed to complete the work, as well as furnishing and installing new stainless-steel stairs and handrails. All labor, materials, and incidentals required for a complete and functional floor system shall be included in the lump sum.
106. Miscellaneous: Measurement and payment for this item shall be made at the contract lump sum price of \$80,000 for “Miscellaneous.” This item is intended to cover labor, materials, and incidentals associated with unforeseen work only if authorized through a formal change order approved by the Engineer and Owner. The contractor may not use this fund without an approved change order. Payment under this item shall constitute full compensation for work performed under such approved change orders. The remaining money in this item not used for change orders on the project will be withdrawn from the total contract amount and will not be paid to the contractor.

BID ALTERNATIVE NO. 1

201. Repair Roof Trusses: Measurement and payment for this item shall be made at the contract lump sum price for “Repair Roof Trusses.” This work includes surface preparation by sandblasting the top chord of existing steel roof trusses in both the Chemical Room and Filter Room, followed by welding new steel angle reinforcement to the top chord. The lump sum price shall include all labor, materials, welding, preparation, access, safety measures, and incidental work required to complete the structural truss repairs in accordance with the plans and specifications.

BID ALTERNATIVE NO. 2

301. Redundant Heating Hot Water Pump HWP-2. Measurement and payment for this item shall be made at the contract lump sum price for “Redundant Heating Hot Water Pump HWP-2”. The lump sum payment is full reimbursement for all cost of furnish and install the pump including but not limited to isolation and check valves, flow balance device, piping, pump gauge set, temperature control connections, electrical power connection, and all other incidental items necessary to complete the work.

END OF SECTION

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Phased construction.
4. Contractor's use of site and premises.
5. Coordination with occupants.
6. Work restrictions.

1.2 PROJECT INFORMATION

A. Project Identification: Great Falls Water Treatment Plant Headhouse Repairs.

1. Project Location: 1301 Lower River Rd, Great Falls, MT 59405.

B. Owner: City of Great Falls.

1. Owner's Representative: Ryan Shaneybrook (406-771-1258).

1.3 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:

1. Repairs to the basement, main floor, roof trusses and other work indicated in the Contract Documents.

1.4 PHASED CONSTRUCTION

A. Construct the work in phases, with each phase substantially complete as indicated below.

1. Phase 1:

a. Work Items

- 1) Demolish and Replace Receiving Chamber lid with stainless framing and stainless plates.
- 2) Demolish and Replace Rapid Mix and Settled Water Flume with new concrete lids.

GFWTP 1916 Head House Upgrades O.F. 1332.7
Great Falls, Montana

- 3) Demolish and Replace East operating floor with new stainless framing and stainless or fiberglass grating.
- 4) Remove and Replace all handrail with new stainless.

b. Commencement of Construction:

- 1) Notice to Proceed: Contractor shall begin work after receiving the Notice to Proceed.
- 2) Start Date: Work of this phase shall commence by October 2025.

c. Substantial Completion:

- 1) By May 2026.

2. Phase 2:

a. Work Items

- 1) Remove and Reinstall heating system
- 2) Install new heat pump
- 3) Demolish and Replace basement floor.

b. Commencement of Construction

- 1) Start Date: Work of this phase shall commence by May 2026.

c. Substantial Completion:

- 1) By August 2026

- B. Before commencing Work of each phase, submit an updated copy of Contractor's construction schedule, showing the sequence, commencement and completion dates for all phases of the Work.

1.5 CONTRACTOR'S USE OF SITE AND PREMISES

- A. Restricted Use of Site: Each Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.
- B. Limits on Use of Site: Limit use of Project site to Work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
- 1. Limits on Use of Site: Confine construction operations to Main operating floor, basement beneath the operating floor **BUT NOT THE CHLORINE ROOM**, 2nd floor chemical room and filter room.
 - 2. Driveways, Walkways and Entrances: Keep driveways loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or for storage of materials.

GFWTP 1916 Head House Upgrades O.F. 1332.7
Great Falls, Montana

- a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

1.6 COORDINATION WITH OCCUPANTS

- A. Partial Owner Occupancy: Owner will occupy the premises during entire construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
 - 2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

1.7 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
 - 1. Receiving Chamber
 - a. Can be drained for maximum of 8 hours during winter months only (October-April).
 - 1) If the chamber is drained, a 24-hour recovery period is required to prevent stress on the distribution system. As a result, the chamber can only be drained every other day.
 - 2) If the contractor chooses to use pumps to accelerate draining, the discharge may be directed to a nearby manhole located less than 100 feet away.
 - b. Existing monitoring equipment located on the west end of the chamber may be removed for up to 8 hours. The contractor must notify WTP staff prior to removal so staff can record their data.
 - 2. Rapid Mix Chambers
 - a. Plant can be run utilizing one Rapid Mix while the other is drained during winter months only (October-April).

GFWTP 1916 Head House Upgrades O.F. 1332.7
Great Falls, Montana

3. Settled Water Flume
 - a. Flume can be emptied during winter months only (October-April)
4. Basement
 - a. Boilers can be disconnected during the summer months only (May-September)
- B. Noise, Vibration, Dust, and Odors: Coordinate operations that may result in high levels of noise and vibration, dust, odors, or other disruption to Owner occupancy with Owner.
 1. Notify Owner not less than two days in advance of proposed disruptive operations.
- C. As the site management deems necessary, any activity causing or threatening the ability of the site to safely control the process, meet safe work requirements of the project, or meet regulatory requirements and standards for the site, will be terminated until a mitigating plan can be enacted to allow for improved management of the work activity.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

GFWTP Headhouse Repairs
Great Falls, Montana

SECTION 02 83 00– LEAD REMEDIATION

Exhibits of the areas to be abated are identified in the *Project Manual*.

PART 1 – GENERAL

The work in this Section includes the furnishing of labor, materials, tools, equipment, services, and incidentals necessary to complete all activities impacting lead-in-paint in accordance with all project drawings and specifications.

1.1 PROJECT BACKGROUND

- A. An asbestos and lead paint inspection were performed by TD&H Engineering (TD&H) on March 7, 2025, at the Great Falls Water Treatment Plant (GFWTP). The inspection was limited to building materials subject to the planned renovation within the Head House, the basement under the Head House, and metal framing, trusses, and support beams. No asbestos containing materials were identified during the inspection. Lead based paint (LBP) and lead containing paint (LCP) were identified on the main level and the basement.
- B. Lead levels in paint were analyzed by an X-ray fluoroscope (XRF). The U.S. Environmental Protection Agency (EPA) defines LBP as an applied paint with greater than or equal to 1.0 milligrams per square centimeter (mg/cm²) lead. LCP is defined as paint that contains measurable amounts of lead in quantities less than that of LBP. Painted surfaces were placed into homogenous areas (HAs) by identical colors, substrates, and building component types. Four HAs were identified as positive for LBP and five HAs were identified as LCP.
- C. The four LBP HAs identified are located on the main floor. The red painted metal support beams measured 3.8 mg/cm² lead to 5.3 mg/cm² lead. The red paint along the top vertical stair to the Head House platform measured 2.3 mg/cm² lead. The beige painted brick and mortar walls and door trim along the Head House platform measured 1.7 mg/cm² lead and 5.3 mg/cm² lead respectively.
- D. LCP was found on the main level and basement of the GFWTP. The gray metal railing, the gray/silver metal wheel pedestal, the black metal wheel, and the gray wood floor panel located on the main level Head House platform had LCD. The gray painted concrete floor in the basement contained LCD. Detailed information regarding the presence and locations of LCP are identified in the *Great Falls Water Treatment Plant Asbestos and LBP Report* by TD&H.

GFWTP Headhouse Repairs
Great Falls, Montana

1.2 DESCRIPTION OF WORK

- A. On the main level, LBP abatement is planned for three trusses located above water treatment tanks. LBP shall be removed along truss beams adjacent and parallel to the ceiling, in situ. Wet methods of abatement shall be the preferred method for any abatement required for removal of paint.
- B. LCD components located on the Head House platform shall be removed intact and replaced or reinstalled. The gray metal railing shall be removed and recycled. The black metal wheels and corresponding gray/silver pedestals shall be removed and stored within the facility for reinstallation by the general contractor. Gray painted wood floor planks and hatches shall be removed and disposed of accordingly
- C. Wet methods shall be the preferred technique to remove the red LBP on the stairs up to the Head House platform.
- D. Wet methods shall be the preferred technique to remove the beige LBP brick and mortar walls that will be impacted per renovation plans. Although the paint on the brick-and-mortar walls is in poor condition, areas not impacted per renovation plans are not within the scope of work and shall not be abated.
- E. Wet methods shall be the preferred technique to remove gray LCP floors in the basement

1.2.1 Personal Protective Equipment

- A. Contractor personnel shall wear appropriate personal protective equipment (PPE) when working with LBP and LCP. PPE shall consist, at a minimum, of Level D clothing if no sanding, grinding, or abrading of painted surfaces is occurring. If work activities may result in abrasion or volatilization of painted components containing lead, workers shall wear a minimum of Level C clothing, including proper respiratory protection. This respiratory protection shall consist, at a minimum, of a P100-equipped, negative-pressure, air-purifying respirator.
- B. Reduction in the required PPE will only be permitted after the Contractor's industrial hygienist has accumulated adequate negative exposure assessment (NEA) data to indicate that the specific combination of workers, work activities, and equipment do not result in exposures to airborne lead at or above the level of OSHA's permissible exposure limit (PEL).

1.2.2 Bidding

- A. The Contractor shall reference renovation plans, these specifications, and the drawings found in this *Project Manual*, showing building materials containing LBP and LCP. LBP and LCP shall be removed from all surfaces to be impacted by

GFWTP Headhouse Repairs
Great Falls, Montana

renovation. Components covered in LCP shall be removed during abatement, and recycled or properly disposed of, with exception to the wheels and pedestals, which shall be properly contained until reinstallation post-renovation. LCP is identified to assist the Contractor in complying with OSHA regulations. Access to the site will be provided to all bidders. This access will include mandatory pre-bid walk-throughs for the Contractor to verify square footage and location of surfaces having LBP and LCP.

1.2.3 Abatement Work

- A. Where abatement is required, the work shall be accomplished in a regulated work area designated by warning tape and signs and consisting of support, decontamination, and exclusion zones. Removal of LBP and LCP shall be accomplished using negative pressure or wet methods, including high efficiency particulate air (HEPA) vacuums and constant misting of debris. No visible emissions (dust) shall be allowed.

1.3 AIR MONITORING

- A. The Contractor is responsible to perform personal exposure monitoring of abatement workers in accordance with OSHA regulation 29 CFR 1926.62. The Contractor may provide an industrial hygiene technician (IHT) who will assist the Contractor with the collection and analysis of samples.
- B. All Contractor personnel shall utilize appropriate PPE during all parts of the work. The Contractor's IHT will perform NEAs to determine if the Contractor may relax PPE requirements for particular phases of the work.
- C. The Owner's Representative may collect air samples outside of containment during abatement activities to assess indoor air quality for lead.

1.4 DEFINITIONS

- A. **Abatement:** Any measures designed to permanently eliminate lead paint hazards.
- B. **Action Level (AL):** Per 29 CFR 1926.62 (b), employee exposure, without regard to the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) calculated as an 8-hour time-weighted average (TWA).
- C. **Clearance Testing:** Final visual inspections and wipe testing for evidence of LBP or lead debris may be performed at the completion of each phase of the work by the Owner's Representative. Wipe sample clearance criterium will be 200 micrograms/square foot ($\mu\text{g}/\text{ft}^2$) which is the acceptable lead loading (surface dust

GFWTP Headhouse Repairs
Great Falls, Montana

levels) identified in compliance instruction (CPL 2-2.58) for lead in the construction industry.

- D. **Competent Person:** A person who is capable of identifying lead paint hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them.
- E. **Disposal:** Procedures necessary to transport and depose of LBP and LCP removed from the site in accordance with applicable federal, state, and local laws, regulations, codes, and standards.
- F. **Inspection:** The process through which substrates with lead-based or lead-containing paint are identified.
- G. **Lead:** metallic lead, all organic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.
- H. **Lead-Based Paint:** Paint for which paint chip samples exhibit a content equal to or greater than 5,000 milligrams per kilogram (mg/kg) of lead or XRF samples exhibiting lead content ≥ 1.0 milligram per square centimeter (mg/cm²).
- I. **Lead-Containing Paint:** Paint that contains measurable amounts of lead in quantities less than that of lead-based paint.
- J. **Negative Exposure Assessment (NEA):** An assessment that uses objective data to demonstrate with a high degree of certainty that the PEL will not be exceeded. This can be achieved through personnel monitoring or through prior monitoring of similar work operations.
- K. **Owner:** Great Falls Water Treatment Plant
- L. **Permissible Exposure Limit (PEL):** Legal limit for exposure of an employee to a chemical substance or physical agent. The PEL for lead is 50 µg/m³ and is applied as a TWA.
- M. **Personal Exposure Monitoring:** Exposure monitoring that involves sampling air within the breathing zone of worker(s) deemed most likely to encounter the highest concentrations of airborne lead.
- N. **Resource Conservation and Recovery Act (RCRA):** RCRA is the principal federal law governing the disposal of solid waste and hazard waste.
- O. **Toxicity Characteristic Leaching Procedure (TCLP):** TCLP is laboratory extraction methods for chemical analysis employed as part of an analytical method to simulate leaching potential in landfills. The testing method is used to

GFWTP Headhouse Repairs
Great Falls, Montana

determine if a waste is characteristically hazardous, i.e. classified as a "D-listed" waste by the U.S EPA which are based on criteria of corrosivity, ignitability, reactivity, or toxicity.

- P. **Site:** Main level and basement of the Great Falls Water Treatment Plant located at 1301 Lower River Road, Great Falls, Montana 59405.
- Q. **Substrate:** The material to which paint has been applied.

1.5 APPLICABLE PUBLICATIONS

- A. This section sets forth government regulations and industry standards which are included and incorporated herein by reference and made a part of the LBP and LCP abatement work plan.
- B. The Contractor shall adhere to the most stringent requirements of these specifications and all applicable federal, state, and local laws, regulations, codes, and standards. The most current edition of each publication shall be used.
- C. The Contractor shall assume full responsibility for Contractor personnel and all Subcontractor personnel to comply with any applicable federal, state, and local requirements concerning abatement work practices, worker protection, transport and disposal, and health and safety during the abatement project. The Contractor will not be held responsible for actions of personnel other than Contractor and Subcontractor personnel.

1. Code of Federal Regulations (CFR)

29 CFR 1926.62	Construction Industry Standard (1994)
29 CFR 1926.500	Guardrails, Handrails, and Covers
29 CFR 1910.134	Respiratory Protection
29 CFR 1910.145	Specifications for Accident Prevention Signs and Tags
40 CFR 260-269	Resource Conservation and Recovery Act, Subtitle C
49 CFR 171	Transportation
29 CFR 100.185	US Hazardous Material Regulations

2. Toxic Substance Control Act (TSCA)

Sections 402/404	Lead Abatement Program: Training and Certification Program for LBP Activities
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3. American National Standard Institute (ANSI) Publications:

GFWTP Headhouse Repairs
Great Falls, Montana

Z88.2-1980

Practices for Respiratory Protection
National Institute for Occupational Safety
and Health (NIOSH)

4. United States Code

49 USC 5105.5127

Transportation of Hazardous Materials

5. State of Montana Publications

Administrative Rule of Montana (ARM) Title 17 Chapter 53 Hazardous
Waste.

Montana Code Annotated (MCA) 2015, Title 17 Chapter 10 Part 4
Hazardous Waste Management.

6. Applicability of Work Procedures of 29 CFR 1926.62

This regulation applies to all construction work in which an employee
may be occupationally exposed to lead.

1.6 AUTHORITIES OF THE CONTRACTOR'S INDUSTRIAL HYGIENIST

- A. The Contractor may choose to hire an independent industrial hygienist to observe the Contractor's work practices, outline recommended removal approaches, and conduct workplace air monitoring (including NEAs). In completing this work, the Contractor's IHT may complete the following tasks:
1. Task 1: Review the Contractor's proposed work plan and procedures for the abatement.
 2. Task 2: Provide project oversight, monitoring, and assistance to the Contractor personnel throughout the paint removal from components of the abatement project.
 3. Task 3: Provide adjacent area air monitoring during paint removal work.
 4. Task 4: Prepare a written report documenting project activities and project close-out paperwork.
- B. The Contractor's independent IHT will perform industrial hygiene services at the cost of the Contractor. Contractor's IHT will be granted site access as an employee of the Contractor.

GFWTP Headhouse Repairs
Great Falls, Montana

1.7 AUTHORITIES OF THE OWNER'S REPRESENTATIVE

- A. The Owner's Representative has the authority to stop work in the event that the Contractor's actions are deemed unsafe or otherwise at variance with these specifications. The Owner's Representative will bring said breach of safety or procedure to the attention of the Contractor and permit the Contractor to rectify the deficiency. Any expenses incurred as a result of the Contractor's failure to follow the requirements of this specification shall be deducted from the contract amount. The Owner's Representative will complete the following tasks:
 - 1. Task 1: Conduct air monitoring at ingress/egress of containment during abatement procedures to make sure no lead escapes containment.
 - 2. Task 2: Provide post-abatement visual inspections and possible clearance lead wipe sampling.
 - 3. Task 3: Provide a written report documenting project activities and project close-out paperwork.

1.8 HEALTH AND SAFETY QUALIFICATIONS OF THE CONTRACTOR

- A. Per 29 CFR 1926.62, the Contractor shall prepare a work plan to include work procedures and a project-specific personnel safety and health plan. The work plan shall include the procedures to be used to protect workers against the physical, chemical, and biological hazards, emergency response procedures, and means for minimizing the potential for the spread of lead to other debris or the environment.
- B. Workers who may be exposed at or above the AL of 30 µg/m³ shall present proof of training in accordance with 29 CFR 1926.62 or they may receive this training from the Contractor's IHT or another party approved by the Contractor.
- C. Per 29 CFR 1926.1101, the Contractor shall provide all workers with a comprehensive medical examination prior to allowing employees to perform LBP related work activities, if activities are likely to expose employees to lead concentrations above the PEL. The Contractor shall maintain complete and accurate records of each employee's medical monitoring.
- D. All workers shall have certification for EPA's Lead-Based Paint Renovation, Repair, and Painting Program Rule contained in 40 CFR Part 475, Subpart E, which requires workers to be trained to use lead-safe work practices and requires renovation firms to be EPA certified.

1.9 REMOVAL AND DISPOSAL GENERAL REQUIREMENTS

- A. Permits and Notifications

GFWTP Headhouse Repairs
Great Falls, Montana

1. The Contractor shall obtain all necessary permits and notify all applicable agencies in addition to following the requirements delineated in the Construction Contract and Supplementary Conditions.

B. Safety Compliance

1. In addition to the decontamination requirements of this LBP and LCP abatement work plan, the Contractor shall ensure that lead-contaminated waste is stored in Department of Transportation (MDT) approved UN/NA containers. The Contractor shall ensure recyclable metals covered by lead paint and lead-contaminated waste are stored on concrete, plastic, or by other methods that will prevent the contamination of soil or other environmental media. Non-metal LBP or LCP components removed for disposal are subject to TCLP analysis for hazard contamination identification.

C. Respirator Program

1. The Contractor shall have an established written respiratory protection program as required by 29 CFR 1910.134. This program shall be available on site through the duration of the project.

1.10 SUBMITTALS

A. Pre-work Submittals: Pre-work submittals shall be coordinated with the Owner's Representative. These shall include:

1. Project Schedule – The Contractor's work shall be coordinated with the Owner and the Owner's Representative. Adherence to the overall schedule will be required to allow the work to proceed. Once a schedule has been developed, any change in the schedule may only be done with the consent of the Owner's Representative. This LBP and LCP abatement schedule shall be included in the overall project schedule furnished with the pre-work submittals.
2. Insurance Certificates – The Contractor shall provide certificates as evidence that he/she possesses insurance in accordance with the contract documents. The Owner shall be listed as additional insured on all policies. The Contractor shall indemnify, hold harmless, and defend the Owner and any of his/her affiliates, entities, agents, employees, and officers from and against any and all losses, claims, and judgments, including expenses of any of the work covered by this Section.
3. Work Plan – Per 29 CFR 1926.62, the Contractor shall prepare a work plan which addresses LBP and LCP. The work plan shall include:

GFWTP Headhouse Repairs
Great Falls, Montana

- a. Work procedures. Provide a description of all lead-in-paint removal methods to be used and sequence of activities. Include procedures to prevent lead from contaminating clean surfaces and from exiting the work area.
 - b. Project-specific safety and health plan. The safety and health portion of the work plan shall include the procedures to be used to protect workers against the physical, chemical, and biological hazards, emergency response procedures, and means for minimizing the potential for the spread of lead to other areas or the environment. Include Safety Data Sheets for all chemicals to be used on the project.
 - c. Respirator Program. The Contractor shall have an established written respiratory program as required by 29 CFR 1910.013. This program shall be included in the work plan, and the respirator program shall be available on site through the duration of the project.
 - d. Decontamination procedures. Provide the location and layout of the decontamination system and explain the intended decontamination sequence and procedures.
 - e. Disposal plan. The Contractor shall include a plan for disposal of LBP and LCP debris resulting from abatement activities. The plan shall identify the waste hauler, and the licensed Class I or Class II landfill that will accept the waste.
 - f. Final clean-up procedures. Provide a description of final clean-up procedures to be used.
 - g. Site access plan. Include detailed procedures for the staging areas and access routes. Include the method to be employed to ensure the integrity of existing structures and utilities proximate to the work area.
 - h. Emergency procedures. Provide a description of emergency procedures to be followed in case of injury, fire, structural collapse, and other foreseeable incidents. Include evacuation procedures, source of medical assistance (names and phone numbers for fire, police, emergency squad, local hospital, the Owner, and the Owner's Representative), and procedures to be used for access by medical personnel.
 - i. Sketches of intended work zones. The layout of the work zone, decontamination system, containment areas, and staging areas shall be provided in the work plan.
4. Worker Training – Workers who may be exposed at or above the AL of 30 $\mu\text{g}/\text{m}^3$ shall present proof of training in accordance with 29 CFR 1926.62.
 5. Medical Examinations – Per 29 CFR 1926.1101, the Contractor shall provide all workers who may be exposed to airborne lead exceeding OSHA's PEL with a comprehensive medical examination prior to allowing employees to

GFWTP Headhouse Repairs
Great Falls, Montana

perform LBP related work activities. The Contractor shall maintain complete and accurate records of each employee's medical monitoring.

6. Personal Protective Equipment – Provide a description of protective clothing, fall protection or restraints, and approved respirators to be used.
7. Equipment – Provide manufacturer's specifications for all equipment to be used.
8. Product Data – Include product data for all products described under 2.2 Product Data.
9. Certificates and Compliance – Submit certification that vacuums, ventilation equipment, and other equipment required to contain airborne lead dust conform to ANSI Z9.2.
10. Permits and Notifications – Submit copies of regulatory agency abatement permits and notifications obtained by the Contractor, copies of all types of specified insurance, and notification of insurance companies indicating extent of coverage.

B. Final Submittals: Final submittals shall be coordinated with the Owner's Representative. These shall include:

1. Certification – The Contractor shall provide written certification that work has been fully completed in strict accordance with these specifications.
2. Air Monitoring – The Contractor shall submit documentation of all employee's personal air monitoring results relative to the OSHA respiratory protection level compliance. Documentation shall include copies of all air monitoring data and analysis reports conducted at the site.
3. Project Record Documents – The Contractor shall provide a record of abatement work with all contract changes clearly indicated, project photographs, security log, safety log, sign-in sheets, supervisor's daily field reports, and similar final record documentation.
4. Disposal Manifests – The Contractor shall submit copies of all LBP and LCP waste disposal transportation and disposal manifests including signed receipts from the landfill.

GFWTP Headhouse Repairs
Great Falls, Montana

PART 2 – PRODUCTS

2.1 SAFETY EQUIPMENT REQUIREMENTS

- A. Respiratory Equipment: Respirators will be selected from those approved by the Mine Safety and Health Administration, the Department of Labor, and/or NIOSH. Upon request or if conditions warrant a higher level of protection, personnel shall be provided with a powered-air-purifying respirator while engaged in the abatement, renovation, and or demolition of materials containing LBP and LCP.
- B. Optional Respirators for Handling LBP and LCP: Personnel engaged in the preparation of the work area may choose to utilize a half-face respiratory equipped with HEPA (P100) filters.
- C. Special Clothing: Abatement personnel exposed to airborne LBP and LCP during abatement operations shall be provided with disposable whole body protective clothing. One-piece clothing is preferred. Leather, nitrile, or rubber gloves, as appropriate, may be utilized during abatement to protect abatement workers. Reusable protective clothing and footwear shall be left inside the work area or equipment room. These items shall then be disposed as LBP contaminated waste or be decontaminated (laundered) in accordance with 29 CFR 1926.62.
- D. Eye Protection: Protective goggles may be utilized by personnel engaged in LBP and LCP abatement activities when the use of a full-face respirator is not required.
- E. Warning Signs and Labels: Warning signs shall be posted and maintained at all approaches to LBP abatement work areas. Warning signs provided for this project shall be of sufficient size to be clearly legible, displaying the following:

**DANGER
LEAD WORK AREA
MAY DAMAGE FERTILITY OR THE UNBORN CHILD
CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM
DO NOT EAT, DRINK OR SMOKE IN THIS AREA**

Warning labels shall be provided and affixed to all products contaminated with lead, including waste disposal bags or drums. Sign and label formats shall conform to the applicable regulations and requirements of the hauling company and disposal facility.

2.2 PRODUCT DATA

- A. Salvaging and Abatement Equipment: The Contractor shall supply all necessary equipment to disassemble building components, perform localized LBP and LCP

GFWTP Headhouse Repairs
Great Falls, Montana

abatement, and construct decontamination and staging areas in accordance with this specification and 29 CFR 1926.62.

- B. Vacuum Equipment: Submit specifications and product data for all vacuum equipment for cleaning personnel clothing and other decontamination purposes as proposed for use on this project. Include evidence of approval and testing of HEPA H13 or H14 exhaust filtration and wetting and packaging methods for waste collection.
- C. Plastic Sheetting: Plastic sheeting of 4 mil (0.10 mm) and 6 mil (0.15 mm) thickness shall be utilized to line dumpsters, wrap waste, and to capture potentially lead-contaminated materials in areas where it might be disturbed. Plastic sheets may be either clear or opaque. Black plastic may be used in the construction of decontamination units.
- D. Tape: Appropriate tape shall be utilized, and it shall be capable of sealing joints of adjacent sheets of plastic, attaching plastic sheets to finished or unfinished surfaces of dissimilar materials, and adhering under both wet and dry conditions, including the use of amended water.
- E. Impermeable Containers: Impermeable containers shall consist of 6-mil plastic bags and/or metal drums with tightly fitting lids. The containers shall be labeled in accordance with OSHA and EPA regulations and shall be airtight.

PART 3 – EXECUTION

3.1 EXECUTION OF ABATEMENT

- A. Work area preparation, abatement, and clean-up procedures as well as waste packaging, handling, transport, and disposal of materials containing LBP and LCP shall be accomplished in accordance with 29 CFR 1926.62 Appendix B, these specifications and figures, and the approved work plan.
- B. Continuous oversight of demolition and salvage of components containing lead during execution of the work shall be performed by an individual with training and experience in lead abatement, who will function as the Competent Person for the execution of work. The Competent Person shall be the Contractor's onsite superintendent, Abatement Contractor, or the Contractor's industrial hygienist. If the latter, the Contractor's industrial hygienist shall provide, review, and make recommendations for work practices to the Contractor's superintendent.
- C. Work shall be conducted to minimize the need for LBP abatement. Wet methods are the preferred technique to remove painted surfaces.

GFWTP Headhouse Repairs
Great Falls, Montana

- D. Double layer 6 mil polyethylene sheeting shall be used to protect clean surfaces from lead contamination during abatement.

3.1.1 Metal Substrates with LBP or LCP

- A. Metal surfaces with LBP or LCP, treated in situ, shall be contained properly as to prevent liberated particles from migrating out of containment. Procedures to promote safety, health, and protection of the environment per 29 CFR 1926.62 shall be followed. Dust resulting from paint removal on metal surfaces must be removed by wet wiping, vacuuming using HEPA filtration equipment, or other suitable methods.
- B. Scaffolding may be used to create an elevated platform necessary to access the ceiling trusses for abatement. Portions of the trusses are located over water filtration basins, requiring extra care not to let lead particles escape containment and prevent workers from falling into the basins.

3.1.2 Wooden or Other Porous Substrates with LBP or LCP

- A. Porous surfaces with LBP or LCP, such as wood, concrete, and brick and mortar, shall be contained properly as to prevent liberated particles from migrating out of containment during soda blasting abatement processes. Chemical stripping of the LBP or LCP is an option provided the air within the containments is ventilated to the building exterior. Arrangements to use chemical stripping shall be made with the Owner before lead abatement activities. The components with LBP or LCP may be marked and separated from other debris and loaded separately into a holding unit for transport to an appropriate Class I or Class II landfill for disposal. Procedures to promote safety, health, and protection of the environment per 29 CFR 1926.62 shall be followed. Dust on wooden components must be removed by wet wiping, vacuuming using HEPA filtration equipment, or other suitable methods.

3.2 PROJECT SITE CONDITIONS

- A. Emergency procedures and escape routes from the work area shall be established and maintained throughout the duration of the project.

3.3 USE OF EXISTING FACILITIES

- A. Water and electrical services will be available to the Contractor. Upon water use, the Contractor shall verify there are no leaks present. If leaks are found, the

GFWTP Headhouse Repairs
Great Falls, Montana

Contractor shall plug and fix leaks immediately. Restrooms at the facility are available for use during abatement.

3.4 CONDITIONS OUTSIDE THE WORK AREA

- A. Contractor's activities shall not contaminate areas outside the work area with concentrations of lead above background levels.

3.5 ACCESS TO WORK AREA

- A. Access to the work areas shall be controlled through the use of signs, barricades, or other means as appropriate. The Contractor's employees, the Owner, and the Owner's Representative shall be the only individuals allowed into the work area. All individuals shall provide documentation that they have received appropriate training in LBP and LCP related work activities. The Contractor must provide PPE for entering the work area.

3.6 WORK PRACTICES

- A. Post warning signs meeting the specifications of OSHA 1926.62 at maximum 30-ft intervals and at the locations of approaches to the LBP abatement area. Signs shall be posted sufficiently distant from the work area to permit an employee to read the sign and take necessary precautionary measures to avoid exposure.

3.6.1 Demarcation

- A. All openings between the work area and areas outside the work area (exclusion zone and support zone) shall be demarcated with a minimum of one continuous piece of yellow plastic warning tape.

3.6.2 Emissions

- A. No visible emissions (dust) shall be allowed. Mist all waste with water containing either a surfactant or a wetting solution to prevent the release of airborne particles.

3.6.3 Secured Waste

- A. The Contractor shall be responsible for obtaining transport for salvaged recyclable metals, specialized dumpsters or scheduled pickup for lead waste (Class II landfills), dumpsters or other transport for general, lead-free waste, and for arranging disposal with a state-approved landfill. The Contractor shall promptly bag all LBP and LCP waste to prevent drying or disturbance and seal waste bags with duct tape. Waste may be stored in a designated area until the end of the shift

GFWTP Headhouse Repairs
Great Falls, Montana

awaiting decontamination and transport to the lead waste dumpster. General waste may be transported by mechanical means to general waste dumpsters. Waste shall not be allowed to accumulate in the support zone. Secure all dumpsters against entry during off-work hours.

3.7 ISOLATION OF THE WORK AREA

- A. Where feasible, secure the work area using fencing or other means at hand to discourage entry by unauthorized persons. Warning tapes and signs shall be the minimum means of isolation and shall be used both in locations where other means of discouraging ingress are available and where such means are absent.

3.8 MAINTENANCE OF WORK BARRIERS AND DECONTAMINATION ENCLOSURE SYSTEM

- A. Following construction of all warning barriers and decontamination units, the work area will be inspected by the Owner's Representative to ensure these elements are adequate before beginning actual abatement activities.
- B. Any polyethylene barriers used in the worker decontamination enclosure system or at any partitions constructed to isolate the work area, will be inspected at least twice daily by the onsite competent person, prior to the start of workday abatement activities and following the completion of abatement activities for the day.
- C. Should waste materials be observed outside the work area, work shall be stopped immediately, the materials shall be cleaned up using a vacuum equipped with a HEPA filter and/or wet mopping, and a visual inspection will be performed.
- D. If air samples collected outside the work area during lead abatement activities indicate airborne lead concentrations greater than the AL of $30 \mu\text{g}/\text{m}^3$, work shall cease immediately for review of work procedures. If contamination outside the work area appears likely, the work area must be extended to include the affected area.

3.9 APPLICABILITY OF WORK PROCEDURES OF 29 CFR 1926.62

- A. The OSHA standard cites a PEL of $50 \mu\text{g}/\text{m}^3$ and an AL of $30 \mu\text{g}/\text{m}^3$. Any amount above these levels triggers several safety and health provisions a Contractor must comply with, including, but not limited to:
 - 1. A respiratory protection program
 - 2. Personal protective clothing and equipment
 - 3. Changing areas including segregated storage of work and non-work clothing
 - 4. Hand-washing facilities

GFWTP Headhouse Repairs
Great Falls, Montana

5. Blood testing
6. Employee training

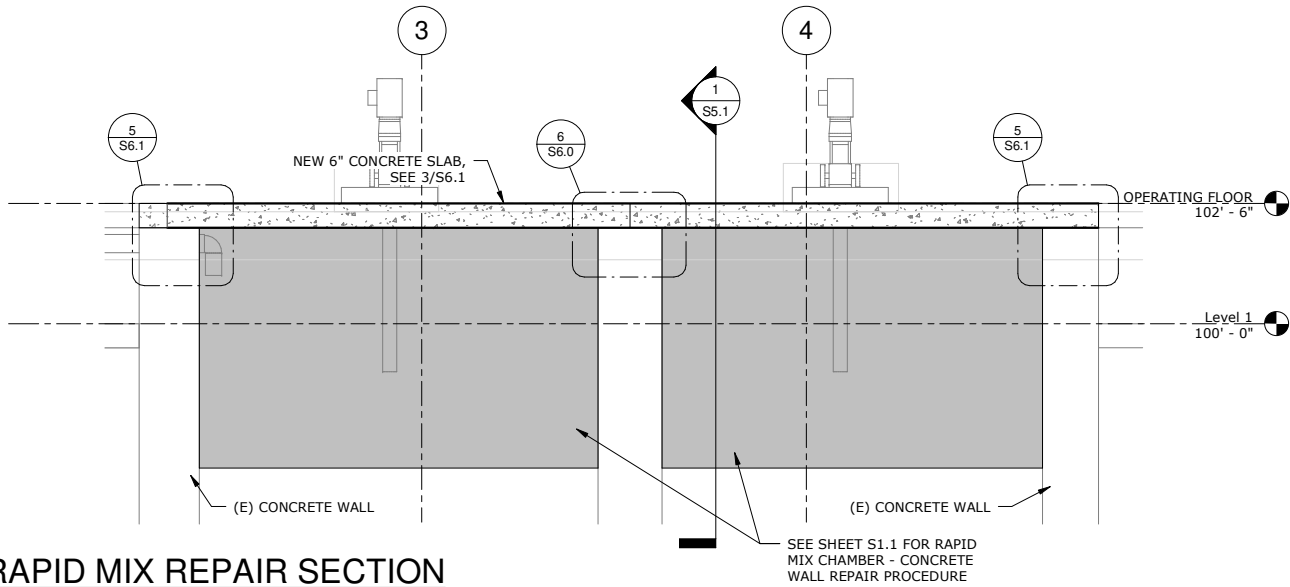
B. Work procedures of 29 CFR 1926.62 (listed above) also apply if the AL or PEL is exceeded or if an employee is performing any of the following tasks:

1. Manual demolition, dry scraping, or dry sanding
2. Heat gun applications
3. Power tool cleaning
4. Other industrial operations involving lead as specified in the OSHA standard

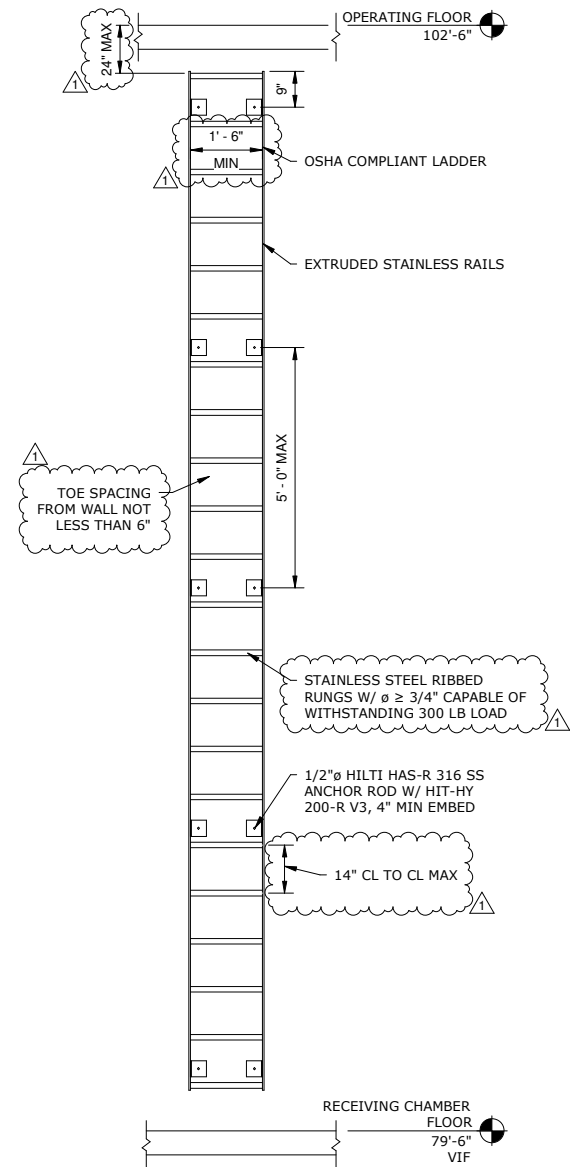
3.10 WASTE DISPOSAL

- A. The Contractor shall perform toxicity characteristic leaching procedure (TCLP) sampling on all renovation waste. If the waste contains more than 5 milligrams per liter (mg/L) of lead, a certified hauler shall be used to transport the waste for disposal in accordance with Montana Department of Transportation and RCRA regulations, and the waste must be disposed of according to the most stringent of all federal, state, and local regulations.
- B. The Owner encourages recycling metals as a method of hazardous waste disposal.

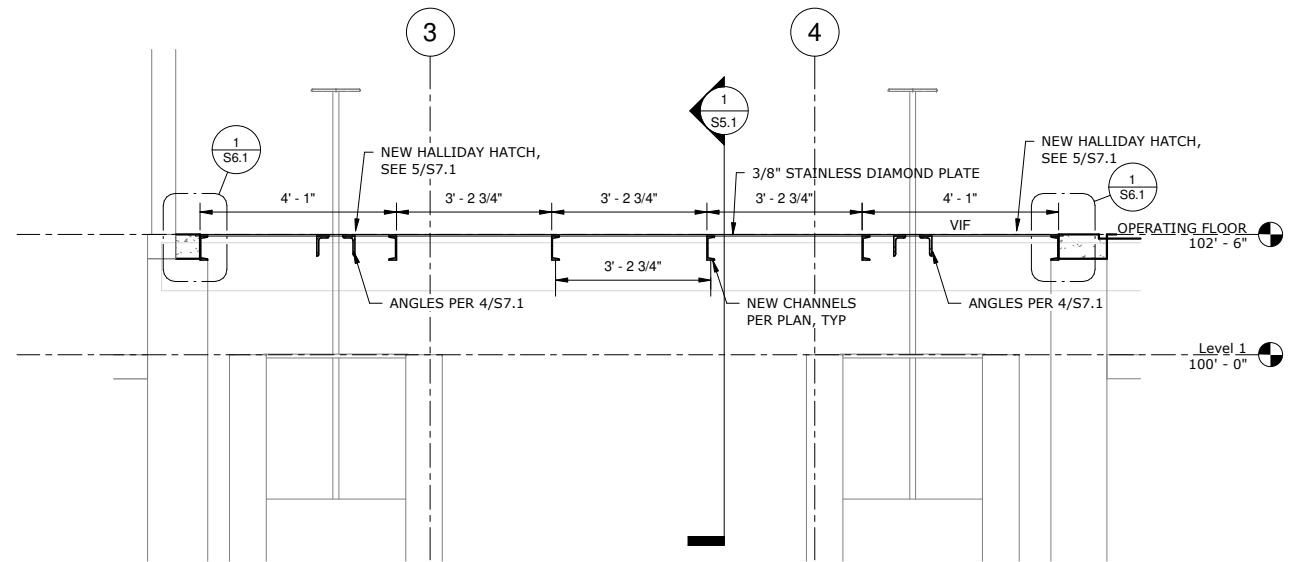
END OF SECTION



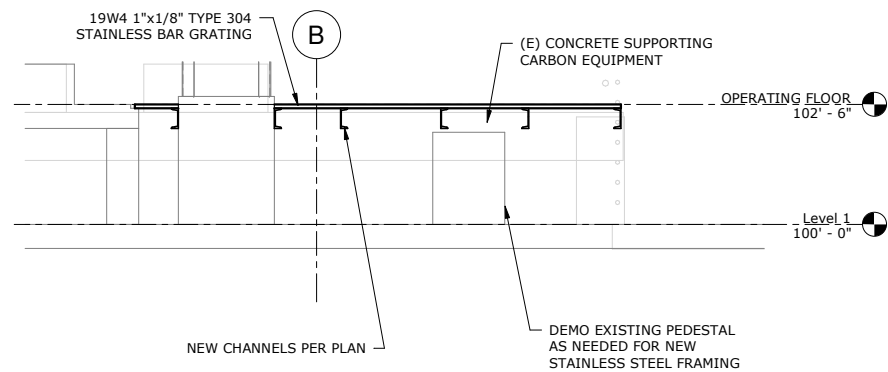
1 RAPID MIX REPAIR SECTION
1/2" = 1'-0"



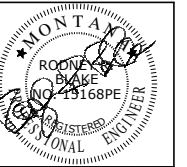
3 TYP RECEIVING CHAMBER LADDER DETAIL
1/2" = 1'-0"



2 RECEIVING CHAMBER REPAIR SECTION
1/2" = 1'-0"



4 EAST OPERATING FLOOR REPAIR SECTION
1/2" = 1'-0"



REV	DATE	REVISION
1	8/26/25	Addendum 1



DRAWN BY:	RLT
DESIGNED BY:	JTA
QUALITY CHECK:	RRB
DATE:	8/3/2025
JOB NO:	23-232
FIELDBOOK:	

GREAT FALLS WATER TREATMENT PLANT O.F. 1332.7 GREAT FALLS, MT	1916 HEAD HOUSE UPGRADES BUILDING SECTIONS
SHEET	S5.2