Public Works Department
City of Bellingham

Addendum No. 4

Post Point Sludge Tank Replacement Project
City Project No.: EU194
Bid Number: 3B-2026

October 22, 2026

Attention Bidders:

Included with this letter are descriptions and attachments that make up Addendum No. 4 to the Post Point Sludge Tank Replacement Project, EU194 bid documents.

The following are a list of clarifications relating to the contract.

BID OPENING DATE AND TIME

No revisions to the Bid Opening Date and Time. The Bid Opening Date and Time remain as previously revised in Addendum 2. The bid deadline is **October 28, 2026 at 11:00am**.

BID PROPOSAL

No revisions to the Bid Proposal.

PLANS

1. Addendum 3 directed the Contractor to remove and replace Drawing 440M101 but 440M101 was not provided. The comment was intended to replace Drawing 420M101, not Drawing 440M101. Drawing 420M101 was provided in the Addendum 3 Attachment A. Drawing 440M101 as issued in the Bid Plans remains in the contract.

2. Drawing 020C104 – TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

    a. **DELETE** and **REPLACE** in its entirety. Drawing provided as Attachment A in this Addendum.

3. Drawing 010S102 – AUGERCAST PILE SCHEDULE AND DETAILS:

    a. **DELETE** and **REPLACE** in its entirety. Drawing provided as Attachment A in this Addendum.

4. Drawing 530M101 – SOLIDS HANDLING BUILDING EAST BASEMENT PLAN:

Engineering
2221 Pacific Street
Bellingham, WA 98229
Phone: (360) 778-7900
Fax: (360) 778-7901
TTY: (360) 778-8382
Email: pw@cob.org

Natural Resources
2221 Pacific Street
Bellingham, WA 98229
Phone: (360) 778-7800
Fax: (360) 778-7801
Email: pw@cob.org

Utilities Operations
2221 Pacific Street
Bellingham, WA 98229
Phone: (360) 778-7700
Fax: (360) 778-7701
Email: pw@cob.org

Transportation
2221 Pacific Street
Bellingham, WA 98229
Phone: (360) 778-7700
Fax: (360) 778-7701
Email: pw@cob.org

a. **DELETE** and **REPLACE** in its entirety. Drawing provided as Attachment A in this Addendum.

5. Drawing 530M102 – SOLIDS HANDLING BUILDING EAST SECTIONS:

   a. **ADD** the following to keynote 13: “CONNECT NEW 1-1/2" POS LINE TO EXISTING 1-1/2" POS CONNECTED TO EXISTING POLYMER/SLUDGE MIXER. INSTALL AN ISOLATION BALL VALVE NEAR NEW MIXER.

PROJECT MANUAL – PROJECT SPECIAL PROVISIONS– TECHNICAL SPECIFICATIONS

1. Specification 01_20_20 – MEASUREMENT AND PAYMENT
   a. Section 1.02 L (Item 10L: Area 440 Work): **ADD** the following paragraph h:
      i. “Mass excavation and backfill required for the installation of the work.”

2. Specification 26_60_01 – BURIED GALVANIC ANODE CATHODIC PROTECTION
   a. Section 2.01 B: **ADD** the following paragraph 5:
      i. “6" PD ductile iron pipe.”
   b. Section 3.02 E.5.a: **DELETE** “36-inch” from joint bond table. That row applies for all ductile iron pipe.

3. Specification 31_50_00 – EXCAVATION SUPPORT AND PROTECTION
   a. Section 3.01: **ADD** the following paragraph G:
      “G. Shoring to Remain:
         1. Shoring may be left in place at the discretion of the Engineer. At minimum, where left in the place the shoring must be cut down such that the top of the shoring is no higher than 12-inches below the lowest invert of piping, conduits, or other obstructions.”

2. Specification 40_05_00.01 – COMMON WORK RESULTS FOR GENERAL PIPING
   a. Section 3.03A Attachment A – Pipe Schedule: **ADD** a new row in the pipe schedule for the POS (Polymer Solution) service. The pipe shall have the following values for the respective columns (where information is blank, the corresponding table entry is blank:
      i. Process Abbreviation:
      ii. Service: Exposed
      iii. Nominal Diameter (inches): All
      iv. Material: PVC
      v. Pressure Class Special Thickness Class Schedule Wall Thickness: SCH 80
      vi. Pipe Spec. Section: 40_05_31.01 - Plastic Piping and Tubing
      vii. Joint/Fittings: SW
      viii. Test Pressure/Method: 50 psig/HH
      ix. Lining: None
      x. Coating: EPU-M-1
      xi. Service Conditions:
      xii. Comments:

   b. Section 3.03A Attachment A – Pipe Schedule: **DELETE** Storm Drain rows and replace with a new row for the storm drain service. The pipe shall have the following values for the respective columns (where information is blank, the

corresponding table entry is blank:

i. Process Abbreviation:
ii. Service: Underground
iii. Nominal Diameter (inches): All
iv. Material: DIP
v. Pressure Class Special Thickness Class Schedule Wall Thickness: CL 53
vi. Pipe Spec. Section: 40_05_19.01 - Ductile Iron Pipe: AWWA C151
vii. Joint/Fittings: RPO or Rest. MJ
viii. Test Pressure/Method: 5 ft/GR
ix. Lining: CM
x. Coating: 2 Layers PEE
xi. Service Conditions:
xii. Comments:

4. Specification 43_23_58 – SINGLE-LOBE ROTARY PUMPS
    a. Section 3.04 – PUMP SCHEDULE: **REPLACE** "Double Mechanical" for seal type with "Single Mechanical" for both sets of pumps.

PROJECT MANUAL – APPENDIX A: STATE WAGE RATES

a. DELETE and **REPLACE** in its entirety. State Wage Rates are re-issued with an effective date of 10/28/2026 (Bid Opening Date).

BIDDER QUESTIONS AND RESPONSES

The following questions were received by the City, and clarifying responses are provided:

1. Question: Construction joints – Sludge Storage Tanks (Area 440): (General Structural Note 2 on 010S101; Spec 03 30 00 3.02.A.3) The drawings show limited construction joints for the sludge storage tank structure. Per 010S101 Note 2 and 03 30 00 3.02.A.3, the Contractor may submit joint locations not shown, and joints are required at intervals not greater than 35 feet. To establish a common basis for bidding, please confirm the following:

    a. Walls: Will the City accept a horizontal wall construction joint at approximately EL 25.0 (above the 42" manways), per typical detail SD102 with continuous PVC waterstop, in lieu of 29-ft single-lift placements from EL 9.00 to EL 38.00? Please confirm whether vertical reinforcing lap splices need to be relocated to clear the joint (440S103 General Note 5).

        Response: Intermediate height wall horizontal construction joints with waterstop per Detail SD130/TYP may be added at the contractor's option. The joint height location shall clear to fit trim bars around the openings per SC012/TYP. Final joint locations shall be submitted to the Engineer for approval.

    b. Mat slab: The mat is 44'-0" x 24'-4" x 2'-2" with no construction joint shown. Will the City accept placement of the mat in a single monolithic pour (approx. 85–90 CY), or is an intermediate construction joint required?

        Response: Single monolithic mat foundation slab pour is acceptable.

c. Roof slab: The roof slab is approximately 41'-0" x 21'-4" x 1'-4" with no construction joint shown. Will the City accept placement of the roof slab in a single monolithic pour (approx. 45 CY)? Please also confirm that the 8" parapet may be placed separately with a construction joint at top of roof slab, per SD150 or similar.

Response: Single monolithic roof slab pour is acceptable.

2. Question: Strider Construction would like clarification on the shoring requirements for the Post Point Sludge Storage Tank (Area 440) excavation.
Background:
Per 030C103 Key Note 3, the bottom of excavation is El. 5.32. Per Addendum 1, Q7, bidders are to assume groundwater at El. 13 minimum, so the excavation extends about 8 ft below groundwater. The specifications require the following for this excavation:
   - 31_23_19, 2.01.B: impermeable shoring, dewatering from within the shoring, shoring extended below the excavation bottom to cut off groundwater and prevent piping and heave, and no more than 1 ft of groundwater drawdown outside the shoring, with recharge if needed.
   - 31_50_00, 2.01.C.5: shoring tight enough to prevent soil loss, extended below the bottom to prevent piping, heave or flow of soil, and interlocking sheet piles with ball-and-socket or thumb-and-finger interlocks where the excavation is below the water table.
   - 31_50_00, 3.01.B.3: voids pressure-grouted from the bottom up as the shoring is pulled.

   a. Based on the above, please confirm that slide rail systems, trench boxes, open-cut or sloped excavation, and soldier pile and lagging are not acceptable for the Sludge Storage Tank excavation, and that a continuous interlocking steel sheet pile system (or an equivalent impermeable cutoff wall), dewatered from within, is required on all sides.

   Response: The Contract Documents do not require continuous interlocking steel sheet piling on all sides of the Sludge Storage Tank excavation but that was the design assumption. Any excavation support and protection system provided by the Contactor needs to meet or exceed the performance requirements and meet site restrictions. The Contractor must provide a delegated-design excavation support and dewatering system that satisfies Specification Sections 31_23_19 and 31_50_00.

   b. Drawing 030C103 shows the west side of the excavation sloped with an access ramp (Key Notes 1 and 2). Please confirm whether a sloped west side is acceptable, and if so, how the 1-ft maximum outside drawdown and recharge requirements of 31_23_19 2.01.B apply to the sloped portion.

   Response: The intent of the excavation plan is to show a reference concept. The ramp is not required if the Contractor does not think it is necessary or possible based on the groundwater elevation observed through the Contractor's piezometer. If a ramp is opted for, the plant road minimum clearance must be

met, per the Drawing. It is the Contractor's responsibility to plan and perform the work, including excavation, excavation support and protection, and dewatering, that complies with Sections 31_23_19 and 31_50_00, including not lowering groundwater more than 1 foot to avoid settlement of existing structures.

c. Please confirm that 31_50_00 3.01.B.4 (treated wood lagging left in place) applies only to excavations above groundwater, and not to the Sludge Storage Tank excavation.

Response: Section 31_50_00, Paragraph 3.01.B.4 does not limit preservative-treated wood lagging left in place to excavations above groundwater. Pressure-preservative-treated wood lagging may be left in place only when acceptable to the Engineer. Per Addendum 3, it is acceptable to remove the shoring or cut off the shoring down 12-inches below the lowest invert for pipe within the shored area. As noted in previous questions, the Contractor must provide a delegated-design excavation support and dewatering system that satisfies Specification Sections 31_23_19 and 31_50_00.

d. Please confirm that the pressure grouting requirement of 31_50_00 3.01.B.3 applies to all sheet piling removed from the Sludge Storage Tank excavation.

Response: Yes, it applies to all shoring installed that is removed.

e. On the east side, the Odor Control slab and its augercast piles sit about 4 ft from the tank wall and inside the minimum shoring setback of 31_50_00 2.01.B.3 (440S103 shows the shoring about 2'-4" from the mat edge). It appears the east temporary shoring sheet pile wall will need to be left in place to protect the new tank structure and the Odor Control piles from extraction vibration and settlement.

Response: It is acceptable to leave shoring in place insofar as the shoring top is 12-inches below the lowest pipe invert.

3. Question: Revised 030C102 (Addendum 2) shows new 2" and 3" drain lines and a 2.5" W3 line in the same 4-ft strip between the tank and the Odor Control slab, with the 3" D entering MH-SST at invert El. 13.50 (Key Note 10). An existing 4" W3 also appears to run north-south along the east side of the tank, in the shoring alignment. We propose leaving the east wall in place, cut off at approximately El. 14 (about 4 ft below finish grade), with local notches cut down to a minimum of 12 inches below the pipe invert wherever new or existing lines cross over the abandoned sheets. Where metallic pipe crosses the sheets, clearance or isolation would be provided so the pipe does not contact the steel. Please confirm:

a. that leaving the east wall of sheet piling in place, cut off and notched as described above, is acceptable in lieu of removal under 31_50_00 3.01.B.1.

Response: It is acceptable to leave shoring in place insofar as the shoring top is 12-inches below the lowest pipe invert.

b. that a reduced shoring setback on the east side is acceptable;

Response: It is acceptable.

c. that the proposed cutoff elevation and notching are acceptable, or advise the required cutoff elevation;

Response: It is acceptable to leave shoring in place insofar as the shoring top is 12-inches below the lowest pipe invert.

d. whether the 3" D runs parallel to the east shoring alignment, and if so, whether it may be offset toward the Odor Control slab to clear the abandoned sheets; and

Response: All changes in routes should submitted in a yard piping shop drawing submittal and must be coordinated with the odor control system provided.

e. the location, depth, and disposition of the existing 4" W3 along the east side of the tank (to remain, relocate, or abandon), and whether it may be temporarily removed or rerouted to allow sheet pile installation.

Response: All piping changes and relocations within the area of the shoring should be submitted during the shoring submittal process. The Engineer and City will review long term and temporary outages for proposed relocations (or abandonments, etc) at that time.

4. Question: Is Contractor allowed to use Post Point Equipment (ex. Overhead Crane Trolley) during construction work, or is Contractor required to supply their own means and methods?

   Response: Contractor shall supply and operate all equipment necessary to complete the work. City-owned equipment within active process areas shall not be used by the Contractor.

5. Question: Reading through the specifications for the doors, the architect is requesting dark bronze anodized doors and jambs with 626/630 finish hardware. Can you confirm the contrasting finishes on the doors and hardware?

   Response: Provide finishes as shown in the Contract Documents.

6. Question: Please reference drawings 530M101 and 102. Both drawings call out a 1-1/2" POS line. No detailed routing can be found in these drawings and only a single line on the P&IDs can be located showing from existing to the new polymer mixing valve. No location of the existing polymer storage can be found on the drawings. Please provide this location.

   Response: The existing 1-½ POS is PVC and located in the same area as the planned replacement polymer/sludge mixer. The Contractor shall field route the new POS piping from the existing POS and connect to the new mixer.

7. Question: Please reference specification section 40 05 00.01. The provided pipe schedule does not list out a pipe material type for polymer. Please provide information relating to POS service pipelines.

   Response: See amended language for the pipe schedule issued in this addendum.

8. Question: Please reference drawings 530M101 and 102. No new isolation valve for the new polymer feed is shown on the mechanical or P&ID drawings. Please advise if the new POS piping should have an isolation valve.

   Response: Yes, the new POS line should have an isolated valve to match functionality of the existing POS. Include a ball valve to allow for isolation.

9. Question: Please reference specification 07 11 00 Dampproofing and 09 96 00 3.06.J. The 07 11 00 specification references ASTM D1227 for emulsified asphalt used as a protective coating for roofing. Specification 09 96 00 3.06.J notes “Waterproof surfaces exposed to soil or water where specified in Section 07 11 00 Dampproofing.” Please specify all locations throughout the project where dampproofing is to be applied per specification 07 11 00.

   Response: Dampproofing is only necessary for the Sludge Storage Tank structure.

10. Question: Please reference drawing 440S101 and 440S103. S101 Keynote 8 calls for all exposed interior concrete surfaces, except floors, to be coated per 09 96 01. Does “all exposed interior concrete surfaces” include the Class C Concrete Fill shown in Section C on S103?

    Response: No, the fill is part of the floor.

11. Question: The specification requires steel rebar reinforcement for the polymer concrete manhole. Armorock Polymer Concrete uses FRP reinforcement instead. As a listed manufacturer, please clarify whether Armorock’s FRP reinforcement is acceptable as an alternative to steel rebar.

    *Response: Fiberglass reinforcement is acceptable insofar that it can meet the load rating requirements per Specification Section 33_05_*61.02 2.03.

12. Question: Follow-up to Addendum 3, Question 5 – 6" PD between Sludge Storage Building 420 and the Sludge Storage Tanks: Revised Drawing 030C102 (Addendum 2 and 3) labels a new 6" PD between Building 420 and the sludge storage tanks, but no invert elevations, wall penetration elevations, or points of connection are shown on the civil, mechanical (440M101, 440M104, 420M101) or structural drawings, and the line does not appear on 440M101. Please provide:

    a. the upstream and downstream points of connection (MH-SST, Building 420 sump, or other),

       Response: The 6” PD is the drain between MH-SST and the Raw Sewage Pump Station located in the pipe gallery (Area 050). The existing Raw Sewage Pump Station has a 4” drain that will be replaced with the new 6” PD at the same

elevation.

The 4" PD that connects to MH-SST and Sludge Storage Building (Area 420) is a pressurized pipe from the sump pumps in that same building.

b. invert elevations at each end and at any wall penetrations, and

Response: Inverts were provided for penetrations in Addendum 3.

c. required slope. Additionally, please provide invert elevations and points of connection for the 2" D and 2.5" W3 at the odor control slab and the 1.5" W1 to Building 320, or confirm bidders should assume 3 ft minimum cover per the Question 5f response. Also, at existing SDCB #2322 (020C107 key notes 3 and

Response: Addendum 3 included slopes (keynote 13 and 14) for the 3" D and 6" PD. Addendum 3 also included invert for the 4" W3 pipe. The 2.5" W3 Pipe is connected to that same 4" pipe and is intended to be at the same elevation, or at least have the minimum cover of 3'. The 2" D is a condensate pipe that simply connects to the 3" D in the yard. There is no slope intended for the 2" D.

d. please confirm whether a new WSDOT Type 1 catch basin is required or the existing structure is to remain and be adjusted to grade.

Response: Replace the catch basin with a new catch basin as shown on Drawing 020C108. WSDOT Type 1 Catch Basin is acceptable.

13. Question: Addendum 3 changed the 6" OA pipe to 6" FA. We are unable to locate the 6" FA on the yard piping drawings, please provide a spec for this changed material. Based on key note 2; it's assumed the new pipe is FRP. Please confirm that FRP pipe is intended to be buried.

Response: Existing 6" OA and new 6" FA are shown on Drawing 030C102 in Addendum 3. New FA pipe is FRP and intended to be buried. The existing OA is PVC insofar as existing records indicate.

14. Question: 030C102 Key Note 6 requires the existing 12-inch storm drain to be replaced with inverts matching existing (IE 14.8 and IE 14.7). With finished grades of approximately EL 17.2 to 17.8 on 020C107, this leaves roughly 1.3 to 2.0 feet of cover. That is less than the 3-foot minimum stated in the Addendum 3 response to Question 5f, and in places less than the 18 inches at which Section 33 41 00, 2.02.A.2 requires ductile iron pipe. The line also falls within the HMA heavy-truck section (20 inches thick). Please confirm:

a. That the 3-foot minimum cover does not apply to this line, since inverts must match the existing system.

Response: Confirmed.

b. The pipe material required: ductile iron (WSDOT 9-05.13) for the full length, or corrugated polyethylene (9-05.20) where cover is 18 inches or more.

Response: Ductile iron pipe for the full length. See modification to the pipe schedule to reflect that.

c. Whether any additional protection (CDF backfill or concrete cap) is required where the pipe zone conflicts with the pavement section.

Response: Use of CDF at those conflict areas is acceptable.

15. Question: Section 31 00 00, 3.03.F.2.a requires aggregate base course for backfill adjacent to structures, compacted to 95 percent. Around the Sludge Storage Tanks, the space between the tank walls and the sheet pile shoring is approximately 3'-6" to 5'-0" wide and contains dewatering well points, which makes compaction of base course in 6-inch lifts impractical. Will the City accept either of the following, from top of mat (EL 9.0) to approximately EL 13.0, with aggregate base course above:

    a. CLSM per Section 31 23 24, placed in lifts not exceeding 3 feet; or

    Response: CLSM is acceptable and preferred over the drain rock.

    b. Clean crushed drain rock (WSDOT 9-03.12(4) Gravel Backfill for Drains or similar), consolidated with a vibratory plate, with a geotextile separator between the drain rock and the aggregate base course above?

    Response: Acceptable insofar as compaction requirements can be achieved.

16. Question: As specified, the 28 P1 piles must be installed after excavation to below cut-off elevation (31 63 17, 1.01.B.1). Inside the sheet-pile-shored and dewatered excavation, with grout dipped to cut-off while fluid (3.02.C.3) and hooked dowels per 010S102. Will the City accept:

    a. Installing the P1 piles from existing grade (approx. EL 18.3) before excavation, with grout brought to existing grade, then excavating and cutting/chipping the piles to sound grout at cut-off elevation (EL 6.83)?

    Response: Pile vertical bars and dowels need to be set at the correct elevation into the mat slab. If the contractor drills and fills the pile grout all the way to grade level and returns to chip them off later, it will be impossible to accurately manage and install the dowels at the correct mat slab elevations. Post-installed epoxy-drilled pile dowels will not be accepted.

    b. Headed reinforcing bars (ASTM A970, e.g., Lenton Terminator or equal) in lieu of the 90-degree hooked dowels? Installing from existing grade requires the reinforcing to be placed down the augured hole, and the hooked dowels extend beyond the pile diameter. Straight headed bars would allow the cage to be set to elevation from grade, since field bending of dowels is not permitted (3.02.D.1.a).

    Response: With the current (10) #9 dowel arrangement in a 24-inch pile

diameter, the dowels must extend a minimum of 21 inches into the mat slab past the key joint to the bottom of the head. Given the slab thickness minus the key depth, headed terminators are not feasible for this geometry.

17. Question: Specification section 01 71 23 1.03 – Pre-Excavation Report essentially requires a full Post Point Treatment plant PLS site survey including structures, buildings, and utilities not being modified under this Contract. Please confirm it's the intent of the City to have a full plant wide Post Point site survey performed under this contract. Additionally, 01 71 23 1.03 references Subsurface Utility Engineering in section 33 05 01. There is no 33 05 01 included in the specifications. Please provide 33 05 01 or advise otherwise.

    Response: The intent is that the Contractor is responsible for recording conditions in the areas affected by the Work and modified as part of the Work, not an entire plant survey.

18. Question: Specification Section 46 78 83 PACKAGED BIOTRICKLING FILTER ODOR CONTROL SYSTEM Part 2.02 SECTION A - Comment; Perry Fiberglass Products, Inc. is an established manufacturer of odor control systems. Perry meets the specification. Question: Perry Fiberglass Products, Inc. be added as a named supplier?

    Response: Specification 46_78_83 2.02(A) was revised in Addendum 1 to remove the requirement for alternate manufacturer to be approved prior to end of Bid Period. Manufacturers shall supply equipment meeting all requirements of the specifications.

19. Question: Specification 40_61_16.10, Section 3.03.B.1.b, states that the VFDs for the sludge storage pumps are in MCC-42001. Drawing 420E001 also shows VFD-42001 and VFD-42004 as MCC units 3A and 3E. However, Drawings 420E002, 420E103 and 420E106, reissued Drawing 420E104 (Key Notes 2 and 3) and the reissued Conduit Schedule 26_06_02 (P-420-050/060, C-420-057/067) all show standalone wall-mounted VFDs. In that arrangement the drives are fed from 60A feeder breakers in MCC-42001. Please confirm whether VFD-42001 and VFD-42004 are to be: a) provided as units within MCC-42001, or b) provided as standalone wall-mounted units fed from 60A feeder breakers in MCC-42001.

    Response: The VFDs are to be installed outside of the MCC as indicated on the Drawings.

20. Question: For the Area 420 and Area 440 Building Identification Signage - what size, thickness, and font should the cast aluminum letters be?

    Response: Match existing signs. The existing signs are cedar and are 19.75" high, 52" wide, and 1.5" thick. The height and width vary between the signs to accommodate the lettering. The material is sandblasted cedar that is painted with recessed lettering 4.38" tall. The signs are anchored to the wall with wood mounting cleats and nail anchors.

21. Question: Reference Addendum No. 1, Question 6, and Specification Sections 01 45 00, 03 30 00, 31 00 00, and 31 23 35. Addendum No. 1 confirms that the City has retained Certerra (GeoTest) for special inspections and that the Contractor is responsible for retesting resulting from failed trench compaction tests. Please clarify whether the City's agreement with Certerra includes the initial concrete sampling/cylinder testing and

earthwork/trench compaction confirmation testing required by the technical specifications, or whether the Contractor must separately retain and pay an independent testing laboratory for those services. Please confirm that Contractor-paid retesting resulting from nonconforming work remains the Contractor's responsibility.

Response: Certerra will perform initial concrete and soil testing for the project. The Contractor is responsible for coordination with Certerra and any re-testing costs as necessitated from failed testing results.

22. Question: Specification Section 31_50_00, Paragraph 3.01.B; Addendum No. 3, Question 6; Drawing 030C102. Addendum No. 3, Question 6, requires temporary excavation shoring to be removed in full or to the invert elevation of the lowest pipe within the shored area. The Contractor is evaluating an engineered soldier pile and treated wood lagging system as an alternative to sheet pile shoring. This system would provide the required excavation support (deflection 1") while potentially reducing installation noise associated with the Heron Colony restrictions 92dB. The proposed soldier pile layout can be designed to avoid conflicts with permanent underground piping and structures. However, removal of the soldier piles to the lowest pipe invert elevation presents significant constructability challenges, particularly after completion of the new tank foundation and associated underground improvements. Question: Would the Engineer of Record consider allowing steel soldier piles to remain permanently below a specified cutoff elevation that is higher than the lowest pipe invert, provided the following conditions are satisfied?

    a. The soldier piles are located outside the limits of permanent piping, structures, and required utility clearances.

    b. The remaining piles do not interfere with the installation, operation, or future maintenance of underground utilities.

    c. The piles are cut off below finished grade with adequate cover for final site restoration.

    d. The Contractor submits an engineered shoring and pile abandonment plan identifying pile locations, proposed cutoff elevations, and applicable clearances for review and approval. If acceptable, please identify the minimum required depth below finished grade or other criteria that would govern the permanent abandonment of steel soldier piles. Alternatively, would the Engineer consider approving the proposed cutoff elevations on a pile-by-pile basis where sufficient clearance from permanent improvements can be demonstrated?

Response: Bids shall be based on removal of all shoring elements to 12-inches below the lowest pipe invert in accordance with the revision to Specification 31_50_00 issued in this addendum.

23. Question: Per 030C001 Civil Legends & Symbols, bold "-X-" indicates new fencing. Sheet C103*(?)* shows 2 sections of 8' tall chain link fencing on concrete footing of approximately 174 LF to be installed under that designation. Please advise if this is indeed the case, as it is the only section of new permanent fencing that seems to be for the project.

Response: There is no new permanent fencing proposed for this project. 020C104 is for temporary fencing as noted in Keynote 1. Depending on how the Contractor performs the work, more or less fencing may be necessary, and ultimately the Contractor is required to provide temporary fencing as needed to meet the requirements of the Contract Documents. Drawing 020C103 represents existing conditions only, including existing permanent fencing. Drawing 030C103 does not indicate any permanent fencing.

24. Question: Section 31 23 19, 3.01.E requires one additional monitoring well for every 4 dewatering wells or well points. With watertight sheet pile shoring, a wellpoint system inside the Sludge Storage Tank excavation could have 25 or more closely spaced well points. That would require 7 or more monitoring wells around an excavation of roughly 50 ft x 31 ft. Will the City accept one monitoring well per side of the excavation (4 total) when a wellpoint system is used, provided the wells meet the location requirements of 3.01.E.2?

    Response: The proposed monitoring well on each side of the excavation, as noted, is acceptable.

25. Question: Section 31 50 00, 3.01.B.3 requires voids left by pulled shoring to be filled with pressure-injected grout, from the bottom of the void to grade, as the shoring is removed. For the Sludge Storage Tank excavation, the sheets extend to approximately EL –15, and groundwater returns to EL 13 or higher after dewatering is shut down, so nearly all of the void will be below the water table. Please confirm:

    a. That pressure grouting is required for all sheets removed from the Sludge Storage Tank excavation, on all sides.

        Response: Contractor to include removal plan for shoring system that minimizes vibration and voids left by removal such that adjacent structures and infrastructure are not damaged. The need for grouting to avoid voids will depend on the Contractor's shoring and removal plan.

    b. Grout material requirements: is there a minimum or maximum compressive strength or a required mix (cement-bentonite, sand-cement, CLSM, or low-density cellular concrete), and are materials with a density lower than water acceptable below the water table?

        Response: The grout or void filling material needs to be an inert and stable material. The material should meet or exceed strength requirements of existing soil.

    c. Section 3.01.B.3.b requires minimizing the length of shoring removed ahead of grouting and limiting the time a void is left ungrouted. Please state the maximum length of sheet that may be extracted ahead of grout placement and the maximum time a void may remain ungrouted, or confirm that the Contractor's submitted removal procedure will govern. It should be noted that grouting each sheet in short increments as it is extracted, together with the vibration limits of 3.01.D, will significantly slow extraction.

Response: Contractor to include removal plan for shoring system that minimizes vibration and voids left by removal such that adjacent structures and infrastructure are not damaged. The rate of extraction and need for grouting to avoid voids will depend on the Contractor's shoring and removal plan.

26. Question: Details CP100, CP102, CP150, CP361, CP363 and CP371 are referenced but not included in the plan set; only CP175 and CP311 appear on 800TC001. Please provide the missing details.

    Response: Please see Addendum 1 for provision of the missing details.

27. Question: The bond details table in Section 26 60 01 lists 36-inch DIP only. Please confirm the bond wire size and number of bonds per joint required for 4-inch through 8-inch pipe.

    Response: No. 4 AWG per the table. 36-inch wording does not apply.

28. Question: Section 26 60 01, 2.01.B lists a 4-inch PD as protected, but Addendum 2 revised the north PD to 6-inch. Please confirm the 6-inch PD is to be protected.

    *Response: Correct, the 4" PD in Specification Section 26_60_*01 should be interpreted to indicate both the 4" PD and 6" PD.

29. Question: Mass excavation – Area 440. No bid item names mass excavation, haul and disposal for the Sludge Storage Tanks. Please confirm whether it belongs in Bid Item 4L, 6L or 10L.

    Response: Bid Item 10L – Area 440 Work.

30. Question: Augercast piles – added length and obstructions. 010S102 Note 5 requires piles and reinforcing to be extended if dense glacial till is deeper than assumed, and Section 31_63_17, 3.02.B.5 pays abandoned or obstructed piles at "agreed Contract unit prices." Bid Item 3L is lump sum and the Bid Proposal has no unit prices for piles. Please confirm that bidders are to price the pile lengths shown on 010S102, and that added pile length, replacement piles for obstructions not caused by the Contractor, and related standby will be paid by force account per Standard Specification 1-09.6 (or by change order under 1-04.4).

    Response: Bidders are to price the piles shown in the Contractor Documents. Revisions in pile length due to differing site conditions will be reviewed under Standard Specification 1-04.7.

31. Question: Trench shoring for yard piping. Please confirm whether trench shoring for yard piping is paid under Bid Item 4L or 6L, and whether the impermeable shoring requirement of 31_23_19, 2.01.B applies only to the Area 440 structure excavation (allowing trench boxes and sumps for yard piping).

    Response: Bid Item 4L. Where trench boxes and sumps meet the requirements for

excavation protection for yard piping they can be used.

32. Question: Topsoil and compost – Section 32_90_01. No topsoil depth or compost rate is specified. Please state the depth of topsoil and the compost rate to be placed under seeded areas.

    Response: Provide 8 inches of topsoil with 3 inches of compost in areas to be seeded.

33. Question: I'm looking to get clarification on the double mechanical seal requirement on the lobe pumps. The schedule calls for double mechanical seals, but the specified pump models from borger and vogelsang can only accept single mechanical seals, and the stuffing box language in the spec points towards a single mechanical seal. This appears to conflict with the double mechanical seal requirement in the pump schedule. It is our manufacturer's opinion that a single mechanical seal would be sufficient for this application. Can you confirm that double mechanical seals are required for the lobe pumps on this project?

    Response: Single mechanical seal is acceptable.

The above changes shall constitute a binding change to the contract documents for this project and shall become a part of any resulting contract awarded subsequent to the opening of bids for the project.

Remember that the bidder must acknowledge receipt on the signature page of the proposal, of all addenda issued during the bidding period. *Failure to so acknowledge may result in the proposal being rejected as not responsive.*



Stephen Day PE, SE
Project Engineer

Addendum 4 Attachments:

- Attachment A – Drawings (3pgs)
- Attachment B – Appendix A: State Wage Rates (49pgs)

APPENDIX A:
STATE WAGE RATES
POST POINT SLUDGE TANK REPLACEMENT PROJECT
EU194

This project is a public work subject to State of Washington prevailing wage law, Chapter 39.12 RCW. Prevailing wage rates applicable to this project, which is located in Whatcom County, Washington, are available on the Washington State Department of Labor & Industries' website at: https://secure.Lni.wa.gov/wagelookup . The applicable effective date for prevailing wages is the bid submittal deadline. A hard copy of applicable prevailing wage rates is available for viewing at the City's Purchasing Office and will be mailed upon request.

Addendum 4:
Appendix A is Deleted and Replaced with the attached wage rates, effective 10/28/2026.

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage
The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 10/28/2026

Whatcom County

Trade	Job Classification	Wage	Holiday	Overtime	Note
Asbestos Abatement Workers	Journey Level	$71.10	**5D**	**1H**	
Boilermakers	Journey Level	$83.89	**5N**	**1C**	
Brick Mason	Journey Level	$82.00	**7E**	**1N**	
Brick Mason	Pointer-Caulker-Cleaner	$82.00	**7E**	**1N**	
Building Service Employees	Janitor	$17.13		**1**	
Building Service Employees	Shampooer	$17.13		**1**	
Building Service Employees	Waxer	$17.13		**1**	

Building Service Employees	Window Cleaner	$17.13		**1**	
Cabinet Makers (In Shop)	Journey Level	$24.89		**1**	
Carpenters	Acoustical Worker	$87.71	**15J**	**11U**	
Carpenters	Bridge Dock and Wharf Carpenter	$89.38	**15J**	**11U**	**9L**
Carpenters	Floor Layer & Floor Finisher	$87.71	**15J**	**11U**	
Carpenters	General Carpenter	$87.71	**15J**	**11U**	
Carpenters	Scaffold Erector	$87.71	**15J**	**11U**	
Cement Masons	Application of all Composition Mastic	$86.70	**15J**	**4U**	
Cement Masons	Application of all Epoxy Material	$86.18	**15J**	**4U**	
Cement Masons	Application of all Plastic Material	$86.70	**15J**	**4U**	
Cement Masons	Application of Sealing Compound	$86.18	**15J**	**4U**	
Cement Masons	Application of Underlayment	$86.70	**15J**	**4U**	
Cement Masons	Building General	$86.18	**15J**	**4U**	
Cement Masons	Composition or Kalman Floors	$86.70	**15J**	**4U**	

Cement Masons	Concrete Paving	$86.18	**15J**	**4U**
Cement Masons	Curb & Gutter Machine	$86.70	**15J**	**4U**
Cement Masons	Curb & Gutter, Sidewalks	$86.18	**15J**	**4U**
Cement Masons	Curing Concrete	$86.18	**15J**	**4U**
Cement Masons	Finish Colored Concrete	$86.70	**15J**	**4U**
Cement Masons	Floor Grinding	$86.70	**15J**	**4U**
Cement Masons	Floor Grinding/Polisher	$86.18	**15J**	**4U**
Cement Masons	Green Concrete Saw, self-powered	$86.70	**15J**	**4U**
Cement Masons	Grouting of all Plates	$86.18	**15J**	**4U**
Cement Masons	Grouting of all Tilt-up Panels	$86.18	**15J**	**4U**
Cement Masons	Gunite Nozzleman	$86.70	**15J**	**4U**
Cement Masons	Hand Powered Grinder	$86.70	**15J**	**4U**
Cement Masons	Journey Level	$86.18	**15J**	**4U**
Cement Masons	Patching Concrete	$86.18	**15J**	**4U**
Cement Masons	Pneumatic Power Tools	$86.70	**15J**	**4U**
Cement Masons	Power Chipping & Brushing	$86.70	**15J**	**4U**

Cement Masons	Sand Blasting Architectural Finish	$86.70	**15J**	**4U**	
Cement Masons	Screed & Rodding Machine	$86.70	**15J**	**4U**	
Cement Masons	Spackling or Skim Coat Concrete	$86.18	**15J**	**4U**	
Cement Masons	Troweling Machine Operator	$86.70	**15J**	**4U**	
Cement Masons	Troweling Machine Operator on Colored Slabs	$86.70	**15J**	**4U**	
Cement Masons	Tunnel Workers	$86.70	**15J**	**4U**	
Divers & Tenders	Bell/Vehicle/Submersible Operator (not under pressure)	$149.22	**15J**	**11T**	**9I**
Divers & Tenders	Dive Supervisor	$150.72	**15J**	**11T**	**9I**
Divers & Tenders	Diver	$149.22	**15J**	**11T**	**9I**
Divers & Tenders	Diver Tender	$95.55	**15J**	**11T**	**9I**
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 0-30.00 PSI	$120.22	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 30.01-44.00 PSI	$130.16	**15J**	**11U**	

Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 44.01 - 54.00 PSI	$140.11	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 54.01 - 60.00 PSI	$150.05	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 60.01 - 64.00 PSI	$160.00	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 64.01 - 68.00 PSI	$169.94	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 68.01 - 70.00 PSI	$179.88	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 70.01 - 72.00 PSI	$189.83	**15J**	**11U**	
Divers & Tenders	Hyperbaric Worker - Compressed Air Worker 72.01 - 74.00 PSI	$199.77	**15J**	**11U**	
Divers & Tenders	Lead Diver (Dive Master)	$110.01	**15J**	**11T**	**9I**
Divers & Tenders	Manifold Operator (Life Support Technician)	$100.55	**15J**	**11U**	**9I**
Divers & Tenders	Remote Operated Vehicle Operator/Technician	$95.55	**15J**	**11T**	**9I**

Divers & Tenders	Remote Operated Vehicle Operator/Technician	$95.55	**15J**	**11U**	**9I**
Divers & Tenders	Remote Operated Vehicle Tender	$89.25	**15J**	**11T**	**9I**
Divers & Tenders	Stand-by Diver	$105.01	**15J**	**11T**	**9I**
Dredge Workers	Assistant Engineer	$93.71	**15Q**	**3F**	
Dredge Workers	Assistant Mate (Deckhand)	$92.99	**15Q**	**3F**	
Dredge Workers	Boatmen	$93.71	**15Q**	**3F**	
Dredge Workers	Engineer Welder	$95.52	**15Q**	**3F**	
Dredge Workers	Leverman, Hydraulic	$97.45	**15Q**	**3F**	
Dredge Workers	Mates	$93.71	**15Q**	**3F**	
Dredge Workers	Oiler	$92.99	**15Q**	**3F**	
Drywall Applicator	Journey Level	$84.77	**15O**	**11S**	
Drywall Tapers	Journey Level	$84.77	**15O**	**11S**	
Electrical Fixture Maintenance Workers	Journey Level	$17.13		**1**	
Electricians - Inside	Cable Splicer	$105.08	**7H**	**1E**	
Electricians - Inside	Construction Stock Person	$50.14	**7H**	**1D**	

Electricians - Inside	Journey Level	$98.34	**7H**	**1E**	
Electricians - Motor Shop	Craftsman	$17.13		**1**	
Electricians - Motor Shop	Journey Level	$17.13		**1**	
Electricians - Powerline Construction	Cable Splicer	$107.31	**5A**	**4D**	
Electricians - Powerline Construction	Certified Line Welder	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Groundperson	$61.75	**5A**	**4D**	
Electricians - Powerline Construction	Heavy Line Equipment Operator	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Journey Level Lineperson	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Line Equipment Operator	$84.94	**5A**	**4D**	
Electricians - Powerline Construction	Meter Installer	$61.75	**5A**	**4D**	**8W**
Electricians - Powerline Construction	Pole Sprayer	$98.45	**5A**	**4D**	
Electricians - Powerline Construction	Powderperson	$72.81	**5A**	**4D**	
Electronic Technicians	Electronic Technicians Journey Level	$65.58	**5B**	**1B**	

Elevator Constructors	Mechanic	$119.17	**7D**	**4A**	
Elevator Constructors	Mechanic In Charge	$128.95	**7D**	**4A**	
Fabricated Precast Concrete Products	Journey Level	$17.13		**1**	
Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$17.13		**1**	
Fence Erectors	Fence Erector	$60.82	**15J**	**11X**	**9N**
Fence Erectors	Fence Laborer	$60.82	**15J**	**11X**	**9N**
Flaggers	Journey Level	$60.82	**15J**	**11X**	**9N**
Glaziers	Journey Level	$88.41	**7L**	**1Y**	
Heat & Frost Insulators And Asbestos Workers	Journey Level	$100.83	**15H**	**11C**	
Heating Equipment Mechanics	Mechanic	$103.56	**7F**	**1E**	
Hod Carriers & Mason Tenders	Journey Level	$75.00	**15J**	**11X**	**9N**
Industrial Power Vacuum Cleaner	Journey Level	$17.13		**1**	
Inland Boatmen	Boat Operator	$71.28	**5B**	**1K**	
Inland Boatmen	Cook	$69.70	**5B**	**1K**	
Inland Boatmen	Deckhand	$70.00	**5B**	**1K**	

Inland Boatmen	Deckhand Engineer	$69.55	**5B**	**1K**
Inland Boatmen	Launch Operator	$71.23	**5B**	**1K**
Inland Boatmen	Mate	$89.12	**5B**	**1K**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator	$58.17	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Foamer Operator	$58.17	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$58.17	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$56.10	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$49.90	**15M**	**11O**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	TV Truck Operator	$53.00	**15M**	**11O**
Insulation Applicators	Journey Level	$87.71	**15J**	**11U**
Ironworkers	Journeyman	$94.82	**15K**	**11N**

Laborers	Air, Gas Or Electric Vibrating Screed	$71.10	**15J**	**11X**	**9N**
Laborers	Airtrac Drill Operator	$73.18	**15J**	**11X**	**9N**
Laborers	Ballast Regular Machine	$71.10	**15J**	**11X**	**9N**
Laborers	Batch Weighman	$60.82	**15J**	**11X**	**9N**
Laborers	Brick Pavers	$71.10	**15J**	**11X**	**9N**
Laborers	Brush Cutter	$71.10	**15J**	**11X**	**9N**
Laborers	Brush Hog Feeder	$71.10	**15J**	**11X**	**9N**
Laborers	Burner	$71.10	**15J**	**11X**	**9N**
Laborers	Caisson Worker	$73.18	**15J**	**11X**	**9N**
Laborers	Carpenter Tender	$71.10	**15J**	**11X**	**9N**
Laborers	Cement Dumper-paving	$73.18	**15J**	**11X**	**9N**
Laborers	Cement Finisher Tender	$71.10	**15J**	**11X**	**9N**
Laborers	Change House Or Dry Shack	$71.10	**15J**	**11X**	**9N**
Laborers	Chipping Gun (30 Lbs. And Over)	$72.33	**15J**	**11X**	**9N**
Laborers	Chipping Gun (Under 30 Lbs.)	$71.10	**15J**	**11X**	**9N**
Laborers	Choker Setter	$71.10	**15J**	**11X**	**9N**

Laborers	Chuck Tender	$71.10	**15J**	**11X**	**9N**
Laborers	Clary Power Spreader	$72.33	**15J**	**11X**	**9N**
Laborers	Clean-up Laborer	$71.10	**15J**	**11X**	**9N**
Laborers	Concrete Dumper/Chute Operator	$73.18	**15J**	**11X**	**9N**
Laborers	Concrete Form Stripper	$71.10	**15J**	**11X**	**9N**
Laborers	Concrete Placement Crew	$73.18	**15J**	**11X**	**9N**
Laborers	Concrete Saw Operator/Core Driller	$72.33	**15J**	**11X**	**9N**
Laborers	Crusher Feeder	$60.82	**15J**	**11X**	**9N**
Laborers	Curing Laborer	$71.10	**15J**	**11X**	**9N**
Laborers	Demolition: Wrecking & Moving (Incl. Charred Material)	$71.10	**15J**	**11X**	**9N**
Laborers	Ditch Digger	$71.10	**15J**	**11X**	**9N**
Laborers	Diver	$73.18	**15J**	**11X**	**9N**
Laborers	Drill Operator (Hydraulic, Diamond)	$72.33	**15J**	**11X**	**9N**
Laborers	Dry Stack Walls	$71.10	**15J**	**11X**	**9N**
Laborers	Dump Person	$71.10	**15J**	**11X**	**9N**

Laborers	Epoxy Technician	$71.10	**15J**	**11X**	**9N**
Laborers	Erosion Control Worker	$71.10	**15J**	**11X**	**9N**
Laborers	Faller & Bucker Chain Saw	$72.33	**15J**	**11X**	**9N**
Laborers	Fine Graders	$71.10	**15J**	**11X**	**9N**
Laborers	Firewatch	$60.82	**15J**	**11X**	**9N**
Laborers	Form Setter	$73.18	**15J**	**11X**	**9N**
Laborers	Gabian Basket Builders	$71.10	**15J**	**11X**	**9N**
Laborers	General Laborer	$71.10	**15J**	**11X**	**9N**
Laborers	Grade Checker & Transit Person	$75.00	**15J**	**11X**	**9N**
Laborers	Grinders	$71.10	**15J**	**11X**	**9N**
Laborers	Grout Machine Tender	$71.10	**15J**	**11X**	**9N**
Laborers	Groutmen (Pressure) Including Post Tension Beams	$72.33	**15J**	**11X**	**9N**
Laborers	Guardrail Erector	$71.10	**15J**	**11X**	**9N**
Laborers	Hazardous Waste Worker (Level A)	$73.18	**15J**	**11X**	**9N**
Laborers	Hazardous Waste Worker (Level B)	$72.33	**15J**	**11X**	**9N**

Laborers	Hazardous Waste Worker (Level C)	$71.10	**15J**	**11X**	**9N**
Laborers	High Scaler	$73.18	**15J**	**11X**	**9N**
Laborers	Jackhammer	$72.33	**15J**	**11X**	**9N**
Laborers	Laserbeam Operator	$72.33	**15J**	**11X**	**9N**
Laborers	Maintenance Person	$71.10	**15J**	**11X**	**9N**
Laborers	Manhole Builder-Mudman	$72.33	**15J**	**11X**	**9N**
Laborers	Material Yard Person	$71.10	**15J**	**11X**	**9N**
Laborers	Mold Abatement Worker	$71.10	**15J**	**11X**	**9N**
Laborers	Motorman-Dinky Locomotive	$75.05	**15J**	**11X**	**9N**
Laborers	nozzleman (concrete pump, green cutter when using combination of high pressure air & water on concrete & rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster)	$75.00	**15J**	**11X**	**9N**
Laborers	Pavement Breaker	$72.33	**15J**	**11X**	**9N**
Laborers	Pilot Car	$60.82	**15J**	**11X**	**9N**
Laborers	Pipe Layer (Lead)	$75.00	**15J**	**11X**	**9N**

Laborers	Pipe Layer/Tailor	$72.33	**15J**	**11X**	**9N**
Laborers	Pipe Pot Tender	$72.33	**15J**	**11X**	**9N**
Laborers	Pipe Reliner	$72.33	**15J**	**11X**	**9N**
Laborers	Pipe Wrapper	$72.33	**15J**	**11X**	**9N**
Laborers	Pot Tender	$71.10	**15J**	**11X**	**9N**
Laborers	Powderman	$73.18	**15J**	**11X**	**9N**
Laborers	Powderman's Helper	$71.10	**15J**	**11X**	**9N**
Laborers	Power Jacks	$72.33	**15J**	**11X**	**9N**
Laborers	Power Washer	$71.10	**15J**	**11X**	**9N**
Laborers	Railroad Spike Puller - Power	$72.33	**15J**	**11X**	**9N**
Laborers	Raker - Asphalt	$75.00	**15J**	**11X**	**9N**
Laborers	Re-timberman	$73.18	**15J**	**11X**	**9N**
Laborers	Remote Equipment Operator	$72.33	**15J**	**11X**	**9N**
Laborers	Rigger/Signal Person	$72.33	**15J**	**11X**	**9N**
Laborers	Rip Rap Person	$71.10	**15J**	**11X**	**9N**
Laborers	Rivet Buster	$72.33	**15J**	**11X**	**9N**

Laborers	Rodder	$73.18	**15J**	**11X**	**9N**
Laborers	Scaffold Erector	$71.10	**15J**	**11X**	**9N**
Laborers	Scale Person	$71.10	**15J**	**11X**	**9N**
Laborers	Sloper (Over 20")	$72.33	**15J**	**11X**	**9N**
Laborers	Sloper Sprayer	$71.10	**15J**	**11X**	**9N**
Laborers	Spreader (Concrete)	$73.18	**15J**	**11X**	**9N**
Laborers	Stake Hopper	$71.10	**15J**	**11X**	**9N**
Laborers	Stock Piler	$71.10	**15J**	**11X**	**9N**
Laborers	Swinging Stage/Boatswain Chair	$60.82	**15J**	**11X**	**9N**
Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	$72.33	**15J**	**11X**	**9N**
Laborers	Tamper (Multiple & Self-propelled)	$72.33	**15J**	**11X**	**9N**
Laborers	Timber Person - Sewer (Lagger, Shorer & Cribber)	$72.33	**15J**	**11X**	**9N**
Laborers	Toolroom Person (at Jobsite)	$71.10	**15J**	**11X**	**9N**
Laborers	Topper	$71.10	**15J**	**11X**	**9N**
Laborers	Track Laborer	$71.10	**15J**	**11X**	**9N**

Laborers	Track Liner (Power)	$72.33	**15J**	**11X**	**9N**
Laborers	Traffic Control Laborer	$64.78	**15J**	**11X**	**9P**
Laborers	Traffic Control Supervisor	$68.42	**15J**	**11P**	**9C**
Laborers	Traffic Control Supervisor	$68.42	**15J**	**11X**	**9P**
Laborers	Truck Mounted Attenuator	$64.78	**15J**	**11X**	**9P**
Laborers	Truck Spotter	$71.10	**15J**	**11X**	**9N**
Laborers	Tugger Operator	$72.33	**15J**	**11X**	**9N**
Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	$254.08	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	$259.24	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	$263.01	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	$268.85	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	$271.02	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00	$276.25	**15J**	**11X**	**9Q**

	psi				
Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	$278.20	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	$280.25	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	$282.30	**15J**	**11X**	**9Q**
Laborers	Tunnel Work-Guage and Lock Tender	$75.05	**15J**	**11X**	**9N**
Laborers	Tunnel Work-Miner	$75.05	**15J**	**11X**	**9N**
Laborers	Vibrator	$73.18	**15J**	**11X**	**9N**
Laborers	Vinyl Seamer	$71.10	**15J**	**11X**	**9N**
Laborers	Watchman	$55.62	**15J**	**11X**	**9N**
Laborers	Welder	$72.33	**15J**	**11X**	**9N**
Laborers	Well Point Laborer	$72.33	**15J**	**11X**	**9N**
Laborers	Window Washer/Cleaner	$55.62	**15J**	**11X**	**9N**
Laborers - Underground Sewer & Water	General Laborer & Topman	$71.10	**15J**	**11X**	**9N**
Laborers - Underground Sewer & Water	Pipe Layer	$72.33	**15J**	**11X**	**9N**

Landscape Construction	Landscape Construction/Landscaping Or Planting Laborers	$55.62	**15J**	**11X**	**9N**
Landscape Construction	Landscape Operator	$93.00	**15J**	**11G**	**8X**
Landscape Maintenance	Groundskeeper	$17.13		**1**	
Lathers	Journey Level	$84.77	**15O**	**11S**	
Marble Setters	Journey Level	$82.00	**7E**	**1N**	
Metal Fabrication (In Shop)	Journey Level	$33.09	**15G**	**11B**	
Millwright	Journey Level	$80.28	**15J**	**4C**	
Modular Buildings	Journey Level	$17.13		**1**	
Painters	Journey Level	$58.84	**6Z**	**11J**	
Pile Driver	Crew Tender	$80.50	**15J**	**11U**	**9L**
Pile Driver	Journey Level	$89.43	**15J**	**11U**	
Plasterers	Journey Level	$81.34	**7Q**	**1R**	
Plasterers	Nozzleman	$85.44	**7Q**	**1R**	
Playground & Park Equipment Installers	Journey Level	$17.13		**1**	
Plumbers & Pipefitters	Journey Level	$99.87	**5A**	**1G**	

Power Equipment Operators	Asphalt Plant Operators	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Assistant Engineer	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Barrier Machine (zipper)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Batch Plant Operator: concrete	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Boat Operator	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators	Bobcat	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Brokk - Remote Demolition Equipment	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Brooms	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Bump Cutter	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Cableways	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Chipper	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Compressor	$88.90	**15J**	**11G**	**8X**

Power Equipment Operators	Concrete Finish Machine - Laser Screed	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Conveyors	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Cranes Friction: 200 tons and over	$99.42	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes, A-frame: 10 tons and under	$90.77	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$97.46	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 20 tons through 44 tons with attachments	$95.64	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom	$98.47	**7A**	**11H**	**8X**

	including jib with attachments				
Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	$99.42	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: Friction cranes through 199 tons	$98.47	**7A**	**11H**	**8X**
Power Equipment Operators	Cranes: through 19 tons with attachments, a-frame over 10 tons	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators	Crusher	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Deck Engineer/Deck Winches (power)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Derricks, On Building Work	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators	Dozers D-9 & Under	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Drilling Machine	$95.53	**15J**	**11G**	**8X**

Power Equipment Operators	Elevator and man-lift: permanent and shaft type	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Forklift: 3000 lbs and over with attachments	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Forklifts: under 3000 lbs. with attachments	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Gradechecker/Stakeman	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Guardrail Punch	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Horizontal/Directional Drill Locator	$93.00	**15J**	**11G**	**8X**

Power Equipment Operators	Horizontal/Directional Drill Operator	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Hydralifts/Boom Trucks Over 10 Tons	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators	Hydralifts/boom trucks: 10 tons and under	$90.77	**7A**	**11H**	**8X**
Power Equipment Operators	Leverman	$96.49	**15J**	**11G**	**8X**
Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Loader: Overhead 8 yards and over	$95.53	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders, Overhead Under 6 Yards	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders, Plant Feed	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Loaders: Elevating Type Belt	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Locomotives, All	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Material Transfer Device	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Mechanics: All (Leadmen - $0.50 per hour over mechanic)	$95.53	**15J**	**11G**	**8X**

Power Equipment Operators	Motor Patrol Graders	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Overhead, bridge type Crane: 20 tons through 44 tons	$95.64	**7A**	**11H**	**8X**
Power Equipment Operators	Overhead, bridge type: 100 tons and over	$97.46	**7A**	**11H**	**8X**
Power Equipment Operators	Overhead, bridge type: 45 tons through 99 tons	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators	Pavement Breaker	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Pile Driver (other Than Crane Mount)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Plant Oiler - Asphalt, Crusher	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Posthole Digger, Mechanical	$88.90	**15J**	**11G**	**8X**

Power Equipment Operators	Power Plant	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Pumps - Water	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Quad 9, Hd 41, D10 And Over	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Quick tower: no cab, under 100 feet in height base to boom	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Rigger and Bellman	$90.77	**7A**	**11H**	**8X**
Power Equipment Operators	Rigger/Signal Person, Bellman(Certified)	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators	Rollagon	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Roller, Other Than Plant Mix	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Roto-mill, Roto-grinder	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Saws - Concrete	$93.00	**15J**	**11G**	**8X**

Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Scrapers - Concrete & Carry All	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Service Engineers: Equipment	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Shotcrete/Gunite Equipment	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$95.53	**15J**	**11G**	**8X**
Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$96.49	**15J**	**11G**	**8X**

Power Equipment Operators	Slipform Pavers	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Spreader, Topsider & Screedman	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Subgrader Trimmer	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Tower Bucket Elevators	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	$98.47	**7A**	**11H**	**8X**
Power Equipment Operators	Tower crane: up to 175' in height base to boom	$97.46	**7A**	**11H**	**8X**
Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	$99.42	**7A**	**11H**	**8X**
Power Equipment Operators	Transporters, All Track Or Truck Type	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Trenching Machines	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators	Truck Crane Oiler/Driver: 100 tons and over	$95.64	**7A**	**11H**	**8X**
Power Equipment Operators	Truck crane oiler/driver: under 100 tons	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators	Truck Mount Portable Conveyor	$93.71	**15J**	**11G**	**8X**

Power Equipment Operators	Vac Truck (Vactor Guzzler, Hydro Excavator)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators	Welder	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators	Wheel Tractors, Farmall Type	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators	Yo Yo Pay Dozer	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operators	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator, Concrete	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Boat Operator	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Bobcat	$88.90	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Brokk - Remote Demolition Equipment	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Brooms	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Bump Cutter	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cableways	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Chipper	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Compressor	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Finish Machine - Laser Screed	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure	$93.00	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Conveyors	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes Friction: 200 tons and over	$99.42	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes, A-frame: 10 tons and under	$90.77	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 100 tons through 199 tons, or 150' of boom (including jib with attachments)	$97.46	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 20 tons through 44 tons with attachments	$95.64	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	$98.47	**7A**	**11H**	**8X**
Power Equipment Operators- Underground	Cranes: 300 tons and over or 300' of boom including	$99.42	**7A**	**11H**	**8X**

Sewer & Water	jib with attachments				
Power Equipment Operators- Underground Sewer & Water	Cranes: 45 tons through 99 tons, under 150' of boom(including jib with attachments)	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: Friction cranes through 199 tons	$98.47	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Cranes: through 19 tons with attachments, a-frame over 10 tons	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Crusher	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Deck Engineer/Deck Winches (power)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Derricks, On Building Work	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Dozers D-9 & Under	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	$93.00	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Drilling Machine	$95.53	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Elevator and man-lift: permanent and shaft type	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Forklift: 3000 lbs and over with attachments	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Forklifts: under 3000 lbs. with attachments	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Gradechecker/Stakeman	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Guardrail Punch	$93.71	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Locator	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Horizontal/Directional Drill Operator	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: 10 tons and under	$90.77	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Hydralifts/boom trucks: over 10 tons	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Leverman	$96.49	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	$94.54	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Loader: Overhead 8 yards and over	$95.53	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders, Overhead Under 6 Yards	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders, Plant Feed	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Loaders: Elevating Type Belt	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Locomotives, All	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Material Transfer Device	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Mechanics: All (Leadmen - $0.50 per hour over mechanic)	$95.53	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Motor Patrol Graders	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	$94.54	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Outside Hoists (Elevators and Manlifts), Air Tuggers, Strato	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type Crane: 20 tons through 44 tons	$95.64	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 100 tons and over	$97.46	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Overhead, bridge type: 45 tons through 99 tons	$96.51	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pavement Breaker	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pile Driver (other Than Crane Mount)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Posthole Digger, Mechanical	$88.90	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Power Plant	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Pumps - Water	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Quick tower: no cab, under 100 feet in height base to boom	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rigger and Bellman	$90.77	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rigger/Signal Person, Bellman(Certified)	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Rollagon	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roller, Other Than Plant Mix	$88.90	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Roto-mill, Roto-grinder	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Saws - Concrete	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Scrapers - Concrete & Carry All	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Service Engineers: Equipment	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shotcrete/Gunite Equipment	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe, Tractors Under 15 Metric Tons	$93.00	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	$95.53	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	$96.49	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Slipform Pavers	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Spreader, Topsider & Screedman	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Subgrader Trimmer	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Bucket Elevators	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	$98.47	**7A**	**11H**	**8X**

Power Equipment Operators- Underground Sewer & Water	Tower crane: up to 175' in height base to boom	$97.46	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	$99.42	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Transporters, All Track Or Truck Type	$94.54	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Trenching Machines	$93.00	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler/Driver: 100 tons and over	$95.64	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck crane oiler/driver: under 100 tons	$94.93	**7A**	**11H**	**8X**
Power Equipment Operators- Underground Sewer & Water	Truck Mount Portable Conveyor	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Vac Truck (Vactor Guzzler, Hydro Excavator)	$93.71	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Welder	$94.54	**15J**	**11G**	**8X**

Power Equipment Operators- Underground Sewer & Water	Wheel Tractors, Farmall Type	$88.90	**15J**	**11G**	**8X**
Power Equipment Operators- Underground Sewer & Water	Yo Yo Pay Dozer	$93.71	**15J**	**11G**	**8X**
Power Line Clearance Tree Trimmers	Journey Level In Charge	$69.62	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Spray Person	$65.89	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Tree Equipment Operator	$69.62	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Tree Trimmer	$62.19	**5A**	**4A**	
Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$45.73	**5A**	**4A**	
Refrigeration & Air Conditioning Mechanics	Journey Level	$107.19	**6Z**	**1G**	
Residential Brick Mason	Journey Level	$82.00	**7E**	**1N**	
Residential Carpenters	Journey Level	$67.79		**1**	
Residential Cement Masons	Journey Level	$35.24		**1**	
Residential Drywall Applicators	Journey Level	$31.72		**1**	
Residential Drywall Tapers	Journey Level	$33.16		**1**	

Residential Electricians	Journey Level	$49.97	**7F**	**1D**
Residential Glaziers	Journey Level	$21.22		**1**
Residential Insulation Applicators	Journey Level	$33.75		**1**
Residential Laborers	Journey Level	$28.59		**1**
Residential Marble Setters	Journey Level	$82.00	**7E**	**1N**
Residential Painters	Journey Level	$30.66		**1**
Residential Plumbers & Pipefitters	Journey Level	$40.83		**1**
Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$61.75	**5A**	**1G**
Residential Sheet Metal Workers	Journey Level (Field or Shop)	$56.10	**7J**	**1I**
Residential Soft Floor Layers	Journey Level	$36.37		**1**
Residential Sprinkler Fitters (Fire Protection)	Journey Level	$19.32		**1**
Residential Stone Masons	Journey Level	$82.00	**7E**	**1N**
Residential Terrazzo Workers	Journey Level	$17.13		**1**
Residential Terrazzo/Tile Finishers	Journey Level	$18.09		**1**

Residential Tile Setters	Journey Level	$17.13		**1**
Roofers	Journey Level	$70.70	**5A**	**3H**
Roofers	Using Irritable Bituminous Materials	$74.15	**5A**	**3H**
Sheet Metal Workers	Journey Level (Field or Shop)	$103.56	**7F**	**1E**
Shipbuilding & Ship Repair	New Construction Boilermaker	$63.08	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Carpenter	$51.85	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Crane Operator	$44.29	**7V**	**1**
Shipbuilding & Ship Repair	New Construction Electrician	$63.26	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	$100.83	**15H**	**11C**
Shipbuilding & Ship Repair	New Construction Laborer	$62.85	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Machinist	$63.08	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Operating Engineer	$44.29	**7V**	**1**
Shipbuilding & Ship Repair	New Construction Painter	$62.94	**7X**	**4J**

Shipbuilding & Ship Repair	New Construction Pipefitter	$64.14	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Rigger	$63.08	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Sheet Metal	$63.02	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Shipwright	$51.85	**7X**	**4J**
Shipbuilding & Ship Repair	New Construction Warehouse/Teamster	$44.29	**7V**	**1**
Shipbuilding & Ship Repair	New Construction Welder / Burner	$63.08	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Boilermaker	$63.08	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Carpenter	$51.85	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Crane Operator	$45.06	**7Y**	**4K**
Shipbuilding & Ship Repair	Ship Repair Electrician	$63.26	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	$100.83	**15H**	**11C**
Shipbuilding & Ship Repair	Ship Repair Laborer	$62.85	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Machinist	$63.08	**7X**	**4J**
Shipbuilding & Ship Repair	Ship Repair Operating Engineer	$45.06	**7Y**	**4K**

Shipbuilding & Ship Repair	Ship Repair Painter	$62.94	**7X**	**4J**	
Shipbuilding & Ship Repair	Ship Repair Pipefitter	$64.14	**7X**	**4J**	
Shipbuilding & Ship Repair	Ship Repair Rigger	$63.08	**7X**	**4J**	
Shipbuilding & Ship Repair	Ship Repair Sheet Metal	$63.02	**7X**	**4J**	
Shipbuilding & Ship Repair	Ship Repair Shipwright	$51.85	**7X**	**4J**	
Shipbuilding & Ship Repair	Ship Repair Warehouse / Teamster	$45.06	**7Y**	**4K**	
Sign Makers & Installers (Electrical)	Journey Level	$17.13		**1**	
Sign Makers & Installers (Non-Electrical)	Journey Level	$17.13		**1**	
Soft Floor Layers	Journey Level	$70.17	**15J**	**4C**	
Solar Controls For Windows	Journey Level	$17.13		**1**	
Sprinkler Fitters (Fire Protection)	Journey Level	$83.61	**7J**	**1R**	
Stage Rigging Mechanics (Non Structural)	Journey Level	$17.13		**1**	
Stone Masons	Journey Level	$82.00	**7E**	**1N**	
Street And Parking Lot Sweeper Workers	Journey Level	$17.13		**1**	
Surveyors	Assistant Construction Site Surveyor	$94.93	**7A**	**11H**	**8X**

Surveyors	Chainman	$90.77	**7A**	**11H**	**8X**
Surveyors	Construction Site Surveyor	$96.51	**7A**	**11H**	**8X**
Surveyors	Drone Operator (when used in conjunction with survey work only)	$90.77	**7A**	**11H**	**8X**
Surveyors	Ground Penetrating Radar Operator	$90.77	**7A**	**11H**	**8X**
Telecommunication Technicians	Telecom Technician Journey Level	$65.58	**5B**	**1B**	
Telephone Line Construction - Outside	Cable Splicer	$42.62	**5A**	**2B**	
Telephone Line Construction - Outside	Hole Digger/Ground Person	$27.97	**5A**	**2B**	
Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$35.60	**5A**	**2B**	
Telephone Line Construction - Outside	Telephone Lineperson	$40.28	**5A**	**2B**	
Terrazzo Workers	Journey Level	$73.71	**7E**	**1N**	
Tile Setters	Journey Level	$71.71	**7E**	**1N**	
Tile, Marble & Terrazzo Finishers	Finisher	$62.54	**7E**	**1N**	
Traffic Control Stripers	All cleanup required in connection with traffic	$98.49	**15L**	**1K**	

	control stripers work (Group 1)			
Traffic Control Stripers	Handling, painting and installing of all car stops, stop signs and any other type sign (Group 2)	$62.69	**15L**	**1K**
Traffic Control Stripers	Installation of guard rail and posts and similar protective devices (Group 2)	$62.69	**15L**	**1K**
Traffic Control Stripers	Installation of parking gates, ticket spitters and other mechanical and automatic control devices (Group 2)	$62.69	**15L**	**1K**
Traffic Control Stripers	Installation of plastic metal or composition button, or lines used instead of paint (Group 1)	$98.49	**15L**	**1K**
Traffic Control Stripers	Line removal; chemical sand and hydro-blast, paint and button (Group 1)	$98.49	**15L**	**1K**
Traffic Control Stripers	Manufacturing and installation of all car stops and control devices and similar traffic regulators (Group 2)	$62.69	**15L**	**1K**

Traffic Control Stripers	Manufacturing, painting, stenciling, servicing, repairing, placing and removal of traffic safety and control devices/barricades (Group 2)	$62.69	**15L**	**1K**	
Traffic Control Stripers	Painting and installing lines, arrows, bumpers, curbs, etc., on parking lots, air fields, highways, game courts (Group 1)	$98.49	**15L**	**1K**	
Traffic Control Stripers	Preparation and maintenance of all surfaces (Group 1)	$98.49	**15L**	**1K**	
Traffic Control Stripers	Seal coating, slurry coating and other surface protection (Group 2)	$62.69	**15L**	**1K**	
Truck Drivers	Asphalt Mix Over 16 Yards	$86.20	**15J**	**11M**	**8L**
Truck Drivers	Asphalt Mix To 16 Yards	$85.36	**15J**	**11M**	**8L**
Truck Drivers	Dump Truck	$85.36	**15J**	**11M**	**8L**
Truck Drivers	Dump Truck & Trailer	$86.20	**15J**	**11M**	**8L**
Truck Drivers	Other Trucks	$86.20	**15J**	**11M**	**8L**
Truck Drivers - Ready Mix	Transit Mix	$86.20	**15J**	**11M**	**8L**

Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$17.13	**1**
Well Drillers & Irrigation Pump Installers	Oiler	$17.13	**1**
Well Drillers & Irrigation Pump Installers	Well Driller	$18.02	**1**

TY

CHLORINE CONTACT BASIN

SCRUBBER BUILDING

CHLORINE BUILDING

HYPOCH
GENERA
BUILD

LINE DRAWN PER LOCATES COULD NOT FIELD VERIFY (TYP)

LARGE DASHED LINE IS EXTENT OF WILSON ENGINEERING 2023 TOPOGRAPHIC SURVEY (TYP)

KEEP 15' CLEAR FOR TRUCK TRAFFIC

KEEP 12' CLEAR FOR TRUCK TRAFFIC

UNDERGROUND UTILITY LOCATES EXPIRED

GRATED STEPS & ELEVATED PLATFORM

CONCRETE 153.4'

DOORWAY

8" DIA GOOSENECK PIPES

GOOSENECK PIPE

EX SSMH #2912

EX SDCB #2913

EX SDCB #2812

POWER XFMR & CAB ON CONC (HIGH VOLTAGE)

SPIGOT & ELEC ON POST

LADDER

WATER VAULT

GRAVEL

SHOWER & EYEWASH

WILSON #176

WILSON #151

WILSON #172

WILSON #173

WILSON #175

WILSON #18

EX SDCB #3122

EX SDCB #2535

EX SDCB #3123

EX SDCB #2163

EX SDCB #2374

EX SDCB #2322

WOOD TOPPED CONCRETE BARREL STORAGE RACKS

20.5 TOP WALL

TOP OF DIVIDERS=19.9

TOP OF DIVIDERS=19.8

CONC. WALK

CONC. DIVIDERS (TYP.)

SHUT OFF WHEEL

BIB RACK

LUM

GV

GR

BREAKERS

CAB FM

20.6 TW

20.4 WALK

TS RACK

WV UTILITY VAULT

VENT SHAFT

21.05 TROUGH

23.6 TOP WALL

20.15

HOSE HANGER

~ASPHALT~

~CONCRETE~

~GRASS~

CONCRETE

CONC

IP

1 KEYED NOTES

1 PROJECT BOUNDARY, INSTALL TEMPORARY 6" CHAINLINK FENCE

2 PROTECT EXISTING UTILITY GALLERY DURING DEMOLITION

3 ABANDON EXIST CATCH BASIN IN PLACE AND PLUG PIPES. USE CDF AS NEEDED.

TESC LEGEND

IP =INLET PROTECTION PER 3 020C106

= TEMPORARY 6' CHAINLINK FENCE

= CONSTRUCTION ENTRANCE PER 1 020C106

= CONCRETE WASHOUT AND CONTAINMENT

= STAGING AREA

= LIMITS OF DISTURBANCE

CITY OF BELLINGHAM WASHINGTON

10 0 10 20
SCALE FEET
HORIZONTAL SCALE

811 Call 811 two business days before you dig

PAUL M. THOMAS STATE OF WASHINGTON 22017120 REGISTERED PROFESSIONAL ENGINEER
1/14/2026

WILSON ENGINEERING

Date	No	Revision	By
	4		
	3		
	2		
10-22-26	1	ADDENDUM 4	SMD

PROJECT ENGINEER
DESIGNED/DRAWN
INSPECTOR

DIRECTOR PUBLIC WORKS MAO
CITY ENGINEER MLW
ASSISTANT DIRECTOR MAO

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS SHOWN
Vert. AS SHOWN

DATUM
H: NAD 83/98
V: NAVD 88

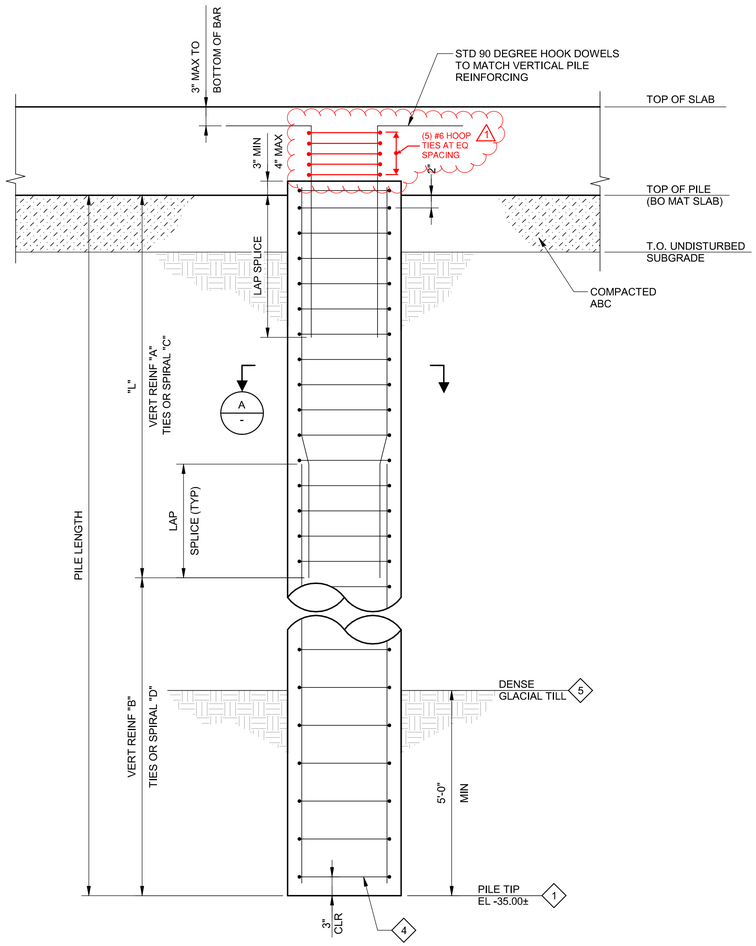
Job. No. EU194
Date JAN 2026
Field Bk.

POST POINT RESOURCE RECOVERY PLANT
TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

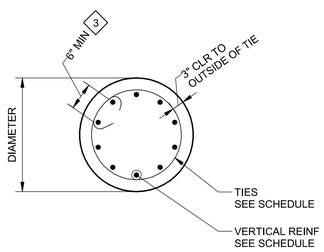
DRAWING NO. 020C104
SHEET NO. 29 OF 198

CONTACT PERSON: STEPHEN DAY, PE SE , PROJECT ENGINEER AT 360-778-7944

PLOT SETTINGS: Adobe PDF1.pc3, ANSI full bleed D (34.00 x 22.00 Inches), Portrait, 1:1, WE APWA_SCREENED.ctb
W:\2023\2023-070 COB WWTP CAROLLO\DWG\2023_2023-070 C2.1 TESC PLAN.DWG - 1/14/2026 12:23 PM - Paul Thomas



1 - **DETAIL**
SCALE:NO SCALE



A - **SECTION**
SCALE:NO SCALE

AUGERCAST PILE FOUNDATION REINFORCING SCHEDULE							
LABEL	DIAMETER	TOP OF PILE (BO MAT SLAB)	REINFORCING				
			"L"	VERT "A" REINF	VERT "B" REINF	UPPER "C" TIES OR SPIRAL ◇2	"D" TIES OR SPIRAL ◇2
P1	2'-0"	EL 6.83	37'-0"	(10) #9	(5) #9	#4@4"	#4@12"
P2	2'-0"	EL 16.50	37'-0"	(10) #9	(5) #9	#4@4"	#4@12"

GENERAL NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE DRAWING 010S101.
2. FOR AUGERCAST PILE REQUIREMENTS SEE SPECIFICATIONS 31_63_14 AND 31_63_17.
3. ALL EXISTING UTILITIES SHALL BE LOCATED PRIOR TO DRILLING OF PILES. DO NOT INTERRUPT EXISTING UTILITIES THAT ARE IN PLACE. IF CONFLICT(S) SHOULD OCCUR, NOTIFY THE ENGINEER FOR DIRECTION(S) PRIOR TO ANY FURTHER WORK.

◇# KEY NOTES:

1. FINAL PILE BEARING TIP ELEVATION SHALL BE VERIFIED IN THE FIELD AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD.
2. SPIRALS MAY BE USED IN LIEU OF HORIZONTAL TIES SHOWN, FABRICATED SPIRALS TO CONFORM TO ACI 318 REQUIREMENTS. IF LAPS ARE REQUIRED, LAP AND TIE IN ACCORDANCE WITH ACI 318 REQUIREMENTS AND AS APPROVED BY THE ENGINEER.
3. TIE ENDS SHALL TERMINATE WITH 135 DEGREE MINIMUM STANDARD HOOKS AND ENGAGE A LONGITUDINAL BAR WITH 6" MINIMUM OVERLAP. ENDS OF ADJACENT CIRCULAR TIES SHALL BE STAGGERED AROUND THE PERIMETER ENCLOSING THE LONGITUDINAL BAR.
4. FOR REBAR CAGES THAT ARE REDUCED IN LENGTH ON SITE PER NEW PILE LENGTHS, ENSURE THAT THE SPIRAL IS TERMINATED WITH (2) EXTRA TURNS AND A 135 DEGREE HOOK BEND INTO THE CONCRETE CORE AT ENDS.
5. THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER OF RECORD AND FIELD VERIFY DEPTH TO TOP OF "DENSE GLACIAL TILL" DEPOSIT. IF TOP OF "DENSE GLACIAL TILL" LAYER IS ENCOUNTERED AT LOWER DEPTH THAN ASSUMED, EXTEND PILE LENGTH AND REINFORCING BARS AS REQUIRED.

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

Digitally signed by Hipom Che
Contact Info: Carollo Engineers, Inc
Date: 2026.10.22 11:36:48-07'00'
HIPOM CHE
STATE OF WASHINGTON
21258
REGISTERED
PROFESSIONAL ENGINEER

carollo®

PLOT DATE: 6/25/2026 2:36:44 PM

Date	No	Revision	By
10-22-26	1	ADDENDUM 4	HCC

PROJECT ENGINEER BS / HCC
DESIGNED/DRAWN DE
INSPECTOR JAD / KA

DIRECTOR PUBLIC WORKS MAO
CITY ENGINEER MLW
ASSISTANT DIRECTOR MAO

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS SHOWN
Vert. AS SHOWN

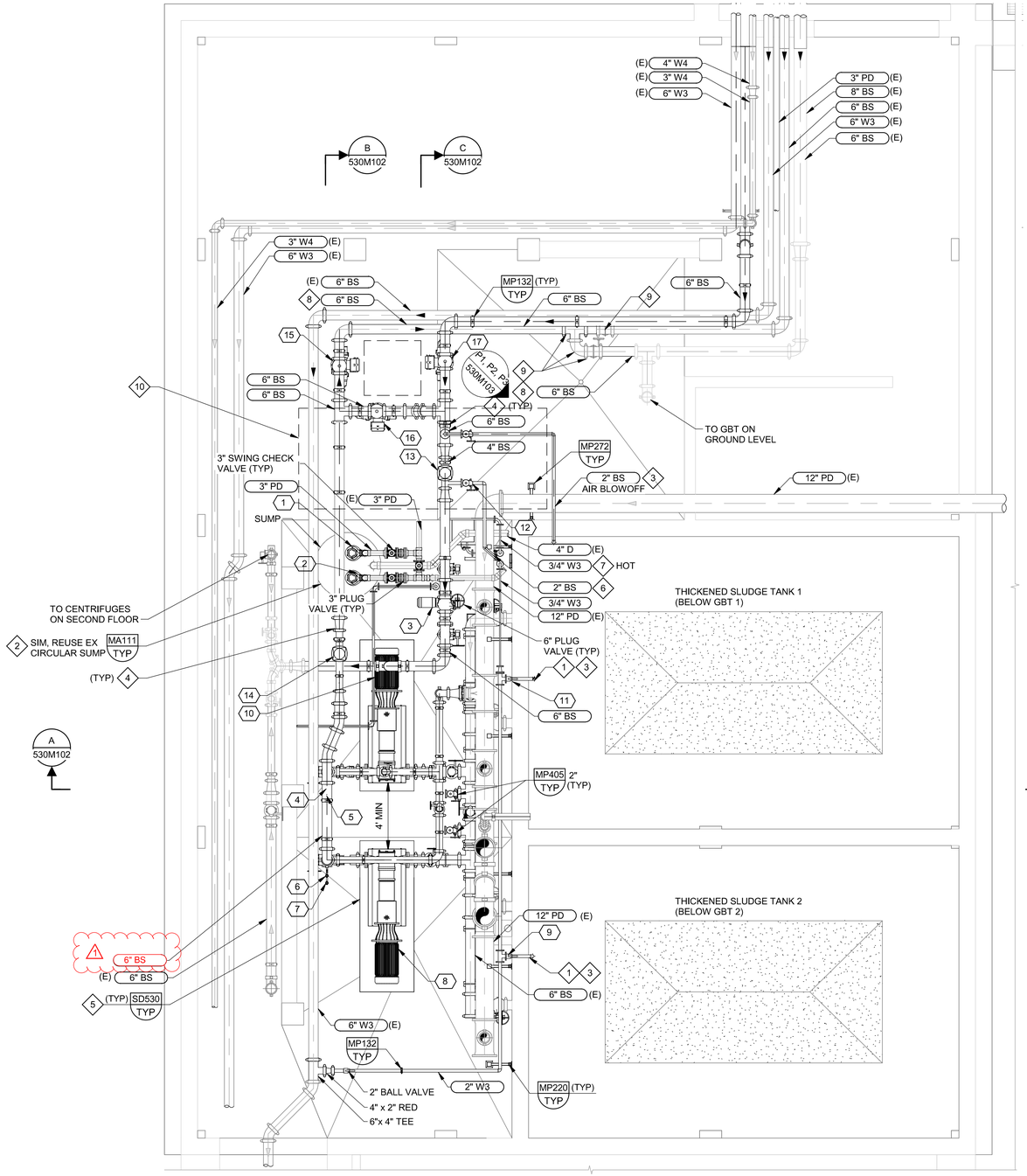
DATUM
H: NAD 83/98
V: NAVD 88

Job. No. EU194
Date JAN 2026
Field Bk.

POST POINT RESOURCE RECOVERY PLANT
STRUCTURAL
AUGERCAST PILE SCHEDULE AND DETAILS

DRAWING NO. 010S102
SHEET NO. 45 OF 198

CONTACT PERSON: STEPHEN DAY, PE SE , PROJECT ENGINEER AT 360-778-7944 FILE NAME: Autodesk Docs://Bellingham 202021-100000 Primary Sludge Tank Replacement/202021440S0801.rvt



A **PLAN**
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL 90 DEGREE ELBOWS ON BLENDED SLUDGE AND PRIMARY SLUDGE PIPING SHALL BE LONG RADIUS

KEY NOTES:

1. ROUTE WATER PIPING INTO TANK EQUAL DISTANCE BETWEEN OUTLET PIPES. INSTALL WITH ELBOW AND TRUE WYE TO DIRECT SPRAY AT OUTLETS.
2. FIELD MEASURE EXISTING SUMP AND CONFIRM PROPOSED PUMPS WILL FIT INTO THE EXISTING SUMP. SUBMIT MEASUREMENTS IN PUMP SUBMITTAL FOR ENGINEER APPROVAL.
3. CORE-DRILL THROUGH WALL. LOCATE CORE DRILL SUCH THAT A MAXIMUM OF ONE REINFORCEMENT BAR IN EACH DIRECTION IS DAMAGED. LINK SEAL AROUND PIPE.
4. 4" x 6" ECCENTRIC REDUCER.
5. FIELD LOCATE PUMP TO AVOID IMPACTING AREA DRAIN WITH PUMP EQUIPMENT PAD. SUBMIT PROPOSED LOCATION TO ENGINEER FOR APPROVAL.
6. SUPPLY REDUCER WITH FLANGED BOSS TAP. CONNECT BS PIPE FOR SAMPLING.
7. INSULATE HEATED W3 PIPING.
8. PRIOR TO PROCURING NEW PIPE, DETERMINE RELOCATION OF EXISTING TEE AND ASSEMBLY PER KEYNOTE 9.
9. RELOCATE TEE, ELBOW, AND VALVES TO APPROXIMATE LOCATION SHOWN.
10. HYDRAULIC POWER UNITS, LOCATED ON FLOOR IN THIS AREA, ARE NOT SHOWN FOR CLARITY. TO ROUTE THE BS PIPE AS SHOWN, THE FOLLOWING FIELD ADJUSTMENT OF PIPING AND CONDUITS SHOULD BE ASSUMED:

    1X 2 INCH CONDUIT
    1X 3 INCH GBT 2 BELT WASH PVC PIPING AND PRESSURE REDUCER ASSEMBLY
    3X 1-INCH HPU HYDRAULIC PIPING
    1X 1-INCH HP WATER PIPING

KEY TAGS:

1	P-53020	SUMP PUMP 1
2	P-53021	SUMP PUMP 2
3	MIX-53012	INLINE POLYMER MIXER
4	PE1- 53061	PRESSURE SWITCH HIGH
5	PE2- 53061	PRESSURE TRANSMITTER
6	PE1- 53062	PRESSURE SWITCH HIGH
7	PE1- 53062	PRESSURE TRANSMITTER
8	P-53062	THICKENED SLUDGE PUMP 2
9	SV-53002	SOLENOID VALVE
10	P-53061	THICKENED SLUDGE PUMP 1
11	SV-53001	SOLENOID VALVE
12	EDR-53010	TSL SAMPLE VALVE
13	AE-53011	SLUDGE DENSITY METER
14	FE-53013	MAGNETIC FLOW METER
15	EDR-53015	SST FEED VALVE
16	EDR-53014	SST BYPASS VALVE
17	EDR-53016	SST RETURN VALVE

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

Digitally signed by Matthew Sprick
Contact Info: Carollo Engineers, Inc.
Date: 2026.10.22 09:44:50-04'

MATTHEW SCOTT SPRICK · STATE OF WASHINGTON · 29659 · REGISTERED PROFESSIONAL ENGINEER

PLOT DATE: 6/25/2026 1:34:36 PM

Date	No	Revision	By
10-22-26	1	ADDENDUM 4	MSS

PROJECT ENGINEER MSS
DESIGNED/DRAWN DJL
INSPECTOR CC

DIRECTOR PUBLIC WORKS MAO
CITY ENGINEER MLW
ASSISTANT DIRECTOR MAO

CITY OF BELLINGHAM, WASHINGTON
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SCALE
Horiz. AS SHOWN
Vert. AS SHOWN

DATUM
H: NAD 83/98
V: NAVD 88

Job. No. EU194
Date AUG 2025
Field Bk.

POST POINT RESOURCE RECOVERY PLANT
MECHANICAL
SOLIDS HANDLING BUILDING EAST BASEMENT PLAN

DRAWING NO. 530M101
SHEET NO. 77 OF 198

CONTACT PERSON: STEPHEN DAY, PE SE , PROJECT ENGINEER AT 360-778-7944 FILE NAME: Autodesk Docs://Bellingham 202021-100000 Primary Sludge Tank Replacement/202021530M9801.rvt