



**CITY OF SNOHOMISH
WASHINGTON**

**SPECIFICATIONS, PROPOSAL AND
CONTRACT DOCUMENTS**

FOR

WWTP ATS REPLACEMENT PROJECT

**ISSUED FOR BID
MARCH 2016**

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SECTION 1

BID PROPOSAL

**CITY OF SNOHOMISH
WWTP ATS REPLACEMENT PROJECT
NOTICE OF CALL FOR BIDS**

NOTICE IS HEREBY GIVEN, that sealed bids shall be received and recorded by the City Clerk at City Hall, 116 Union Avenue, Snohomish, WA 98290, until 2:00 PM, Pacific Coast Time, Monday, April 4, 2016, and then publicly opened and read aloud. Bids for this project are being solicited through the small works roster process.

The work to be performed under this contract provides for replacement of an automatic transfer switch (ATS) at the Wastewater Treatment Plant (WWTP) lagoon system as specified in these general and special provisions for the City of Snohomish, Snohomish County, Washington.

The City will have one non mandatory pre-bid walkthrough of the project site on Monday, March 28th at 10:00 AM at the WWTP.

Project Title: **City of Snohomish WWTP ATS REPLACEMENT PROJECT**

Engineer's Estimate Range: \$45,000 – \$75,000

Specifications, addenda, and a plan holders list for this project are available on-line through Builders Exchange of Washington, Inc. at <http://www.bxwa.com>; 2607 Wetmore Avenue, Everett, WA 98201-2929, (425) 258-1303, Fax (425) 259-3832. To access the project, click on: "Posted Projects", "Public Works", "City of Snohomish", and "Projects Bidding". Note: Bidders are encouraged to "Register as a Bidder", in order to receive automatic email notification of future addenda and to be placed on the "Bidders List". Contact Builders Exchange of Washington at (425-258-1303) should you require further assistance. Informational copies of any available maps, plans and specifications are on file for inspection in the office of the City of Snohomish Public Works Engineering Department or on the City's website www.snohomishwa.gov.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the base bid amount of such bid proposal. **NO BID SHALL BE CONSIDERED UNLESS ACCOMPANIED BY SUCH BID PROPOSAL DEPOSIT.** If the successful bidder does not enter into a contract and file a performance and payment bond and the required insurance certificates, with the City of Snohomish within ten (10) working days after Notice of Award of Bid, the amount of the bid deposit shall be forfeited to the City of Snohomish. Unsuccessful bidders' deposits will be returned upon City's execution of contract documents or rejection of all bids.

A one hundred percent (100%) Contractor's Performance and Payment Bond is required covering the full Contract Price. The bond must be delivered to the Snohomish City Clerk within ten (10) working days after notification of the award to the successful bidder. The Bond must be approved by City officials before the contract award is final. A Contract is required and must be executed and returned to the City of Snohomish within ten (10) working days after notification of award. Approval of the contract by City officials is required before the contract award is final.

A certificate of liability insurance with \$1,000,000 single event and \$3,000,000 aggregate limits for this project must be furnished to the City of Snohomish within ten (10) working days after Notice of Award of Bid. This insurance certificate shall also specifically name the City of Snohomish as an additional insured. The successful bidder may not commence work under this contract until all required insurance coverage has been approved by the City.

The City of Snohomish reserves the right to reject any or all bids, and to waive irregularities or informalities in the bid or in the opening. The City of Snohomish reserves the right to delete portions of the work.

No bidder may withdraw his bid after the hour set for the opening thereof, or before award of contract, unless said award is delayed for a period exceeding sixty (60) calendar days.

The bidder further agrees to begin work within ten (10) working days after Notice to Proceed has been issued, unless approved otherwise by the City of Snohomish. The Contractor has thirty (30) calendar days to complete the project. Payment of liquidated damages will be made by the Contractor to the City in the amount specified in the Contract if the work is not physically completed within the allotted time, in accordance with Section 1-08.9 of the Standard Specifications.

Bid package and technical related questions can be directed to Max Selin, P.E., Senior Utilities Engineer, at (360) 282-3196.

Dated this 16th day of March, 2016

City of Snohomish, Washington

BY:

Pat Adams, City Clerk

INFORMATION FOR BIDDERS

BIDS will be received by the CITY OF SNOHOMISH (herein called the "OWNER") at the time and location set forth in the Call for Bids herein before and then at said office publicly opened and read aloud.

Each BID must be submitted in a sealed envelope addressed to the CITY OF SNOHOMISH, ATTN: CITY CLERK, 116 Union Ave., Snohomish, WA, 98290. Each sealed envelope containing a BID must be plainly marked on the outside as BID for **WWTP ATS REPLACEMENT PROJECT**. The envelope should bear on the outside the name of the BIDDER, his address, his license number if applicable, and the name of the project for which the BID is submitted. If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at the above address.

All BIDS must be made on the required PROPOSAL FORM. All blank spaces for BID prices must be filled in, in ink or typewritten, and the PROPOSAL FORM must be fully completed and executed when submitted. Only one copy of the PROPOSAL FORM is required. All BIDS must be received by 2:00 PM, Pacific Coast Time, Monday, April 4, 2016.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within sixty (60) calendar days after the actual date of the opening thereof.

Before submitting its proposal, the BIDDER shall examine the site of the work and review the specifications and reference drawings (see Appendix A) including ADDENDA and ascertain for themselves the work required and all of the physical conditions in relation thereto. Failure to take this precaution will not release the successful BIDDER from entering into contracts nor excuse the BIDDER from performing the work in strict accordance with the terms of the contract. No verbal statement made by any officer, agent, or employee of the OWNER, in relation to the physical conditions pertaining to the site of the work, will be binding on the OWNER during the gathering of information for proposal preparation by each BIDDER. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The CONTRACT DOCUMENTS contain the provisions required for completion of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

The CONTRACTOR shall submit documentation, as indicated in the BID proposal, verifying it has the minimum experience qualifications required for bidding. Due to the sensitive nature of the work, the OWNER has determined that the minimum experience requirement for BIDDERS to BID on this project is the successful completion of three (3) similar projects at treatment facilities within the last five (5) years.

Each BID must be accompanied by a BID deposit payable to the OWNER for five percent (5%) of the base bid amount of the BID. As soon as the BID prices have been compared, the OWNER will return the deposits of all except the three lowest responsible BIDDERS. When the Agreement is executed, the deposits of the remaining unsuccessful BIDDERS will be returned.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the performance and payment bond within ten (10) working days after the date on the NOTICE OF AWARD. The performance and payment bond in the amount of 100 percent of the Contract Price, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract. The NOTICE OF AWARD shall be accompanied by the necessary Agreement and bond forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may at his option consider the BIDDER in default; in which case the BID deposit accompanying the bid shall become the property of the OWNER.

The OWNER, within ten (10) working days of receipt of acceptable bond and Agreement signed by the party to whom the Agreement was awarded, shall sign the Agreement within such period.

CONTRACTOR shall not commence work until a NOTICE TO PROCEED has been issued by the OWNER.

The OWNER may make such investigations as he deems necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER, in the OWNER'S discretion, that such BIDDER is properly qualified to carry out the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to his BID.

The low BIDDER must supply the names and addresses of major material suppliers and subcontractors when requested to do so by the OWNER and where requested in the BID proposal.

The City of Snohomish reserves the right to delete portions of the work.

Bid Package and technical related questions can be directed to the Senior Utilities Engineer, Max Selin, PE, at (360) 282-3196.

CITY OF SNOHOMISH - BID PROPOSAL

TO: City of Snohomish
Attn: City Clerk
116 Union Avenue
Snohomish, WA 98290

The bidder declares that he or she has carefully examined the contract documents for the project; that he or she has personally visited the sites; that he or she has satisfied himself or herself as to the quantities of work involved, including materials and the equipment and conditions of work involved, surveying necessary for the project, and including the fact that the description of the quantities of work and materials as included herein, is brief and intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the contract documents and that this proposal is made according to the contract documents, which are hereby made a part of this proposal. The City of Snohomish reserves the right to delete portions of the work.

The bidder declares that he or she has exercised his or her own judgment regarding the interpretations of the specifications contained within the contract documents and has utilized all data that he or she believes pertinent in arriving at his or her conclusions.

The bidder agrees to hold his or her bid proposal open for sixty (60) calendar days after the receipt of bids by the City.

The bidder agrees that if this proposal is accepted, he or she will, within ten (10) working days after notification of acceptance, execute a contract in the form included in the contract documents with the City of Snohomish, and will, prior to the time of execution of the contract, deliver to the City of Snohomish a performance and payment bond and a Certificate of Insurance and as required therein, and will, furnish all machinery, tools, apparatus, and other means necessary to do the work in the manner, in the time, and according to the methods specified in the contract documents.

The bidder further agrees, if awarded the contract, to begin work within ten (10) working days after the date of notice to proceed, unless otherwise approved by the City, and to complete the work within thirty (30) calendar days as described in Section 1-08.5 in the Special Provisions included herein.

In the event the bidder is awarded the contract and shall fail to complete the work within the time limit or extended time limit agreed upon as more particularly set forth in the contract documents, liquidated damages shall be paid to the owner per the specifications contained in the contract documents.

The bidder proposes to accept as full payment for the work proposed herein the amount computed under the provisions of the contract documents. This amount shall be based on actual quantities of work performed. Bidder agrees that the unit prices represent a true measure of the

labor and material required to perform the work, including all allowances for overhead and profit for each type of work called for in these contract documents.

**BID PROPOSAL
 WWTP ATS REPLACEMENT PROJECT
 CITY OF SNOHOMISH**

Note: Unit prices for all items, all extensions, and the total amount bid must be shown. Where conflict occurs between the unit price and the total amount named for any item the unit price shall prevail, and totals shall be corrected to conform thereto. All entries must be typed or entered in ink.

BID SCHEDULE

ITEM	SPEC NO.	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
1	01025	MOBILIZATION AND DEMOBILIZATION	1	LS		
2	26 00 00	WWTP ATS REPLACEMENT	1	LS		
3	01025	MINOR CHANGES	1	F.A.	\$5,000	\$5,000
					Subtotal Bid Items 1-3	
					8.8% WSST	
					Total Base Bid	

RECEIPT OF ADDENDA

Receipt of the following Addenda to the Contract Documents is hereby acknowledged

Addendum #	Date of Receipt	Signed Acknowledgement

Note: Failure to acknowledge receipt of Addenda may be considered an irregularity in the bid proposal.

WORK TO BE COMPLETED BY CONTRACTOR

List the Work and the dollar amount thereof that the Contractor will complete with its forces if awarded the contract.

Work to be Performed	Dollar Amount

PROPOSED SUBCONTRACTORS (Per RCW 39.30.060)

List the Subcontractors and their Washington State Department of Licensing Contractor's Registration No. that you will use on the Work if you are awarded the contract.

Work to be Performed	Subcontractor (Name and Registration Number)

BID PROPOSAL SIGNATURE SHEET

The undersigned bids for completion of the following project: **WWTP ATS REPLACEMENT PROJECT** as described in the contract documents. The bidder proposes to accept as full payment for the work proposed herein; the amount computed under the provisions of the contract documents.

NOTE: The City reserves the right to accept or reject any and all bids as determined by the City.

TOTAL BASE BID:

Total Base Bid Including Applicable Tax	\$
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Contractor (Firm Name)

Signature

Address

Name & Title (printed)

Phone & Fax Number

Date of Signing

Washington State Contractor's
Registration Number

Indicate whether contractor is partnership,
corporation, or sole proprietorship

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the base bid amount.

NO BID SHALL BE CONSIDERED UNLESS ACCOMPANIED BY SUCH BID PROPOSAL DEPOSIT.

Bid proposal to be submitted in a sealed envelope marked "**BID ENCLOSED**" FOR **WWTP ATS REPLACEMENT PROJECT**

WASHINGTON STATE SALES TAX

The work on this contract is to be performed upon lands whose ownership obligates the Contractor to pay sales tax. The provisions of Section 1-07.2(2) of the Special Provisions apply.

COMPLETION TIME AND LIQUIDATED DAMAGES

It is understood and agreed that all work required to complete this project and achieve the implied intent of the contract documents shall be completed within thirty (30) calendar days. Refer to Section 1-08.5 of the Special Provisions.

It is further understood and agreed that the Owner may deduct liquidated damages from payments due or to become due the Contractor in the amount set forth in Section 1-08.9, Liquidated Damages, for each working day beyond the time allowed in the contract, as stipulated in the paragraph above, unless specified otherwise. Such deductions may be made for any delays, which cannot reasonably be shown to be beyond the Contractor's control.

The liquidated damages do not include and are in addition to damages from costs for engineering, administrative, and other costs incurred beyond contract completion date. The cost of additional engineering, project oversight, and other costs beyond contract completion date shall be billed to the contractor at standard billing rates for said services then in effect.

NON COLLUSION DECLARATION

The undersigned, being duly sworn, deposes and says that the Bid submitted herewith is a genuine and not a collusive or sham bid or made in the interest or on behalf of any person herein named and that the person, firm, association, joint venture, co-partnership, or corporation herein named, has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in the preparation and submission of a bid for consideration in the award of a contract for the project described on the first page of this Proposal Form.

PREVAILING WAGES

The prevailing rate of wages shall be paid to all workers, laborer, or mechanics per Chapter 39.12 RCW. (See 2016 WSDOT/APWA Standard Specifications). Prevailing wage rates for trades in the County that may be applicable to the project are included in Appendix C.

PROPOSAL FORM (continued)

BID DEPOSIT

Provide a Bid Deposit in an amount of five percent (5%) of the Base Bid Amount based upon the quantities and unit prices in the Bid Schedule, including applicable taxes, and in the form indicated on the following pages.

Cash _____ IN THE AMOUNT OF \$ _____

Cashier's Check _____ \$ _____

Certified Check _____ \$ _____ Payable to the Owner

Bid Bond _____ IN THE AMOUNT OF 5% OF THE **BASE BID**
AMOUNT

SURETY

If the Bidder is awarded a contract on this Bid, the Surety who provides the Contract Bond will be _____.

Whose address is _____
Street

_____ City State Zip Code

BIDDER INFORMATION AND SIGNATURE

The party by whom this bid is submitted and by whom the contract will be entered into, in case the award is made to him, is:

Corporation/Partnership/Individual

Firm Name: _____

Doing business at _____
Address City/State

Which is the address to which all communications concerned with this bid and contract should be sent.

The name of the president, treasurer, and manager of the bidding corporation, or the names of all persons and parties interested in this bid as partners or principals are as follows

<u>Name/Title</u>	<u>Address</u>
_____	_____
_____	_____
_____	_____
_____	_____

IN WITNESS hereto, the undersigned agrees to the conditions of the BID, certifies that this BID has not been restricted, modified or conditioned, acknowledges receipt of addenda ____ to ____, attests to the absence of collusion in the Non-Collusion Affidavit below, and agrees to be bound by its provisions, certifies and agrees concerning non-segregated facilities in the Non-Segregated facilities statement below, covenants, stipulates and agrees in accordance with the Anti-Discrimination Certification below, declares, accepts and understands in accordance with the Bidder's Declaration and Understanding below, agrees as to prevailing wages as below, agrees as to Washington State Sales tax as above, understands and agrees as to the completion of time and liquidated damages as below, and with the full authority of the firm or other business entity submitting this BID has set his hand this _____ day of _____ 2016.

If Sole Proprietor or Partnership

Signature of Bidder

Title

If Corporation

Attest: _____
Name of Corporation

Secretary By _____

Title _____

Sworn to before me this _____ day of

_____, _____.

Notary Public in and for the State
Of Washington residing at

- NOTE:
1. If the Bidder is a co-partnership, so state, giving the Name under which business is transacted.
 2. If the Bidder is a corporation, this Proposal must be Executed by the duly authorized officials and notarized.

DEPOSIT OR BID BOND FORM

DEPOSIT STATEMENT

Herewith find deposit in the form of certified check, cashier's check or cash in the amount of \$ _____, which amount is not less than five percent of the total bid.

SIGN HERE _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____, as Principal,
and _____, as Surety, are held
firmly bound unto the _____, Washington, as Obligee, in the
penal sum of _____ Dollars, for the payment of which the
Principal and the Surety bind themselves, their heirs, executors, administrators, successors, and
assigns, jointly and severally by these presents.

The condition of this obligation is such that if the Obligee shall make any award to the Principal
for

_____, Washington, according to the
terms of the bid made by the Principal therefore, the Principal shall duly make and enter into a
contract with the Obligee in accordance with the terms of said proposal or bid and award and
shall give bond for the faithful performance thereof, with Surety or Sureties approved by the
Obligee, or if the Principal shall, in case of failure to so do, pay and forfeit to the Obligee the
penal amount of the deposit specified in the call for bids, then this obligation shall be null and
void; otherwise, it shall be and remain in full force and effect, and the Surety shall forthwith pay
and forfeit to the Obligee, as penalty and liquidated damages, the amount of this bond.

SIGNED, SEALED, AND DATED THIS _____ DAY OF _____, _____.

Principal

Surety

Received return of deposit in the sum of \$ _____

ANTI-DISCRIMINATION CERTIFICATE

CITY OF SNOHOMISH
STATE OF WASHINGTON
COUNTY OF SNOHOMISH

The bidder hereby covenants, stipulates and agrees that no person shall be discriminated against in the bidding of the service and/or materials hereunder and that the bidder shall not refuse to hire any person therefore because of such person's race, creed, color or national origin, unless based on a bona fide occupational qualification. Also, the bidder will in no matter discriminate against any person because of such person's race, creed, color or national origin. Any such discrimination shall be deemed a violation of this bid and shall render this bid subject to forfeiture.

Contractor's Signature

Subscribed and sworn to before me this _____ day of _____, 2016.

Notary Public in and for
The State of Washington,
Residing at

My commission expires _____

CERTIFICATION OF NONSEGREGATED FACILITIES

The Bidder certifies that s/he does not maintain or provide for her/his employees any segregated facilities at any of her/his establishments, and that s/he does not permit her/his employees to perform their services at any locations, under her/his control, where segregated facilities are maintained. The Bidder certifies further that s/he will not maintain or provide for her/his employees any segregated facilities at any of her/his establishments, and that s/he will not permit her/his employees to perform their services at any location under her/his control where segregated facilities are maintained. The Bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause on any contract resulting from acceptance of this bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants, or other eating areas, time clocks, locker rooms or other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact because of habit, local custom or otherwise. The Bidder agrees that except where s/he has obtained identical certification from proposed subcontractor prior to the award of subcontracts exceeding \$10,000, which are not exempt from the provisions of the Equal Opportunity clause, that s/he will retain such certifications in her/his files.

NOTE: The penalty for making false statements in offers is prescribed in 18 USV 1001.

Dated: _____, _____
(Name of Bidder)

By _____
Signature

Title _____

Official Address:

(City, State, Zip)

Must be included without alteration.

CONTRACT

THIS AGREEMENT, made in 3 copies, each of which shall be deemed original, and entered into as of the date hereinafter affixed, by and between CITY OF SNOHOMISH, hereinafter called the Owner, and _____, HEREINAFTER called the Contractor,

WITNESSETH:

That in consideration of the terms and conditions contained herein and attached and made a part of this Agreement, the parties hereto covenant and agree as follows:

I. The Contractor shall do all work and furnish all labor, tools, materials and equipment for the completion of the **WWTP ATS REPLACEMENT PROJECT** in accordance with and as described in the attached contract document, including any Addenda which are by this reference incorporated herein and made a part hereof, and shall perform any alterations in or additions to the work provided under this contract and every part thereof.

If said work is not completed within the time specified, the Contractor agrees to pay to the Owner the sum set forth in Section 1-08.9 for each and every calendar day said work remains uncompleted after expiration of the specified time, as liquidated damages. The Contractor shall provide and bear the expense of all equipment, work, and labor of any sort whatsoever that may be required for the transfer of materials and for completing the work provided for in this contract and every part thereof, except such as are mentioned in the specifications to be furnished by CITY OF SNOHOMISH.

II. CITY OF SNOHOMISH hereby promises and agrees with the Contractor to employ and does employ the Contractor to provide the materials and to do and cause to be done the above-described work and to complete and finish the same according to the attached contract documents and the terms and conditions herein contained and hereby contracts to pay for the same according to the attached specifications and the schedule of prices bid and hereto attached, at the time and in the manner and upon the conditions provided for in this contract.

III. The Contractor for himself and for his heirs, executors, administrators, successors and assigns does hereby agree to the full performance of all covenants herein contained upon the part of the Contractor.

IV. It is further provided that no liability shall attach to CITY OF SNOHOMISH by reason of entering into this contract, except as expressly provided herein.

V. The CITY OF SNOHOMISH is committed to transparency and accountability in its contracting and expenditures, and obtaining maximum taxpayer value for public works projects. Prior to final acceptance and release of retainage by the CITY OF SNOHOMISH, Contractor shall provide the CITY OF SNOHOMISH with a report listing the names and addresses of the subcontractors and suppliers receiving contract funds from the Project.

VI. This agreement consists of the following documents, all of which are incorporated by reference as if set forth in full herein, and are component parts hereof:

1. Legal, Procedural, Contract Documents, and Indemnification Addendum
2. Washington State Legal Requirements (RCW'S; WAC'S)
3. 2012 International Building Code (IBC)
4. National Electric Code (NEC)
5. Washington State Labor and Industries
6. City of Snohomish Engineering Standards and Specifications
7. Amendments to the Standard Specifications
8. 2016 Standard Specifications (WSDOT/APWA)
9. Technical Specifications
10. Special Provisions
11. Reference Drawings

Countersigned:

This _____ day of _____, 2016.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year first herein above written.

CITY OF SNOHOMISH (Owner)

By _____
Larry Bauman, City Manager

Approved as to form

By _____
Grant Weed, City Attorney

CONTRACTOR

By _____

Address:

Telephone Number:

Fax Number:

Acknowledgement of Waiver of Contractor's Industrial insurance immunity. See Standard Specifications, 1-07.14. (Initial acknowledgement)

Owner

Contractor

CONTRACT BOND

KNOW ALL MEN BY THESE PRESENTS: That whereas CITY OF SNOHOMISH has awarded to _____, hereinafter designated as the “Principal,” a contract for the completion of the Project designated City of Snohomish **WWTP ATS REPLACEMENT PROJECT** all as hereto attached and made a part hereof, and whereas said principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract:

NOW, THEREFORE, we the principal and _____

(Surety)

a corporation, organized and existing under and by virtue of the laws of the State of _____, duly authorized to do business in the State of Washington, as surety, are held and firmly bound unto CITY OF SNOHOMISH, a municipal corporation of the State of Washington in the sum of: _____, lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by those presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the above-bonded principal, his or its heirs, executors, administrators, successors, or assigns shall in all things stand to and abide by and well and truly keep and perform the covenants, conditions, and agreements in the said contract and shall faithfully perform all the provisions of such contract and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, at the time and in the manner therein specified, and shall pay all laborers, mechanics, subcontractors, and material men and all persons who shall supply such person or persons or subcontractors with provisions and supplies for the carrying on of such work on his or their part and shall indemnify and save harmless CITY OF SNOHOMISH, their officers and agents and shall further save harmless and indemnify said CITY OF SNOHOMISH from any defect or defects in any of the workmanship entering into any part of the work covered by said contract which shall develop or

be discovered prior to final acceptance of such work, then this obligation shall become null and void.

And the said surety, for the value received, hereby further stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on the bond, and it does hereby waive notice of any change, extension of time, alterations, or additions to the terms of the contract or the work or to the specifications.

IN WITNESS WHEREOF, the said principal and the said surety have caused this bond and three (3) counterparts thereof to be signed and sealed by their duly authorized officers this _____ day of _____, _____.

Principal

TWO WITNESSES: (If sole proprietor or Partnership)

By _____

ATTEST: (If Corporation)

Corporate Seal

By _____

Title _____

Surety

By _____

Its _____

Address of local office and agent of Surety Company is: _____

APPROVED AS TO FORM

By _____
Grant Weed, Attorney for CITY OF SNOHOMISH

NOTE: THIS QUESTIONNAIRE MUST BE COMPLETED AND ATTACHED TO CERTIFICATE OF INSURANCE.

INSURANCE COVERAGE QUESTIONNAIRE

For:

Project Title: **WWTP ATS REPLACEMENT PROJECT**

Project Owner: **City of Snohomish**

Are the following coverage's and/or conditions in effect?

	Yes	No
The Policy form is ISO Commercial General Liability form GC-00 001 or GC 00 02 (Circle ONE). If no, attach a copy of the policy with required coverages clearly identified.		
The Owner, its officials, officers, employees and volunteers are additional insures as Respects (a) activities performed for the Owner by or on behalf of the Named Insured, (b) products and completed operations of the Named Insured, or (c) premises, owned, leased, or used by the Named Insured.		
Products Completed operation coverage.		
Cross Liability clause (or equivalent wording).		
Personal Injury Liability Coverage (with employee exclusion deleted)		
Broad Form Damage with XCU Hazards included.		
Blanket Contractual Liability coverage applying to this contract or Contractual Liability Coverage applying to this contract		
Employers Liability – Stop Gap		
Written notice of cancellation to the City		

Deductibles or SIRS GL_____ AL_____ Excess_____

Insurer's Best Rating GL_____ AL_____ Excess_____

This questionnaire is issued as a matter of information. This questionnaire is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies indicated on the attached Certificate of Insurance or as required by the Contract Documents

Agency/Broker

Completed by (type)

Address

Completed by (signature)

Name of Person to Contact

Telephone Number

CITY OF SNOHOMISH

**CONTRACTOR'S DECLARATION OF OPTION FOR MANAGEMENT
OF STATUTORY RETAINED PERCENTAGE**

The owner shall withhold the retained percentage for this contract from time-to-time as such retained percentage accrues and in accordance with RCW 60.28.010, 020, and 050.

OPTION A. I hereby elect to have the retained percentage for this contract held in a fund by the owner until thirty five (35) calendar days following final acceptance of the work. (No interest will be earned on the retained percentage amount under this election).

CONTRACTOR:

Date: _____

OPTION B. I hereby elect to have the owner deposit the retained percentage for this contract, from time-to-time, as such retained percentage accrues and in accordance with RCW 60.28.010, 020, and 050.

I hereby designate _____ as the depository for said funds which shall be deposited in an interest earning account subject to joint control by owner and the contractor. All interest earned on said deposits shall belong to the contractor. (If contractor fails to designate the depository then the owner designates)

I hereby further agree to be fully responsible for payment of all costs of fees incurred as a result of establishing said depository account and depositing the retained percentage as authorized by statute. The owner shall not be liable in any way for any costs or fees in connection therewith.

CONTRACTOR:

Date: _____

ATTN: FINANCE DEPARTMENT *This form is for selection of retainage option ONLY. **OPTION B** must have a signed Escrow Instruction/Agreement on file prior to processing retainage payment to the bank. Signed Agreement will be secured by the Purchasing Division.*

CITY OF SNOHOMISH

PUBLIC WORKS PROJECT - RETAINED PERCENTAGE ESCROW AGREEMENT

Escrow No. _____

City of Snohomish
116 Union Avenue
Snohomish, WA 98290

Contractor: _____

Address: _____

Project Title: _____

TO: Escrow Bank or Trust Co:

The undersigned, _____, herein referred to as the Contractor, has directed the City of Snohomish to deliver to you its warrants which shall be payable to you and the Contractor jointly. Such warrants are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

INSTRUCTIONS

1. Warrants or checks made payable to you and the contractor jointly upon delivery to you shall be endorsed by you and forwarded for collection. The moneys will then be used by you to purchase, as directed by the Contractor, bonds or other securities chosen by the Contractor and approved by the City of Snohomish. Attached is a list of such bonds, or other securities approved by the City of Snohomish. Other bonds or securities, except stocks may be selected by the Contractor, subject to express written approval of the City of Snohomish. Purchase of such bonds or other securities shall be in a form which shall allow you alone to reconvert such bonds or other securities into money if you are required to do so by the City of Snohomish as provided in paragraph 4 of this Escrow Agreement.

2. When and as interest on the securities held by you pursuant to this agreement accrues and is paid, you shall collect such interest and forward it to the Contractor at its address designated below unless otherwise directed by the Contractor.

3. You are not authorized to deliver to the Contractor all or any part of the securities held by you pursuant to this agreement (or any moneys derived from the sale of such securities, or the negotiation of the City of Snohomish's warrants) except in accordance with written instructions from the City of Snohomish. Compliance with such instructions shall relieve you of any further liability related thereto. The estimated completion date on the contract underlying this Escrow Agreement is _____.

4. In the event the City of Snohomish orders you to do so in writing, you shall, within thirty-five (35) calendar days of receipt of such order, reconvert into money the securities held by you pursuant to this agreement and return such money together with any other moneys held by you hereunder, to the City of Snohomish. Written release will be issued by the City Treasurer. For further information contact the City Treasurer at (360) 568-3115.

5. The Contractor agrees to pay you as compensation for your services hereunder as follows:

Payment of all fees shall be the sole responsibility of the Contractor and shall not be deducted from any property placed with you pursuant to this agreement until and unless the City of Snohomish directs the release to the Contractor of the securities and moneys held hereunder whereupon you shall be granted a first lien upon such property released and shall be entitled to reimburse yourself from such property for the entire amount of your fees as provided for herein above. In the event that you are made a party to any litigation with respect to the property held by you hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that you are required to render any service not provided for in these instructions, or that there is any assignment of the interests of this escrow or any modifications hereof, you shall be entitled to reasonable compensation for such extraordinary services from the Contractor and reimbursement from the Contractor for all costs and expenses, including attorneys fees occasioned by such default, delay, controversy or litigation.

6. This agreement shall not be binding until executed by the Contractor and the City of Snohomish and accepted by you.

7. This instrument contains the entire agreement between you, the Contractor and the City of Snohomish with respect to this escrow and you are not a party to nor bound by any instrument or agreement other than this; you shall not be required to take notice of any default or any other matter nor be bound by nor required to give notice or demand, nor required to take any action whatever except as herein expressly provided; you shall not be liable for any loss or damage not caused by your own negligence or willful misconduct.

8. The foregoing provisions shall be binding upon the assigns, successors, personal representatives and heirs of the parties hereto.

9. The Contractor's Federal Income Tax Identification number is _____.

The undersigned have read and hereby approve the instructions as given above governing the administration of this escrow and do hereby execute this agreement on this _____ day of _____, 2016.

CONTRACTOR

CITY OF SNOHOMISH

Signature

Larry Bauman, City Manager

Title: _____

ATTEST:

Pat Adams, City Clerk

The above escrow instructions received and accepted this _____ day of _____, 2016.

ESCROW BANK OR TRUST CO:

Signature

Title: _____

Securities Authorized by City of Snohomish - Select only one:

1. Bills, certificates, notes or bonds of the United States;
2. Other obligations of the United States or its agencies;
3. Obligations of any corporation wholly-owned by the government of the United States;
4. Indebtedness of the Federal National Mortgage Association; and
5. Time deposits in commercial banks.

PLEASE RETURN THIS SIGNED AGREEMENT TO:

City of Snohomish
Attn: City Treasurer
116 Union Avenue
Snohomish, WA 98290

RETAINAGE RELEASE REQUIREMENTS

The following are the documents required to be on file with the City of Snohomish prior to release of retainage to the Contractor.

No.	Document	Generated by	Contact	Date Received by City
1	Contractor's Notification to City of Completion of Contract Work	Contractor	City Engineer	
2	Recommendation of Project Acceptance	City / Project Engineer	City Engineer	
3	Final Project Acceptance	City / Council	City Engineer	
4	Intent to Pay Prevailing Wages	Contractor	Dept. of Labor & Industries	
5	Notification of Completion to Department of Revenue	City / City Treasurer	Dept. of Revenue Excise Tax Division	
6	Affidavit of Wages Paid	Contractor	Dept. of Labor & Industries	
7	Certificate of Payment State Excise Tax by Public Works Contractor	State	Dept of Revenue Excise Tax Division	
8	Release Regarding Industrial Insurance	City	City Engineer	
9	Certification of Payment of Contributions	State	Dept. of Employment Security	
10	Receipt for Payment in full or Release of Lien signed by Lien Claimant and filed with City	Contractor	All claims against retainage or payment Bond filed with the City	

SECTION 2

SPECIAL PROVISIONS

INTRODUCTION TO THE SPECIAL PROVISIONS

(July 31, 2007 APWA GSP)

The work on this project shall be accomplished in accordance with the *Standard Specifications for Road, Bridge and Municipal Construction*, 2016 edition, as issued by the Washington State Department of Transportation (WSDOT) and the American Public Works Association (APWA), Washington State Chapter (hereafter “Standard Specifications”). The Standard Specifications, as modified or supplemented by the Amendments to the Standard Specifications and these Special Provisions, all of which are made a part of the Contract Documents, shall govern all of the Work.

These Special Provisions are made up of both General Special Provisions (GSPs) in the form of amendments to Division 1 “General Requirements” of the Standards Specifications from various sources, which may have project-specific fill-ins; and project-specific Special Provisions. The project-specific provisions include supplemental specifications in Construction Specifications Institute (CSI) format. Each Provision supplements, modifies, or replaces the comparable Standard Specification, or is a new Provision. The deletion, amendment, alteration, or addition to any subsection or portion of the Standard Specifications is meant to pertain only to that particular portion of the section, and in no way should it be interpreted that the balance of the section does not apply.

The project-specific Special Provisions are not labeled as such. The GSPs are labeled under the headers of each GSP, with the date of the GSP and its source. For example:

(May 18, 2007 APWA GSP)

(August 7, 2006 WSDOT GSP)

(March 2016 COS)

Also incorporated into the Contract Documents by reference are:

- *Manual on Uniform Traffic Control Devices for Streets and Highways*, currently adopted edition, with Washington State modifications, if any
- *Standard Plans for Road, Bridge and Municipal Construction*, WSDOT/APWA, current edition
- *City of Snohomish Engineering Design and Construction Standards Manual*

Contractor shall obtain copies of these publications, as necessary, at Contractor’s own expense.

Wherever reference is made in the Standard Specifications to the Contracting Agency, State, Commission, Department of Transportation, Secretary of Transportation, such reference shall be deemed to be the City of Snohomish through its City Council, employees, and duly authorized representatives.

AMENDMENTS TO THE STANDARD SPECIFICATIONS

DIVISION 1 – GENERAL REQUIREMENTS

DESCRIPTION OF WORK

(March 13, 1995 WSDOT GSP)

This contract provides for the dredging, dewatering, transporting, and offsite beneficial reuse of wastewater treatment plant biosolids accrued within the City’s lagoon cells. Mobilization/demobilization, temporary staging of dredging and dewatering equipment and site environmental protection are included as part of the contracted work, which will be performed in accordance with these Contract Provisions and the Standard Specifications.

1-01 DEFINITIONS AND TERMS

1-01.3 Definitions

(September 12, 2008 APWA GSP)

This Section is supplemented with the following:

All references in the Standard Specifications to the terms “State”, “Department of Transportation”, “Washington State Transportation Commission”, “Commission”, “Secretary of Transportation”, “Secretary”, “Headquarters”, and “State Treasurer” shall be revised to read “Contracting Agency”.

All references to “State Materials Laboratory” shall be revised to read “Contracting Agency designated location”.

The venue of all causes of action arising from the advertisement, award, execution, and performance of the contract shall be in the Superior Court of the County where the Contracting Agency’s headquarters are located.

Additive

A supplemental unit of work or group of bid items, identified separately in the Proposal, which may, at the discretion of the Contracting Agency, be awarded in addition to the base bid.

Alternate

One of two or more units of work or groups of bid items, identified separately in the proposal, from which the Contracting Agency may make a choice between different methods or material of construction for performing the same work.

Contract

The written agreement between the Contracting Agency and the Contractor. It describes, among other things:

1. What work will be done, and by when;
2. Who provides labor and materials; and
3. How Contractors will be paid

The Contract includes the Contract (Agreement) form; bidder's completed Proposal Form, all required forms, certificates and affidavits, performance, labor and material payment bonds, the 2016 Standard Specifications for Road, Bridge and Municipal Construction and amendments thereto, Contract Provisions, Reference Drawings, Standard Plans, City of Snohomish Engineering Standards and Specifications and associated Standard Details, addenda and change orders.

Contract Documents

See definition for "Contract".

Contract Time

The period of time established by the terms and conditions of the contract within which the work must be physically completed.

Dates

Bid Opening Date

The date on which the Contracting Agency publicly opens and reads the bids.

Award Date

The date of the formal decision of the Contracting Agency to accept the lowest responsible and responsive bidder for the work.

Contract Execution Date

The date the Contracting Agency officially binds the agency to the contract.

Notice to Proceed Date

The date stated in the Notice to Proceed on which the contract time begins.

Substantial Completion Date

The day it is determined that the Contracting Agency has full and unrestricted use and benefit of the facilities, both from the operational and safety standpoint, and only minor incidental work, replacement of temporary substitute facilities, or correction or repair remains for the physical completion of the total contract.

Physical Completion Date

The day all of the work is physically completed on the project. All documentation required by the contract and required by law does not necessarily need to be furnished by the Contractor by this date.

Completion Date

The day all the work specified in the contract is completed and all the obligations of the Contractor under the contract are fulfilled by the Contractor. All documentation required

by the contract and required by law must be furnished by the Contractor before establishment of this date.

Final Acceptance Date

The date on which the Contracting Agency accepts the work as complete.

Engineer

The Contracting Agency's representative who administers the construction program for the Contracting Agency, which may be the Contracting Agency itself.

Notice of Award

The written notice from the Contracting Agency to the successful bidder signifying the Contracting Agency's acceptance of the bid.

Notice to Proceed

The written notice from the Contracting Agency to the Contractor authorizing and directing the Contractor to proceed with the work and establishing the date on which the contract time begins.

Traffic

Both vehicular and non-vehicular traffic, such as pedestrians, bicyclists, wheelchairs, and equestrian traffic.

1-02 BID PROCEDURES AND CONDITIONS

1-02.1 Prequalification of Bidders

Delete this Section and replace it with the following:

1-02.1 Qualifications of Bidder

(March 25, 2009 APWA GSP)

Bidders must meet the minimum qualifications of RCW 39.04.350(1), as amended:

“Before award of a public works contract, a bidder must meet the following responsibility criteria to be considered a responsible bidder and qualified to be awarded a public works project. The bidder must:

- (a) At the time of bid submittal, have a certificate of registration in compliance with chapter 18.27 RCW;
- (b) Have a current state unified business identifier number;
- (c) If applicable, have industrial insurance coverage for the bidder's employees working in Washington as required in Title 51 RCW; an employment security department number as required in Title 50 RCW; and a state excise tax registration number as required in Title 82 RCW; and
- (d) Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065(3).”

1-02.2 Plans and Specifications

(October 1, 2005 APWA GSP)

Delete this section and replace it with the following:

Information as to where Bid Documents can be obtained or reviewed will be found in the Call for Bids (Advertisement for Bids) for the work.

After award of the Contract Documents will be issued to the Contractor at no cost as detailed below:

To Prime Contractor	No. of Sets	Basis of Distribution
Specifications	2	Furnished automatically upon award.
Reference Drawings (11"x17")	2	Furnished automatically upon award.

Additional Contract Documents may be obtained from the City if needed upon request.

1-02.4 Examination Of Plans, Specifications And Site Of Work

(March 13, 1995 WSDOT GSP)

1-02.4(1) General

(March 2016 COS)

This Section is supplemented with the following:

Contractor shall review the entire Contract to ensure that the completeness of their Proposal includes all items of Work regardless of where shown in the Contract Documents. Bidders are cautioned that alternate sources of information (copies of the Contract obtained from third parties) are not necessarily an accurate or complete representation of the Contract Documents. Bidders shall use such information at their own risk.

1-02.5 Proposal Forms

(October 1, 2005 APWA GSP)

Delete this section and replace it with the following:

At the request of a bidder, the Contracting Agency will provide a proposal form for any project on which the bidder is eligible to bid.

The proposal form will identify the project and its location and describe the work. It will also list estimated quantities, units of measurement, the items of work, and the materials to be

furnished at the unit bid prices. The bidder shall complete spaces on the proposal form that call for, but are not limited to, unit prices; extensions; summations; the total bid amount; signatures; date; and, where applicable, retail sales taxes and acknowledgment of addenda; the bidder's name, address, telephone number, and signature; the bidder's D/M/WBE commitment, if applicable; a State of Washington Contractor's Registration Number; and a Business License Number, if applicable. Bids shall be completed by typing or shall be printed in ink by hand, preferably in black ink. The required certifications are included as part of the proposal form.

The Contracting Agency reserves the right to arrange the proposal forms with alternates and additives, if such be to the advantage of the Contracting Agency. The bidder shall bid on all alternates and additives set forth in the proposal forms unless otherwise specified.

Any correction to a bid made by interlineation, alteration, or erasure, shall be initialed by the signer of the bid. The bidder shall make no stipulation on the Bid Form, nor qualify the bid in any manner.

A bid by a corporation shall be executed in the corporate name, by the president or a vice president (or other corporate officer accompanied by evidence of authority to sign).

A bid by a partnership shall be executed in the partnership name, and signed by a partner. A copy of the partnership agreement shall be submitted with the Bid Form if any D/M/WBE requirements are to be satisfied through such an agreement.

A bid by a joint venture shall be executed in the joint venture name and signed by a member of the joint venture. A copy of the joint venture agreement shall be submitted with the Bid Form if any D/W/MBE requirements are to be satisfied through such an agreement.

1-02.7 Bid Deposit

(October 1, 2005 APWA GSP)

Supplement this section with the following:

Bid bonds shall contain the following:

1. Contracting Agency-assigned number for the project;
2. Name of the project;
3. The Contracting Agency named as obligee;
4. The amount of the bid bond stated either as a dollar figure or as a percentage which represents five percent of the base bid amount that could be awarded;
5. Signature of the bidder's officer empowered to sign official statements. The signature of the person authorized to submit the bid should agree with the signature on the bond, and the title of the person must accompany the said signature;
6. The signature of the surety's officer empowered to sign the bond and the power of attorney.

The bidder must use the bond form included in the Contract Documents.

1-02.9 Delivery of Proposal

(October 1, 2005 APWA GSP)

Revise the first paragraph to read:

Each proposal shall be submitted in a sealed envelope, with the Project Name and Project Number as stated in the Advertisement for Bids clearly marked on the outside of the envelope, or as otherwise stated in the Bid Documents, to ensure proper handling and delivery.

1-02.13 Irregular Proposals

(March 25, 2009 APWA GSP)

Revise item 1 to read:

1. A proposal will be considered irregular and will be rejected if:
 - a. The Bidder is not prequalified when so required;
 - b. The authorized proposal form furnished by the Contracting Agency is not used or is altered;
 - c. The completed proposal form contains any unauthorized additions, deletions, alternate Bids, or conditions;
 - d. The Bidder adds provisions reserving the right to reject or accept the award, or enter into the Contract;
 - e. A price per unit cannot be determined from the Bid Proposal;
 - f. The Proposal form is not properly executed;
 - g. The Bidder fails to submit or properly complete a Subcontractor list, if applicable, as required in Section 1-02.6;
 - h. The Bidder fails to submit or properly complete a Disadvantaged, Minority or Women's Business Enterprise Certification, if applicable, as required in Section 1-02.6;
 - i. The Bid Proposal does not constitute a definite and unqualified offer to meet the material terms of the Bid invitation; or
 - j. More than one proposal is submitted for the same project from a Bidder under the same or different names.

1-02.14 Disqualification of Bidders

(March 25, 2009 APWA GSP, Option B)

Delete this Section and replace it with the following:

A Bidder will be deemed not responsible if:

1. the Bidder does not meet the mandatory bidder responsibility criteria in RCW 39.04.350(1), as amended; or

2. evidence of collusion exists with any other Bidder or potential Bidder. Participants in collusion will be restricted from submitting further bids; or
3. the Bidder, in the opinion of the Contracting Agency, is not qualified for the work or to the full extent of the bid, or to the extent that the bid exceeds the authorized prequalification amount as may have been determined by a prequalification of the Bidder; or
4. an unsatisfactory performance record exists based on past or current Contracting Agency work or for work done for others, as judged from the standpoint of conduct of the work; workmanship; or progress; affirmative action; equal employment opportunity practices; termination for cause; or Disadvantaged Business Enterprise, Minority Business Enterprise, or Women's Business Enterprise utilization; or
5. there is uncompleted work (Contracting Agency or otherwise), which in the opinion of the Contracting Agency might hinder or prevent the prompt completion of the work bid upon; or
6. the Bidder failed to settle bills for labor or materials on past or current contracts, unless there are extenuating circumstances acceptable to the Contracting Agency; or
7. the Bidder has failed to complete a written public contract or has been convicted of a crime arising from a previous public contract, unless there are extenuating circumstances acceptable to the Contracting Agency; or
8. the Bidder is unable, financially or otherwise, to perform the work, in the opinion of the Contracting Agency; or
9. there are any other reasons deemed proper by the Contracting Agency.

As evidence that the Bidder meets the bidder responsibility criteria above, the apparent three lowest Bidders must submit to the Contracting Agency within 24 hours of the bid submittal deadline, documentation (sufficient in the sole judgment of the Contracting Agency) demonstrating compliance with all applicable responsibility criteria, including all documentation specifically listed in the supplemental criteria. The Contracting Agency reserves the right to request such documentation from other Bidders as well, and to request further documentation as needed to assess bidder responsibility.

The basis for evaluation of Bidder compliance with these supplemental criteria shall be any documents or facts obtained by Contracting Agency (whether from the Bidder or third parties) which any reasonable owner would rely on for determining such compliance, including but not limited to: (i) financial, historical, or operational data from the Bidder; (ii) information obtained directly by the Contracting Agency from owners for whom the Bidder has worked, or other public agencies or private enterprises; and (iii) any additional information obtained by the Contracting Agency which is believed to be relevant to the matter.

If the Contracting Agency determines the Bidder does not meet the bidder responsibility criteria above and is therefore not a responsible Bidder, the Contracting Agency shall notify the Bidder in writing, with the reasons for its determination. If the Bidder disagrees with this determination, it may appeal the determination within 24 hours of receipt of the

Contracting Agency's determination by presenting its appeal to the Contracting Agency. The Contracting Agency will consider the appeal before issuing its final determination. If the final determination affirms that the Bidder is not responsible, the Contracting Agency will not execute a contract with any other Bidder until at least two working days after the Bidder determined to be not responsible has received the final determination.

1-02.15 Pre-Award Information

(October 1, 2005 APWA GSP)

Revise this section to read:

Before awarding any contract, the Contracting Agency may require one or more of these items or actions of the apparent lowest responsible bidder:

1. A complete statement of the origin, composition, and manufacture of any or all materials to be used,
2. Samples of these materials for quality and fitness tests,
3. A progress schedule (in a form the Contracting Agency requires) showing the order of and time required for the various phases of the work,
4. A breakdown of costs assigned to any bid item,
5. Attendance at a conference with the Engineer or representatives of the Engineer,
6. Obtain, and furnish a copy of, a business license to do business in the city or county where the work is located.
7. A copy of State of Washington Contractor's Registration, or
8. Any other information or action taken that is deemed necessary to ensure that the bidder is the lowest responsible bidder.

1-03 AWARD AND EXECUTION OF CONTRACT

1-03.3 Execution of Contract

(October 1, 2005 APWA GSP)

Revise this section to read:

Copies of the Contract Provisions, including the unsigned Form of Contract, will be available for signature by the successful bidder on the first business day following award. The number of copies to be executed by the Contractor will be determined by the Contracting Agency.

Within ten (10) working days after the award date, the successful bidder shall return the signed Contracting Agency-prepared contract, an insurance certification as required by Section 1-07.18, and a satisfactory bond as required by law and Section 1-03.4. Before execution of the contract by the Contracting Agency, the successful bidder shall provide any pre-award information the Contracting Agency may require under Section 1-02.15.

Until the Contracting Agency executes a contract, no proposal shall bind the Contracting Agency nor shall any work begin within the project limits or within Contracting Agency-

furnished sites. The Contractor shall bear all risks for any work begun outside such areas and for any materials ordered before the contract is executed by the Contracting Agency.

If the bidder experiences circumstances beyond their control that prevents return of the contract documents within the calendar days after the award date stated above, the Contracting Agency may grant up to a maximum of ten (10) working additional calendar days for return of the documents, provided the Contracting Agency deems the circumstances warrant it.

1-03.4 Contract Bond

(October 1, 2005 APWA GSP)

Revise the first paragraph to read:

The successful bidder shall provide an executed contract bond for the full contract amount. This contract bond shall:

1. Be on a Contracting Agency-furnished form;
2. Be signed by an approved surety (or sureties) that:
 - a. Is registered with the Washington State Insurance Commissioner, and
 - b. Appears on the current Authorized Insurance List in the State of Washington published by the Office of the Insurance Commissioner,
3. Be conditioned upon the faithful performance of the contract by the Contractor within the prescribed time;
4. Guarantee that the surety shall indemnify, defend, and protect the Contracting Agency against any claim of direct or indirect loss resulting from the failure:
 - a. Of the Contractor (or any of the employees, subcontractors, or lower tier subcontractors of the Contractor) to faithfully perform the contract, or
 - b. Of the Contractor (or the subcontractors or lower tier subcontractors of the Contractor) to pay all laborers, mechanics, subcontractors, lower tier subcontractors, material person, or any other person who provides supplies or provisions for carrying out the work;
5. Be accompanied by a power of attorney for the Surety's officer empowered to sign the bond; and
6. Be signed by an officer of the Contractor empowered to sign official statements (sole proprietor or partner). If the Contractor is a corporation, the bond must be signed by the president or vice-president, unless accompanied by written proof of the authority of the individual signing the bond to bind the corporation (i.e., corporate resolution, power of attorney or a letter to such effect by the president or vice-president).

1-04 SCOPE OF THE WORK

Section 1-04 is supplemented with Sections 01010 and 01530 of the Special Provisions.

1-04.2 Coordination of Contract Documents, Plans, Special Provisions, Specifications, and Addenda

(October 1, 2005 APWA GSP)

Revise the second paragraph to read:

Any inconsistency in the parts of the contract shall be resolved by following this order of precedence (e.g., 1 presiding over 2, 2 over 3, 3 over 4, and so forth):

1. Addenda,
2. Proposal Form,
3. Special Provisions, including APWA General Special Provisions, if they are included,
4. Reference Drawings
5. Amendments to the Standard Specifications,
6. WSDOT Standard Specifications for Road, Bridge and Municipal Construction,
7. Contracting Agency's Standard Plans (if any), and
8. WSDOT Standard Plans for Road, Bridge, and Municipal Construction.

1-04.6 Variation in Estimated Quantities Replacement

Section 1-04.6 is hereby deleted and replaced with the following:

Payment to the Contractor will be made only for the actual quantities of work performed and accepted in conformance with the contract. When the actual accepted quantity of work performed under a unit item varies from the original proposal quantity, payment will be at the unit contract price for all work and within the original time for completion.

1-05 CONTROL OF WORK

1-05.7 Removal of Defective and Unauthorized Work

(October 1, 2005 APWA GSP)

Supplement this section with the following:

If the Contractor fails to remedy defective or unauthorized work within the time specified in a written notice from the Contracting Agency, or fails to perform any part of the work required by the Contract Documents, the Contracting Agency may correct and remedy such work as may be identified in the written notice, with Contracting Agency forces or by such other means as the Contracting Agency may deem necessary.

If the Contractor fails to comply with a written order to remedy what the Contracting Agency determines to be an emergency situation, the Contracting Agency may have the defective and

unauthorized work corrected immediately, have the rejected work removed and replaced, or have work the Contractor refuses to perform completed by using Contracting Agency or other forces. An emergency situation is any situation when, in the opinion of the Contracting Agency or Engineer, a delay in its remedy could be potentially unsafe, or might cause serious risk of loss or damage to the public.

Direct or indirect costs incurred by the Contracting Agency attributable to correcting and remedying defective or unauthorized work, or work the Contractor failed or refused to perform, shall be paid by the Contractor. Payment will be deducted by from monies due, or to become due, the Contractor. Such direct and indirect costs shall include in particular, but without limitation, compensation for additional professional services required, and costs for repair and replacement of work of others destroyed or damaged by correction, removal, or replacement of the Contractor's unauthorized work.

No adjustment in contract time or compensation will be allowed because of the delay in the performance of the work attributable to the exercise of the Contracting Agency's rights provided by this Section.

The rights exercised under the provisions of this section shall not diminish the Contracting Agency's right to pursue any other avenue for additional remedy or damages with respect to the Contractor's failure to perform the work as required.

1-05.11 Final Inspection

Section 1-05.11 is replaced by Section 01700 of the Special Provisions.

1-05.12 Final Acceptance

Section 1-05.12 is replaced by Section 01700 of the Special Provisions.

1-05.13 Superintendents, Labor and Equipment of Contractor

(March 25, 2009 APWA GSP)

Revise the seventh paragraph to read:

Whenever the Contracting Agency evaluates the Contractor's qualifications pursuant to Section 1-02.14, it will take these performance reports into account.

1-05.15 Method of Serving Notices

(March 25, 2009 APWA GSP)

Revise the second paragraph to read:

All correspondence from the Contractor shall be directed to the Contracting Agency's Project Engineer. All correspondence from the Contractor constituting any notification, notice of protest, notice of dispute, or other correspondence constituting notification required to be furnished under the Contract, must be in paper format, hand delivered or sent via mail

delivery service to the Project Engineer's office. Electronic copies such as e-mails or electronically delivered copies of correspondence will not constitute such notice and will not comply with the requirements of the Contract.

Add the following new section:

1-05.16 Water and Power
(October 1, 2005 APWA GSP)

The Contractor shall make necessary arrangements, and shall bear the costs for making and removing temporary connections to available power and water sources necessary for the performance of the work. Available power and water sources shall be as identified by the Contracting Agency and within the Contract Documents.

Add the following new section:

1-05.17 Oral Agreements
(October 1, 2005 AWWA GSP)

No oral agreement or conversation with any officer, agent, or employee of the Contracting Agency, either before or after execution of the contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the contract. Such oral agreement or conversation shall be considered as unofficial information and in no way binding upon the Contracting Agency, unless subsequently put in writing and signed by the Contracting Agency.

1-06 CONTROL OF MATERIAL

Section 1-06 is supplemented with Section 01300 of the Special Provisions.

1-07 LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC

1-07.1 Laws To Be Observed
(March 2016 COS)

Section 1-07.1 is supplemented with the following:

In cases of conflict between different safety regulations, the more stringent regulation shall apply.

The Washington State Department of Labor and Industries shall be the sole and paramount administrative agency responsible for the administration of the provisions of the Washington Industrial Safety and Health Act of 1973 (WISHA).

The Contractor shall maintain at the project site office, or other well known place at the project site, all articles necessary for providing first aid to the injured. The Contractor shall

establish, publish, and make known to all employees, procedures for ensuring immediate removal to a hospital, or doctor's care, persons, including employees, who may have been injured on the project site. Employees should not be permitted to work on the project site before the Contractor has established and made known procedures for removal of injured persons to a hospital or a doctor's care.

All work under this contract shall be performed in a safe manner. The Contractor and all Subcontractors shall observe all rules and regulations of the Washington State Department of Labor and Industries, rules and regulations of OSHA, WISHA or any other jurisdiction, and all other applicable safety standards. The Contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the Work. This requirement shall apply continuously and not be limited to normal working hours.

The Engineer's and Contracting Agency's review of the Contractor's work plan, safety plan, schedule or performance does not and is not intended to include review or approval of the adequacy of the Contractor's safety measures in, on, or near the construction site. The Engineer or Contracting Agency does not purport to be a safety expert, is not engaged in that capacity under the Contract, and has neither the authority nor the responsibility to enforce construction safety laws, rules, regulations or procedures, or to order the stoppage of Work for claimed violations thereof.

The Contractor shall exercise every precaution at all times for the prevention of accidents and the protection of persons (including employees and property). All exposed moving parts of equipment capable of inflicting injury by accidental contact shall be protected with sturdy removable guards in accordance with applicable safety regulations.

1-07.2 State Sales Tax

Delete this section, including its sub-sections, in its entirety and replace it with the following:

1-07.2 State Sales Tax *(October 1, 2005 APWA GSP)*

1-07.2(1) General

The Washington State Department of Revenue has issued special rules on the State sales tax. Sections 1-07.2(1) through 1-07.2(4) are meant to clarify those rules. The Contractor should contact the Washington State Department of Revenue for answers to questions in this area. The Contracting Agency will not adjust its payment if the Contractor bases a bid on a misunderstood tax liability.

The Contractor shall include all Contractor-paid taxes in the unit bid prices or other contract amounts. In some cases, however, state retail sales tax will not be included. Section 1-07.2(3) describes this exception.

The Contracting Agency will pay the retained percentage only if the Contractor has obtained from the Washington State Department of Revenue a certificate showing that all contract-related taxes have been paid (RCW 60.28.050). The Contracting Agency may deduct from its payments to the Contractor any amount the Contractor may owe the Washington State Department of Revenue, whether the amount owed relates to this contract or not. Any amount so deducted will be paid into the proper State fund.

1-07.2(2) State Sales Tax — Rule 171

WAC 458-20-171, and its related rules, apply to building, repairing, or improving streets, roads, etc., which are owned by a municipal corporation, or political subdivision of the state, or by the United States, and which are used primarily for foot or vehicular traffic. This includes storm or combined sewer systems within and included as a part of the street or road drainage system and power lines when such are part of the roadway lighting system. For work performed in such cases, the Contractor shall include Washington State Retail Sales Taxes in the various unit bid item prices, or other contract amounts, including those that the Contractor pays on the purchase of the materials, equipment, or supplies used or consumed in doing the work.

1-07.2(3) State Sales Tax — Rule 170

WAC 458-20-170, and its related rules, apply to the constructing and repairing of new or existing buildings, or other structures, upon real property. This includes, but is not limited to, the construction of streets, roads, highways, etc., owned by the state of Washington; water mains and their appurtenances; sanitary sewers and sewage disposal systems unless such sewers and disposal systems are within, and a part of, a street or road drainage system; telephone, telegraph, electrical power distribution lines, or other conduits or lines in or above streets or roads, unless such power lines become a part of a street or road lighting system; and installing or attaching of any article of tangible personal property in or to real property, whether or not such personal property becomes a part of the realty by virtue of installation.

For work performed in such cases, the Contractor shall collect from the Contracting Agency, retail sales tax on the full contract price. The Contracting Agency will automatically add this sales tax to each payment to the Contractor. For this reason, the Contractor shall not include the retail sales tax in the unit bid item prices, or in any other contract amount subject to Rule 170, with the following exception.

Exception: The Contracting Agency will not add in sales tax for a payment the Contractor or a subcontractor makes on the purchase or rental of tools, machinery, equipment, or consumable supplies not integrated into the project. Such sales taxes shall be included in the unit bid item prices or in any other contract amount.

1-07.2(4) Services

The Contractor shall not collect retail sales tax from the Contracting Agency on any contract wholly for professional or other services (as defined in Washington State Department of Revenue Rules 138 and 244).

1-07.5 Environmental Regulations

Section 1-07.5 is supplemented with Section 01060 of the Special Provisions and the following:

(August 3, 2009 WSDOT GSP)

Environmental Commitments

The following Provisions summarize the requirements, in addition to those required elsewhere in the Contract Documents. Throughout the work, the Contractor shall comply with the following requirements:

General

The Contractor shall ensure that the Project Manager representing the Contractor and all Subcontractors has read and understands this Special Provision. Prior to commencing any work on site, the Contractor shall provide the Contracting Agency with a signed statement from the Contractor stating that the Contractor's Project Manager has read, understands and will abide by the conditions of this Special Provision. The statement may be included as part of the Environmental Protection Plan submitted under Section 01060 of the Special Provisions.

Wetlands and Water Quality

The following restrictions and requirements pertain to work throughout the project limits:

Areas set aside for wash out of trucks, pumping equipment, and tools shall be approved by the Contracting Agency. This area shall not have any possibility of draining to storm drainage infrastructure or waters of the State including wetlands.

All water generated by the dredging and dewatering processes shall be controlled and contained, and disposed of to the treatment lagoons with no possibility of entry to waters of the State, including wetlands.

Payment

All costs to comply with this special provision for the environmental commitments and requirements are incidental to the contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the associated bid prices of the contract.

1-07.6 Permits and Licenses

Section 1-07.6 is supplemented with Section 01060 of the Special Provisions.

1-07.17 Utilities and Similar Facilities
(March 2016 COS)

This Section is supplemented with the following:

Locations and dimensions shown in the Reference Drawings for existing facilities are in accordance with available information obtained without uncovering, measuring or other verification.

Utility Locations

The following addresses and telephone numbers of utility companies known or suspected of having facilities within the project limits are supplied for the Contractor's convenience in the table below:

Water City of Snohomish Joe Palmer Water Division Lead 425-328-0068	Sewer and Storm Drain City of Snohomish Dereck DeBardi Sewer and Water Division Lead 425-328-6251
Power Snohomish County PUD 360-563-2218	Phone Frontier Marsha Hall 425-231-4609
Cable Comcast Casey Brown 425-754-0064	

1-07.17(2) Utility Construction, Removal, or Relocation by Others
(March 2016 COS)

Delete this Section in its entirety and replace with the following:

Any authorized agent of the Contracting Agency or utility owners may enter the right-of-way to repair, rearrange, alter, or connect their equipment. The Contractor shall cooperate with such effort and shall avoid creating delays or hindrances to those doing the work. As needed, the Contractor shall arrange to coordinate work schedules.

The Contractor shall carry out the Work in a way that will minimize interference and delay for all forces involved. Any costs incurred prior to the utility owners anticipated completion (or if no completion is specified, within a reasonable period of time) that results from the coordination and prosecution of the Work regarding utility adjustment, relocation, replacement, or construction shall be at the Contractor's expense.

Payment

All costs to comply with this Section and repair specified in this Section, unless otherwise stated, are incidental to the Contract and are the responsibility of the Contractor. The Contractor shall include all related costs in the bid prices of the Contract.

1-07.18 Public Liability and Property Damage Insurance

Delete this section in its entirety, and replace it with the following:

1-07.18 Insurance

(May 10, 2006 APWA GSP)

1-07.18(1) General Requirements

- A. The Contractor shall obtain the insurance described in this section from insurers approved by the State Insurance Commissioner pursuant to RCW Title 48. The insurance must be provided by an insurer with a rating of A-: VII or higher in the A.M. Best's Key Rating Guide, which is licensed to do business in the state of Washington (or issued as a surplus line by a Washington Surplus lines broker). The Contracting Agency reserves the right to approve or reject the insurance provided, based on the insurer (including financial condition), terms and coverage, the Certificate of Insurance, and/or endorsements.
- B. The Contractor shall keep this insurance in force during the term of the contract and for thirty (30) calendar days after the Physical Completion date, unless otherwise indicated (see C. below).
- C. If any insurance policy is written on a claim made form, its retroactive date, and that of all subsequent renewals, shall be no later than the effective date of this Contract. The policy shall state that coverage is claims made, and state the retroactive date. Claims-made form coverage shall be maintained by the Contractor for a minimum of 36 months following the Final Completion or earlier termination of this contract, and the Contractor shall annually provide the Contracting Agency with proof of renewal. If renewal of the claims made form of coverage becomes unavailable, or economically prohibitive, the Contractor shall purchase an extended reporting period ("tail") or execute another form of guarantee acceptable to the Contracting Agency to assure financial responsibility for liability for services performed.
- D. The insurance policies shall contain a "cross liability" provision.
- E. The Contractor's and all subcontractors' insurance coverage shall be primary and non-contributory insurance as respects the Contracting Agency's insurance, self-insurance, or insurance pool coverage.
- F. All insurance policies and Certificates of Insurance shall include a requirement providing for a minimum of 45 days prior written notice to the Contracting Agency of any cancellation in any insurance policy.

- G. Upon request, the Contractor shall forward to the Contracting Agency a full and certified copy of the insurance policy(s).
- H. The Contractor shall not begin work under the contract until the required insurance has been obtained and approved by the Contracting Agency.
- I. Failure on the part of the Contractor to maintain the insurance as required shall constitute a material breach of contract, upon which the Contracting Agency may, after giving five (5) working days notice to the Contractor to correct the breach, immediately terminate the contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the Contracting Agency on demand, or at the sole discretion of the Contracting Agency, offset against funds due the Contractor from the Contracting Agency.
- J. All costs for insurance shall be incidental to and included in the unit or lump sum prices of the contract and no additional payment will be made.

1-07.18(2) Additional Insured

All insurance policies, with the exception of Professional Liability and Workers Compensation, shall name the following listed entities as additional insured(s):

- the Contracting Agency and its officers, elected officials, employees, agents, and volunteers

The above-listed entities shall be additional insured(s) for the full available limits of liability maintained by the Contractor, whether primary, excess, contingent or otherwise, irrespective of whether such limits maintained by the Contractor are greater than those required by this Contract, and irrespective of whether the Certificate of Insurance provided by the Contractor pursuant to 1-07.18(3) describes limits lower than those maintained by the Contractor.

1-07.18(3) Subcontractors

Contractor shall ensure that each subcontractor of every tier obtains and maintains at a minimum the insurance coverages listed in 1-07.18(5)A and 1-07.18(5)B. Upon request of the Contracting Agency, the Contractor shall provide evidence of such insurance.

1-07.18(4) Evidence of Insurance

The Contractor shall deliver to the Contracting Agency a Certificate(s) of Insurance and endorsements for each policy of insurance meeting the requirements set forth herein when the Contractor delivers the signed Contract for the work. The certificate and endorsements must conform to the following requirements:

1. An ACORD certificate or a form determined by the Contracting Agency to be equivalent.
2. Copies of all endorsements naming Contracting Agency and all other entities listed in 1-07.18(2) as Additional Insured(s), showing the policy number. The Contractor may submit a copy of any blanket additional insured clause from its policies instead of a separate endorsement. A statement of additional insured status on an ACORD Certificate of Insurance shall not satisfy this requirement.

3. Any other amendatory endorsements to show the coverage required herein.

1-07.18(5) Coverages and Limits

The insurance shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve the Contractor from liability in excess of such limits. All deductibles and self-insured retentions must be disclosed and are subject to approval by the Contracting Agency. The cost of any claim payments falling within the deductible shall be the responsibility of the Contractor.

1-07.18(5)A Commercial General Liability

A policy of Commercial General Liability Insurance, including:

- Per project aggregate
- Premises/Operations Liability
- Products/Completed Operations – for a period of one year following final acceptance of the work.
- Personal/Advertising Injury
- Contractual Liability
- Independent Contractors Liability
- Stop Gap / Employers’ Liability
- Explosion, Collapse, or Underground Property Damage (XCU)

Such policy must provide the following minimum limits:

- \$1,000,000 Each Occurrence
- \$3,000,000 General Aggregate
- \$1,000,000 Products & Completed Operations Aggregate
- \$1,000,000 Personal & Advertising Injury, each offence
- Stop Gap / Employers’ Liability
- \$1,000,000 Each Accident
- \$1,000,000 Disease - Policy Limit
- \$1,000,000 Disease - Each Employee

1-07.18(5)B Automobile Liability

Automobile Liability for owned, non-owned, hired, and leased vehicles, with an MCS 90 endorsement and a CA 9948 endorsement attached if “pollutants” are to be transported. Such policy(ies) must provide the following minimum limit:

- \$1,000,000 combined single limit

1-07.18(5)C Workers’ Compensation

The Contractor shall comply with Workers’ Compensation coverage as required by the Industrial Insurance laws of the state of Washington.

1-07.18(5)F Excess or Umbrella Liability

The Contractor shall provide Excess or Umbrella Liability coverage at limits of \$2,000,000 per occurrence and annual aggregate. This excess or umbrella liability coverage shall apply, at a minimum, to both the Commercial General and Auto insurance policy coverage.

1-07.24 Rights of Way

(October 1, 2005 APWA GSP)

Delete this section in its entirety, and replace it with the following:

Limits of project activity are indicated in the Reference Drawings. The Contractor's work activities shall be confined within these limits, unless arrangements for use of private property or other City property are made.

Whenever any of the work is accomplished on or through property other than public property or right of way, the Contractor shall meet and fulfill all covenants and stipulations of any easement agreement obtained by the Contracting Agency from the owner of the private property. However, no easements or rights of entry have been acquired nor are deemed necessary for completion of the work and are considered optional.

The Contractor shall not proceed with any portion of the work in areas where right of way, easements or rights of entry have not been acquired until the Contracting Agency certifies to the Contractor that the right of way or easement is available or that the right of entry has been received. Each property owner shall be given 48 hours notice prior to entry by the Contractor.

The Contractor shall be responsible for providing, without expense or liability to the Contracting Agency, any additional land and access thereto that the Contractor may desire for temporary construction facilities, storage of materials, or other Contractor needs. However, before using any private property, whether adjoining the work or not, the Contractor shall file with the Contracting Agency a written permission of the private property owner, and, upon vacating the premises, a written release from the property owner of each property disturbed or otherwise interfered with by reasons of construction pursued under this contract. The statement shall be signed by the private property owner, or proper authority acting for the owner of the private property affected, stating that permission has been granted to use the property and all necessary permits have been obtained or, in the case of a release, that the restoration of the property has been satisfactorily accomplished. The statement shall include the parcel number, address, and date of signature. Written releases must be filed with the Contracting Agency before the Completion Date will be established.

1-08 PROSECUTION AND PROGRESS

Add the following new section:

1-08.0 Preliminary Matters
(May 25, 2006 APWA GSP)

Add the following new section:

1-08.0(1) Preconstruction Conference
(October 10, 2008 APWA GSP)

Prior to the Contractor beginning the work, a preconstruction conference will be held between the Contractor, the Engineer, the Contracting Agency and such other interested parties as may be invited. The purpose of the preconstruction conference will be:

1. To review the initial work schedule;
2. To establish a working understanding among the various parties associated or affected by the work;
3. To establish and review procedures for progress payment, notifications, approvals, submittals, etc.;
4. To establish normal working hours for the work;
5. To review safety standards and traffic control; and
6. To discuss such other related items as may be pertinent to the work.

The Contractor shall prepare and submit at the preconstruction conference the following:

1. A preliminary work schedule;
2. A preliminary outline of the work plan; and
3. A list of material sources for approval, if applicable.

Add the following new section:

1-08.0(2) Hours of Work
(May 25, 2006 APWA GSP)

Except in the case of emergency or unless otherwise approved by the Contracting Agency, the normal straight time working hours for the contract shall be a consecutive 8-hour period between 7:00 a.m. and 6:00 p.m. with a maximum 1-hour lunch break Monday through Friday, unless otherwise approved by the Contracting Agency. The normal straight time 8-hour working period for the contract shall be established at the preconstruction conference or prior to the Contractor commencing the work.

If a Contractor desires to perform work on holidays, Saturdays, Sundays, or before 7:00 a.m. or after 6:00 p.m. on any day, the Contractor shall apply in writing to the Contracting Agency for permission to work such times. Permission to work longer than an 8-hour period between 7:00 a.m. and 6:00 p.m. is not required. Such requests shall be submitted to the Contracting Agency no later than noon on the working day prior to the day for which the Contractor is requesting permission to work.

Permission to work between the hours of 10:00 p.m. and 7:00 a.m. during weekdays and between the hours of 10:00 p.m. and 9:00 a.m. on weekends or holidays may also be subject to noise control requirements. Approval to continue work during these hours may be revoked at any time the Contractor exceeds the Contracting Agency's noise control regulations or complaints are received from the public or adjoining property owners regarding the noise from the Contractor's operations. The Contractor shall have no claim for damages or delays should such permission be revoked for these reasons.

Permission to work Saturdays, Sundays, holidays or other than the agreed upon normal straight time working hours Monday through Friday may be given subject to certain other conditions set forth by the Contracting Agency. These conditions may include but are not limited to: requiring the Contracting Agency to be present during the work; requiring the Contractor to reimburse the Contracting Agency for the costs in excess of straight-time costs for Contracting Agency employees who worked during such times, on non Federal aid projects; considering the work performed on Saturdays, Sundays, and holidays as working days with regards to the contract time; and considering multiple work shifts as multiple working days with respect to contract time even though the multiple shifts occur in a single 24-hour period. Assistants may include, but are not limited to, WWTP staff, inspectors and other Contracting Agency employees when in the opinion of the Contracting Agency, such work necessitates their presence.

1-08.4 Notice to Proceed and Prosecution of the Work

(October 1, 2005 APWA GSP)

Notice to Proceed will be given after the contract has been executed and the contract bond and evidence of insurance have been approved and filed by the Contracting Agency. The Contractor shall not commence with the work until the Notice to Proceed has been given by the Contracting Agency. The Contractor shall commence construction activities on the project site within ten (10) working days of the Notice to Proceed Date, unless otherwise approved in writing. The Contractor shall diligently pursue the work to the physical completion date within the time specified in the contract. Voluntary shutdown or slowing of operations by the Contractor shall not relieve the Contractor of the responsibility to complete the work within the time(s) specified in the contract.

1-08.5 Time for Completion

(March 2016 COS)

Delete this Section in its entirety and replace with the following:

The Contractor shall complete all Contract Work within the number of "working days" stated in the Contract Provisions or as extended by the Contracting Agency in accordance with Section 1-08.8. In lieu of approved extensions, the Contract Work will be performed within a 90 day duration. Every day will be counted as a "working day" unless it is a nonworking day or a Contracting Agency determined unworkable day. A nonworking day is defined as a Saturday, a Sunday, a day on which the Contract specifically suspends Work, or one of these

holidays: January 1, the third Monday of January, the third Monday of February, Memorial Day, July 4, Labor Day, November 11, Thanksgiving, and Christmas Day. When any of these holidays fall on a Sunday, the following Monday shall be counted a nonworking day. When the holiday falls on a Saturday, the preceding Friday shall be counted a nonworking day. The days between December 25 and January 1 will be classified as nonworking days, provided the Contractor actually suspends performance of the Work.

Any unworkable day is defined as a half or whole day the Contracting Agency declares to be unworkable because of weather or conditions caused by the weather that prevents satisfactory and timely performance of the Work shown on the critical path of the Contractor's approved progress schedule. Other conditions beyond the control of the Contractor may qualify for an extension of time in accordance with Section 1-08.8.

The Contract time shall begin on the first working day following the 10th calendar day after the issuance of the written notice to proceed or the first day on which the Contractor begins to perform Work on the site, whichever first occurs, unless approved otherwise by the Contracting Agency. The Contract Provisions may specify another starting date for the Contract time, in which case time will begin on the starting date specified.

Each working day shall be charged to the Contract as it occurs until the Work is physically complete. If requested by the Contractor in writing, the Contracting Agency will provide the Contractor with a weekly statement that shows the number of working days: (1) charged to the Contract the week before; (2) specified for the substantial and physical completion of the Contract; and (3) remaining for the physical completion of the Contract. The statement will also show the nonworking days and any partial or whole days that the Contracting Agency determines to be unworkable. If the Contractor disagrees with any statement issued by the Contracting Agency, the Contractor shall submit a written protest within 10 calendar days after the date of the statement. The protest shall be sufficiently detailed to enable the Contracting Agency to ascertain the basis for the dispute and the amount of time disputed. Any statement that is not protested by the Contractor as required in this Section shall be deemed as having been accepted. If the Contractor elects and is approved by the Contracting Agency to work 10 hours a day for four days a week (a 4-10 schedule), the fifth day of the week of that week will be charged as a working day if that day would be chargeable as a working day if the Contractor had not elected to utilize the 4-10 schedule.

The Contracting Agency will give the Contractor written notice of the Completion Date of the Contract after all of the Contractor's obligations under the Contract have been performed by the Contractor. The following events must occur before the Completion Date will be established:

1. The physical Work on the project must be complete; and
2. The Contractor must furnish all documentation required by the Contract and required by law, to allow the Contracting Agency to process final acceptance of the Contract. The following documents must be received by the Contracting Agency prior to establishing a Completion Date:

- a. Certified payrolls (Federal-aid projects);
- b. Material acceptance certification documents;
- c. Annual report of amounts paid as MBE/WBE participants or quarterly report of amounts credited as DBE participation, as required by the Contract Provisions
- d. Final Contract voucher certification;
- e. Property owner releases if needed as required by Section 1-07.24.

1-08.7 Maintenance During Suspension
(October 1, 2005 APWA GSP)

Revise the second paragraph to read:

At no expense to the Contracting Agency, the Contractor shall provide through the construction area a safe, smooth, and unobstructed roadway, sidewalk, and path for use by the WWTP staff and public, where such access would normally be provided, during suspension (as required in Section 1-07.23 or the Special Provisions). This may include a temporary access road or pathway.

1-09 MEASUREMENT AND PAYMENT

1-09.1 Measurement of Quantities

Section 1-09.1 is replaced by Section 01025 of the Special Provisions.

1-09.6 Force Account

(October 10, 2008 APWA GSP)

Supplement this section with the following:

The Contracting Agency has estimated and included in the Proposal, dollar amounts for all items to be paid per force account, only to provide a common proposal for Bidders. All such dollar amounts are to become a part of Contractor's total bid. However, the Contracting Agency does not warrant expressly or by implication that the actual amount of work will correspond with those estimates. Payment will be made on the basis of the amount of work actually authorized by Engineer.

1-09.9 Payments

Section 1-09.9 is replaced by Section 01025 of the Special Provisions.

1-09.13(3) Claims \$250,000 or Less
(October 1, 2005 APWA GSP)

Delete this Section and replace it with the following:

The Contractor and the Contracting Agency mutually agree that those claims that total \$250,000 or less, submitted in accordance with Section 1-09.11 and not resolved by nonbinding ADR processes, shall be resolved through litigation unless the parties mutually agree in writing to resolve the claim through binding arbitration.

SECTION 01010

SUMMARY OF WORK AND CONTRACT CONSIDERATIONS

1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. The City of Snohomish (Owner) owns and operates a lagoon-based wastewater treatment plant (WWTP) with operation and control facilities located in the southwestern part of the City. The WWTP consists of a headworks structure (flow measurement, influent pumping and screening), a multi-cell lagoon system with submerged fixed film (SFF) media, effluent filtration and a chlorine contact basin.

The two existing automatic transfer switches (ATSs) at the emergency motor control centers (EMCCs) for the WWTP that are connected to backup power have not been switching properly when the backup generator is routinely exercised. These switches are old and appear to be failing. This project will replace both ATSs with new switches and appurtenances.

1.02 TYPE OF CONTRACT

- A. The Work covered by these Contract Documents shall be provided under a single Contract.

1.03 WORK SEQUENCE

- A. The WWTP must remain in operation at all times. Prior to starting the work, confer with the Owner to develop a work schedule. Perform the work in phases to accommodate Owner's continued use and operation of existing facilities. Coordinate schedule with the Owner. Submit a work schedule as specified in 01300. The project shall be completed within thirty (30) calendar days of Notice-to-Proceed.
- B. Hours of operation shall be limited to 7 am to 6 pm Monday through Friday (excluding holidays observed by the Owner) unless separate arrangements are agreed upon with the Owner.

1.04 PROJECT MEETINGS

- A. Prior to beginning the Work, the Contractor and its key personnel and Subcontractors shall attend a project kickoff meeting with the Owner and Engineer. The purpose of the meeting will be to coordinate roles, responsibilities and lines of communication for the project and establish the project schedule.
- B. The Owner will conduct weekly coordination meetings with the Contractor at the job site. Attendance is required by Contractor's project manager and affected Subcontractors. The Owner will prepare, maintain and distribute agenda and dated record of: (1) actions required and taken and (2) decisions and made. During the meeting, the Contractor shall provide input on required actions and decisions.

1.05 CONTRACTOR'S USE OF SITE AND OWNERS CONTINUED OPERATIONS

- A. The Contractor shall confine his use of the site for work and storage to the area local to the work site to minimize interference with the Owner's continued operations.
- B. The Owner intends to continue operation of its existing facility during the project period. The Contractor shall plan and schedule its work to minimize impacting the Owner's continued operations and shall, at all times, maintain safe access for the Owner's operating personnel and equipment.
- C. The Contractor shall be responsible for maintaining safe emergency exiting for the Owner's and Contractor's personnel in all areas affected by the Contractor's work.
- D. If operation of the Owner's existing facility is adversely affected by the Contractor's work, the Owner may suffer a financial loss and may make a claim against the Contractor to recover its loss.

1.06 DOCUMENTING EXISTING

- A. Prior to commencing the Work, the Contractor shall tour the site with the Owner. Examine and document photographically and in writing the condition of existing buildings, equipment, improvements, and landscape planting on or adjacent to the work site. This record shall serve as a basis for determination of subsequent damage due to the Contractor's operations and shall be signed by all parties making the tour. The Contractor shall record existing conditions with a digital camera. The photo files shall be titled with the date and area of the WWTP and provided in 4x6 print and electronically to the Owner.

1.07 SHUTDOWN OF EXISTING UTILITIES, SERVICES OR OPERATIONS

- A. Obtain the Owner's approval at least seven (7) calendar days prior to shutdown of any utility, service or operation of the existing facility. Give required notice and make appropriate arrangements with utility owners and other affected parties prior to shutdown of any utility service or bypass of treatment units.

1.08 LUMP SUM PRICE WORK

- A. The lump sum quantities listed on the Bid Form shall include all of the Contractor's cost to complete the project including all mobilization, demobilization, labor materials, tools, equipment, permit fees, inspection fees, overhead and profit.

1.09 REFERENCE STANDARDS

- A. When these specifications state that Work or tests shall conform to specific provisions in a referenced standard, specification, code, recommendation or manual published by an association, organization, society or agency, the referenced provisions, as they apply to the Work of the Contractor only, shall be considered a part of these specifications as fully as if included in total. When these specifications or applicable codes contain higher or more restrictive requirements than those contained in reference standards, these specifications or applicable codes shall govern.
- B. The latest edition of a referenced standard published at the time of submission of bids shall apply unless a specific date for the referenced standard is cited in these specifications.

1.10 CONTRACTOR'S QUALITY CONTROL

- A. The Contractor shall be fully responsible for inspecting the work of its subcontractors to assure that the work when completed will comply with the Contract Documents.
- B. Inspections, periodic observations and testing performed by the Owner are for the Owner's benefit and information only and shall not be construed as partial or incremental acceptance of the work and shall not be deemed to establish any duty on the part of the Owner to the Contractor or its subcontractors.

1.11 SAFETY

- A. After the issuance of the Notice-to-Proceed and prior to mobilization, the Contractor shall provide to the Owner a Worker Health and Safety Manual that at a minimum addresses and identifies the following:
 - 1. Policies and Rules
 - 2. Roles and Responsibilities
 - 3. Hazard Assessments
 - 4. Safe Work Practices
 - 5. Use of Personal Protective Equipment
 - 6. Preventative Maintenance
 - 7. Training (Managers , Supervisors, Workers, Subcontractors)
 - 8. Inspections
 - 9. Accident/Injury Investigations
 - 10. Emergency Preparedness
 - 11. Recordkeeping and Reporting
 - 12. Waste Management

END OF SECTION

SECTION 01025

MEASUREMENT AND PAYMENT

1.01 GENERAL

- A. This section covers the method of measuring completed work for payments to the Contractor. No separate or additional measurement and payment will be made for indirect costs, including but not limited to, supervision and overhead, profit, and any work under of these specifications. Such costs shall be considered incidental to the work and shall be included in the various unit price or lump sum bid items, as applicable. No payment will be made for work that is not in compliance with the Contract Documents.

1.02 PROGRESS PAYMENTS

- A. Progress payments for completed work will be based upon progress estimates prepared by the Owner for each bid item as described in Paragraph 1.04 below. A progress estimate cutoff date will be established at the preconstruction conference. The initial progress estimate will be made not later than 30 days after the Contractor commences the work, and successive progress estimates will be made every month thereafter until the Final Completion. Progress estimates made during progress of the work are tentative, and made only for the purpose of determining progress payment. The progress estimates are subject to change at any time prior to the calculation of the Final Payment. Progress payments will be made in accordance with the progress estimates less retainage, the amount of progress payments previously made and funds withheld by the Owner for disbursement in accordance with the Contract Documents.
- B. Progress payments for work performed shall not be evidence of acceptable performance or an admission by the Contracting Agency that any work has been satisfactorily completed.
- C. Payments received on account of work performed by a subcontractor are subject to the provisions of RCW 39.04.250.

1.03 MEASUREMENT AND PAYMENT

- A. The lump sum bid item prices shall constitute full payment for furnishing all labor, tools, equipment, materials, permits and agreements, overhead and profit and performing all operations required to complete the work as defined in the Contract Documents. Notwithstanding the omission or mention of any incidental work, the bid item price and payment shall also constitute full compensation for all work incidental to completion of the bid item, unless such work is otherwise specifically mentioned for separate payment under another bid item.
- B. No measurement will be made for:
 - 1. Work performed beyond the constraints of the bid items;
 - 2. Materials wasted, used, or disposed of in a manner contrary to the Contract;
 - 3. Rejected materials;

4. Hauling and disposing of rejected materials; or
5. Any other work or material contrary to any contract provision.

1.04 BID ITEM DESCRIPTIONS

- A. Bid Item No. 1 - Mobilization and Demobilization:
 1. Measurement shall be measured as lump sum (LS) and will be based on the establishment of project schedule, submittal requirements, receipt of all bonds and insurance policies, obtaining all required permits, transportation of all essential equipment to and from the project site, setting up and taking down equipment, preparing and cleaning up contractor staging areas, and other pre- and post-construction expenses for preparatory and finalizing work and operations performed by the Contractor.
 2. When all submittals have been favorably reviewed, 50 percent of the amount of this bid item will be made at the lump sum price stated in the Bid Schedule.
 3. Upon completion of the project, the remaining 50 percent of the amount of this bid item will be made at the lump sum price stated in the Bid Schedule.

- A. Bid Item No. 2 – WWTP ATS Replacement
 1. Payment shall be based on the bid item lump sum price. Payment shall constitute full compensation for furnishing all labor, tools, equipment, materials, permits and agreements, overhead and profit and performing all operations required to complete the work as defined in the Contract Documents. Notwithstanding the omission or mention of any incidental work, the bid item price and payment shall also constitute full compensation for all work incidental to completion of the bid item, unless such work is otherwise specifically mentioned for separate payment under another bid item.

- B. Bid Item No. 3 – Force Account
 1. A bid allowance of \$5,000 is established for performance of force account work as directed by the Owner. The Owner does not warrant expressly or by implication that the actual amount paid for force account work will correspond to the \$5,000 allowance. Payment will be made based on the work performed and the corresponding costs as authorized in writing by the Owner.

END OF SECTION

SECTION 01060

CODES, PERMITS AND PREVENTION OF ENVIRONMENTAL POLLUTION

1.01 CITY, COUNTY AND STATE LAWS

- A. The Contractor shall comply with the requirements of all city, county, state and federal laws, whether or not stated herein, having specific control over this type of operation.

1.02 FEDERAL, STATE AND LOCAL POLLUTION CONTROL REGULATIONS

- A. Meet all federal, state and local pollution control regulations for all work performed under this contract. No chemicals, petroleum products, biosolids, or other deleterious materials are allowed to fall, flow, leach, or otherwise enter public waters.
- B. Observe all statutes, ordinances, and regulations pertaining to the prevention of environmental pollution and the preservation of public natural resources. All such statutes, ordinances, regulations, or portions thereof pertaining to work performed under this contract are hereby incorporated with and made a part of this contract.
- C. The Contractor shall be aware of these provisions and coordinate with the specific controlling agencies.
- D. The Contractor shall furnish all bonds and insurance required by the controlling agencies and shall, if requested, pay for any inspections and testing accomplished or furnished by them.

1.03 PERMITS

- A. The Contractor shall obtain all required electrical permits and arrange all associated inspections for this project. All permit and inspection fees shall be included in the contractors bid proposal.
- B. The Contractor shall be responsible for obtaining any additional permits required to perform the Work. Any additional permit fees shall be included in the contractors bid proposal.

1.04 ENVIRONMENTAL PROTECTION PLAN

- A. The Contractor shall submit an Environmental Protection Plan that includes the following:
 - 1. Spill Prevention, Control and Countermeasures (SPCC) Plan for the Contractor and Contractor's vehicles and equipment on-site and in-transit.

1.05 STATE AND FEDERAL SAFETY REQUIREMENTS

- A. The Contractor shall include in the work all components and features required for both state and federal safety regulations. Such components and features shall include, but not be specifically limited to, any and all protective devices, guards, restraints, locks, latches, shoring, switches, and other safety provisions that may be required or necessitated by state and federal safety regulations. The Contractor shall determine the specific requirements for safety provisions and shall cause inspections and reports by the appropriate safety authorities to be conducted to insure compliance with the intent of the regulations.
- B. The Contractor shall perform all work in accordance with state and federal safety regulations. Any and all safety procedures and equipment shall be followed and utilized as may be required. All costs for components and features required to meet state and federal safety regulations shall be incidental to performance of the work.

END OF SECTION

SECTION 01300

SUBMITTALS

1.01 SUBMITTAL PROCEDURES

- A. Accompany each submittal with a Submittal form, which contains the following information:
 - 1. Contractor's name and the name of Subcontractor or supplier who prepared the submittal.
 - 2. The project name and submittal number.
 - 3. Description of the submittal and reference to the Contract requirement or technical specification section and paragraph number being addressed.
- B. Submit to the Owner three (3) color hard copies of submittals or a color electronic copy in PDF format via email for each submittal. Follow the procedures described in the paragraphs below.

1.02 PLAN OF OPERATIONS

- A. Submit three copies for information. Include name, address, cell phone number, e-mail address and brief resume of the designated superintendent. Also include a description and contact information for subcontractors and major suppliers, as applicable.
- B. Include location of temporary utility connections and routing, or the utility source if not utilizing a temporary connection to existing utilities (e.g., electrical generator).

1.03 WORK SCHEDULE

- A. Submit three copies for review.
- B. Identify the critical path. If the Construction Schedule does not reflect the specified Work, or the Contract Time, it will be returned to the Contractor for modification.
- C. Give the Owner seven (7) calendar days notice prior to requiring any shutdown of equipment or utilities or bypassing of a lagoon cell.
- D. Give the Owner three (3) calendar days prior notice of normal work days on which Contractor activity will not take place or of scheduled activity that will not take place.

1.04 SUBMITTAL REVIEW

- A. Review Procedure and Meaning:
 - 1. The Owner or Engineer will mark each submittal prior to returning it to the Contractor. The mark will indicate whether or not the review was favorable and what action is required of the Contractor. Review categories "No Exceptions Taken" and "Make Corrections Noted" both indicate Favorable Review.

2. Favorable Review of a submittal does not constitute approval or deletion of items required as part of the submittal but not included with the submittal. Favorable Review of items included in the submittal does not constitute deletion of specified features, options or accessories that were not included in the submittal.
 3. The action required by the Contractor for each category of review is as follows:
 - a. **NO EXCEPTIONS TAKEN.** NO RESUBMITTAL REQUIRED.
 - b. **MAKE CORRECTIONS NOTED.** NO RESUBMITTAL REQUIRED. The Contractor shall make corrections noted and separately submit any related information that is required, but was not included with the submittal.
 - c. **REVISE AND RESUBMIT.** The Contractor shall amend and resubmit the submittal as noted or required to comply with the Contract Documents.
 - d. **REFERENCE ONLY.** The item submitted is required for information only and does not require a response other than acknowledging receipt of the item.
 - e. **SUBMITTAL NOT REQUIRED.** The item submitted is not required to be submitted.
 4. The submittal review form accompanying the returned submittal may contain numbered notes. Marking a corresponding number on a submittal shall have the same affect as applying the entire note to the submittal.
- B. Re-submittals that contain changes that were not requested by the Owner or Engineer on the previous submittal shall be accompanied by a letter explaining the change.
- C. Favorable Review Required Prior to Proceeding: Do not proceed with work prior to obtaining Favorable Review of related submittals.
- D. Intent and Limitation on Owner's or Engineer's Review:
1. The Contractor has primary responsibility for submitting and providing work that complies with the requirements of the Contract Documents. That responsibility cannot be delegated in whole or in part to subcontractors or suppliers. Neither Favorable Review nor the Owner's failure to notice or comment on deficiencies in the Contractor's submittals shall relieve the Contractor from the duty to provide work, which complies with the requirements of the Contract Documents.

1.05 LIST OF SUBMITTALS

<i>SUBMITTAL</i>	<i>SECTION</i>
DIVISION 0 SUBMITTALS <ul style="list-style-type: none"> • BID PROPOSAL • STATEMENT OF BIDDER QUALIFICATIONS • DEPOSIT OR BID BOND FORM • ANTI-DISCRIMINATION CERTIFICATE • INDEMNIFICATION ADDENDUM • CERTIFICATION OF NON-SEGREGATED FACILITIES • CERTIFICATION OF PERMITTED BUF • CERTIFICATE OF INSURANCE • ESCROW AGREEMENT (IF APPLICABLE) 	SEE PROPOSAL FORMS

WORK SCHEDULE	01010 1.03 & 01300 1.03
DOCUMENTATION OF EXISTING CONDITIONS	01010 1.06
WORKER HEALTH AND SAFETY MANUAL	01010 1.11
ENVIRONMENTAL PROTECTION PLAN <ul style="list-style-type: none"> • SPCC PLAN 	01060 1.04
PLAN OF OPERATIONS <ul style="list-style-type: none"> • SUPERINTENDENT, SUPPLIER, SUBCONTRACTOR INFORMATION • PLAN FOR INTENDED USE OF SITE • TESTING FACILITY INFORMATION 	01300 1.02
ACTION ITEM LIST	01700 1.02
PROJECT CLOSEOUT CHECKLIST	01700 1.04-A
DIVISION 26 SUBMITTALS	SEE SECTION 26 00 00

END OF SECTION

SECTION 01530

TEMPORARY FACILITIES AND UTILITIES

1.01 GENERAL

- A. This section describes utility access on-site at the WWTP.

1.02 TEMPORARY POWER

- A. The Contractor is required to make all necessary temporary connections to provide power necessary to accomplish the Work. All temporary connections must meet current applicable codes and be made in a manner to assure the safety of Contractor and WWTP staff. All temporary connections must be made by licensed personnel, if required by current code or regulation and in coordination with the Owner and WWTP staff.
- B. 120-volt electrical service for total electrical loads not exceeding 20 amps is available for Contractor's use during this project. The Contractor may make use of available electrical outlets that are not already in use or will not be required by the Owner or WWTP staff for the duration of the project. Any additional power requirements shall be the responsibility of the Contractor to provide by means of a temporary connection to available power (complete with ground fault and over-current protections) or an electrical generator. Electrical generator shall be provided in a sound attenuating enclosure. The Contractor will not be charged by the Owner for onsite power consumption.

1.03 SANITARY FACILITIES

- A. The Contractor shall provide chemical toilets or water closets at appropriate locations within the project site for use by its employees and subcontractors. At the end of the job such toilets shall be removed completely.
- B. The facilities shall conform to governing code requirements and be serviced, cleaned and disinfected frequently.

END OF SECTION

SECTION 01700

CONTRACT CLOSEOUT

1.01 FINAL CLEANUP

- A. Prior to Final Inspection, clean the entire construction area and all other areas affected by the performance of work under this Contract. Identify any areas that were damaged as the result of Contractor activity and perform repair work using personnel skilled in executing the type of work being repaired. Perform all work to the highest trade standards applicable to that type of work.
 - 1. Remove all tools, equipment, excess material and debris. Contractor shall be responsible for disposal of all surplus material, waste products and debris.
 - 2. Repair, patch or replace new or existing work that have been damaged, broken, cracked or chipped as a result of performing this Work.
 - 4. Remove all grease and oil stains on pavement caused by Contractor's equipment.

1.02 CONTRACTOR'S ACTION LIST OF ITEMS TO BE CORRECTED AND/OR COMPLETED

- A. During construction, the Contractor shall maintain an action list of items to be corrected and/or completed. The Contractor shall regularly add items and update the list as information becomes available or as requested by the Owner. The Contractor shall use this list to report on progress at each weekly progress meeting.

1.03 INSPECTION, FINAL COMPLETION AND FINAL PAYMENT

- A. When the Contractor has completed or corrected all the items on its list, the Contractor shall give the Owner written notice that the Work is ready for inspection. The Owner shall make note of any deficiencies, generate a punch list, and notify the Contractor in writing of the need to correct the identified deficiencies. When the Owner finds the Work acceptable and fully complete in accordance with the Contract Documents, and upon receipt of a final Application for Payment and completion of all items on the project closeout checklist (see Paragraph 1.04 below), the Owner will issue a Notice of Final Completion, make Final Payment and Accept the Work.
- B. The Owner will make Final Payment less contract retainage to the Contractor, take the project to a City council meeting for final acceptance and closeout and then record the Notice of Final Completion. Retainage will be released upon release approval from all required state agencies.

1.04 PROJECT CLOSEOUT CHECKLIST

- A. The following are the documents required to be on file with the City of Snohomish prior to release of retainage to the Contractor.

No.	Document	Generated by	Contact	Date Received by City
1	Contractor's Notification to City of Completion of Contract Work	Contractor	City Engineer	
2	Recommendation of Project Acceptance	City / Project Engineer	City Engineer	
3	Final Project Acceptance	City / Council	City Engineer	
4	Intent to Pay Prevailing Wages	Contractor	Dept. of Labor & Industries	
5	Notification of Completion to Department of Revenue	City / City Treasurer	Dept. of Revenue Excise Tax Division	
6	Affidavit of Wages Paid	Contractor	Dept. of Labor & Industries	
7	Certificate of Payment State Excise Tax by Public Works Contractor	State	Dept of Revenue Excise Tax Division	
8	Release Regarding Industrial Insurance	City	City Engineer	
9	Certification of Payment of Contributions	State	Dept. of Employment Security	
10	Receipt for Payment in full or Release of Lien signed by Lien Claimant and filed with City	Contractor	All claims against retainage or payment Bond filed with the City	

END OF SECTION

SECTION 3

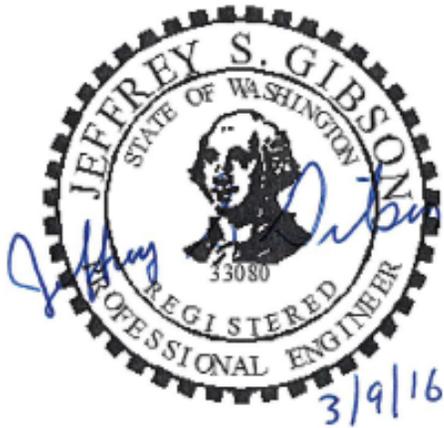
TECHNICAL SPECIFICATIONS

CERTIFICATE PAGE

CITY OF SNOHOMISH

WWTP ATS REPLACEMENT PROJECT
TECHNICAL SPECIFICATIONS

The engineering material and data contained in these Technical Specifications were prepared under the supervision and direction of the undersigned, whose seal as a registered professional engineer is affixed below.





Jeff Gibson, PE, BHC Consultants, LLC

SECTION 26 00 00 ELECTRICAL GENERAL

PART 1 - GENERAL

1.01 SCOPE

This section specifies general requirements for electrical work. Detailed requirements for specific electrical items are specified in other sections but are subject to the general requirements of this section. The electrical drawings and schedules included in this project manual are functional in nature and do not specify exact locations of equipment or equipment terminations.

1.02 DEFINITIONS

- A. The word "**provide**" shall be interpreted to mean furnish and install.
- B. "**Owner**" is the City of Snohomish, WA
- C. "**Contractor**" is the party who furnishes and installs all materials and equipment. This includes the Prime Contractor and all other Contractors and Sub Contractors.

1.03 GENERAL DESCRIPTION OF WORK

- A. The Contractor shall:
 - 1. Provide all labor, material, tools, equipment and services required to complete the furnishing, installation, wiring, connection, calibration, adjustment, testing and operation of all electrical equipment, devices and components as indicated and implied by the plans and these specifications.
 - 2. Provide identification (nameplates and wire tags) of all electrical equipment and wiring.
 - 3. Complete the procurement, installation, wiring, connection, calibration, adjustment, testing and operation of all electrical devices, components, accessories and equipment which is not shown or specified but which is nonetheless required to make the systems shown and specified function properly.
 - 4. Provide detailed wiring diagrams showing all equipment and instrumentation connections and terminations.
 - 5. Check electrical equipment prior to installation so that defective equipment is not installed. Do not begin demolition or replacement until replacement parts are on site and have been properly checked.
 - 6. Provide start-up, follow-up and training of the Owner's personnel for electrical systems. Make all corrective measures required during start-up. See specific requirements for training and start-up in other specification sections.

7. Provide field services of qualified technicians to supervise and check out the installation of the equipment, to supervise and check out interconnecting wiring, to conduct start-up of operation of the equipment, and to correct any problems, which occur during start-up.
8. Provide independent listing agency approval and field certification of motor control centers that are modified under this contract.

1.04 EQUIPMENT COORDINATION

- A. The Contractor is responsible to coordinate the equipment supplied from other manufacturers. This includes but is not limited to:
 1. Obtaining specific information on equipment ratings and sizes and verifying the electrical components supplied meet, or match the requirements such as voltage, phase, frequency, starter types, etc.
 2. Verifying the equipment supplied will fit within the space allocated.
 3. Coordination of equipment and the electrical power and control requirements provided in all sections of the specifications and drawings.
 4. Providing all necessary control wiring and components for any special requirements from an equipment manufacturer.
- B. The Contractor shall verify as a minimum:
 1. Correct voltage, phase and frequency.
 2. Size and space requirements.
 3. Mounting requirements.
 4. Proper coordination with the controls.
- C. Any discrepancies between the electrical and other equipment shall be brought to the immediate attention of the Owner.

1.05 PROJECT DESCRIPTION

- A. In general the project consists of replacement of two automatic transfer switches mounted in existing motor control centers.
 1. Provide O&M, record drawings and training.

1.06 TEMPORARY OPERATION AND CONSTRUCTION POWER

- A. Facility Operation Power:
 1. Provide temporary power service for critical facility operation during construction as indicated on the plans. Provide power and control systems, circuits and components, and connections for all motors and equipment that remain in operation during construction. The Contractor shall pay for all construction costs for temporary facility power.
 2. Any necessary modifications to the existing electrical system for temporary or construction power shall be coordinated and paid for by the Contractor

1.07 STANDARDS AND CODES

- A. Permits, licenses, approvals and other arrangements for work shall be obtained and paid for by the Contractor and included in the bid price.
- B. Electrical work shall be executed in strict accordance with the latest edition of the National Electrical Code and local ordinances and regulations.
- C. All electrical equipment, materials, construction methods, tests and definitions shall be in strict conformity with the established standards of the following in their latest adopted revision:
 - 1. Underwriters' Laboratories, Inc. (UL)
 - 2. National Electrical Manufacturers Association (NEMA)
 - 3. Canadian Standards Association (CSA)
 - 4. Electrical Testing Laboratories (ETL)
 - 5. Factory Mutual (FM)
 - 6. All applicable Washington State Codes and local City Codes.
- D. All materials and equipment specified herein shall, within the scope of UL Examination Services, be approved by the Underwriter's Laboratories for the purpose for which they are used and shall bear the UL label.
- E. All materials shall be new, free from defects, of current manufacture, of quality specified or shown. Each type of material shall be of the same manufacturer throughout the work.

1.08 CONTRACT DOCUMENTS

The electrical layouts are generally diagrammatic. The location of equipment is approximate unless dimensioned. Exact locations and routing of conduits shall be governed by structural conditions and physical interference's and by locations of electrical terminations on equipment.

1.09 REFERENCE DOCUMENTS

The Contractor shall refer to the drawings, project data and shop drawings for additional details, which affect the proper installation of the work. Diagrams and symbols showing electrical connections are diagrammatic only, and so do not necessarily show the exact physical arrangement of the equipment.

1.10 SITE FAMILIARIZATION

Before submitting a bid, the Electrical Contractor shall attend a pre-bid site visit and become familiar with all features of the site, which may affect the execution of the work. The Contractor shall take all field measurements necessary for the work and shall assume full responsibility for their accuracy. Any damage to existing equipment shall be repaired or replaced by the Contractor at a cost negotiated with the Owner.

PART 2 - PRODUCTS

2.01 NAMEPLATES

- A. Nameplates shall be provided on all electrical devices, (including but not limited to motor control equipment, MCC cubicles, control stations, junction boxes, panels, motors, instruments, solenoids, switches, indicating lights, meters, and all electrical equipment enclosures.)
- B. Nameplates shall also be provided on all electrical panel interior equipment, including but not limited to: relays, circuit breakers, power supplies, terminals, contactors, and other devices.)
- C. All nameplates shall include the equipment name and number (circuit number and function, if applicable).
- D. Nameplates of all powered equipment (including instruments, motors, control panels, HVAC, etc.) and all switches, disconnects, and receptacles shall have included on the nameplate the power source (circuit and panel number, MCP/control pnl and circuit #, or MCC and unit number, etc.) that the equipment is fed from.
- E. Nameplates shall be made of 1/16" thick machine engraved laminated phenolic having black letters not less than 3/16" high on white background or as shown on the drawings or other sections of the specifications. Nameplates on the interior of panels and on light switches and receptacles shall be White Polyester with printed thermal transfer lettering and permanent pressure sensitive acrylic; TYTON 822 or equal.
- F. All nameplates shall include the equipment name and number (and function, and circuit number if applicable).
- G. Provide warning nameplates on all panels and equipment, which contain multiple power sources. Lettering shall be white on red background.
- H. Provide information or warning nameplates as required by the NEC or electrical inspector for identification of service disconnects, multiple service disconnects etc
- I. Nameplates shall be secured to equipment with stainless steel screws/fasteners/straps. Epoxy glue may be used where fasteners are not practical if first approved by the Engineer.

2.02 WIRE MARKERS

- A. Each power and control conductor shall be identified at each terminal to which it is connected. Conductors size No. 10 AWG or smaller shall have identification sleeves. Conductors shall be identified in accordance with the Owner's standard.

- B. The letters and numbers that identify each wire shall be machine printed on sleeves with permanent black ink. The figures shall be 1/8 inch high. Sleeves shall be white tubing, sized to fit the conductor insulation. The sleeves shall be shrunk to fit the conductor with hot air after installation.
- C. They shall be TMS Thermofit Marker System by Raychem Co., sleeve style wire marking system by W.H. Brady Co., or equal. Adhesive strips are not acceptable. Conductors No. 8 AWG and larger shall use cable markers of the locking tab type. Tabs shall be white plastic with conductor identification number permanently embossed.

2.03 THERMAL (TEMPERATURE) RATINGS OF EQUIPMENT TERMINATIONS

- A. Wiring and circuit breakers on this project are designed for 75°C operation above 30 amperes; 60°C for 30 amperes and below.
- B. All products furnished on this project shall have electrical terminations rated for 60°C for ampacities of 30 amperes or less and rated for 75°C for ampacities above 30 amperes.

PART 3 - EXECUTION

3.01 STORAGE AND INSTALLATION ENVIRONMENT

All electrical equipment shall be stored in a dry environment free from dust, moisture, sprays or vapors, which may be detrimental to their new condition. After installation of equipment, care shall be taken to protect all equipment from all dust, moisture, paint and other spray, harmful vapors, etc. until final acceptance and certificates of occupancy have been obtained.

3.02 SITE INSPECTIONS

- A. Prior to final acceptance the Owner or Owner's representative will perform one or more site observation trips to develop a "punch list" of items deemed incomplete
- B. Each punch list item shall be completed by the Contractor and checked off of the list. When all of the items on the list are completed or commented on, the list shall be signed by the Contractor and returned to the Owner for verification.

3.03 FINAL ACCEPTANCE

- A. When all work is complete, the Contractor shall call the Owner for the final acceptance testing inspections. The Contractor shall be present while these inspections are taking place and shall be available for opening cabinets and operating and adjusting the system as is necessary for the Owner or Owner's representative to verify all equipment is installed and operates to the requirements of the contract documents.

- B. Prior to the Contractor calling for this observation, the Contractor shall have completed all items of work, including wire markers, nameplates, final tests and final test reports. All equipment shall be checked for proper operation and all signals verified for correct calibration and wiring.
- C. Final acceptance will not be given until:
 - 1. All work is complete.
 - 2. All "site inspection" punch-lists are checked off and returned to the Owner.
 - 3. All site inspection punch-list items are complete and approved by the Owner.
 - 4. All test reports are received.
 - 5. All O&M manuals are received.
 - 6. All project record drawings are received.

3.04 PROJECT RECORD DRAWINGS

- A. A set of drawings shall be maintained at the job site (by the Contractor) showing any deviations in the electrical systems from the original design.
- B. This set of drawings shall be readily available for inspection by the Owner and the Owner's representative at all times.

3.05 GUARANTEE

The Contractor shall guarantee his work and all components thereof, excluding fuses, incandescent and fluorescent lamps for a period of 1 year from date of acceptance of the project. The Contractor shall remedy any defects in workmanship and repair or replace any faulty equipment that shall appear within the guarantee period without additional cost to the Owner.

3.06 CLEANUP

- A. The premises must be kept free of accumulated materials, rubbish and debris at all times. Surplus material, tools and equipment must not be stored at the job site. At the completion of the job, all equipment and fixtures shall be left clean and in proper condition for their intended use.
- B. All motor control equipment and control panels shall be cleaned inside and out at the completion of the project.

3.07 TESTS

- A. Testing for installed feeder cables is required as specified in other Sections. Test reports shall be submitted to the Engineer prior to final acceptance. All tests shall be performed in accordance with the applicable sections of NETA.
- B. Where specified in the individual product specification section, factory tests shall be performed at the place of fabrication and performed on completion of

manufacture or assembly. The costs of factory tests shall be included in the contract price.

3.08 MAINTAINED OPERATION REQUIREMENTS

- A. This wastewater treatment plant is an existing and operating facility. The wastewater treatment plant must remain fully operational during construction. The following are the base requirements.
 - 1. Power must always be available and connected to critical loads as indicated on the drawings – utility power or existing standby generator or contractor furnished trailer mounted generator.
- B. The Contractor shall submit a detailed plan with timelines and dates for the transition of equipment showing how above will be accomplished.
- C. Existing electrical power and control equipment may be relocated and reconnected to the existing equipment for temporary operation during construction.
- D. All changes in plant operations shall be directly coordinated with the Owner. All power outages shall be coordinated with the Owner.

3.09 OPERATION AND MAINTENANCE MANUALS

- A. The Contractor shall prepare and assemble detailed operation and maintenance manuals. The manuals shall be bound in a 3 ring binder and tabbed with an index, in general the O&M manual format shall meet that of the submittal data in section. The manuals shall include, but not be limited to, the following:
 - 1. Catalog data and complete parts list for all equipment and devices.
 - 2. All cut sheets of equipment and components.
 - 3. Preventative maintenance procedures.
 - 4. Trouble-shooting.
 - 5. Calibration.
 - 6. Testing.
 - 7. Replacement of components.
 - 8. Automatic mode operation.
 - 9. Manual mode operation.
 - 10. System schematics / shop drawings and record drawings.
 - 11. As-built wiring diagrams of cabinet and enclosure contained assemblies.
 - 12. As-built wiring diagrams of overall system.
 - 13. Listing of recommended spare parts.
 - 14. Listing of recommended maintenance tools and equipment.

3.10 TRAINING

- A. Training shall be provided per the specific requirements in other Sections of these specifications. The training sessions shall be conducted to educate and train the personnel in operations and maintenance of all components of the

electrical system outside the training requirements in the other Sections.
Training shall include, but not be limited to, the following:

1. Preventative maintenance procedures.
2. Trouble-shooting.
3. Calibration.
4. Testing.
5. Replacement of components.
6. Equipment operation.

END OF SECTION

SECTION 26 36 00 TRANSFER SWITCHES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including all special provisions, apply to this Section.

1.02 SUMMARY

- A. Section includes transfer switches rated 600 V and less, including the following:
 - 1. Automatic transfer switches mounted in existing motor control centers.
 - 2. Independent field evaluations of installed switches

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, weights, operating characteristics, furnished specialties, and accessories.
- B. Shop Drawings: Dimensioned plans, elevations, sections, and details showing minimum clearances, conductor entry provisions, gutter space, installed features and devices, and material lists for each switch specified.

1.04 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer and testing agency.
- B. Manufacturer Seismic Qualification Certification: Submit certification that transfer switches accessories, and components will withstand seismic forces per latest edition of the IBC. Include the following:
 - 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 - a. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 - 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- C. Field quality-control reports.

1.05 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For each type of product to include in emergency, operation, and maintenance manuals. Include the following:
 - 1. Features and operating sequences, both automatic and manual.
 - 2. List of all factory settings of relays; provide relay-setting and calibration instructions, including software, where applicable.
 - 3. Other items as noted in Section 26 00 00 .

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Maintain a service center capable of providing training, parts, and emergency maintenance repairs within a response period of less than eight hours from time of notification.
- B. Field Evaluation Agency Qualifications: An independent agency, with the experience and capability to conduct the inspection/testing indicated, that is a member company of the InterNational Electrical Testing Association or is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7, and is licensed by the state in accordance with WAC 296-46B for field evaluation of electrical equipment, and that is acceptable to authorities having jurisdiction.
 - 1. Field Evaluation Agency's Field Supervisor: Person currently certified by the InterNational Electrical Testing Association or the National Institute for Certification in Engineering Technologies to supervise on-site testing specified in Part 3.
- C. Source Limitations: Obtain automatic transfer switches through one source from a single manufacturer.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- E. Comply with NEMA ICS 1.
- F. Comply with NFPA 70.
- G. Comply with NFPA 110.
- H. Comply with UL 1008 unless requirements of these Specifications are stricter.
- I. Comply with ANSI/UL 845.

1.07 FIELD CONDITIONS

- A. Interruption of Existing Electrical Service: Do not interrupt electrical service to wastewater treatment plant facilities unless permitted under the following conditions and then only after arranging to provide temporary electrical service:
1. Notify Owner no fewer than two days in advance of proposed interruption of electrical service.
 2. Do not proceed with interruption of electrical service without Owner's written permission.

PART 2 - PRODUCTS

2.01 MANUFACTURED UNITS

- A. Contactor Transfer Switches:
1. Basis-of-Design Product: Subject to compliance with requirements, provide GE Zenith Controls or Owner approved equal product by one of the following:
 - a. Cutler Hammer.
 - b. Emerson; ASCO Power Technologies, LP.
 - c. Russelectric, Inc.

2.02 GENERAL TRANSFER-SWITCH PRODUCT REQUIREMENTS

- A. Indicated Current Ratings: Apply as defined in UL 1008 for continuous loading and total system transfer, including tungsten filament lamp loads not exceeding 30 percent of switch ampere rating, unless otherwise indicated.
- B. Tested Fault-Current Closing and Withstand Ratings: Adequate for duty imposed by protective devices at installation locations in Project under the fault conditions indicated, based on testing according to UL 1008.
- C. Solid-State Controls: Repetitive accuracy of all settings shall be plus or minus 2 percent (+/- 2%) or better over an operating temperature range of minus 20°C to plus 70°C.
- D. Resistance to Damage by Voltage Transients: Components shall meet or exceed voltage-surge withstand capability requirements when tested according to IEEE C62.41. Components shall meet or exceed voltage-impulse withstand test of NEMA ICS 1.
- E. Electrical Operation: Accomplish by a nonfused, momentarily energized solenoid or electric-motor-operated mechanism, mechanically and electrically interlocked in both directions.
- F. Switch Characteristics: Designed for continuous-duty repetitive transfer of full-rated current between active power sources.

1. Switch Action: Double throw; mechanically held in both directions.
 2. Contacts: Silver composition or silver alloy for load-current switching. Conventional automatic transfer-switch units, rated 225 A and higher, shall have separate arcing contacts.
- G. Neutral Switching. Where four-pole switches are indicated, provide neutral pole switched simultaneously with phase poles.
- H. Neutral Terminal: Solid and fully rated, unless otherwise indicated.
- I. Factory Wiring: Train and bundle factory wiring and label, consistent with Shop Drawings, either by color-code or by numbered or lettered wire and cable tape markers at terminations.
1. Designated Terminals: Pressure type, suitable for types and sizes of field wiring indicated.
 2. Power-Terminal Arrangement and Field-Wiring Space: Suitable for top, side, or bottom entrance of feeder conductors as indicated.
 3. Control Wiring: Equipped with lugs suitable for connection to terminal strips.
- J. Enclosures: Provide open units for mounting in existing motor control centers. Mount on existing backpanels or provide new backpanels as required. Provide new doors on MCC switch compartments with operator interface units mounted in new doors. Doors shall be general-purpose NEMA 250, Type 1, unless otherwise indicated.

2.03 AUTOMATIC TRANSFER SWITCHES

- A. Comply with Level 1 equipment according to NFPA 110.
- B. Switching Arrangement: Double-throw type, incapable of pauses or intermediate position stops during normal functioning, unless otherwise indicated.
- C. Manual Switch Operation: Under load, with door closed and with either or both sources energized. Transfer time is same as for electrical operation. Control circuit automatically disconnects from electrical operator during manual operation.
- D. Programmed Neutral Switch Position: Switch operator has a programmed neutral position arranged to provide a midpoint between the two working switch positions, with an intentional, time-controlled pause at midpoint during transfer. Pause is adjustable from 0.5 to 30 seconds minimum and factory set for 0.5 second, unless otherwise indicated. Time delay occurs for both transfer directions. Pause is disabled unless both sources are live.

E. Automatic Transfer-Switch Features:

1. Undervoltage Sensing for Each Phase of Normal Source: Sense low phase-to-ground voltage on each phase. Pickup voltage shall be adjustable from 85 to 100 percent of nominal, and dropout voltage is adjustable from 75 to 98 percent of pickup value. Factory set for pickup at 90 percent and dropout at 85 percent.
2. Adjustable Time Delay: For override of normal-source voltage sensing to delay transfer and engine start signals. Adjustable from zero to six seconds, and factory set for one second.
3. Voltage/Frequency Lockout Relay: Prevent premature transfer to generator. Pickup voltage shall be adjustable from 85 to 100 percent of nominal. Factory set for pickup at 90 percent. Pickup frequency shall be adjustable from 90 to 100 percent of nominal. Factory set for pickup at 95 percent.
4. Time Delay for Retransfer to Normal Source: Adjustable from 0 to 30 minutes, and factory set for 10 minutes to automatically defeat delay on loss of voltage or sustained undervoltage of emergency source, provided normal supply has been restored.
5. Test Switch: Simulate normal-source failure.
6. Switch-Position Pilot Lights: Indicate source to which load is connected.
7. Source-Available Indicating Lights: Supervise sources via transfer-switch normal- and emergency-source sensing circuits.
 - a. Normal Power Supervision: Green light with nameplate engraved "Normal Source Available."
 - b. Emergency Power Supervision: Red light with nameplate engraved "Emergency Source Available."
8. Unassigned Auxiliary Contacts: Two normally open, single-pole, double-throw contacts for each switch position, rated 10 A at 240-V ac.
9. Engine Starting Contacts: One isolated and normally closed, and one isolated and normally open; rated 10 A at 32-V dc minimum.
10. Engine Shutdown Contacts: Time delay adjustable from zero to five minutes, and factory set for five minutes. Contacts shall initiate shutdown at remote engine-generator controls after retransfer of load to normal source.
11. Engine-Generator Exerciser: Solid-state, programmable-time switch starts engine generator and transfers load to it from normal source for a preset time, then retransfers and shuts down engine after a preset cool-down period. Initiates exercise cycle at preset intervals adjustable from 7 to 30 days. Running periods are adjustable from 10 to 30 minutes. Factory settings are for 7-day exercise cycle, 20-minute running period, and 5-minute cool-down period. Exerciser features include the following:
 - a. Exerciser Transfer Selector Switch: Permits selection of exercise with and without load transfer.
 - b. Push-button programming control with digital display of settings.
 - c. Integral battery operation of time switch when normal control power is not available.

2.04 SOURCE QUALITY CONTROL

Factory test and inspect components, assembled switches, and associated equipment. Ensure proper operation. Check transfer time and voltage, frequency, and time-delay settings for compliance with specified requirements. Perform dielectric strength test complying with NEMA ICS 1.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Design each fastener and support to carry load indicated by seismic requirements.
- B. Set field-adjustable intervals and delays, relays, and engine exerciser clock.

3.02 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- B. Perform the following tests and inspections listed below with the assistance of a factory-authorized service representative. All testing shall be completed with the Owner or Owner's representative present.
 - 1. After installing equipment and after electrical circuitry has been energized, test for compliance with requirements.
 - 2. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
 - 3. Measure insulation resistance phase-to-phase and phase-to-ground with insulation-resistance tester. Include external annunciation and control circuits. Use test voltages and procedure recommended by manufacturer. Comply with manufacturer's specified minimum resistance.
 - a. Check for electrical continuity of circuits and for short circuits.
 - b. Inspect for physical damage, proper installation and connection, and integrity of barriers, covers, and safety features.
 - c. Verify that manual transfer warnings are properly placed.
 - d. Perform manual transfer operation.
 - 4. After energizing circuits, demonstrate interlocking sequence and operational function for each switch at least three times.
 - a. Simulate power failures of normal source to automatic transfer switches and of emergency source with normal source available.
 - b. Simulate loss of phase-to-ground voltage for each phase of normal source.
 - c. Verify time-delay settings.
 - d. Verify pickup and dropout voltages by data readout or inspection of control settings.

- e. Verify proper sequence and correct timing of automatic engine starting, transfer time delay, retransfer time delay on restoration of normal power, and engine cool-down and shutdown.
- C. Report results of tests and inspections in writing to the Owner. Record adjustable relay settings and measured insulation and contact resistances and time delays. Attach a label or tag to each tested component indicating satisfactory completion of tests.
- D. Remove and replace malfunctioning units and retest as specified above.
- E. Prepare test and inspection reports and submit to the Owner.

3.03 THIRD PARTY CERTIFICATION

Engage an independent agent as described in paragraph 1.6 above to re-certify the motor control center equipment after installation as required by WAC 196-46B. Agent shall inspect and label the equipment to the satisfaction of the authority having jurisdiction. Make any required changes to the installation as required by the agent without additional cost to the Owner.

3.04 DEMONSTRATION

Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain transfer switches and related equipment as specified below.

END OF SECTION

APPENDIX A

PREVAILING WAGE RATES

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: 03/16/2016

<u>County</u>	<u>Trade</u>	<u>Job Classification</u>	<u>Wage</u>	<u>Holiday</u>	<u>Overtime</u>	<u>Note</u>
Snohomish	Asbestos Abatement Workers	Journey Level	\$43.95	<u>5D</u>	<u>1H</u>	
Snohomish	Boilermakers	Journey Level	\$64.29	<u>5N</u>	<u>1C</u>	
Snohomish	Brick Mason	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	Brick Mason	Pointer-Caulker-Cleaner	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	Building Service Employees	Janitor	\$9.47		<u>1</u>	
Snohomish	Building Service Employees	Shampooer	\$9.47		<u>1</u>	
Snohomish	Building Service Employees	Waxer	\$9.47		<u>1</u>	
Snohomish	Building Service Employees	Window Cleaner	\$13.48		<u>1</u>	
Snohomish	Cabinet Makers (In Shop)	Journey Level	\$15.08		<u>1</u>	
Snohomish	Carpenters	Acoustical Worker	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	Carpenters	Bridge, Dock And Wharf Carpenters	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	Carpenters	Carpenter	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	Carpenters	Carpenters on Stationary Tools	\$54.15	<u>5D</u>	<u>4C</u>	
Snohomish	Carpenters	Creosoted Material	\$54.12	<u>5D</u>	<u>4C</u>	
Snohomish	Carpenters	Floor Finisher	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	Carpenters	Floor Layer	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	Carpenters	Scaffold Erector	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	Cement Masons	Journey Level	\$53.95	<u>7A</u>	<u>1M</u>	
Snohomish	Divers & Tenders	Diver	\$107.22	<u>5D</u>	<u>4C</u>	<u>8A</u>
Snohomish	Divers & Tenders	Diver On Standby	\$64.42	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Diver Tender	\$58.33	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Surface Rcv & Rov Operator	\$58.33	<u>5D</u>	<u>4C</u>	
Snohomish	Divers & Tenders	Surface Rcv & Rov Operator Tender	\$54.27	<u>5A</u>	<u>4C</u>	
Snohomish	Dredge Workers	Assistant Engineer	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Assistant Mate (Deckhand)	\$56.00	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Boatmen	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Engineer Welder	\$57.51	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Leverman, Hydraulic	\$58.67	<u>5D</u>	<u>3F</u>	

Snohomish	Dredge Workers	Mates	\$56.44	<u>5D</u>	<u>3F</u>	
Snohomish	Dredge Workers	Oiler	\$56.00	<u>5D</u>	<u>3F</u>	
Snohomish	Drywall Applicator	Journey Level	\$54.02	<u>5D</u>	<u>1H</u>	
Snohomish	Drywall Tapers	Journey Level	\$54.07	<u>5P</u>	<u>1E</u>	
Snohomish	Electrical Fixture Maintenance Workers	Journey Level	\$13.76		<u>1</u>	
Snohomish	Electricians - Inside	Cable Splicer	\$63.94	<u>7H</u>	<u>1E</u>	
Snohomish	Electricians - Inside	Construction Stock Person	\$31.71	<u>7H</u>	<u>1D</u>	
Snohomish	Electricians - Inside	Journey Level	\$59.69	<u>7H</u>	<u>1E</u>	
Snohomish	Electricians - Motor Shop	Craftsman	\$15.37		<u>1</u>	
Snohomish	Electricians - Motor Shop	Journey Level	\$14.69		<u>1</u>	
Snohomish	Electricians - Powerline Construction	Cable Splicer	\$74.92	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Certified Line Welder	\$65.71	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Groundperson	\$44.12	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Heavy Line Equipment Operator	\$65.71	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Journey Level Lineperson	\$65.71	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Line Equipment Operator	\$55.34	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Pole Sprayer	\$65.71	<u>5A</u>	<u>4D</u>	
Snohomish	Electricians - Powerline Construction	Powderperson	\$49.16	<u>5A</u>	<u>4D</u>	
Snohomish	Electronic Technicians	Journey Level	\$30.10		<u>1</u>	
Snohomish	Elevator Constructors	Mechanic	\$85.45	<u>7D</u>	<u>4A</u>	
Snohomish	Elevator Constructors	Mechanic In Charge	\$92.35	<u>7D</u>	<u>4A</u>	
Snohomish	Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	\$13.50		<u>1</u>	
Snohomish	Fence Erectors	Fence Erector	\$14.00		<u>1</u>	
Snohomish	Flaggers	Journey Level	\$37.26	<u>7A</u>	<u>3I</u>	
Snohomish	Glaziers	Journey Level	\$56.16	<u>7L</u>	<u>1Y</u>	
Snohomish	Heat & Frost Insulators And Asbestos Workers	Journeyman	\$63.18	<u>5J</u>	<u>1S</u>	
Snohomish	Heating Equipment Mechanics	Journey Level	\$72.83	<u>7F</u>	<u>1E</u>	
Snohomish	Hod Carriers & Mason Tenders	Journey Level	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Industrial Power Vacuum Cleaner	Journey Level	\$9.47		<u>1</u>	
Snohomish	Inland Boatmen	Boat Operator	\$56.78	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Cook	\$53.30	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Deckhand	\$53.30	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Deckhand Engineer	\$54.32	<u>5B</u>	<u>1K</u>	
Snohomish	Inland Boatmen	Launch Operator	\$55.57	<u>5B</u>	<u>1K</u>	

Snohomish	Inland Boatmen	Mate	\$55.57	<u>5B</u>	<u>1K</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	\$9.73		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	\$11.48		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	\$12.78		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	\$9.47		<u>1</u>	
Snohomish	Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	\$10.53		<u>1</u>	
Snohomish	Insulation Applicators	Journey Level	\$54.02	<u>5D</u>	<u>4C</u>	
Snohomish	Ironworkers	Journeyman	\$63.53	<u>7N</u>	<u>10</u>	
Snohomish	Laborers	Air, Gas Or Electric Vibrating Screed	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Airtrac Drill Operator	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Ballast Regular Machine	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Batch Weighman	\$37.26	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Brick Pavers	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Brush Cutter	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Brush Hog Feeder	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Burner	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Caisson Worker	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Carpenter Tender	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Caulker	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Cement Dumper-paving	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Cement Finisher Tender	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Change House Or Dry Shack	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Chipping Gun (under 30 Lbs.)	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Chipping Gun(30 Lbs. And Over)	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Choker Setter	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Chuck Tender	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Clary Power Spreader	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Clean-up Laborer	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Concrete Dumper/chute Operator	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Concrete Form Stripper	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Concrete Placement Crew	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Concrete Saw Operator/core Driller	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Crusher Feeder	\$37.26	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Curing Laborer	\$43.95	<u>7A</u>	<u>3I</u>	

Snohomish	Laborers	Demolition: Wrecking & Moving (incl. Charred Material)	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Ditch Digger	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Diver	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Drill Operator (hydraulic, diamond)	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Dry Stack Walls	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Dump Person	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Epoxy Technician	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Erosion Control Worker	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Faller & Bucker Chain Saw	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Fine Graders	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Firewatch	\$37.26	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Form Setter	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Gabian Basket Builders	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	General Laborer	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Grade Checker & Transit Person	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Grinders	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Grout Machine Tender	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Groutmen (pressure)including Post Tension Beams	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Guardrail Erector	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Hazardous Waste Worker (level A)	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Hazardous Waste Worker (level B)	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Hazardous Waste Worker (level C)	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	High Scaler	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Jackhammer	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Laserbeam Operator	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Maintenance Person	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Manhole Builder-mudman	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Material Yard Person	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Motorman-dinky Locomotive	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Nozzleman (concrete Pump, Green Cutter When Using Combination Of High Pressure Air & Water On Concrete & Rock, Sandblast, Gunite, Shotcrete, Water Bla	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Pavement Breaker	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Pilot Car	\$37.26	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Pipe Layer Lead	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Pipe Layer/tailor	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Pipe Pot Tender	\$44.76	<u>7A</u>	<u>3I</u>	

Snohomish	Laborers	Pipe Reliner	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Pipe Wrapper	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Pot Tender	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Powderman	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Powderman's Helper	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Power Jacks	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Railroad Spike Puller - Power	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Raker - Asphalt	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Re-timberman	\$45.32	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Remote Equipment Operator	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Rigger/signal Person	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Rip Rap Person	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Rivet Buster	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Rodder	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Scaffold Erector	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Scale Person	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Sloper (over 20")	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Sloper Sprayer	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Spreader (concrete)	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Stake Hopper	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Stock Piler	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Tamper & Similar Electric, Air & Gas Operated Tools	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Tamper (multiple & Self- propelled)	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Timber Person - Sewer (lagger, Shorer & Cribber)	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Toolroom Person (at Jobsite)	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Topper	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Track Laborer	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Track Liner (power)	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Traffic Control Laborer	\$39.84	<u>7A</u>	<u>3I</u>	<u>8R</u>
Snohomish	Laborers	Traffic Control Supervisor	\$39.84	<u>7A</u>	<u>3I</u>	<u>8R</u>
Snohomish	Laborers	Truck Spotter	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Tugger Operator	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 0-30 psi	\$74.29	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 30.01-44.00 psi	\$79.32	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 44.01-54.00 psi	\$83.00	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 54.01-60.00 psi	\$88.70	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 60.01-64.00 psi	\$90.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 64.01-68.00 psi	\$95.92	<u>7A</u>	<u>3I</u>	<u>8Q</u>

Snohomish	Laborers	Tunnel Work-Compressed Air Worker 68.01-70.00 psi	\$97.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 70.01-72.00 psi	\$99.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Compressed Air Worker 72.01-74.00 psi	\$101.82	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Guage and Lock Tender	\$45.42	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Tunnel Work-Miner	\$45.42	<u>7A</u>	<u>3I</u>	<u>8Q</u>
Snohomish	Laborers	Vibrator	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Vinyl Seamer	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Watchman	\$33.86	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Welder	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Well Point Laborer	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers	Window Washer/cleaner	\$33.86	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers - Underground Sewer & Water	General Laborer & Topman	\$43.95	<u>7A</u>	<u>3I</u>	
Snohomish	Laborers - Underground Sewer & Water	Pipe Layer	\$44.76	<u>7A</u>	<u>3I</u>	
Snohomish	Landscape Construction	Irrigation Or Lawn Sprinkler Installers	\$17.31		<u>1</u>	
Snohomish	Landscape Construction	Landscape Equipment Operators Or Truck Drivers	\$20.06		<u>1</u>	
Snohomish	Landscape Construction	Landscaping Or Planting Laborers	\$14.13		<u>1</u>	
Snohomish	Lathers	Journey Level	\$54.02	<u>5D</u>	<u>1H</u>	
Snohomish	Marble Setters	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	Metal Fabrication (In Shop)	Fitter	\$15.38		<u>1</u>	
Snohomish	Metal Fabrication (In Shop)	Laborer	\$9.79		<u>1</u>	
Snohomish	Metal Fabrication (In Shop)	Machine Operator	\$9.47		<u>1</u>	
Snohomish	Metal Fabrication (In Shop)	Painter	\$9.98		<u>1</u>	
Snohomish	Metal Fabrication (In Shop)	Welder	\$15.38		<u>1</u>	
Snohomish	Millwright	Journey Level	\$55.52	<u>5D</u>	<u>4C</u>	
Snohomish	Modular Buildings	Journey Level	\$9.47		<u>1</u>	
Snohomish	Painters	Journey Level	\$39.35	<u>6Z</u>	<u>2B</u>	
Snohomish	Pile Driver	Journey Level	\$54.27	<u>5D</u>	<u>4C</u>	
Snohomish	Plasterers	Journey Level	\$51.68	<u>7Q</u>	<u>1R</u>	
Snohomish	Playground & Park Equipment Installers	Journey Level	\$11.94		<u>1</u>	
Snohomish	Plumbers & Pipefitters	Journey Level	\$65.52	<u>5A</u>	<u>1G</u>	
Snohomish	Power Equipment Operators	Asphalt Plant Operators	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Assistant Engineer	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Barrier Machine (zipper)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Batch Plant Operator, Concrete	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Bobcat	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Brokk - Remote Demolition Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	Power Equipment Operators	Brooms	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Bump Cutter	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cableways	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Chipper	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Compressor	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Finish Machine -laser Screed	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Conveyors	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes Friction: 200 tons and over	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 20 Tons Through 44 Tons With Attachments	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: A-frame - 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: Friction cranes through 199 tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Crusher	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Deck Engineer /deck Winches (power)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Derricks, On Building Work	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Dozers D-9 & Under	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Drill Oilers: Auger Type, Truck Or Crane Mount	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Drilling Machine	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators		\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Elevator And Man-lift: Permanent And Shaft Type				
Snohomish	Power Equipment Operators	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Forklift: 3000 Lbs And Over With Attachments	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Forklifts: Under 3000 Lbs. With Attachments	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Gradechecker/stakeman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Guardrail Punch	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Horizontal/directional Drill Locator	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Horizontal/directional Drill Operator	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Hydralifts/boom Trucks Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Hydralifts/boom Trucks, 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loader, Overhead 8 Yards. & Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loaders, Overhead Under 6 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loaders, Plant Feed	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Loaders: Elevating Type Belt	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Locomotives, All	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Material Transfer Device	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Motor Patrol Graders	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Oil Distributors, Blower Distribution & Mulch Seeding Operator	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators		\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Overhead, Bridge Type Crane: 20 Tons Through 44 Tons				
Snohomish	Power Equipment Operators	Overhead, Bridge Type: 100 Tons And Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Pavement Breaker	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Pile Driver (other Than Crane Mount)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Plant Oiler - Asphalt, Crusher	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Posthole Digger, Mechanical	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Power Plant	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Pumps - Water	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Quad 9, Hd 41, D10 And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Rigger And Bellman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Rigger/Signal Person, Bellman (Certified)	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Rollagon	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Roller, Other Than Plant Mix	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Roller, Plant Mix Or Multi-lift Materials	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Roto-mill, Roto-grinder	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Saws - Concrete	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Scraper, Self Propelled Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Scrapers - Concrete & Carry All	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Scrapers, Self-propelled: 45 Yards And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Service Engineers - Equipment	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shotcrete/gunite Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators		\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>

		Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons			
Snohomish	Power Equipment Operators	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$58.10	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Slipform Pavers	\$56.94	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Spreader, Toppersider & Screedman	\$56.94	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Subgrader Trimmer	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Tower Bucket Elevators	\$56.00	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Tower Crane Up To 175' In Height Base To Boom	\$57.51	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Tower Crane: over 175' through 250' in height, base to boom	\$58.10	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Tower Cranes: over 250' in height from base to boom	\$58.67	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Transporters, All Track Or Truck Type	\$56.94	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Trenching Machines	\$56.00	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Truck Crane Oiler/driver - 100 Tons And Over	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Truck Crane Oiler/driver Under 100 Tons	\$56.00	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Truck Mount Portable Conveyor	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Welder	\$56.94	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Wheel Tractors, Farmall Type	\$53.57	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators	Yo Yo Pay Dozer	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Asphalt Plant Operators	\$56.94	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Assistant Engineer	\$53.57	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Barrier Machine (zipper)	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Batch Plant Operator, Concrete	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Bobcat	\$53.57	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Brokk - Remote Demolition Equipment	\$53.57	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Brooms	\$53.57	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Bump Cutter	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Cableways	\$56.94	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish	Power Equipment Operators- Underground Sewer & Water	Chipper	\$56.44	<u>7A</u>	<u>3C</u> <u>8P</u>
Snohomish		Compressor	\$53.57	<u>7A</u>	<u>3C</u> <u>8P</u>

	Power Equipment Operators-Underground Sewer & Water					
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Over 42 M	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Finish Machine -laser Screed	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Pump - Mounted Or Trailer High Pressure Line Pump, Pump High Pressure.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Concrete Pump: Truck Mount With Boom Attachment Up To 42m	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Conveyors	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes Friction: 200 tons and over	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 20 Tons Through 44 Tons With Attachments	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 100 Tons Through 199 Tons, Or 150' Of Boom (Including Jib With Attachments)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 200 tons- 299 tons, or 250' of boom including jib with attachments	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 300 tons and over or 300' of boom including jib with attachments	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: 45 Tons Through 99 Tons, Under 150' Of Boom (including Jib With Attachments)	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: A-frame - 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: Friction cranes through 199 tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Cranes: Through 19 Tons With Attachments A-frame Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Crusher	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Deck Engineer /deck Winches (power)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Derricks, On Building Work	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Dozers D-9 & Under	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Drill Oilers: Auger Type, Truck Or Crane Mount	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Drilling Machine	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	Power Equipment Operators-Underground Sewer & Water	Elevator And Man-lift: Permanent And Shaft Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Finishing Machine, Bidwell And Gamaco & Similar Equipment	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Forklift: 3000 Lbs And Over With Attachments	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Forklifts: Under 3000 Lbs. With Attachments	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Grade Engineer: Using Blue Prints, Cut Sheets, Etc	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Gradechecker/stakeman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Guardrail Punch	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off- Road Equipment 45 Yards. & Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Hard Tail End Dump Articulating Off-road Equipment Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Locator	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Horizontal/directional Drill Operator	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks Over 10 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Hydralifts/boom Trucks, 10 Tons And Under	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead 8 Yards. & Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loader, Overhead, 6 Yards. But Not Including 8 Yards	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loaders, Overhead Under 6 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loaders, Plant Feed	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Loaders: Elevating Type Belt	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Locomotives, All	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Material Transfer Device	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Mechanics, All (leadmen - \$0.50 Per Hour Over Mechanic)	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Motor Patrol Graders	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Mucking Machine, Mole, Tunnel Drill, Boring, Road Header And/or Shield	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish			\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>

	Power Equipment Operators-Underground Sewer & Water	Oil Distributors, Blower Distribution & Mulch Seeding Operator				
Snohomish	Power Equipment Operators-Underground Sewer & Water	Outside Hoists (elevators And Manlifts), Air Tuggers, strato	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type Crane: 20 Tons Through 44 Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 100 Tons And Over	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Overhead, Bridge Type: 45 Tons Through 99 Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Pavement Breaker	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Pile Driver (other Than Crane Mount)	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Plant Oiler - Asphalt, Crusher	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Posthole Digger, Mechanical	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Power Plant	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Pumps - Water	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Quad 9, Hd 41, D10 And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Quick Tower - No Cab, Under 100 Feet In Height Based To Boom	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Remote Control Operator On Rubber Tired Earth Moving Equipment	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Rigger And Bellman	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Rigger/Signal Person, Bellman (Certified)	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Rollagon	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Roller, Other Than Plant Mix	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Roller, Plant Mix Or Multi-lift Materials	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Roto-mill, Roto-grinder	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Saws - Concrete	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Scraper, Self Propelled Under 45 Yards	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Scrapers - Concrete & Carry All	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Scrapers, Self-propelled: 45 Yards And Over	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>

Snohomish	Power Equipment Operators-Underground Sewer & Water	Service Engineers - Equipment	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shotcrete/gunite Equipment	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel , Excavator, Backhoe, Tractors Under 15 Metric Tons.	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoe: Over 30 Metric Tons To 50 Metric Tons	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes, Tractors: 15 To 30 Metric Tons	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 50 Metric Tons To 90 Metric Tons	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Shovel, Excavator, Backhoes: Over 90 Metric Tons	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Slipform Pavers	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Spreader, Topsider & Screedman	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Subgrader Trimmer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Tower Bucket Elevators	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Tower Crane Up To 175' In Height Base To Boom	\$57.51	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Tower Crane: over 175' through 250' in height, base to boom	\$58.10	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Tower Cranes: over 250' in height from base to boom	\$58.67	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Transporters, All Track Or Truck Type	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Trenching Machines	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver - 100 Tons And Over	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Truck Crane Oiler/driver Under 100 Tons	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Truck Mount Portable Conveyor	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Welder	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Wheel Tractors, Farmall Type	\$53.57	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Equipment Operators-Underground Sewer & Water	Yo Yo Pay Dozer	\$56.44	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Power Line Clearance Tree Trimmers	Journey Level In Charge	\$45.75	<u>5A</u>	<u>4A</u>	

Snohomish	Power Line Clearance Tree Trimmers	Spray Person	\$43.38	<u>5A</u>	<u>4A</u>
Snohomish	Power Line Clearance Tree Trimmers	Tree Equipment Operator	\$45.75	<u>5A</u>	<u>4A</u>
Snohomish	Power Line Clearance Tree Trimmers	Tree Trimmer	\$40.84	<u>5A</u>	<u>4A</u>
Snohomish	Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	\$30.74	<u>5A</u>	<u>4A</u>
Snohomish	Refrigeration & Air Conditioning Mechanics	Mechanic	\$65.52	<u>5A</u>	<u>1G</u>
Snohomish	Residential Brick Mason	Journey Level	\$20.00		<u>1</u>
Snohomish	Residential Carpenters	Journey Level	\$40.66	<u>5D</u>	<u>4C</u>
Snohomish	Residential Cement Masons	Journey Level	\$14.00		<u>1</u>
Snohomish	Residential Drywall Applicators	Journey Level	\$40.64	<u>5D</u>	<u>4C</u>
Snohomish	Residential Drywall Tapers	Journey Level	\$54.07	<u>5P</u>	<u>1E</u>
Snohomish	Residential Electricians	Journey Level	\$32.24	<u>7F</u>	<u>1D</u>
Snohomish	Residential Glaziers	Journey Level	\$38.40	<u>7L</u>	<u>1H</u>
Snohomish	Residential Insulation Applicators	Journey Level	\$25.68		<u>1</u>
Snohomish	Residential Laborers	Journey Level	\$20.73		<u>1</u>
Snohomish	Residential Marble Setters	Journey Level	\$30.74		<u>1</u>
Snohomish	Residential Painters	Journey Level	\$17.46		<u>1</u>
Snohomish	Residential Plumbers & Pipefitters	Journey Level	\$28.99		<u>1</u>
Snohomish	Residential Refrigeration & Air Conditioning Mechanics	Journey Level	\$37.72	<u>5A</u>	<u>1G</u>
Snohomish	Residential Sheet Metal Workers	Journey Level (Field or Shop)	\$43.46	<u>7F</u>	<u>1R</u>
Snohomish	Residential Soft Floor Layers	Journey Level	\$44.11	<u>5A</u>	<u>3D</u>
Snohomish	Residential Sprinkler Fitters (Fire Protection)	Journey Level	\$42.73	<u>5C</u>	<u>2R</u>
Snohomish	Residential Stone Masons	Journey Level	\$30.74		<u>1</u>
Snohomish	Residential Terrazzo Workers	Journey Level	\$9.47		<u>1</u>
Snohomish	Residential Terrazzo/Tile Finishers	Journey Level	\$21.60		<u>1</u>
Snohomish	Residential Tile Setters	Journey Level	\$25.17		<u>1</u>
Snohomish	Roofers	Journey Level	\$46.46	<u>5A</u>	<u>3H</u>
Snohomish	Roofers	Using Irritable Bituminous Materials	\$48.71	<u>5A</u>	<u>3H</u>
Snohomish	Sheet Metal Workers	Journey Level (Field or Shop)	\$72.83	<u>7F</u>	<u>1E</u>
Snohomish	Shipbuilding & Ship Repair	Boilermaker	\$40.87	<u>7M</u>	<u>1H</u>
Snohomish	Shipbuilding & Ship Repair	Carpenter	\$39.46	<u>7R</u>	<u>2B</u>
Snohomish	Shipbuilding & Ship Repair	Electrician	\$37.58	<u>5T</u>	<u>3E</u>
Snohomish	Shipbuilding & Ship Repair	Heat & Frost Insulator	\$63.18	<u>5J</u>	<u>1S</u>
Snohomish	Shipbuilding & Ship Repair	Laborer	\$27.88	<u>5T</u>	<u>3E</u>
Snohomish	Shipbuilding & Ship Repair	Machinist	\$37.58	<u>5T</u>	<u>3E</u>
Snohomish	Shipbuilding & Ship Repair	Painter	\$39.35	<u>6Z</u>	<u>2B</u>

Snohomish	Shipbuilding & Ship Repair	Shipfitter	\$37.58	<u>5T</u>	<u>3E</u>	
Snohomish	Shipbuilding & Ship Repair	Welder/Burner	\$37.58	<u>5T</u>	<u>3E</u>	
Snohomish	Sign Makers & Installers (Electrical)	Sign Installer	\$26.56		<u>1</u>	
Snohomish	Sign Makers & Installers (Electrical)	Sign Maker	\$20.50		<u>1</u>	
Snohomish	Sign Makers & Installers (Non-Electrical)	Sign Installer	\$22.56		<u>1</u>	
Snohomish	Sign Makers & Installers (Non-Electrical)	Sign Maker	\$20.50		<u>1</u>	
Snohomish	Soft Floor Layers	Journey Level	\$44.11	<u>5A</u>	<u>3D</u>	
Snohomish	Solar Controls For Windows	Journey Level	\$9.47		<u>1</u>	
Snohomish	Sprinkler Fitters (Fire Protection)	Journey Level	\$70.14	<u>5C</u>	<u>1X</u>	
Snohomish	Stage Rigging Mechanics (Non Structural)	Journey Level	\$13.23		<u>1</u>	
Snohomish	Stone Masons	Journey Level	\$52.82	<u>5A</u>	<u>1M</u>	
Snohomish	Street And Parking Lot Sweeper Workers	Journey Level	\$15.00		<u>1</u>	
Snohomish	Surveyors	Assistant Construction Site Surveyor	\$56.00	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Surveyors	Chainman	\$55.47	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Surveyors	Construction Site Surveyor	\$56.94	<u>7A</u>	<u>3C</u>	<u>8P</u>
Snohomish	Telecommunication Technicians	Journey Level	\$22.38		<u>1</u>	
Snohomish	Telephone Line Construction - Outside	Cable Splicer	\$37.60	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Hole Digger/Ground Person	\$20.79	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Installer (Repairer)	\$36.02	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Special Aparatus Installer I	\$37.60	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Special Apparatus Installer II	\$36.82	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Telephone Equipment Operator (Heavy)	\$37.60	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	\$34.94	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Telephone Lineperson	\$34.93	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Television Groundperson	\$19.73	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Television Lineperson/Installer	\$26.31	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Television System Technician	\$31.50	<u>5A</u>	<u>2B</u>	
Snohomish	Telephone Line Construction - Outside	Television Technician	\$28.23	<u>5A</u>	<u>2B</u>	
Snohomish		Tree Trimmer	\$34.93	<u>5A</u>	<u>2B</u>	

	Telephone Line Construction - Outside					
Snohomish	Terrazzo Workers	Journey Level	\$47.46	<u>5A</u>	<u>1M</u>	
Snohomish	Tile Setters	Journey Level	\$47.46	<u>5A</u>	<u>1M</u>	
Snohomish	Tile, Marble & Terrazzo Finishers	Finisher	\$38.29	<u>5A</u>	<u>1B</u>	
Snohomish	Traffic Control Stripers	Journey Level	\$43.73	<u>7A</u>	<u>1K</u>	
Snohomish	Truck Drivers	Asphalt Mix Over 16 Yards (W. WA-Joint Council 28)	\$51.25	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	Truck Drivers	Asphalt Mix To 16 Yards (W. WA-Joint Council 28)	\$50.41	<u>5D</u>	<u>3A</u>	<u>8L</u>
Snohomish	Truck Drivers	Dump Truck	\$37.94		<u>1</u>	
Snohomish	Truck Drivers	Dump Truck And Trailer	\$38.52		<u>1</u>	
Snohomish	Truck Drivers	Other Trucks	\$38.52		<u>1</u>	
Snohomish	Truck Drivers	Transit Mixer	\$34.63		<u>1</u>	
Snohomish	Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	\$17.05		<u>1</u>	
Snohomish	Well Drillers & Irrigation Pump Installers	Oiler	\$13.93		<u>1</u>	
Snohomish	Well Drillers & Irrigation Pump Installers	Well Driller	\$19.01		<u>1</u>	

APPENDIX B

REFERENCE DOCUMENTS

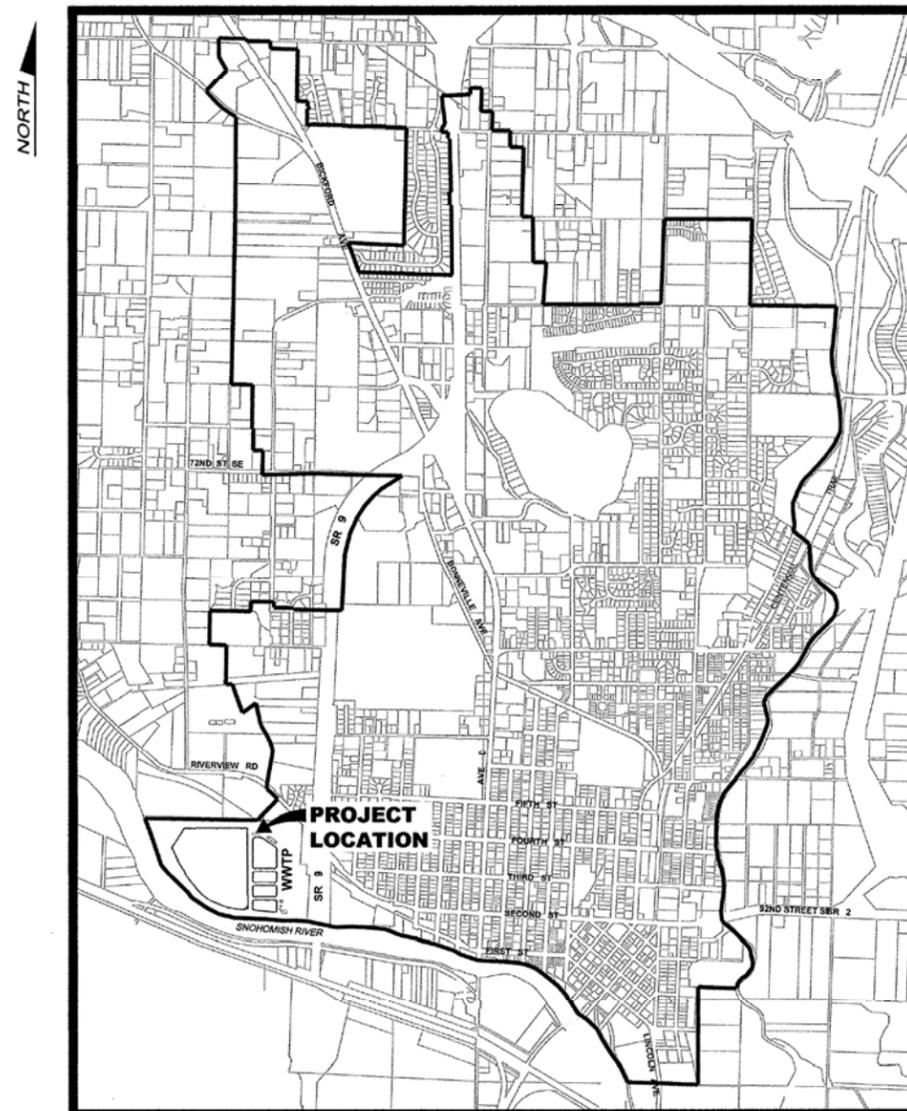


CITY OF SNOHOMISH WWTP ATS REPLACEMENT

MARCH 2016

DRAWINGS INDEX

SHEET NO.	DRAWING NO.	TITLE
GENERAL		
1	G-1	COVER SHEET, INDEX OF DRAWINGS, AND VICINITY MAP
ELECTRICAL		
2	E-1	LAB SERVICE ENTRANCE AND EMCC1 AND NMCC1 ONE-LINE DIAGRAM
3	E-2	EMCC1 ONE-LINE DIAGRAM
4	E-3	CHLORINATION BUILDING SERVICE ENTRANCE EMCC2 AND NMCC2 ONE-LINE DIAGRAM
5	E-4	MCC ELEVATIONS AND DETAILS
6	E-5	PHOTO DETAILS



VICINITY MAP
Not to Scale

MAYOR

KAREN GUZAK

CITY MANAGER

LARRY BAUMAN

CITY COUNCIL MEMBERS

DERRICK BURKE
TOM HAMILTON
DEAN RANDALL
MICHAEL ROHRSCHEIB
LYNN SCHILATY
ZACH WILDE

PUBLIC WORKS DIRECTOR

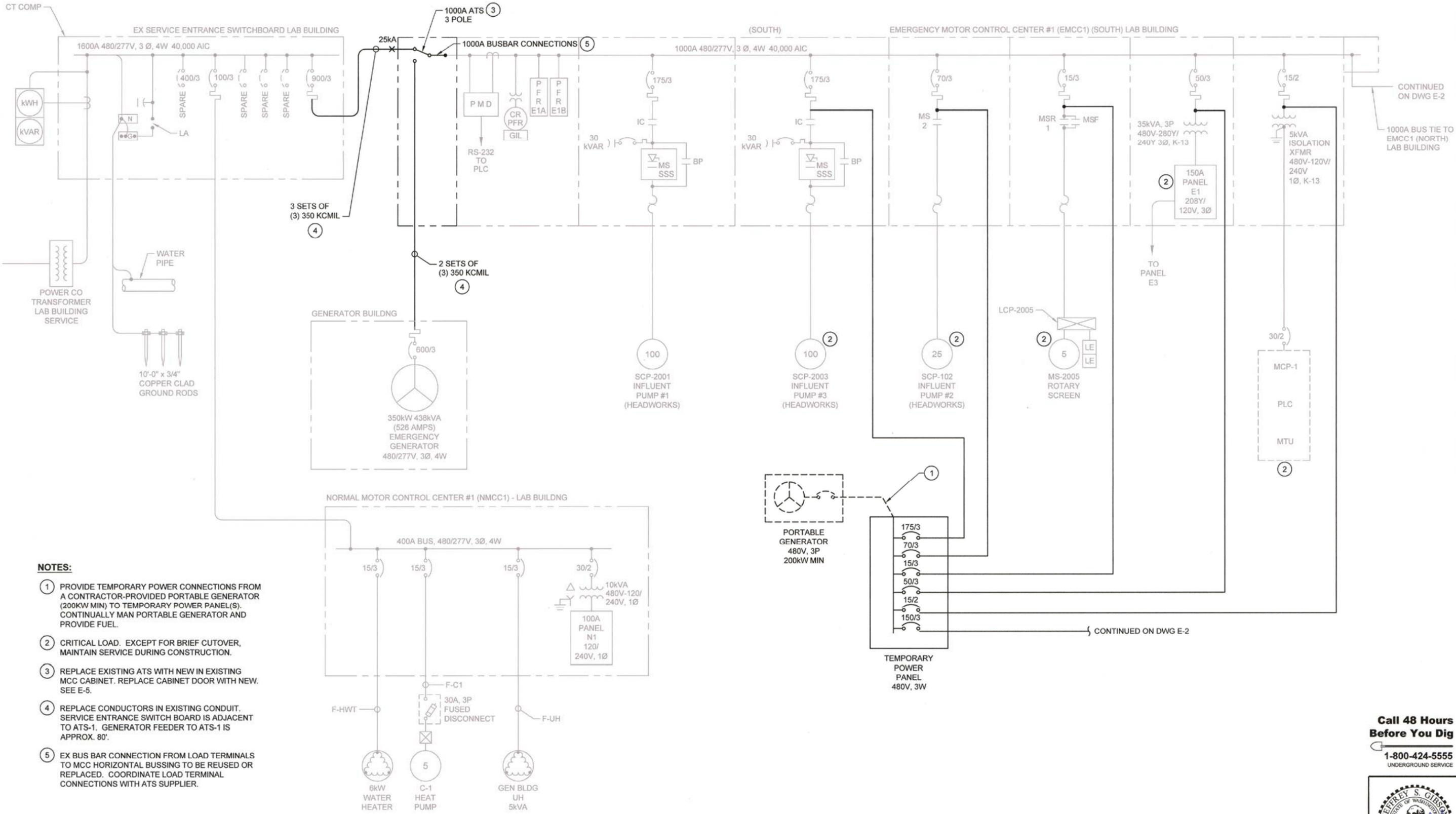
STEVE SCHULLER, P.E.

PREPARED BY:



BHC Consultants, LLC
1601 Fifth Avenue, Suite 500
Seattle, Washington 98101
P 206.505.3400
F 206.505.3406

FILE NAME: (UPWARD) 07
 S:\COM\SNOHOMISH\13-10317 WWTP ATS REPLACEMENT\13-10317_G-1.DWG (ASC)
 PAGES: NONE
 PLOT DATE & TIME
 FEB 26 2016 07:05:14

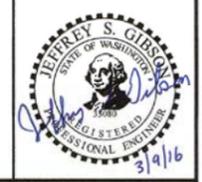


NOTES:

- ① PROVIDE TEMPORARY POWER CONNECTIONS FROM A CONTRACTOR-PROVIDED PORTABLE GENERATOR (200kW MIN) TO TEMPORARY POWER PANEL(S). CONTINUALLY MAN PORTABLE GENERATOR AND PROVIDE FUEL.
- ② CRITICAL LOAD. EXCEPT FOR BRIEF CUTOVER, MAINTAIN SERVICE DURING CONSTRUCTION.
- ③ REPLACE EXISTING ATS WITH NEW IN EXISTING MCC CABINET. REPLACE CABINET DOOR WITH NEW. SEE E-5.
- ④ REPLACE CONDUCTORS IN EXISTING CONDUIT. SERVICE ENTRANCE SWITCH BOARD IS ADJACENT TO ATS-1. GENERATOR FEEDER TO ATS-1 IS APPROX. 80'.
- ⑤ EX BUS BAR CONNECTION FROM LOAD TERMINALS TO MCC HORIZONTAL BUSSING TO BE REUSED OR REPLACED. COORDINATE LOAD TERMINAL CONNECTIONS WITH ATS SUPPLIER.

FILE NAME: (UPDATED BY) J. GIBSON
 PROJECT: 13-10337-WWTP-ATS-REPLACEMENT-1-1-DWG (ASB)
 DATE: 08-31-16
 DRAWN: P. SIMON
 CHECKED: T. GIESE
 APPROVED: R. DORN

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No.	Revision	Date	By	App'd

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 Seattle, Washington 98101
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 206.505.3406 (fax)
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Designed: J. Gibson, P.E.
 Drawn: P. Simon
 Checked: T. Giese, P.E.
 Approved: R. Dorn, P.E.

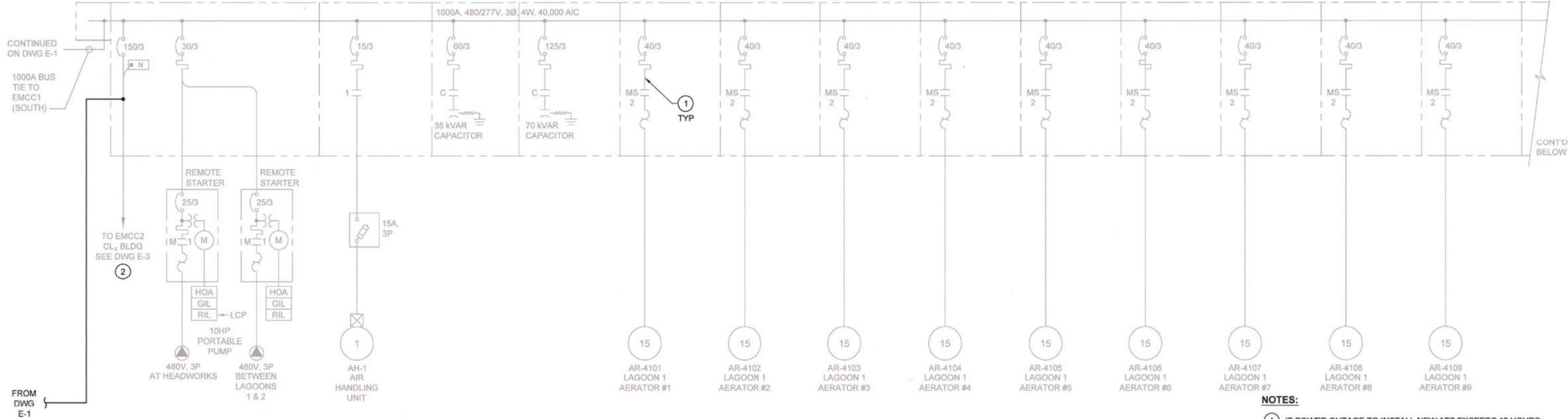
Scale: NTS
 One Inch at Full Scale
 If Not One Inch Scale Accordingly

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WWTP ATS REPLACEMENT
LAB SERVICE ENTRANCE AND EMCC1 AND NMCC1 ONE-LINE DIAGRAM

Drawing: **E-1**
 Sheet **2** of **6**
 File: P13-10337_E-1
 Date: March 2016

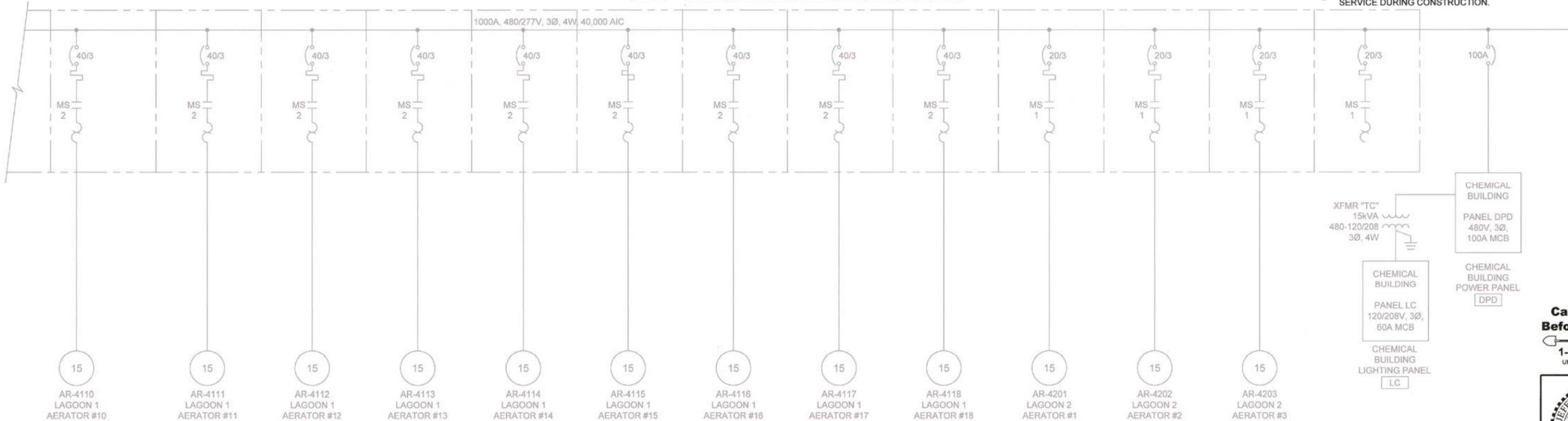
(NORTH) EMERGENCY MOTOR CONTROL CENTER (EMCC1) LAB BUILDING



NOTES:

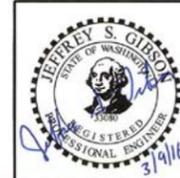
- 1 IF POWER OUTAGE TO INSTALL NEW ATS EXCEEDS 12 HOURS, CONNECT A MINIMUM OF SIX LAGOON AERATORS TO TEMPORARY POWER PANEL.
- 2 CRITICAL LOAD. EXCEPT FOR BRIEF CUTOVER, MAINTAIN SERVICE DURING CONSTRUCTION.

(NORTH) EMERGENCY MOTOR CONTROL CENTER (EMCC1) LAB BUILDING



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FILE NAME (UPDATED BY) PROJ DATE & TIME
 S:\2016\SNOWHOMISH\13-10337\WTFP_ATS_REP\DWGS\13-10337_E-2.DWG (ASC) FEB 26 2016 05:31:58
 DESIGNED: GIBSON, J. BY: GIBSON, J. DATE: 2/16/16

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 Approved: R. Dorn, P.E.

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 If Not One Inch Scale Accordingly

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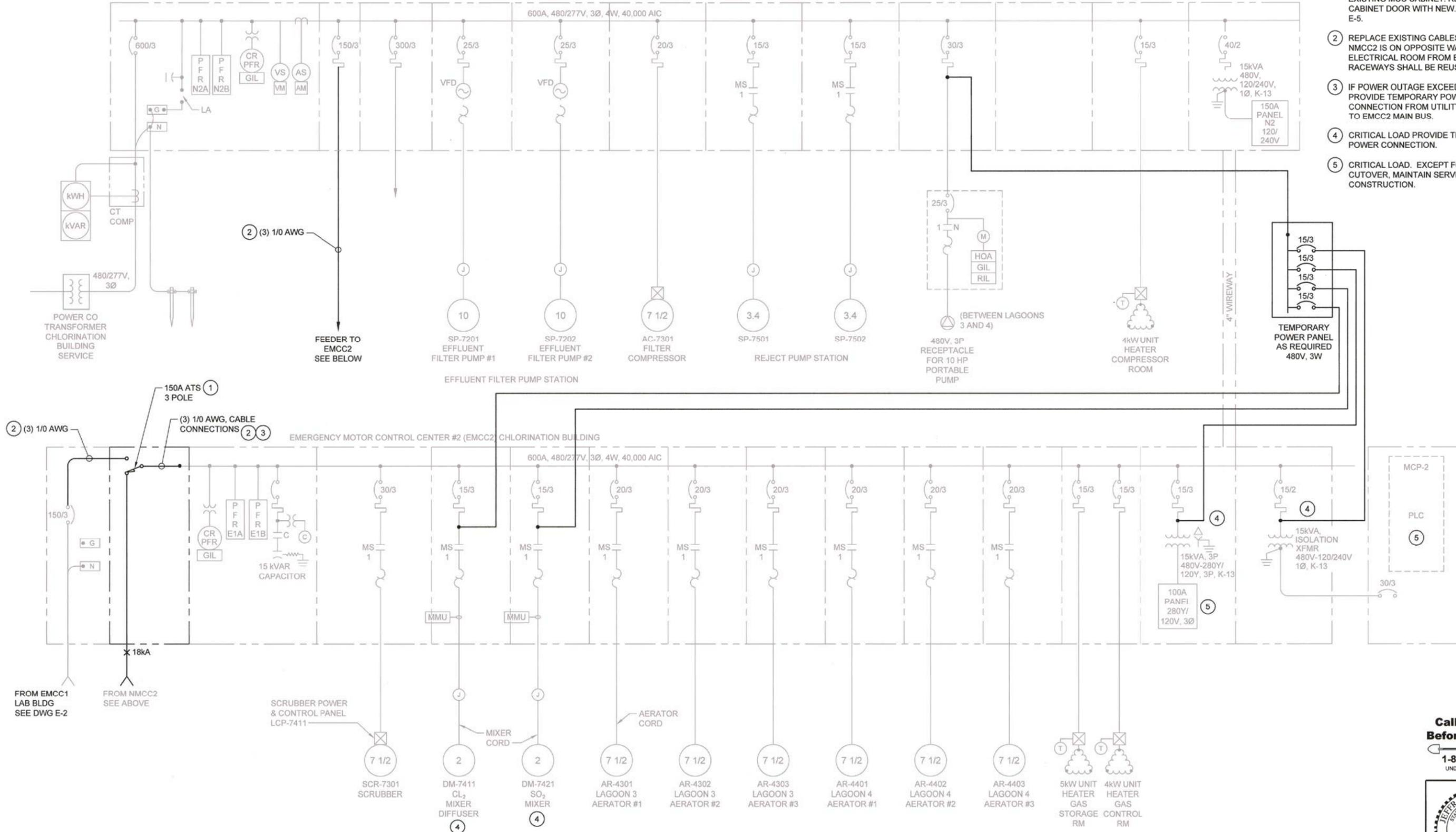
WWTP ATS REPLACEMENT
EMCC1 ONE-LINE DIAGRAM

Drawing: **E-2**
 Sheet: **3** of **6**
 File: P13-10337_E-2
 Date: March 2016

NORMAL MOTOR CONTROL CENTER #2 (NMCC2) CHLORINATION BUILDING

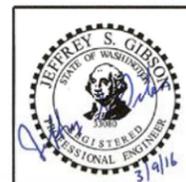
NOTES:

- 1 REPLACE EXISTING ATS WITH NEW IN EXISTING MCC CABINET. REPLACE CABINET DOOR WITH NEW. SEE DWG E-5.
- 2 REPLACE EXISTING CABLES WITH NEW. NMCC2 IS ON OPPOSITE WALL OF ELECTRICAL ROOM FROM EMCC2. RACEWAYS SHALL BE REUSED.
- 3 IF POWER OUTAGE EXCEEDS 4 HOURS, PROVIDE TEMPORARY POWER CONNECTION FROM UTILITY SERVICE TO EMCC2 MAIN BUS.
- 4 CRITICAL LOAD PROVIDE TEMPORARY POWER CONNECTION.
- 5 CRITICAL LOAD. EXCEPT FOR BRIEF CUTOVER, MAINTAIN SERVICE DURING CONSTRUCTION.



FILE NAME: (UPDATED BY) P13-10337_E-3
 PROJECT: WWTP ATIS REPAIRS (P13-10337)_E-3.DWG (ASC)
 DATE: 02/26/2016 08:31:54
 USER: jason_ruf

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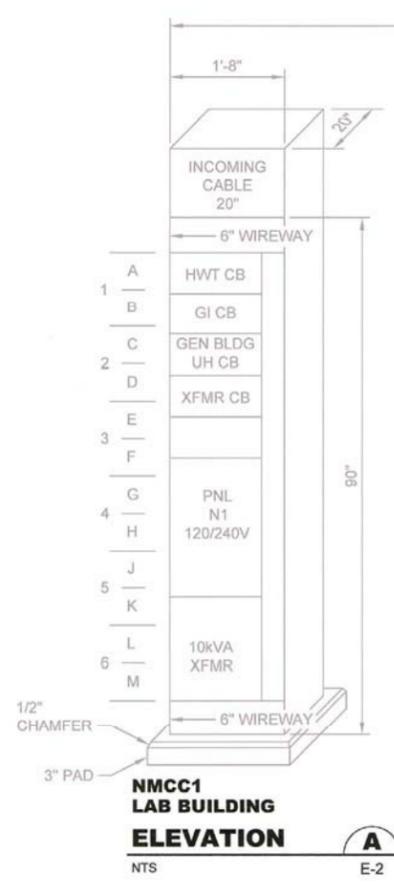
Designed: J. Gibson, P.E.
 Drawn: P. Simon
 Checked: T. Giese, P.E.
 Approved: R. Dorn, P.E.

Scale:
 NTS
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 If Not One Inch Scale Accordingly

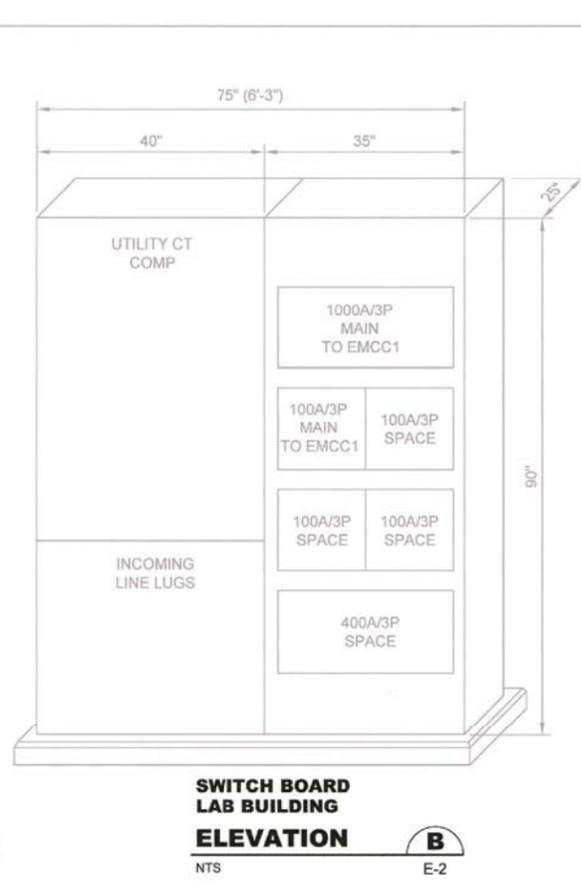
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**WWTP ATIS REPLACEMENT
 CHLORINATION BUILDING SERVICE
 ENTRANCE EMCC2 AND NMCC2
 ONE-LINE DIAGRAM**

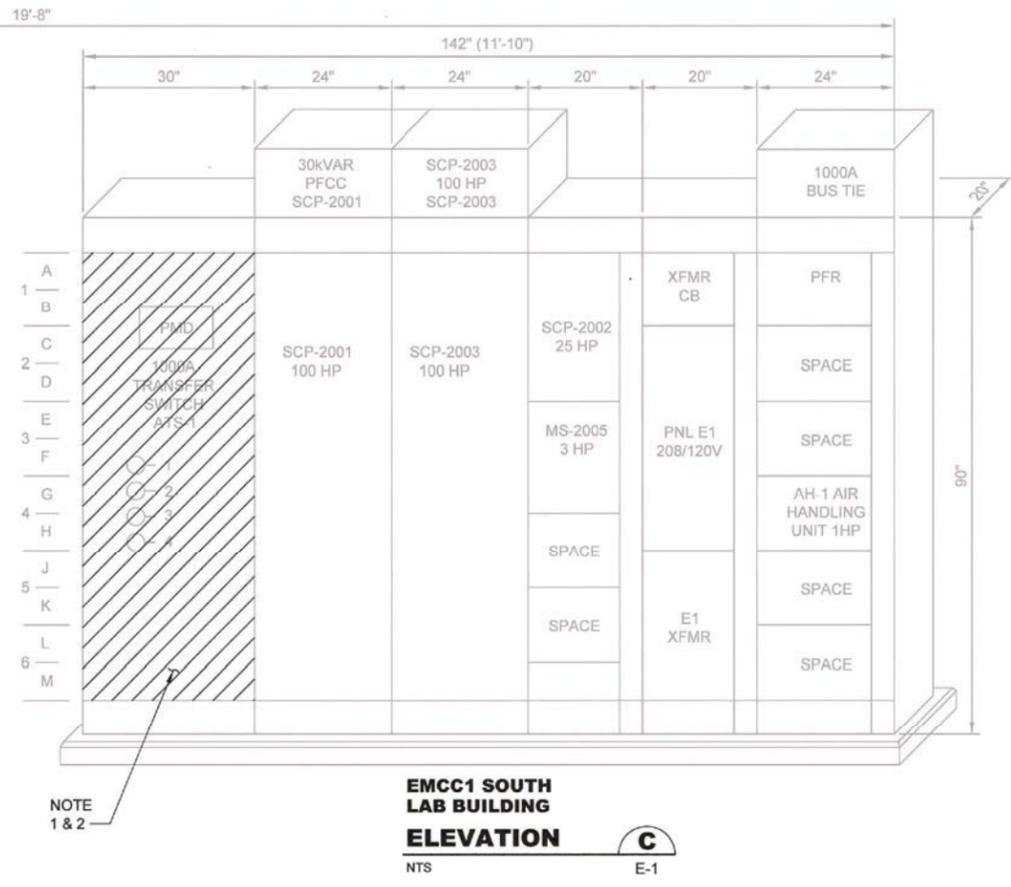
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 Sheet: **4** of **6**
 File: P13-10337_E-3
 Date: March 2016



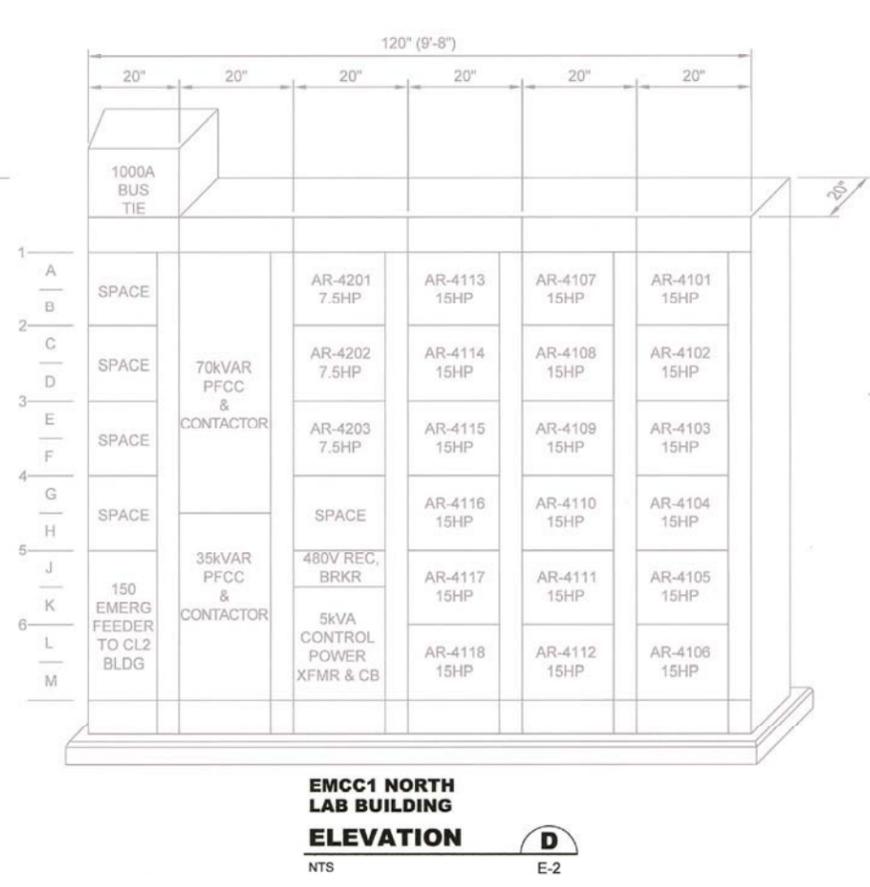
**NMCC1
LAB BUILDING
ELEVATION**
NTS E-2



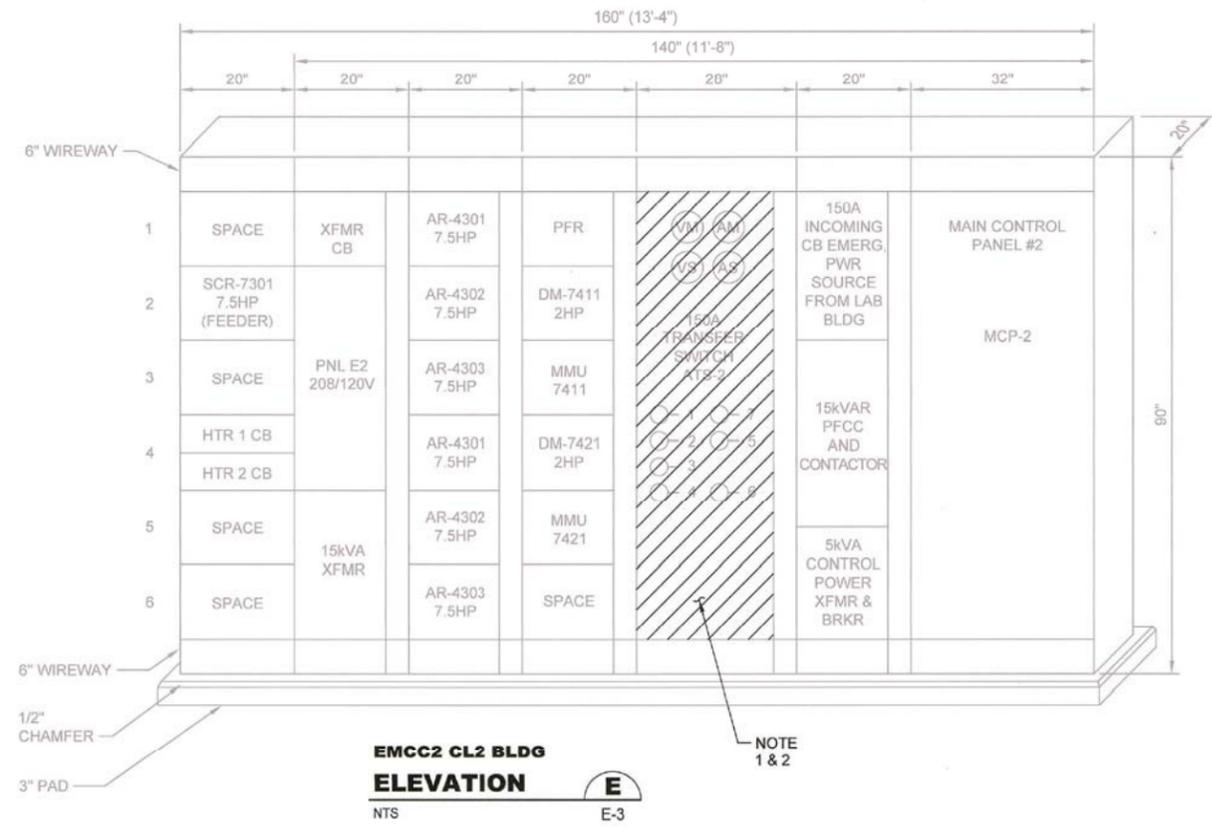
**SWITCH BOARD
LAB BUILDING
ELEVATION**
NTS E-2



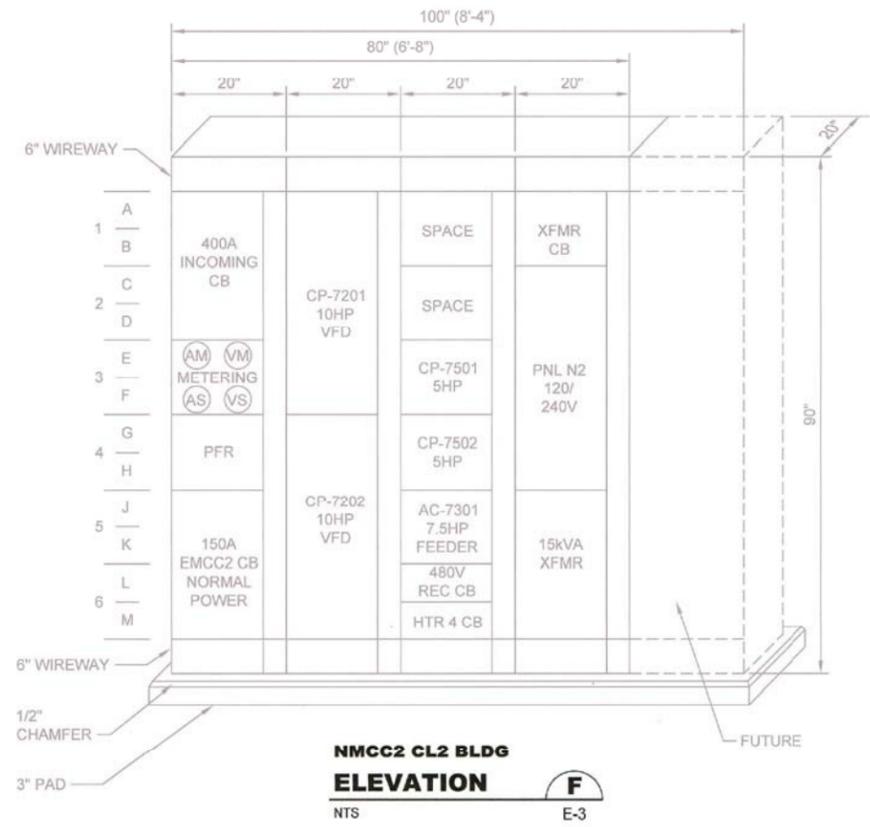
**EMCC1 SOUTH
LAB BUILDING
ELEVATION**
NTS E-1



**EMCC1 NORTH
LAB BUILDING
ELEVATION**
NTS E-2



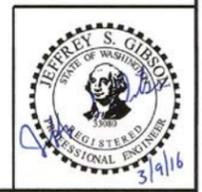
**EMCC2 CL2 BLDG
ELEVATION**
NTS E-3



**NMCC2 CL2 BLDG
ELEVATION**
NTS E-3

- NOTES:**
1. REPLACE ATS IN EXISTING MCC SECTION. REPLACE DOOR WITH NEW. NEW ATS ELECTRONIC CONTROL MODULE SHALL BE MOUNTED IN NEW DOOR.
 2. PROVIDE UL FIELD CERTIFICATION OF NEW INSTALLATION. LABELING SHALL BE APPROVED BY L&I ELECTRICAL INSPECTOR.

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FILE NAME: UPDATED BY: PROJ DATE & TIME: 3/10/16 10:57 AM
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 Drawn: S. Olsoe
 Checked: T. Giese, P.E.
 Approved: R. Dorn, P.E.

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**WWTP ATS REPLACEMENT
MCC ELEVATIONS
AND DETAILS**

Drawing: **E-4**
 Sheet **5** of **6**
 File: P13-10337_E-4
 Date: March 2016

