CITY OF WELLSBURG
BROOKE COUNTY, WEST VIRGINIA

CONTRACT #II – WATER TREATMENT PLANT IMPROVEMENTS

ADDENDUM #3

MARCH 19, 2021

THRASHER PROJECT #101-010-01117

TO WHOM IT MAY CONCERN:

The following are clarifications and responses to questions posed by Contractors for the above-referenced project.

A. SPECIFICATIONS

1. Replace Index for Volume 2 in its entirety.
2. Add Section 087100 – Door Hardware in its entirety.
3. Section 463623 – Flouride Scale and Secondary Containment, replace Section 2.2.A.1 "Indicator shall monitor 2 channels" with "indicator shall monitor 1 channel."
4. Replace Section 400553 – Process Valves and Appurtenances in its entirety with attached.
5. Add Section 061053 – Miscellaneous Rough Carpentry in its entirety.

B. DRAWINGS

1. Replace Sheet S1.09 in its entirety.

C. QUESTIONS AND RESPONSES

QUESTION:

1. Clarification requested regarding the scale: The Owner is wanting one scale, however; they are calling for a two-channel indicator. A two-channel indicator means that they are wanting to operate two scales with one two channel indicator. We are assuming they are planning to add a second scale later. If they aren't going to add a second scale later, then they only need a one-channel indicator. Please clarify.

RESPONSE:

A one channel indicator shall be provided.

QUESTION:

2. Approximately how deep are the two existing sludge lagoons?

RESPONSE:

The existing lagoons are approximately 20 feet. Bids should be based on the quantity provided in the unit price schedule. Payment will be provided based on actual excavation of material. Final depth will be based on reaching competent dirt as determined by the Engineer.

QUESTION:

3. What are the dimensions of the foundation knee walls, curbs, and slab on grade as shown on drawing S1.09 Detail B?

RESPONSE:

Refer to revised Sheet S1.09.

QUESTION:

4. How deep are the relict foundations of the original WTP that we are building the new addition on?

RESPONSE:

The depth of the foundations is unknown. There are no existing drawings of the original plant. During the demolition of the plant, the foundations were left in place and backfilled with brick.

QUESTION:

5. Are there any old civil/architectural drawings available that illustrate the original WTP?

RESPONSE:

There are no existing drawings of the original plant.

QUESTION:

6. When is the last day for questions to be submitted?

RESPONSE:

The last day for questions is 7 days prior to bid opening or March 17th.

QUESTION:

7. Please confirm that this is a tax exempt project?

RESPONSE:

Yes, this project is tax exempt for sales tax. There is a B&O tax of 1% gross as part of this project.

QUESTION:

8. Are we allowed to visit the site? If so, who do we contact to arrange that?

RESPONSE:

Contact Steve Maguschak, City of Wellsburg City Manager, at 304-737-2104 to schedule a site visit.

QUESTION:

9. Is flood insurance required under the Builders Risk Coverage?

As I am sure you are aware flood insurance is costly and has a $500,000 limit through National Flood and does not cover any contents of build. Does the Owner currently have flood coverage?

RESPONSE:

Flood insurance is not required under the Builders Risk Coverage.

QUESTION:

10. Please delete SC6.05.A. 15 "the benefit of Owner loss of profit and soft cost coverage……" or provide an approximate dollar amount of the Owners needed monthly coverage for expenses, debt services, etc. as we would have no idea what this amount might be.

RESPONSE:

Delete Sections SC6.05.A. 15, 16, and 17 from the specifications.

QUESTION:

11. Please confirm that new topsoil is to be 9" thick per spec 329200 3.2.E.

RESPONSE:

4" of topsoil cover is sufficient for this project.

QUESTION:

12. Please confirm that the Owner will provide a Geotechnical Testing Agency to perform soils compaction testing on-site.

RESPONSE:

The Owner shall provide geotechnical testing.

QUESTION:

13. Is a rough carpentry specification available?

RESPONSE:

The specification "Section 061053 – Miscellaneous Rough Carpentry" has been added.

QUESTION:

14. Are the chain link fence gates 8' high or 6' high to match the remaining fencing?

RESPONSE:

The gates at the two depicted locations shall be 6' high to match the fencing.

QUESTION:

15. The fence spec for the posts and rail call for a very specific pipe that is manufactured by Wheatland Tube. Sch 40 is common but the 2.0 oz coating is not. None of my supplier stock this pipe and they tell me that they can only purchase it in truck load quantities, which is not going to happen. We can purchase prime pipe and send it out to be hot dipped which is very expensive or we can go with a standard fence post and rails per ASTM 1040 Class 1C Heavy Industrial Steel Pipe. Please advise.

RESPONSE:

Pipe and tubing provided in accordance to ASTM 1040 Class 1C is an acceptable material substitute for Section 2.2.A, and Section 2.3.A.1 within Section 323113 – Chain Link Fences and Gates.

D. GENERAL

1. It has been identified that American Marsh does not meet NSF 61 certification for the gravity filter backwash pump. The backwash pump shall meet NSF 61 standards.
2. See attached wage rates.
3. See attached updated pre-bid meeting sign-in sheet, with updated header.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on Tuesday, March 24, 2021 at City of Wellsburg, 70 Town Square, Wellsburg, WV. Good luck to everyone and thank you for your interest in the project.

Sincerely,
THE THRASHER GROUP, INC.

Scott Wangler, PE
Water Resources Project Engineer

STATE OF OHIO
SCOTT
WANGLER
#E-65003
REGISTERED
PROFESSIONAL ENGINEER
3-19-21

CITY OF WELLSBURG
BROOKE COUNTY, WEST VIRGINIA
FOR THE
CONTRACT NO. 2 WATER SYSTEM IMPROVEMENTS
WATER TREATMENT PLANT

VOLUME 2

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FEDERAL WAGE RATES

SECTION 087100 – DOOR HARDWARE

GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware for:

a. Swinging doors.

2. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
2. Division 09 sections for touchup, finishing or refinishing of existing openings modified by this section.

1.03 REFERENCES

A. UL - Underwriters Laboratories

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Key Systems and Nomenclature

C. ANSI - American National Standards Institute

1. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties

1.04 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 requirements.
2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, “EXAMINATION” article, herein.

B. Action Submittals:

1. Product Data: Technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated, and tagged with full description for coordination with schedule.

    a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

3. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:

    a. Door Index; include door number, heading number, and Architects hardware set number.
    b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
    c. Quantity, type, style, function, size, and finish of each hardware item.
    d. Name and manufacturer of each item.
    e. Fastenings and other pertinent information.
    f. Location of each hardware set cross-referenced to indications on Drawings.
    g. Explanation of all abbreviations, symbols, and codes contained in schedule.
    h. Mounting locations for hardware.
    i. Door and frame sizes and materials.
    j. Name and phone number for local manufacturer's representative for each product.
    k. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches,

magnetic holders or closer/holder units, and access control components). Operational description should include operational descriptions for: egress, ingress (access), and fire/smoke alarm connections.

1) Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.

4. Key Schedule:

   a. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
   b. Use ANSI/BHMA A156.28 “Recommended Practices for Keying Systems” as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
   c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
   d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
   e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
      1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.

   f. Prepare key schedule by or under supervision of supplier, detailing Owner’s final keying instructions for locks.

5. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory or shop prepared for door hardware installation.

C. Informational Submittals:

1. Qualification Data: For Supplier, Installer and Architectural Hardware Consultant.
2. Product data for electrified door hardware:

   a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.

3. Warranty: Special warranty specified in this Section.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:

   a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
   b. Catalog pages for each product.
   c. Factory order acknowledgement numbers (for warranty and service)
   d. Name, address, and phone number of local representative for each manufacturer.
   e. Parts list for each product.
   f. Final approved hardware schedule, edited to reflect conditions as-installed.
   g. Final keying schedule
   h. Copies of floor plans with keying nomenclature

i. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

1.05 QUALITY ASSURANCE

A. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.

1. Warehousing Facilities: In Project's vicinity.
2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
4. Coordination Responsibility: Assist in coordinating installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.

    a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.

B. Architectural Hardware Consultant Qualifications: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:

1. For door hardware, DHI-certified, Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC).
2. Can provide installation and technical data to Architect and other related subcontractors.
3. Can inspect and verify components are in working order upon completion of installation.
4. Capable of producing wiring diagrams.
5. Capable of coordinating installation of electrified hardware with Architect and electrical engineers.

C. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

D. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

E. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in “REFERENCES” article, herein.

F. Keying Conference

1. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:

a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
b. Preliminary key system schematic diagram.
c. Requirements for key control system.
d. Requirements for access control.
e. Address for delivery of keys.

G. Pre-installation Conference

1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
2. Inspect and discuss preparatory work performed by other trades.
3. Review required testing, inspecting, and certifying procedures.

H. Coordination Conferences:

1. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.
2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

1. Deliver each article of hardware in manufacturer’s original packaging.

C. Project Conditions:

1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
2. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

D. Protection and Damage:

1. Promptly replace products damaged during shipping.
2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

E. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

F. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.07 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying.

1.08 WARRANTY

A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Beginning from date of Substantial Completion, for durations indicated.

a. Closers:
1) Mechanical: 10 years.

b. Locksets:
1) Mechanical:10 years.

2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

1.09 MAINTENANCE

A. Maintenance Tools: Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

PRODUCTS

2.01 MANUFACTURERS

A. Approval of manufacturers and/or products other than those listed as “Scheduled Manufacturer” or “Acceptable Manufacturers” in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.

B. Approval of products from manufacturers indicated in “Acceptable Manufacturers” is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer’s product.

C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
4. Install hardware with fasteners provided by hardware manufacturer.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Ives 5BB series.
2. Acceptable Manufacturers and Products: Hager BB series, McKinney TA/T4A series, Stanley FBB Series.

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. 1-3/4 inch thick doors, up to and including 36 inches (914 mm) wide:

a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

3. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:

a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
b. Interior: Heavy weight, steel, 5 inches (127 mm) high

4. 2 inches or thicker doors:

a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
6. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
7. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:

a. Steel Hinges: Steel pins

b. Non-Ferrous Hinges: Stainless steel pins
c. Out-Swinging Exterior Doors: Non-removable pins
d. Out-Swinging Interior Lockable Doors: Non-removable pins
e. Interior Non-lockable Doors: Non-rising pins

8. Width of hinges: 4-1/2 inches (114 mm) at 1-3/4 inch (44 mm) thick doors, and 5 inches (127 mm) at 2 inches (51 mm) or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component.
10. Provide mortar guard for each electrified hinge specified.
11. Provide spring hinges where specified. Provide two spring hinges and one bearing hinge per door leaf for doors 90 inches (2286 mm) or less in height. Provide one additional bearing hinge for each 30 inches (762 mm) of additional door height.

2.04 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.05 COORDINATORS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers, surface vertical rod exit device strikes or other stop mounted hardware. Factory-prepared coordinators for vertical rod devices as specified.

2.06 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Falcon MA series.
2. Acceptable Manufacturers and Products: Best 45H Corbin-Russwin ML2000 series.

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3 hour fire doors.
2. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
3. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to “KEYING” article, herein.
4. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1 inch (25 mm) throw, constructed of stainless steel.
5. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
6. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide a request to exit (RX) switch that is actuated with rotation of inside lever.
7. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.

    a. Lever Design: Falcon Dane Napa.

2.07 CYLINDERS

A. Manufacturers and Products:

1. Scheduled Manufacturer: Falcon.
2. Acceptable Manufacturers and Products: Best, Corbin-Russwin.

B. Requirements:

1. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.

    a. Conventional Open: cylinder with small format interchangeable core (SFIC) core with open keyway

C. Construction Keying:

1. Replaceable Construction Cores.

    a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
        1) 3 construction control keys
        2) 12 construction change (day) keys.

    b. Owner or Owner’s Representative will replace temporary construction cores with permanent cores.

2.08 KEYING

A. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Provide cylinders/cores keyed into Owner's existing factory registered keying system.

C. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

D. Requirements:

1. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.

    a. Master Keying system as directed by the Owner.

2. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
3. Provide keys with the following features:

    a. Material: Nickel silver; minimum thickness of .107-inch (2.3mm)

4. Identification:

    a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Do not provide blind code marks with actual key cuts.
    b. Identification stamping provisions must be approved by the Architect and Owner.
    c. Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
    d. Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
    e. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

5. Quantity: Furnish in the following quantities.

    a. Change (Day) Keys: 3 per cylinder/core.
    b. Permanent Control Keys: 3.
    c. Master Keys: 6.

2.09 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Falcon SC71A series.
2. Acceptable Manufacturers and Products: LCN 4050 series, Norton 7500 series, Sargent 351 series.

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with aluminum cylinder.

3. Closer Body: 1-1/2 inch (38 mm) diameter with 5/8 inch (16 mm) diameter heat-treated pinion journal.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Pressure Relief Valve (PRV) Technology: Not permitted.
8. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.10 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes of plates:

   a. Kick Plates: 10 inches (254 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
   b. Mop Plates: 4 inches (102 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
   c. Armor Plates: 36 inches (914 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs

2.11 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers: Glynn-Johnson.
2. Acceptable Manufacturers: Rixson, Sargent.

B. Requirements:

1. Provide heavy duty concealed mounted overhead stop or holder as specified.

2.12 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
2. Where a wall stop cannot be used, provide heavy duty concealed overhead stops.
3. Floor stops shall not be permitted.

2.13 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer: Zero International.
2. Acceptable Manufacturers: National Guard, Reese.

B. Requirements:

1. Provide thresholds, weather-stripping (including door sweeps, seals, and astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Size of thresholds:

    a. Saddle Thresholds: 1/2 inch (13 mm) high by jamb width by door width
    b. Bumper Seal Thresholds: 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width

4. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

2.14 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.15 LATCH PROTECTORS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Provide stainless steel latch protectors of type required to function with specified lock.

2.16 FINISHES

A. Finish: BHMA 630 (US32D); except:

1. Door Closers: Powder Coat to Match
2. Weatherstripping: Clear Anodized Aluminum
3. Thresholds: Mill Finish Aluminum

EXECUTION

3.01 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

B. Install each hardware item in compliance with manufacturer’s instructions and recommendations, using only fasteners provided by manufacturer.

C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

H. Lock Cylinders: Install construction cores to secure building and areas during construction period.

1. Replace construction cores with permanent cores as indicated in keying section.

I. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.

J. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

K. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

L. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

M. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

N. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 FIELD QUALITY CONTROL

A. Engage qualified manufacturer trained representative to perform inspections and to prepare inspection reports.

1. Representative will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.04 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, Installer's Architectural Hardware Consultant must examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.05 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.06 DOOR HARDWARE SCHEDULE

A. Hardware items are referenced in the following hardware. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.

B. Hardware Sets:

HDW SET # 01

DOOR(S) MARKED:

2 3 4

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	NOTE	ALL HARDWARE BY DOOR MANUFACTURER		

HDW SET # 02

DOOR(S) MARKED:

1 5

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	CLASSROOM LOCK	MA561BDC DN	630	FAL
1	EA	SFIC CORE	C606	626	FAL
1	EA	LOCK GUARD	LG10	630	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	SC71 FA	BLK	FAL
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A	A	ZER

HDW SET # 03

DOOR(S) MARKED:

103 104

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	STOREROOM LOCK	MA581BDC DN	630	FAL
1	EA	SFIC CORE	C606	626	FAL
1	EA	SURFACE CLOSER	SC71 STD SS	689	FAL
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	GASKETING	188SCL PSA	CL	ZER

HDW SET # 04

DOOR(S) MARKED:

102

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	PASSAGE SET	MA101 DN	630	FAL
1	EA	SURFACE CLOSER	SC71 STD REG OR PA AS REQ	689	FAL
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	GASKETING	188SCL PSA	CL	ZER

HDW SET # 05

DOOR(S) MARKED:

101

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	PASSAGE SET	MA101 DN	630	FAL
1	EA	SURFACE CLOSER	SC71 STD SS	689	FAL
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	GASKETING	188SCL PSA	CL	ZER

HDW SET # 06

DOOR(S) MARKED:

100

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	SET	AUTO FLUSH BOLT	FB31P	630	IVE
1	EA	DUST PROOF STRIKE	DP2	625	IVE
1	EA	STOREROOM LOCK	MA581BDC DN	630	FAL
1	EA	SFIC CORE	C606	626	FAL
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	MOUNTING BRACKET	MB	689	IVE
2	EA	SURFACE CLOSER	SC71 FA	BLK	FAL
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CVX	630	IVE
		NOTE			

Door Numbers	HwSet#
1	02
2	01
3	01
4	01
5	02
100	06
101	05
102	04
103	03
104	03

END OF SECTION

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SECTION 400553 – PROCESS VALVES AND APPURTENANCES

PART 1 - GENERAL

1.1 SUMMARY

A. The work of this Section shall include the furnishing, installation, and testing of all valves and required appurtenances as specified herein, shown on the drawings, and as required to make the entire facility operable except for those valves and appurtenances required to be provided in other Sections of these Specifications. Items to be provided include but shall not be limited to, the following:

1. Manual valves and operators.
2. Automatic valves and operators.
3. Plug Valves
4. Check valves.
5. Solenoid valves.
6. Valve boxes for buried valves.
7. Potable/process water shutoff valves.

1.2 REFERENCE STANDARDS

A. American Society of Mechanical Engineers (ASME):

1. ASME B1.20.7: Hose Coupling Screw Threads.
2. ASME B16.1: Standard for Cast Iron Pipe Flanges and Flanged Fittings, 125 lb.
3. ASME B16.4: Cast-Iron Threaded Fittings, Class 125 and 250.
4. ASME B16.10: Face-to-Face and End-to-End Dimensions of Ferrous Valve

B. ASTM International (ASTM):

1. ASTM A48: Standard Specification for Gray Iron Castings.
2. ASTM A126: Standard Specification for Gray Iron Castings for Valves, Flanges and Pipe Fittings.
3. ASTM A536: Standard Specification for Ductile Iron Castings.

C. American Water Works Association (AWWA):

1. AWWA C500: Metal-Seated Gate Valves for Water Supply Service.

D. NSF International:

1. NSF 61 - Drinking Water System Components - Health Effects.
2. NSF 372 - Drinking Water System Components - Lead Content.

E. Society for Protective Coatings:

1. SSPC SP 6 - Commercial Blast Cleaning.

1.3 COORDINATION

A. Section 01 30 00 - Administrative Requirements: Requirements for coordination.

B. Coordinate Work of this Section with piping and equipment connections specified in other Sections and indicated on Drawings.

1.4 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.

1. Data, regarding valve characteristics and performance including Cv.
2. Shop drawing data for accessory items.
3. Manufacturer's literature as needed to supplement certified data.
4. Operating and maintenance instructions and parts lists.
5. Listing of reference installations as specified with contact names and telephone numbers.
6. Valve shop test results.
7. Qualifications of field service technician.
8. Shop and Field inspections reports.
9. List of recommended spare parts other than those specified.
10. Recommendations for short and long term storage.
11. Special tools.
12. Shop and field testing procedures and equipment to be used.
13. Number of service technician days provided and per diem field service rate.
14. Manufacturer’s product data and specifications for shop painting.
15. Provide a layout drawing, plan and section showing orientation of plug, gate, check, ball valves and actuators and nearest obstructions for each valve.
16. Manufacturer's product data and specifications for shop painting.
17. Provide a listing of the materials recommended for each service specified and indicated. Provide documentation showing compatibility with process fluid and service specified and indicated.

1.5 CLOSEOUT SUBMITTALS

A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for submittals.

B. Project Record Documents: Record actual locations of piping, valves and other appurtenances, connections, and invert/centerline elevations.

C. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

1.6 QUALITY ASSURANCE

A. Permanently mark each valve with manufacturer's name or trademark and indicate conformance to standards.

B. Materials in Contact with Potable Water: Certified according to NSF 61 and NSF 372.

1.7 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum five years' experience.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.

B. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.

C. Store materials according to manufacturer instructions.

D. Protection:

1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
2. Protect valves and appurtenances by storing off ground.
3. Provide additional protection according to manufacturer instructions.

1.9 EXISTING CONDITIONS

A. Field Measurements:

1. Verify field measurements prior to fabrication.
2. Indicate field measurements on Shop Drawings.

PART 2 - PRODUCTS

2.1 GENERAL

A. All valves shall be provided as shown on the drawings, schedules, and as specified herein. All valves shall be designed for drip-tight shutoff. Where not otherwise designated, the valves shall have pressure rating not less than the adjacent piping; all valves over four (4) inch size shall be provided with valve supports as recommended by the manufacturer. All bronze parts of valves shall be constructed of high strength material containing not more than seven (7) percent zinc and not more than two (2) percent aluminum. The valve assemblies shall be furnished complete with valves, operators, and accessories; shall be complete and adequate for the specified or

shown purpose, and shall include all essential components of equipment, together with all mountings and other appurtenances normal and necessary for proper installation, whether shown or not.

B. All valve operators designed for manual operation capability and installed for operation six (6) feet or higher from the floor (centerline of valve) shall be provided with chain wheels, chains, operators and guides.

C. The operation of the valves shall be guaranteed for a period of two (2) years from the date of project acceptance by the Owner. Any valve or part of a valve which has failed under normal operating conditions shall be replaced at no cost to the Owner.

D. All valves shall be epoxy coated or lined.

2.2 GATE VALVES AND OPERATORS

A. Wedge Gate Valves:

1. Valves sized two (2) inch and smaller

    a. Shall be 150 psi
    b. Bronze gate valves.
    c. Valves shall be threaded unless otherwise called for on the drawings.
    d. Manufacturer;

        1) Kennedy
        2) Lunkenheimer
        3) Or Approved Equal.

2. 2” stainless steel gate valve

    a. CF8 or Type 304 stainless steel
    b. Manufacturer;

        1) Powell Fig. A
        2) Walworth
        3) Or Approved Equal

3. Valves sized 2-1/2 inch and larger,

    a. Shall be 150 psi W.O.G.
    b. Flanged, cast iron, bronze fitted, solid wedge disc
    c. Stems and Trim: Stems shall be bronze conforming to the requirements of ASTM Designated B 371 Alloy 697 and shall be heat-treated as necessary to obtain a yield strength of not less than 30,000 psi and an elongation not exceeding ten (10) percent in two (2) inches. Other bronze parts shall have a minimum yield point of 14,000 psi and maximum elongation of fifteen (15) percent. Stem thread shall be Acme type, machined, using a sufficient number of cuts to preclude deterioration of the metal surface finish or strength. The threaded length shall be sufficient to fully engage the stem nuts when the valve is in the closed position; and the design

and fabrication shall ensure true alignment throughout the opening lift and closing thrust movements. Stem nut thickness shall be not less than 1-1/2 times the outside diameter of the stem. The stem shall turn counterclockwise to open.

d. Body and Disc: The flow edge of the seat rings and the disc edges shall be chamfered to an angle of approximately thirty (30) degrees with the face over a width equal to one (1) percent of the nominal valve diameter but not more than 0.25 inches. Surface of the disc in contact with the seat ring when closed shall be entirely machined and an additional area shall also be machined to ensure water-tight (air-tight on-air system) contact surfaces after normal wear of contact surfaces.

e. Wedging: Valves shall have bottom wedging designed for quick release with the initial turning movements of the stem. The wedging device shall operate normally and positively with the valves in the normal position both by wedging the discs into contact with the seats and by releasing them.

f. Manufacturers;

1) Dresser 2067
2) Or Approved Equal

g. Buried valves shall be as specified above, except they shall have non-rising stems and shall be provided with valve box, cover, and extension stem.

B. Knife Gate Valves

1. Shall be 150 psi
2. Wafer body style with MSS SP-81 face-to-face and ANSI B16.5, Class 150 flange bolting.
3. Material

a. Body: Cast Iron
b. Gate: Stainless Steel
c. Seat: Replaceable EPDM that will provide bi-directional bubble tight shutoff.
d. Packing Gland: ductile iron
e. Packing: Teflon lubricated synthetic packing with a minimum of four rows.
f. Valve Yoke: Ductile iron
g. Valve Stem: 304 Stainless Steel
h. Coating: Powder coating
i. Hardware: Stainless Steel

4. Gates shall be designed with a thickness to withstand design pressure without permanent deflection to the gate.
5. Gate shall have a rounded bottom.
6. Seat shall be flush at the bottom of the port of the valve eliminating pockets that collect debris.
7. Seat shall be mechanically retained in the valve body and shall have a molded in steel reinforcement to provide rigidity to the seat.
8. Packing shall fully wrap around the gate.
9. Valves shall meet MSS SP-81
10. Manufacturer:

a. Pratt

b. Red Valve
c. Or Approved Equal.

2.3 PLUG VALVES

A. General:

1. All plug valves shall be Class 150 with flanged or threaded connections as called for on the drawings and specified herein.
2. Valves four (4) inch and smaller shall be provided with lever operators
3. Valves five (5) inch and larger shall have enclosed gear and hand wheel or chain wheel operators
4. Gear operators shall be of the self-locking worm gear type and shall include weatherproof or waterproof (for submerged service) seals and enclosure.
5. Above grade actuators shall include an indicating nut with position indicator.

B. Eccentric Plug Valve:

1. Screwed, flanged, or mechanical joint ends as shown on the plans.
    a. Plug valves larger than 4” shall be flanged.
2. Provide 100% port opening.
3. Type: Permanently lubricated, eccentric
4. Body: Cast iron, ASTM A126 Class B or ductile iron.
5. All four (4) inch and larger valves shall be designed so that they can be externally adjusted and the packing adjustable and replaceable without bonnet removal nor disassembly.
6. Packing shall be multiple V-Ring type and shall include an adjustable packing gland.
7. All exposed valve fasteners, springs, bolts, washer shall be stainless steel.
8. Resilient plug facing shall be neoprene or Hycar for use with service intended. Valve shall have quarter turn shut-off capabilities of 175 psi. Valves 14-inch and larger shall be 150 psi rated.
9. For buried or submerged service valves, provide totally enclosed gear operators complete with proper seals to prevent entry of dirt and water
10. Provide stainless steel bonnet bolting and gear output.
11. Manufacturer;
    a. DeZurik Series 100
    b. Val-Matic
    c. Or Approved Equal.

2.4 CHECK VALVE

A. Cast Iron Check Valves:

1. Valves 2-1/2 inches and larger shall be cushioned swing check valves.
2. Shall have a lever with weight.

3. Valves six (6) inch and larger shall also be provided with an adjustable cushioned type externally mounted device.
4. Flanged conforming to ANSI B16.1.
5. Disc: ductile iron.
6. Seat: Bronze.
7. Hinge Shaft: Stainless steel.
8. Body: Ductile iron shall conform to ASTM A536 Grade 65-45-12.
9. Body seat: Removable, Type 304 stainless steel meeting ASTM A276.
10. Resilient seat: Removable, Buna-N, meeting ASTM D2000-BG.
11. Disc Arm and External Levers: Ductile iron.
12. The valves shall be designed for low head loss.
13. Adjustable for non-slamming closure.
14. Constructed to seat tight with resilient disc seal.
15. An arrow showing direction of flow shall be cast on the body of the valve.
16. The water working pressure shall be 175 psi, except that the check valve shall have pressure rating same as the piping where the pipe class is higher.
17. Manufacturer;

    a. Dezurik
    b. Val-Matic
    c. Golden-Anderson
    d. Or Approved Equal

2.5 OPERATORS

A. Manual Operators:

1. Operators for Valves 3-inch and smaller:

    a. Manually Operators:

        1) Gear operated with levers.
        2) Provide operator rated for bi-directional shutoff at the valve working pressure rating as specified herein.
        3) Provide with 10 position control.
        4) Provide all work gears designed and certified to withstand input loads up to 300-feet-pounds minimum at the stops without damage.

2. Operators for Valves 4-inch and larger:

    a. Manually Operators:

        1) Gear operated with hand wheels, levers are not acceptable.
        2) Provide gear operators rated for bi-directional shutoff at the valve working pressure rating as specified herein.
        3) Gear operators: Totally enclosed worm gear, traveling nut type is not acceptable. Provide permanently lubrication, watertight and dustproof, with adjustable open and closed stops and plug position indicator.
        4) Provide all work gears designed and certified to withstand input loads up to 300-feet-pounds minimum at the stops without damage.

5) Buried or submerged valves: Provide watertight gear operator with hand wheel operated floor stand as shown. Gear operator to be totally enclosed and gasketed with Type 316 stainless steel hardware.

b. Wrench Nut Operation: An AWWA nut or shaft key, as applicable, shall be provided in lieu of hand wheel where required for connection to extension stem and floor stand. No submerged or buried operator shall require maintenance following installation. Suitable gaskets, O-rings, and other features shall insure permanent water tightness.

c. Chain wheel Type: A chain wheel operator with bronze bushed guide shall be provided in lieu of the hand wheel operator where required and shall be manufacturer's standard, with stainless steel chain to be furnished in length required. All valves greater than six (6) feet above operating floor level shall be equipped with a chain wheel, chain and all necessary equipment. Chain wheels shall be 316 stainless steel.

B. PNEUMATIC ACTUATORS

1. Description: Comply with AWWA C541.
2. Air Supply:

a. Air supply provided by existing air compressor and air lines.
b. Regulators: Adjustable.
c. Pressure Gages: 2" glycol filled, ¼" NPT
d. Filter: Replaceable; 40 microns.
e. Accessories:

1) Isolating valves.
2) Condensate drains.
3) Lubricators.

f. Static Head: 8.5 ft
g. Actuators shall operate 12"x18" sluice gate

2.6 PVC BALL VALVE

A. Body: One piece capsule, PVC Type I Cell Class 12454, ASTM D1784.

B. Connection True union with socket or threaded end connectors.

C. Seats: PTFE.

D. Seals: PTFE encapsulated viton.

E. Pressure Rating: 235 psi @ 73 deg F.

F. Manufacturer: Spears Mfg. or equal

2.7 VALVE BOXES

A. Description:

1. Valve boxes and covers shall be provided for all buried valves.
2. Construction:

a. Heavy-duty cast-iron box
b. Type: Two-piece adjustable telescoping.
c. Inside Diameter: 4-1/2 inches minimum.
d. Cover: heavy duty cast iron. Clearly and permanently mark “Non-potable Water” or “Water” to suit application.
e. Directional open arrow shall be cast on cover.

B. Manufacturers:

1. Trumbull Industries.
2. Or approved equal

PART 3 - EXECUTION

3.1 EXAMINATION

A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for installation examination.

B. Verify that field dimensions are as indicated on Drawings.

C. Inspect existing flanges for nonstandard bolt hole configurations or design and verify that the new valves operate properly.

3.2 PREPARATION

A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for installation preparation.

B. Thoroughly clean valves before installation.

3.3 FIELD QUALITY CONTROL

A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for testing, adjusting, and balancing.

B. Inspection:

1. Wedge Gate Valves: Perform shop tests for leakage in accordance with AWWA Standards, except no leakage shall occur with design pressure held for one (1) minute.
2. Plug Valves:

a. Material Tests: Manufacturer shall perform physical and chemical properties tests on all components to be used in manufacturing plug valves in accordance with Section 5 of AWWA Standard C504-74. Records of such tests, if required by the Owner, shall be made available.
b. Gear Operator Tests: Manufacturer shall test each model of gear operator and establish torque rating curves.
c. Valve Performance Tests: To demonstrate the adequacy of the valve, the proof of design test as described in AWWA Standard C504-74, Section 12, Paragraph 12.4.2 shall be performed on one prototype valve for each size to be furnished. Upon successful completion of this test, the same prototype shall be testing in accordance with Paragraph 13.2 of the above-mentioned standard. The above test shall be conducted by an independent laboratory. The manufacturer shall furnish certified copies of reports pertaining to these tests.

C. Field Tests: Test all valves and appurtenances for proper operating adjustments and settings and for freedom from vibration, binding, scraping, and other defects. The testing of the pneumatically and electrically controlled valves shall be supervised by a representative of the manufacturer who shall verify proper installation, adjustments, and performance. The adequacy of all pipe hangers and supports and valve supports to meet specified requirements shall be verified. All defects found shall be corrected as approved.

3.4 CLEANING

A. Section 01 70 00 - Execution and Closeout Requirements specifies requirements for cleaning.

B. Keep pipe interior clean as installation progresses.

C. After installation, clean valves interior of soil, grit, and other debris.

END OF SECTION 40 05 53

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Rooftop equipment bases and support curbs.
2. Wood blocking and nailers.
3. Utility shelving.
4. Plywood backing panels.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product.

1.3 INFORMATIONAL SUBMITTALS

A. Evaluation Reports: For the following, from ICC-ES:

1. Preservative-treated wood.
2. Fire-retardant-treated wood.
3. Power-driven fasteners.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.
2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece or omit grade stamp and provide certificates of grade compliance issued by grading agency.
3. Dress lumber, S4S, unless otherwise indicated.

B. Maximum Moisture Content of Lumber: 15 percent for 2-inch nominal thickness or less, 19 percent for more than 2-inch nominal thickness unless otherwise indicated.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with ground, Use Category UC3b for exterior construction not in contact with ground, and Use Category UC4a for items in contact with ground.

1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

D. Application: Treat all miscellaneous carpentry unless otherwise indicated.

2.3 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

1. Blocking.
2. Nailers.
3. Rooftop equipment bases and support curbs.
4. Cants.
5. Furring.
6. Grounds.
7. Utility shelving.

B. Dimension Lumber Items: Construction or No. 2 grade lumber of any species.

C. Utility Shelving: Lumber with 15 percent maximum moisture content of eastern white pine, Idaho white, lodgepole, ponderosa, or sugar pine; Standard or No. 3 Common grade; NeLMA, NLGA, WCLIB, or WWPA.

D. Concealed Boards: 15 percent maximum moisture content of any of the following species and grades:

1. Mixed southern pine or southern pine, No. 2 grade; SPIB.
2. Eastern softwoods, No. 2 Common grade; NELMA.
3. Northern species, No. 2 Common grade; NLGA.
4. Western woods, Construction or No. 2 Common grade; WCLIB or WWPA.

2.4 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: Plywood, DOC PS 1, Exterior, A-C, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.

2.5 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153/A153M.

B. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

B. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry accurately to other construction. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.

C. Do not splice structural members between supports unless otherwise indicated.

D. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

E. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following:

1. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.
2. ICC-ES evaluation report for fastener.

3.2 PROTECTION

A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 061053

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RETAINING WALL NOTES

STRUCTURAL NOTES

DESIGN CRITERIA

1. THE RETAINING WALL DESIGN CONFORMS TO THE 2012 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGN LOADS

1. DEAD LOADS:
   a. NORMAL WEIGHT REINFORCED CONCRETE = 150 PCF
   b. EARTH DENSITY = 120 PCF
2. LIVE LOADS:
   a. SUPERIMPOSED LOAD ON PAVEMENT, SHOULDERS = 250 PSF
   b. SUPERIMPOSED LOAD ON SLOPES, GROUND, WALKS= 100 PSF

DESIGN CRITERIA

1. SOILS
   1.1. FRICTION ANGLE = 28°
   1.2. COHESION = 0
   1.3. UNIT WEIGHT OF BACKFILL 120 PCF
2. MIN. ALLOWABLE BEARING CAPACITY = 2000 PSF

MATERIALS

1. CONCRETE: ALL CONCRETE PROPERTIES SHALL BE IN ACCORDANCE WITH SPECIFIED 28-DAY COMPRESSIVE STRENGTH (f'c) AS FOLLOWS:
   a. CAST-IN-PLACE RETAINING WALL: 3000 PSI, ASTM TYPE II
2. CONCRETE COVER: THE CLEAR DISTANCE BETWEEN THE REINFORCING STEEL AND THE FACE OF THE CONCRETE SHALL BE AS FOLLOWS:
   a. BOTTOM OF FOOTING: 3 INCHES
   b. ALL OTHER LOCATIONS: 2 INCHES
3. REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60.

   FIELD BENDING AND WELDING OF REINFORCING WILL NOT BE PERMITTED UNLESS OTHERWISE SPECIFIED ON THE PLANS.

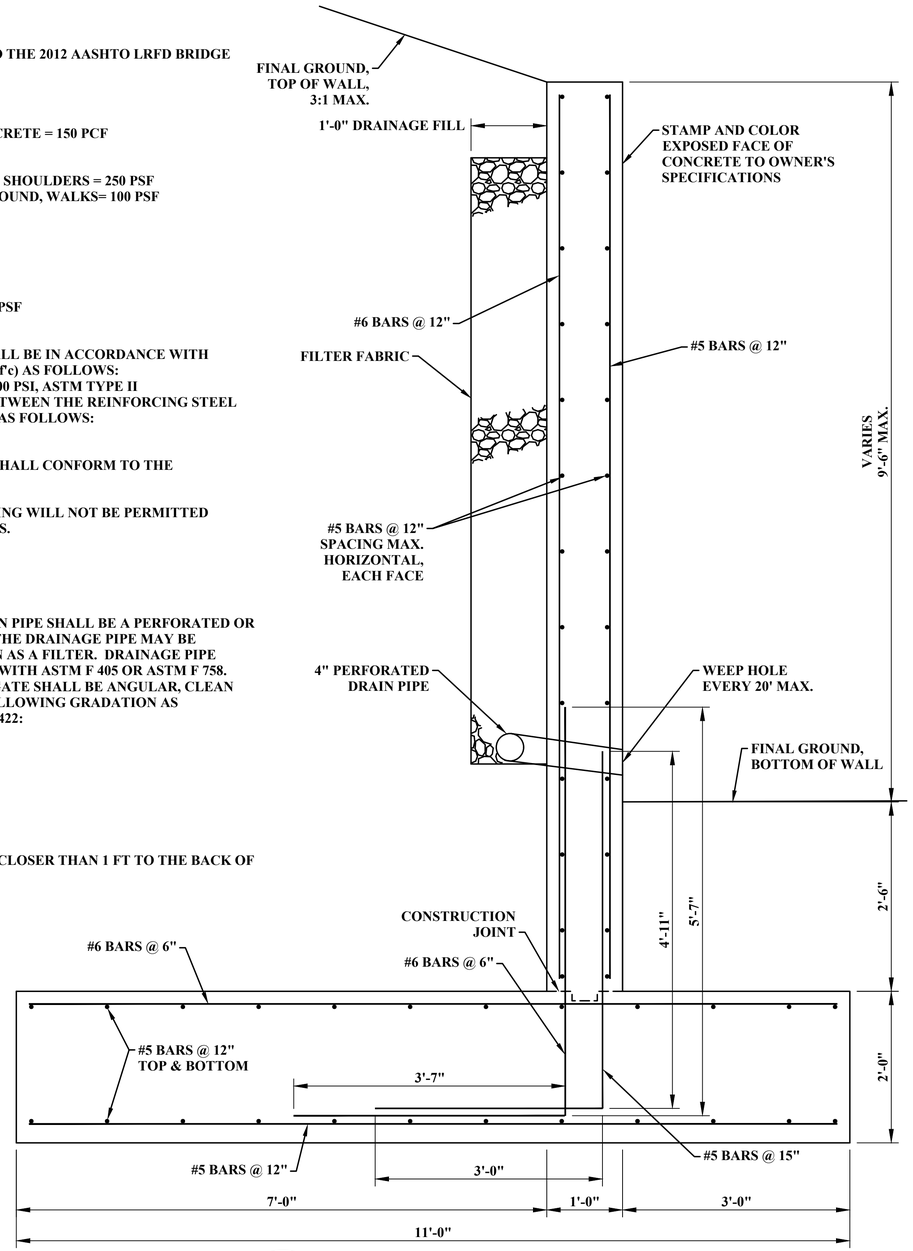
   MIN. LAP SPLICE LENGTHS:
   #5 BAR = 3'-0"
   #6 BAR = 3'-7"

4. DRAINAGE PIPE: THE DRAINAGE COLLECTION PIPE SHALL BE A PERFORATED OR SLOTTED PVC OR CORRUGATED HDPE PIPE. THE DRAINAGE PIPE MAY BE WRAPPED WITH A GEOTEXTILE TO FUNCTION AS A FILTER. DRAINAGE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM F 405 OR ASTM F 758.
5. DRAINAGE AGGREGATE: DRAINAGE AGGREGATE SHALL BE ANGULAR, CLEAN STONE OR GRANULAR FILL MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D422:

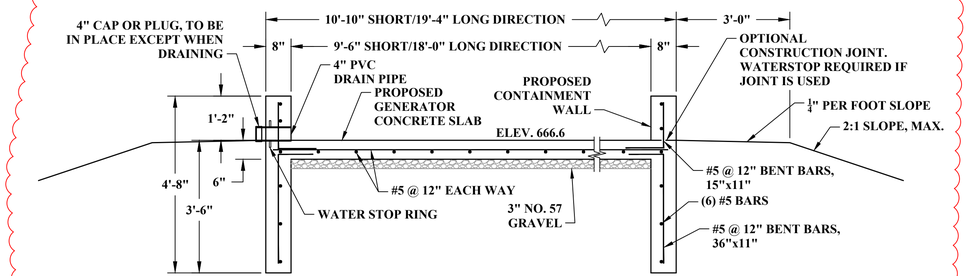
SIEVE SIZE	PERCENT PASSING
1 INCH	100
¾ INCH	75-100
NO. 4	0-5
NO. 40	0-5
NO. 200	0-5

CONSTRUCTABILITY

DO NOT ALLOW THE WHEELS OF ROLLERS TO COME CLOSER THAN 1 FT TO THE BACK OF THE WALL DURING COMPACTION OF THE BACKFILL.



A / **S1.09** GENERATOR RETAINING WALL SECTION
NOT TO SCALE



SECONDARY CONTAINMENT CALCULATION
REQUIRED VOLUME:
850 GAL TANK = 113.63 CF
110% = 125.00 CF
25YR 24-HOUR STORM 4.00" FROM NOAA
9.50'x18.00'x4.00"/12 = 57.00 CF
125.00 + 57.00 = 182.00 CF REQUIRED

PROVIDED VOLUME:
9.50'x18.00'x14"/12 = 199.50 CF

NOTES:
CONCRETE IS TO HAVE AN MINIMUM STRENGTH OF 4000 PSI
STEEL IS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI

B / **S1.09** GENERATOR PAD SECTION DETAIL
NOT TO SCALE

ADDENDUM #3

NO.	BY	DATE	DESCRIPTION
1	CMK	3/16/21	ADDENDUM #3

SCALE: NO SCALE
DRAWN: DAC DATE: MARCH 2020
CHECKED: RSS DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
400 3rd STREET SE
CANTON, OHIO 44702
www.thrashereng.com
PHONE (330)-451-2042
FAX (330)-451-2043

PHASE No.
CONTRACT No.
PROJECT No. 101-010-1117

CITY OF WELLSBURG
BROOKE COUNTY, WEST VIRGINIA
WATER STYSTEM IMPROVEMENTS
WATER TREATMENT PLANT
STRUCTURE PLANS

SHEET No. **S1.09**

"General Decision Number: WV20210080 01/01/2021

Superseded General Decision Number: WV20200080

State: West Virginia

Construction Type: Highway

Counties: West Virginia Statewide.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021

SUWV2015-001 01/01/2014

	Rates	Fringes
BRICKLAYER		
Barbour, Berkeley, Doddridge, Gilmer, Grant, Hampshire, Hardy, Harrison, Jefferson, Lewis, Marion, Mineral, Monongalia, Morgan, Pendleton, Pocahontas,		

Preston, Randolph, Taylor,
Tucker, Upshur, Webster.....$ 30.74 18.21
Boone, Braxton, Clay,
Fayette, Greenbrier,
Kanawha, Logan, McDowell,
Mercer, Monroe, Nicholas,
Putnam, Raleigh, Summers,
Wyoming.....$ 29.66 20.20
Brooke, Hancock.....$ 29.94 16.22
Cabell, Lincoln, Mason,
Mingo, Wayne.....$ 30.61 20.88
Calhoun, Jackson,
Pleasants, Ritchie, Roane,
Wirt, Wood.....$ 30.33 15.27
Marshall, Ohio, Tyler,
Wetzel.....$ 30.01 16.26

CARPENTER
Berkeley, Grant,
Hampshire, Hardy,
Jefferson, Mineral,
Morgan, Pendleton.....$ 31.26 15.90
Brooke, Hancock, Marshall,
Ohio.....$ 27.86 19.30
Remaining Counties.....$ 27.72 19.44

CEMENT MASON/CONCRETE FINISHER
All Counties.....$ 28.67 18.85

DIVER
Berkeley, Grant,
Hampshire, Hardy,
Jefferson, Mineral,
Morgan, Pendleton
Diver Tender.....$ 31.26 15.90
Diver.....$ 32.25 15.90
Brooke, Hancock, Marshall,
Monongalia, Ohio, Wetzel
Diver Tender.....$ 32.01 16.76
Diver.....$ 48.02 16.76
Remaining Counties
Diver Tender.....$ 27.72 19.44
Diver.....$ 28.27 19.44

ELECTRICIAN (SIGNAL &
LIGHTING)
Equipment Operator.....$ 23.30 17.99
Flagger.....$ 17.00 7.39
Groundman/Truck Driver.....$ 20.79 17.89
Installer.....$ 26.21 18.11
Technician.....$ 29.12 18.22

ELECTRICIAN
Barbour, Doddridge,
Harrison, Lewis, Marion,
Monongalia, Pendleton,
Pocahontas, Preston,
Randolph, Taylor, Tucker,
Upshur.....$ 30.14 21.14
Berkeley, Grant,
Hampshire, Hardy,
Jefferson, Mineral, Morgan..$ 30.50 15.78
Boone, Braxton, Calhoun,
Clay, Fayette, Gilmer,
Kanawha, Nicholas, Putnam,

Raleigh, Roane, Summers, Webster, Wyoming	$ 35.34	16.62
Brooke, Marshall, Ohio, Wetzel	$ 28.35	22.74
Cabell, Lincoln, Logan, Mason, Mingo, Wayne	$ 32.62	21.70
Greenbrier, McDowell, Mercer, Monroe	$ 25.05	16.32
Hancock	$ 34.00	29.10
Jackson, Pleasants, Ritchie, Tyler, Wirt, Wood	$ 31.56	21.43

IRONWORKER

Barbour, Brooke, Hancock, Harrison, Marion, Marshall, Monongalia, Ohio, Taylor, Tyler, Wetzel	$ 35.74	22.84
Berkeley, Grant, Hampshire, Hardy, Jefferson, Mineral, Morgan, Pendleton, Preston, Tucker	$ 33.29	17.39
Boone, Braxton, Clay, Fayette, Kanawha, Lincoln, Logan, McDowell, Mingo, Nicholas, Putnam, Raleigh, Randolph, Webster, Wyoming	$ 34.87	19.50
Cabell, Wayne	$ 33.89	21.98
Calhoun, Doddridge, Gilmer, Jackson, Lewis, Mason, Pleasants, Ritchie, Roane, Upshur, Wirt, Wood	$ 33.02	20.10
Greenbrier, Mercer, Monroe, Pocahontas, Summers	$ 35.43	16.13

LABORER

Class 1	$ 26.95	16.30
Class 2	$ 25.92	16.30
Class 3	$ 24.86	16.30

LABORER CLASSIFICATIONS:

GROUP 1: Powderman, Laser Screed Operator, and GPS Operator.

GROUP 2: Pipelayer (Including Laser Beam Set Up), Form Setter (Road), Drill Operator, Air Tool Operator, Grade Checker and Asphalt Raker, Vibrator Man, Whacker, Chainsaw Operator, Mortarman, Brick Mason Tender, Cement Finisher Tender, Drill Tender, Powderman Tender, Water Proofer, Sheeter & Shorer, Placement of Lagging, Pipelayer Tender, Bull-Float Man, Pavement Reinforcing Placer, Handyman, Signal Man, Greencutter, Georgia Power Buggie, Burner, Cement Blower Man, Bituminous Hand Sprayer, Bork 250 Remote Control Ditch Witch and Walk Behind Concrete Saw, Mulcher and Seeder (hand and machine), Installation of Ground Mounted Beams and Signs including Concrete Footers, Installation of Overhead Sign Supports and Signs including Concrete Footers, Installation of Guardrail and Anchors Assemblies, Tree Trimmer, Caisson Bottom Man, Bush Hammering, Core Drilling, Placement and Mixing of Grout and Bridge Demolition Specialist.**

GROUP 3: Flag Person, Traffic Control Maintenance Person, Carpenter's Tender, and General Laborer.

PAINTER

Barbour, Berkeley,

Doddridge, Gilmer, Grant,
Hampshire, Hardy,
Harrison, Jefferson,
Lewis, Marion, Mineral,
Monongalia, Morgan,
Pendleton, Preston,
Randolph, Taylor, Tucker,
Upshur, Webster.....$ 31.87 14.20
Boone, Braxton, Cabell,
Calhoun, Clay, Fayette,
Greenbrier, Kanawha,
Lincoln, Logan, Mason,
McDowell, Mercer, Mingo,
Monroe, Nicholas,
Pocahontas, Putnam,
Raleigh, Summers, Wayne,
Wyoming.....$ 32.05 14.30
Brooke, Hancock, Marshall,
Ohio, Wetzel.....$ 30.95 14.36
Jackson, Pleasants,
Ritchie, Roane, Tyler,
Wirt, Wood.....$ 30.84 14.30

PILEDRIVERMAN
Berkeley, Grant,
Hampshire, Hardy,
Jefferson, Mineral,
Morgan, Pendleton.....$ 32.25 15.90
Brooke, Hancock, Marshall,
Monongalia, Ohio, Wetzel....$ 32.01 16.76
Remaining Counties.....$ 28.27 19.44

POWER EQUIPMENT OPERATOR:
Class 1.....$ 33.25 18.60
Class 2.....$ 30.49 18.60
Class 3.....$ 29.38 18.60
Class 4.....$ 25.92 18.60
Class 5A.....$ 26.04 18.60
Class 5B.....$ 28.64 18.60
Class 5C.....$ 26.94 18.60

POWER EQUIPMENT OPERATOR CLASSIFICATIONS:

GROUP 1: Cranes, tower cranes, derricks, derrick boats, draglines, clamshells, cableways, boom truck, loaders of 6 cubic yard capacity and over, excavators and shovels with an operating weight of 110,000 pounds and over.

GROUP 2: Loaders up to 6 cubic yard capacity, gradall, hoist 2 drums or more, mixer plant (2 or more mixers includiing batch control), pile driver operator, core drill, trencher, backhoe, asphalt paver, cement paver, rotary drill, bulldozers, concrete pump, controlled fine grade machine, slip form paver, log loader, log skidder, motor grader, rubber tired scraper, tractor pan, Roto Miller, tow or work boat, mobile conveyor, transloader, articulating equipment, material hauler, carry deck, compactor with blade, skidsteer including attachments, fork lift, self-propelled concrete spreader, concrete finishing machine, derrick (single drum), hoist (single drum), single drum paver, air tugger, Ross Carrier, multiple concrete saw, hydraulic post driver, horizontal road-boring machine, tie distributor, track lining machine, ballast tamper, anchor application machine, ribbon rail puller, ballast regulator, auto sled, turn table, pavement breaker, asphalt batch plant, concrete batch plant, crushing plant, compactor with blade, power broom, vac-all truck, self-propelled concrete spreader

and concrete finishing machine, mechanics with tools and greasers, excavators, and shovels with an operating weight of up to 110,000 pounds.

GROUP 3: Asphalt roller

GROUP 4: Air compressor, concrete mixer (under 1 cubic yard), light plant, mechanic's tender, assistant engineer, screedman, spreader box man, joint sealer and pump, steam jenny, stationary conveyor (belt or bucket), A-frame, tire man, screening and washing plant, form sub-grader, power form handling equipment, burlap and curing machine, form grader, bull float, bar and joint installing machine, roller and compactor, hydroblaster, concrete mixer (single drum, 1 cu. yd. or over), portable concrete saw and highway striping operator. Utility operators shall be paid Group 2 rate when operating 1 to 5 air compressors, pumps, stationary conveyors (belt or bucket), light plants, and gasoline or diesel powered welders and all farm type tractors.

GROUP 5A: Those operating off-road trucks in the following counties: Barbour, Braxton, Boone, Calhoun, Clay, Doddridge, Fayette, Gilmer, Greenbrier, Harrison, Jackson, Kanawha, Lewis, Marion, Mercer, McDowell, Monongalia, Monroe, Nicholas, Pleasants, Pocohontas, Preston, Putnam, Raleigh, Randolph, Roane, Ritchie, Summers, Taylor, Tucker, Tyler, Upshur, Webster, Wirt, Wood, and Wyoming.

GROUP 5B: Those operating off-road trucks in the following counties: Cabell, Lincoln, Logan, Mason, Mingo, and Wayne.

GROUP 5C: Those operating off-road trucks in the following counties: Berkeley, Grant, Hampshire, Hardy, Jefferson, Mineral, Morgan and Pendleton.

FOOTNOTE: $2.00 per hour shall be added to the Group 1 rate for individuals operating a lattice boom crane with a fixed boom of 150 feet or more. $0.25 per hour shall be added to all of the above schedules for underground work.

TRUCK DRIVER

Berkeley, Grant, Hampshire, Hardy, Jefferson, Mineral, Morgan, Pendleton		
Class 1	$ 25.72	18.11
Class 2	$ 26.61	18.11
Class 3	$ 27.38	18.11
Brooke, Hancock		
Class 1	$ 29.17	13.86
Class 2	$ 30.92	13.86
Class 3	$ 31.71	13.86
Cabell, Lincoln, Logan, Mason, Mingo, Wayne		
Class 1	$ 29.79	15.60
Class 2	$ 30.76	15.60
Class 3	$ 31.55	15.60
Marshall, Ohio, Wetzel		
Class 1	$ 26.26	16.81
Class 2	$ 27.16	16.81
Class 3	$ 27.76	16.81
Remaining Counties		
Class 1	$ 26.97	16.15
Class 2	$ 27.76	16.15
Class 3	$ 28.44	16.15

TRUCK DRIVER CLASSIFICATIONS:

GROUP 1: Single Axle Trucks used as Dumps, Supply, Fuel, Water, Van, Flatbody, Monorail, Distributor (other than Bituminous Distributors) including Towed Single Units, Material Checkers and Receivers, Greasers, Tireman and Mechanic Tenders (Trucks), Warehouse, Yardmen and Pick-up trucks.

GROUP 2: Tandem and Tri-Axle Trucks used as Dumps, Supply, Fuel, Water, Van, Flatbody, Monorail and including Towed Single Units, Truck Tractors used in combination with Dump, Van, Tank, Flatbed, Low platform or Pole Trailers, Bituminous Distributors, Agitator or Mixer Trucks (up to 20 cubic-yards), Rubber-tired tractors (towing and pushing), Drag and Tag-alongs.

GROUP 3: Mobile Metered Mixer, Agitator or Mixer Trucks (over 20 cubic yards), & Mechanic Truck.

A. Double Hitch equipment operated by 1 driver shall pay 50% more than the wages set out above.

B. $0.25 per hour shall be added for tunneling and all other underground work.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local),

a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION
"

"General Decision Number: WV20210065 02/12/2021

Superseded General Decision Number: WV20200065

State: West Virginia

Construction Type: Heavy

County: Brooke County in West Virginia.

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate,if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	02/12/2021

* CARP0441-006 12/01/2020

	Rates	Fringes
CARPENTER, Includes Form Work	$ 33.80	17.61

ELEC0246-006 10/26/2020

	Rates	Fringes
ELECTRICIAN	$ 39.00	34.32

ENGI0132-020 12/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR:		
GROUP 1	$ 35.95	18.60
GROUP 2	$ 33.19	18.60
GROUP 3	$ 32.08	18.60

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Cranes (All types)

GROUP 2: Backhoe, Bulldozers, Compactor, Forklift, Grader/Blade, Mechanic, Tractor, Trencher.

GROUP 3: Roller.

IRON0549-012 12/01/2020

	Rates	Fringes
IRONWORKER, ORNAMENTAL, REINFORCING AND STRUCTURAL	$ 34.03	23.22

LABO0379-046 12/01/2020

	Rates	Fringes
LABORER:		
GROUP 1	$ 26.32	16.50
GROUP 2	$ 25.26	16.50

GROUP 1: Bobcat Operator (Clean up/Demolition), Chain Saw, Concrete Saw(Hand Held/Walk Behind), Concrete Worker, Hand Held Drill, Grade Checker, Mason Tender-Cement/Concrete, Pipelayer, Wacker Roller Operator

GROUP 2: Carpenter Tender, Demolition, Flagger

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* LABO1149-012 12/01/2020

	Rates	Fringes
LABORER:		
Asphalt Raker	$ 26.17	16.75
Jack Hammer	$ 26.17	16.75
Tamper (Hand Held)	$ 26.17	16.75

PAIN1144-006 12/01/2020

	Rates	Fringes
PAINTER: Spray	$ 31.52	16.10

PLAS0926-001 06/01/2018

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 31.63	21.26

TEAM0175-008 12/07/2015

	Rates	Fringes
TRUCK DRIVER		
Flatbed Truck	$ 30.98	15.98
Off the Road Truck	$ 31.77	15.98
Pick-up Truck	$ 30.01	15.98
Tractor Haul Truck	$ 31.77	15.98

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* UAVG-WV-0016 01/01/2019

	Rates	Fringes

LABORER (Mortar Mixer).....$ 26.17 16.50
LABORER (Vibrating Plate).....$ 26.17 16.50

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* UAVG-WV-0022 01/01/2019

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Drill)	$ 32.19	18.30

SUWV2012-063 08/13/2012

	Rates	Fringes
LABORER: Common or General	$ 21.51	10.45
OPERATOR: Bobcat/Skid Steer/Skid Loader	$ 24.75	14.94
OPERATOR: Boom	$ 28.71	11.59
OPERATOR: Excavator	$ 23.41	14.95
OPERATOR: Loader	$ 23.41	14.95
OPERATOR: Oiler	$ 22.03	14.64
OPERATOR: Paver (Asphalt, Aggregate, and Concrete)	$ 24.39	15.50
PIPEFITTER	$ 35.86	19.30
Truck Driver, Dump (Excluding Off the Road Trucks)	$ 23.50	11.49

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of

each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

"General Decision Number: WV20210050 02/12/2021

Superseded General Decision Number: WV20200050

State: West Virginia

Construction Type: Building

Counties: Brooke and Hancock Counties in West Virginia.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate,if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	02/12/2021

ASBE0002-002 08/01/2020

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR	$ 42.03	26.90

BOIL0667-005 03/01/2018

	Rates	Fringes
BOILERMAKER	$ 39.38	23.77

BRWV0009-007 12/01/2019

	Rates	Fringes
TILE SETTER	$ 29.93	24.38

BRWV0015-008 06/01/2018

	Rates	Fringes
BRICKLAYER		
Bricklayer & Brick Pointer/Caulker/Cleaner	$ 28.00	21.03

BRWV0015-009 06/01/2018

	Rates	Fringes
BRICKLAYER		
Brick Refractory/Brick Placement Worker	$ 31.92	21.89

BRWV0015-010 06/01/2020

	Rates	Fringes
MASON - STONE	$ 29.75	23.64

BRWV0015-014 06/01/2020

	Rates	Fringes
TILE FINISHER	$ 24.26	20.42

CARP0436-005 12/01/2019

	Rates	Fringes
CARPENTER (Including Batt Insulation, Form Work and Scaffold Builder)	$ 24.76	21.11

CARP0443-009 12/01/2019

	Rates	Fringes
MILLWRIGHT	$ 34.75	24.05

ELEC0141-010 09/01/2019

	Rates	Fringes
ELECTRICIAN	$ 30.38	25.87

ENGI0132-012 12/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR:		
GROUP 1	$ 39.56	19.20
GROUP 2	$ 39.21	19.20
GROUP 3	$ 38.21	19.20
GROUP 4	$ 27.71	19.20

GROUP 1: All Friction Cranes, Tower Cranes and all Cranes with 180 ft. or more of boom including mast and jibs or lifting capacity of 100 tons or more and hoists with 30,000 pound line pull or more, Mechanics with tools with 3/4 inch drive and below

GROUP 2: Operating Cranes and Tower Cranes with a lifting capacity of 15 tons and over

GROUP 3: Bulldozer, Excavator, Forklift, Non-Farm Type Tractor, all other Cranes, all other Mechanics

GROUP 4: Bobcat/Skid Steer/Skid Loader, Farm Type Tractor, Loader

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IRON0549-009 12/01/2020

	Rates	Fringes
IRONWORKER (Ornamental, Reinforcing, Sheeting and Structural)	$ 34.03	23.22

LABO0379-015 12/01/2017

	Rates	Fringes
LABORER		
Group 1	$ 21.58	15.75
Group 2	$ 21.94	15.75
Group 3	$ 22.37	15.75
Group 4	$ 19.23	15.75

LABORER CLASSIFICATIONS

GROUP 1: Landscape, Common or General

GROUP 2: Chain Saw, Concrete Saw (Hand Held/Walk Behind), Dewatering, Concrete Worker, Fence Erection, Grouting, Mason Tender-Brick, Mason Tender-Cement/Concrete, Rodman

GROUP 3: Pipelayer

Group 4: Flagger

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* LABO1149-010 12/01/2020

	Rates	Fringes
LABORER	$ 21.72	16.25

LABORER CLASSIFICATIONS

Asphalt Raker, Demolition, Grade Checker, Jack Hammer, Mortar Mixer, Plaster Tender, Scaffold Builder (Brick and Masonry), Skytrak Forklift Operator, Tamper (Hand Held), Water Boy

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PAIN0091-012 12/01/2020

	Rates	Fringes
PAINTER (Brush, Roller and Spray)	$ 26.77	17.47

PAIN0970-007 12/01/2020

	Rates	Fringes
PAINTER (Drywall		

Finishing/Taping).....$ 29.35 17.10

PAIN1195-002 06/01/2020

	Rates	Fringes
GLAZIER	$ 31.50	12.59

PLAS0926-002 06/01/2018

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 31.63	21.26

PLAS0926-005 06/01/2018

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 31.63	21.26
PLASTERER (EIFS and Fireproofing)	$ 30.06	20.36

PLUM0083-006 07/01/2020

	Rates	Fringes
PLUMBER	$ 33.62	34.18

ROOF0188-003 07/01/2020

	Rates	Fringes
ROOFER	$ 28.45	17.24

SHEE0033-003 06/01/2018

	Rates	Fringes
SHEET METAL WORKER (Includes HVAC Duct Installation)	$ 30.65	24.91

TEAM0175-005 10/01/2020

	Rates	Fringes
Truck drivers:		
GROUP 2	$ 29.81	18.55
GROUP 3	$ 29.96	18.55

TRUCK DRIVER CLASSIFICATIONS

GROUP 2 - Dump Truck (Up to 5 cu. yds.), Water Tank Truck (Straight)

GROUP 3 - Dump Truck (5 cu. yds. & over), Tractor Haul Truck, Water Tank Truck (Semi)

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* UAVG-WV-0023 01/01/2019

	Rates	Fringes
LABORER (Bobcat Operator-Cleanup/Demolition)	$ 21.88	16.03
LABORER (Carpenter Tender)	$ 21.86	16.02

LABORER (Motorized Buggy Operator).....$ 21.83 16.00
LABORER (Power Tool Operator)....$ 22.81 16.50

SUWV2012-048 08/13/2012

	Rates	Fringes
CARPENTER (Drywall Hanging Only).....	$ 23.23	12.13
LABORER (Wacker Roller Operator).....	$ 23.07	11.07
OPERATOR: Backhoe.....	$ 21.51	7.36
OPERATOR: Roller.....	$ 25.24	16.15
PIPEFITTER, Includes HVAC Pipe Installation.....	$ 25.32	19.97

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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WAGE DETERMINATION APPEALS PROCESS

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* a survey underlying a wage determination
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END OF GENERAL DECISION"

CITY OF WELLSBURG
BROOKE COUNTY, WEST VIRGINIA
WATER SYSTEM IMPROVEMENT PROJECT
CONTRACT 1 - WATERLINE REPLACEMENT
CONTRACT 2 - WATER TREATMENT PLANT IMPROVEMENTS

PRE-BID CONFERENCE
TUESDAY FERUARY 23, 2012

Thrasher Project #101-010-01117

Name	Representing	Phone #	Email Address
Ryan Schuster	The Thrasher Group	330-451-2042	rschuster@thethrashergroup.com
Scott Wangler	The Thrasher Group	330-451-2042	swangler@thethrashergroup.com
Jonathan Carpenter	The Thrasher Group	304-343-7601	jcarpenter@thethrashergroup.com
Steve Maguschak	City of Wellsburg	304-737-2104	wellsburgcitymgr@comcast.net
Tony Closson	J.F. Allen Company	304-460-7424	tclosson@jfallenco.com
Will Allison	Alex E. Paris Contracting Company	724-947-2235	aparis@alexparis.com
Louis Piccin	Cast and Baker	614-374-8306	lpiccin@castandbaker.com
Bernie Dunlap	Stonegate Construction	304-482-2721	bdunlap@stonegatedigs.com
Bob Litman	Litman Excavating	740-202-0421	info@litmanexcavating.com

Name	Representing	Phone #	Email Address
Barb Zimnox	BHJ-MPC	304-797-9666	bzimnox@bhjmpc.org
*Jodie	Moran Construction	740-444-4773	
*Brian	Catrell	740-537-2481	
* Dave Lash	Cast and Baker	614-374-8306	
* Josh Austin	Kent Companies	330-874-6308	
* Mark Stoll	Foster Supply	304-755-8241	
* Tim Cunningham	Savage Construction	304-242-3100	
* Brent Will	Curtis Power Solutions	800-573-9200	
* Frank Floyer	James White Construction	304-748-8181	
*Name and Company collected by role call			

Name	Representing	Phone #	Email Address