



City of Tacoma, WA

**TACOMA WATER
REQUEST FOR BIDS**

**2021 CATHODIC PROTECTION INSTALLATION: 128TH AND
MERIDIAN DEEP WELL AND STRAY CURRENT MITIGATION
SPECIFICATION NO. TW21-0044N**



City of
Tacoma
Tacoma Water

REQUEST FOR BIDS TW21-0044N
2021 Cathodic Protection Installation:
128th and Meridian Deep Well and Stray Current Mitigation

Submittal Deadline: 11:00 a.m., Pacific Time, Wednesday, October 6, 2021

Submittal Delivery: Sealed submittals will be received as follows:

By Email:

sendbid@cityoftacoma.org

Maximum file size: 35 MB. Multiple emails may be sent for each submittal

Bid Opening:

Submittals in response to a RFB will be recorded as received. As soon as possible on the day of submittal deadline, preliminary results will be posted to www.TacomaPurchasing.org.

Solicitation Documents: An electronic copy of the complete solicitation documents may be viewed and obtained by accessing the City of Tacoma Purchasing website at www.TacomaPurchasing.org.

- [Register for the Bid Holders List](#) to receive notices of addenda, questions and answers and related updates.
- Click here to see a [list of vendors registered for this solicitation](#).

Pre-Proposal Meeting: A pre-proposal meeting will not be held.

Project Scope: Item 1 is the installation of one (1) cathodic protection impressed current systems. The systems shall be a deep well anode groundbed, rectifier, power service with meter base and load center, test station, anode shunt box, service disconnect, equipment pedestal, conduit, wiring, trenching, backfill material, surface restoration, other materials, traffic control plan, and permitting necessary for a complete operational system.

Item 2 is the installation of one (1) isolation membrane between a Tacoma Water pipeline and a Puget Sound Energy pipeline. This work shall include excavating both pipelines, supplying and installing a dielectric membrane between both pipelines, installing test wires, reference cell, wiring, trenching, backfill material, surface restoration, materials, and permitting necessary for a complete installation

Estimate: \$175,000

Paid Leave and Minimum Wage: Effective February 1, 2016, the City of Tacoma requires all employers to provide paid leave and minimum wages, as set forth in Title 18 of the Tacoma Municipal Code. For more information visit www.cityoftacoma.org/employmentstandards.

Americans with Disabilities Act (ADA Information): The City of Tacoma, in accordance with Section 504 of the Rehabilitation Act (Section 504) and the Americans with Disabilities Act (ADA), commits to nondiscrimination on the basis of disability, in all of its programs and activities. Specification materials can be made available in an alternate format by emailing Gail Himes at ghimes@cityoftacoma.org, or by calling her collect at 253-591-5785.

Federal Title VI Information:

"The City of Tacoma" in accordance with provisions of Title VI of the Civil Rights Act of 1964, (78 Stat. 252, 42 U.S.C. sections 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin in consideration of award.

Additional Information: Requests for information regarding the specifications may be obtained by contacting Carly Fowler, Buyer by email to cfowler@cityoftacoma.org

Protest Policy: City of Tacoma protest policy, located at www.tacomapurchasing.org, specifies procedures for protestssubmitted prior to and after submittal deadline.



Meeting sites are accessible to persons with disabilities. Reasonable accommodations for persons with disabilities can be arranged with 48 hours advance notice by calling 253-502-8468.

**CITY OF TACOMA
DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION**

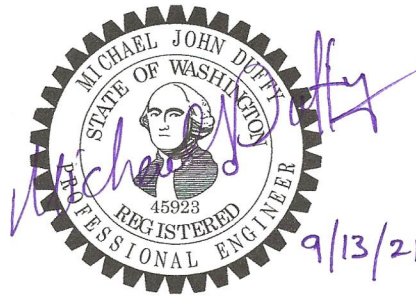
SPECIFICATION NO. TW21-0044N

SEPTEMBER 2021

**2021 CATHODIC PROTECTION INSTALLATION:
128TH AND MERIDIAN DEEP WELL AND STRAY CURRENT MITIGATION**

JACKIE FLOWERS Director of Utilities/CEO

**SCOTT DEWHIRST
Superintendent, Tacoma Water**



**Prepared By
MICHAEL DUFFY**

**UTILITIES ADMINISTRATION BUILDING
TACOMA, WASHINGTON 98409**

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SUBMITTAL CHECK LIST

This checklist identifies items to be included with your submittal. Any submittal received without these required items may be deemed non-responsive and not be considered for award.

Submittals must be received by the City of Tacoma Purchasing Division by the date and time specified in the Request for Bids page.

The following items make up your submittal package:	
Signature Page (Appendix B)	
Bid Proposal Form (Appendix B)	
Record of Prior Contract, Minimum of 3 Required (Appendix B)	
EIC Utilization Form (Appendix B)	
State Responsibility and Reciprocal Information (Appendix B)	
Sustainability (Appendix B)	
Certification of Compliance with Wage Payment Statutes (Appendix B)	
After award, the following documents will be executed:	
Services Contract	
Certificate of Insurance and related endorsements	

GENERAL PROVISIONS

(Revised December 15, 2020)

SECTION I - BIDDING REQUIREMENTS

SECTION I REQUIREMENTS ARE BINDING ON ALL RESPONDENTS.

1.01 USE AND COMPLETION OF CITY PROPOSAL SHEETS

A. Respondent's Proposal

Each Respondent must bid exactly as specified on the Proposal sheets. All proposals must remain open for acceptance by the City for a period of at least 60 calendar days from the date of opening of the bids.

B. Alterations of Proposals Not Allowed

Proposals that are incomplete or conditioned in any way contain alternatives or items not called for in the General Provisions and Specifications, or not in conformity with law may be rejected as being nonresponsive. The City cannot legally accept any proposal containing a substantial deviation from these Specifications.

C. Filling Out City Proposal Sheets

All proposals must be completed using the proposal sheets and forms included with this specification, and the prices must be stated in figures either written in ink or typewritten. No proposal having erasures or interlineations will be accepted unless initialed by the Respondent in ink.

1.02 CLARIFICATION OF PROPOSAL FOR RESPONDENT

If a prospective Respondent has any questions concerning any part of the Proposal, he/she may submit a written request for answer of his/her questions. Any interpretation of the Proposal will be made by an Addendum duly issued and mailed or delivered to each prospective Respondent. Such addendum must be acknowledged in the proposal. The City of Tacoma will not be responsible for any other explanation or interpretation of the bid documents.

1.03 RESPONDENT'S BOND OR CERTIFIED CHECK

Each bid for construction must be accompanied either by a certified or cashier's check for 5 percent of the total amount bid, including tax, payable to the City Treasurer, or an approved bid bond, by a surety company authorized to do business in the State of Washington, for 5 percent of the total amount bid. The person legally authorized to sign the bid must sign all bid bonds. The approved bid bond form attached to these Specifications should be used: no substantial variations from the language thereof will be accepted.

If a bid bond is used, the 5 percent may be shown either in dollars and cents, or the bid bond may be filled in as follows, "5 percent of the total amount of the accompanying proposal."

The check of the successful Respondent will be returned after award of the Contract, acceptance of the Payment and Performance Bond and City's receipt of the signed Contract. The checks of all other Respondents will be returned immediately upon the award of the Contract. Bid bonds will not be returned.

1.04 DELIVERY OF PROPOSALS TO THE CITY'S PURCHASING OFFICE

- A.** Proposal packages must be received by the City's Procurement and Payables Division in SAP Ariba (unless another form of delivery is stated), prior to the scheduled time and date stated in the Solicitation.
- B.** Supplier is solely responsible for timely delivery of its Submittal.
- C.** Submittals received after the time stated in the solicitation will not be accepted.
- D.** For purposes of determining whether a Submittal has been timely received in SAP Ariba, the City's Procurement and Payables Division will rely on the submittal clock in SAP Ariba.

1.05 LICENSES/PERMITS

- A.** Suppliers, if applicable, must have a Washington state business license at the time of Submittal and throughout the term of the Contract. Failure to include a Washington state business license may be grounds for rejection of the Submittal or cancellation of contract award. Information regarding Washington state business licenses may be obtained at <http://bls.dor.wa.gov>.
- B.** Upon award, it is the responsibility of the Supplier to register with the City of Tacoma's Tax and License Division, 733 South Market Street, Room 21, Tacoma, WA 98402-3768, 253-591-5252, https://www.cityoftacoma.org/government/city_departments/finance/tax_and_license/. Supplier shall obtain a business license as is required by Tacoma Municipal Code Subtitle 6C.20.
- C.** During the term of the Contract, Supplier, at its expense, shall obtain and keep in force any and all necessary licenses and permits.

1.06 CONTRACTOR'S STATE REGISTRATION NUMBER

Contractors for construction or public works construction are required to be licensed by the state. If the provisions of Chapter 18.27 of the Revised Code of Washington apply to the Respondent, then the Respondent's Washington State Contractor's Registration No. must accompany the bid.

1.07 BID IS NONCOLLUSIVE

The Respondent represents by the submission of the Proposal that the prices in this Bid are neither directly nor indirectly the result of any formal or informal agreement with another Respondent.

1.08 EVALUATION OF BID

A. Price, Experience, Delivery Time and Responsibility

In the evaluation of bids, the Respondent's experience, delivery time, quality of performance or product, conformance to the specifications and responsibility in performing other contracts (including satisfying all safety requirements) may be considered in addition to price. In addition, the bid evaluation factors set forth in City Code Section 1.06.262 may be considered by the City. Respondents who are inexperienced or who fail to properly perform other contracts may have their bids rejected for such cause.

B. Prequalified Electrical Contractor

Certain types of electrical construction require special expertise, experience, and prequalification of the Contractor (or subcontractor) by the City. In such cases, the Respondent must be prequalified or the Respondent must subcontract with a City prequalified electrical contractor for the specialty work.

C. Insertions of Material Conflicting with Specifications

Only material inserted by the Respondent to meet requirements of the Specifications will be considered. Any other material inserted by the Respondent will be disregarded as being nonresponsive and may be grounds for rejection of the Respondent's Proposal.

D. Correction of Ambiguities and Obvious Errors

The City reserves the right to correct obvious errors in the Respondent's proposal. In this regard, if the unit price does not compute to the extended total price, the unit price shall govern.

1.09 WITHDRAWAL OF BID

A. Prior to Bid Opening

Any Respondent may withdraw his/her Proposal prior to the scheduled bid opening time by delivering a written notice to the City's Procurement and Payables Office. The notice may be submitted in person or by mail; however, it must be received by the City's Procurement and Payables Office prior to the time of bid opening.

B. After Bid Opening

No Respondent will be permitted to withdraw his/her Proposal after the time of bid opening, as set forth in the Call for Bids, and before the actual award of the Contract, unless the award of Contract is delayed more than sixty (60) calendar days after the date set for bid opening. If a delay of more than 60 calendar days does occur, then the Respondent must submit written notice withdrawing his/her Proposal to the Purchasing Manager.

1.10 OPENING OF BIDS

At the time and place set for the opening of bids, all Proposals, unless previously withdrawn, will be publicly opened and read aloud, irrespective of any irregularities or informalities in such Proposal.

1.11 CITY COUNCIL/PUBLIC UTILITY BOARD FINAL DETERMINATION

The City Council or Public Utility Board of the City of Tacoma shall be the final judge as to which is the lowest and best bid in the interest of the City of Tacoma. The City reserves the right to reject any and all bids, waive minor deviations or informalities, and if necessary, call for new bids.

1.12 RESPONDENT'S REFUSAL TO ENTER INTO CONTRACT

Any Respondent who refuses to enter into a Contract after it has been awarded to the Respondent will be in breach of the agreement to enter the Contract and the Respondent's certified or cashier's check or bid bond shall be forfeited.

1.13 TAXES

A. Include In Proposal All Taxes

Respondent shall include in his/her Proposal all applicable local, city, state, and federal taxes. It is the Respondent's obligation to state on his/her Proposal sheet the correct percentage and total applicable Washington State and local sales tax. The total cost to the City including all applicable taxes may be the basis for determining the low Respondent.

B. Federal Excise Tax

The City of Tacoma is exempt from federal excise tax. Where applicable, the City shall furnish a Federal Excise Tax Exemption certificate.

C. City of Tacoma Business and Occupation Tax

Sub-Title 6A of the City of Tacoma Municipal Code (TMC) provides that transactions with the City of Tacoma, may be subject to the City of Tacoma's Business and Occupation Tax. It is the responsibility of the Respondent awarded the Contract to register with the City of Tacoma's Department of Tax and License, 733 South Market Street, Room 21, Tacoma, WA 98402-3768, telephone 253-591-5252. The City's Business and Occupation Tax amount shall not be shown separately but shall be included in the unit and/or lump sum prices bid.

1.14 FIRM PRICES/ESCALATION

Except as specifically allowed by the Special Provisions, only firm prices will be accepted.

1.15 AWARD

A. Construction and/or Labor Contracts

Unless specifically noted in the Special Provisions or Proposal sheets, all construction and/or labor contracts will be awarded to only one Respondent.

B. Supply/Equipment Contracts

The City reserves the right to award an equipment or supply contract for any or all items to one or more Respondents as the interests of the City will be best satisfied.

1.16 INCREASE OR DECREASE IN QUANTITIES

The City of Tacoma reserves the right to increase or decrease the quantities of any items under this Contract and pay according to the unit prices quoted in the Proposal (with no adjustments for anticipated profit).

1.17 EXTENSION OF CONTRACT

Contracts resulting from this specification shall be subject to extension by mutual agreement per the same prices, terms and conditions.

1.18 PAYMENT TERMS

- A. Prices will be considered as net 30 calendar days if no cash discount is shown. Payment discount periods of twenty (20) calendar days or more if offered in the submittal, will be considered in determining the apparent lowest responsible submittal. Discounts will be analyzed in context of their overall cumulative effect. Invoices will not be processed for payment nor will the period of cash discount commence until receipt of a properly completed invoice and until all invoiced items are received and satisfactory performance of the Contractor has been attained. If an adjustment in payment is necessary due to damage or dispute, the cash discount period shall commence on the date final approval for payment is authorized.
- B. ePayable/Credit Card Acceptance. Submittals offering ePayable/Credit card acceptance may be compared against submittals offering a prompt payment discount to evaluate the overall cumulative effect of the discount against the advantage to the City of the ePayable/Credit card acceptance, and may be considered in determining the apparent lowest responsible submittal.

1.19 PAYMENT METHOD – EPAYABLES – CREDIT CARD ACCEPTANCE – EFT/ACH ACCEPTANCE

- A. Payment methods include:
- EPayables (Payment Plus). This is payment made via a virtual, single use VISA card number provided by the City's commercial card provider. Suppliers accepting this option will receive "due immediately" payment terms. Two options for acceptance are available to suppliers. Both are accompanied by an emailed advice containing complete payment details:
 - Straight-through processing (buyer initiated). Immediate, exact payments directly deposited to supplier accounts by the City's provider bank; the supplier does not need to know card account details.
 - Supplier retrieves card account through the secure, on-line portal provided via email notifications sent by the City's commercial card provider.
 - Credit card. Tacoma's VISA procurement card program is supported by standard bank credit suppliers and requires that merchants abide by the VISA merchant operating rules. It provides "due immediately" payment terms.
 - Suppliers must be PCI-DSS compliant (secure credit card data management) and federal FACTA (sensitive card data display) compliant.
 - Suppliers must be set up by their card processing equipment provider (merchant acquirer) as a minimum of a Level II merchant with the ability to pass along tax, shipping and merchant references information.
 - Electronic Funds Transfer (EFT) by Automated Clearing House (ACH). Standard terms are net 30 for this payment method.
 - Check or other cash equivalent. Standard terms are net 30 for this payment method.
- B. The City's preferred method of payment is by ePayables (Payment Plus) followed by credit card (aka procurement card). Suppliers may be required to have the capability of accepting the City's ePayables or credit card methods of payment. **The City of Tacoma will not accept price changes or pay additional fees when ePayables (Payment Plus) or credit card is used.**
- C. The City, in its sole discretion, will determine the method of payment for goods and/or services as part of the Contract.

1.20 COOPERATIVE PURCHASING

The Washington State Interlocal Cooperative Act RCW 39.34 provides that other governmental agencies may purchase goods and services on this solicitation or contract in accordance with the terms and prices indicated therein if all parties are agreeable.

1.21 PUBLIC DISCLOSURE: PROPRIETARY OR CONFIDENTIAL INFORMATION

- A. Respondent's Submittals, all documents and records comprising any Contract awarded to Respondent, and all other documents and records provided to the City by Respondent are deemed public records subject to disclosure under the Washington State Public Records Act, Chapter 42.56 RCW (Public Records Act). Thus, City may be required, upon request, to disclose the Contract and documents or records related to it unless an exemption under the Public Records Act or other laws applies. In the event CITY receives a request for such disclosure, determines in its legal judgment that no applicable exemption to disclosure applies; and Respondent has complied with the requirements to mark records considered confidential or proprietary

as such requirements are stated below, City agrees to provide Respondent 10 days written notice of impending release. Should legal action thereafter be initiated by Respondent to enjoin or otherwise prevent such release, all expense of any such litigation shall be borne by Respondent, including any damages, attorneys' fees or costs awarded by reason of having opposed disclosure. City shall not be liable for any release where notice was provided and Respondent took no action to oppose the release of information.

B. If Respondent provides City with records or information that Respondent considers confidential or proprietary, Respondent must mark all applicable pages or sections of said record(s) as "Confidential" or "Proprietary." Further, in the case of records or information submitted in response to a Request for Proposals, an index must be provided indicating the affected pages or sections and locations of all such material identified Confidential or Proprietary. Information not included in the required index will not be reviewed for confidentiality or as proprietary before release. If Supplier fails to so mark or index Submittals and related records, then the City, upon request, may release said record(s) without the need to satisfy the requirements of subsection A above; and Respondent expressly waives its right to allege any kind of civil action or claim against the City pertaining to the release of said record(s). Submission of materials in response to City's Solicitation shall constitute assent by Respondent to the foregoing procedure and Respondent shall have no claim against the City on account of actions taken pursuant to such procedure.

1.22 FEDERAL AID PROJECTS

The City of Tacoma in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR, part 26, will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.

SECTION II - CONTRACT REQUIREMENTS

2.01 CONTRACTOR'S RESPONSIBILITY

A. Contract Documents

The Respondent to whom the Contract is awarded, hereinafter called the Contractor, shall enter into a Contract with the City of Tacoma, , within 10 days after receipt from the City of Tacoma of a properly prepared Contract. In addition, the Contractor will do all things required to promptly perform this Contract pursuant to the terms of this Contract. Certain contracts for supplies, goods or equipment may use the City Purchase Order in place of a formal contract document.

B. Surety Bonds

Except as modified by the Special Provisions, the Respondent to whom the Contract is awarded shall provide a payment and performance bond, including power of attorney, for 100 percent of the amount of his/her bid (including sales taxes), to insure complete performance of the Contract including the guarantee. The bonds must be executed by a surety company licensed to do business in the State of Washington. For a supply-type contract, a cashier's check or cash may be substituted for the bonds; however, this cash or cashier's check must remain with the City through the guarantee period and any interest on said amount shall accrue to the City.

C. Independent Contractor

Contractor is an independent contractor; no personnel furnished by the Contractor shall be deemed under any circumstances to be the agent or servant of the City. Contractor shall be fully responsible for all acts or omissions of Subcontractors and its and their suppliers and of persons employed by them, and shall be specifically responsible for sufficient and competent supervision and inspection to assure compliance in every respect with the Contract. There shall be no contractual relationship between any Subcontractors or supplier and the City arising out of or by virtue of this agreement. No provision of the Contract is intended or is to be construed to be for the benefit of any third party.

2.02 CONFLICTS IN SPECIFICATIONS

Anything mentioned in the Specifications and not shown on the Drawings and anything on the Drawings and not mentioned in the Specifications shall be of like effect and shall be understood to be shown and/or mentioned in both. In case of differences between Drawings and Specifications, the Specifications shall govern. In addition, in the event of any conflict between these General Provisions, the Special Provisions, the Technical Provisions and/or the Proposal pages, the following order of precedence shall control:

1. Proposal pages prevail if they conflict with the General, Special or Technical Provisions.
2. Special Provisions prevail if they conflict with the General Provisions and/or Technical Provisions.
3. Technical Provisions prevail if they are in conflict with the General Provisions.

In case of discrepancy of figures between Drawings, Specifications or both, the matter shall immediately be submitted to the Engineer for determination. Failure to submit the discrepancy issue to the Engineer shall result in the Contractor's actions being at his/her own risk and expense. The Engineer shall furnish from time to time such detailed drawings and other information as he/she may consider necessary.

2.03 INSPECTION

A. Of the Work

All materials furnished and work done shall be subject to inspection.

The Inspector administering the Contract shall at all times have access to the work wherever it is in progress or being performed, and the Contractor shall provide proper facilities for such access and inspection. Such inspection shall not relieve the Contractor of the responsibility of performing the work correctly, utilizing the best labor and materials in strict accordance with the Specifications of this Contract. All material or work approved and later found to be defective shall be replaced without cost to the City of Tacoma.

B. Inspector's Authority

The inspector shall have power to reject materials or workmanship which do not fulfill the requirements of these Specifications, but in case of dispute the Contractor may appeal to the Director or Superintendent, whose decision shall be final. The word "Director" means the Director of the City of Tacoma General Government department that is administering the contract. The word "Superintendent" means the Superintendent of the City of Tacoma, Department of Public Utilities Division that is administering the contract.

The Contract shall be carried out under the general control of the representative of the particular City Department or Division administering the Contract, who may exercise such control over the conduct of the work as may be necessary, in his or her opinion, to safeguard the interest of the City of Tacoma. The Contractor shall comply with all orders and instructions given by the representative of the particular Department or Division administering the Contract in accordance with the terms of the Contract.

Provided, that for the purposes of construction contracts, such control shall only apply (a) to the extent necessary to ensure compliance with the provisions of this contract, and (b) to the extent necessary to fulfill any nondelegable duty of the City for the benefit of third parties not engaged in promoting the activity of this contract.

Nothing herein contained, however, shall be taken to relieve the Contractor of his/her obligations or responsibilities under the Contract.

2.04 FEDERAL, STATE AND MUNICIPAL REGULATIONS

All federal, state, municipal and/or local regulations shall be satisfied in the performance of all portions of this Contract. The Contractor shall be solely responsible for all violations of the law from any cause in connection with work performed under this Contract.

2.05 INDEMNIFICATION

A. Indemnification

Contractor acknowledges that pursuant to the terms of this agreement, Contractor is solely and totally responsible for the safety of all persons and property in the performance of this Contract. To the greatest extent allowed by law, Contractor assumes the risk of all damages, loss, cost, penalties and expense and agrees to indemnify, defend and hold harmless the City of Tacoma, from and against any and all liability which may accrue to or be sustained by the City of Tacoma on account of any claim, suit or legal action made or brought against the City of Tacoma for the death of or injury to persons (including Contractor's or subcontractor's employees) or damage to property involving Contractor, or subcontractor(s) and their employees or agents, arising out of and in connection with or incident to the performance of the Contract including if the City is found to have a nondelegable duty to see that work is performed with requisite care, except for injuries or damages caused by the sole negligence of the City. In this regard, Contractor recognizes that Contractor is waiving immunity under industrial Insurance Law, Title 51 RCW. This indemnification extends to the officials, officers and employees of the City and also includes attorney's fees and the cost of establishing the right to indemnification hereunder in favor of the City of Tacoma. In addition, within the context of competitive bidding laws, it is agreed that this indemnification has been mutually negotiated. Provided however, this provision is intended to be applicable to the parties to this agreement and it shall not be interpreted to allow a Contractor's employee to have a claim or cause of action against Contractor.

B. Limitation of Liability for Primarily Supply-Type Contracts

In all contracts where the total cost of the supply of materials and/or equipment constitute at least 70 percent of the total contract price (as determined by the City), the City agrees that it will not hold the contractor, supplier or manufacturer liable for consequential damages for that part of the contract related to the manufacture and/or design of the equipment, materials or supplies.

2.06 CONTRACTOR'S INSURANCE

A. During the course and performance of a Contract, Contractor will provide proof and maintain the insurance coverage in the amounts and in the manner specified in the City of Tacoma Insurance Requirements as is applicable to the services, products, and deliverables provided under the Contract. The City of Tacoma Insurance Requirements document, if issued, is fully incorporated into the Contract by reference.

B. Failure by City to identify a deficiency in the insurance documentation provided by Contractor or failure of City to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.

2.07 ASSIGNMENT AND SUBLETTING OF CONTRACT

C. Assignment

The Contract shall not be assigned except with the consent of the Superintendent or his/her designee.

Requests for assignment of this contract must be in writing with the written consent of the surety, and the request must show the proposed person or organization to which the contract is assigned is capable, experienced and equipped to perform such work. The proposed substitute person or organization may be required to submit to the City information as to his/her experience, financial ability and give statements covering tools, equipment, organization, plans and methods to fulfill any portion of the Contract prior to approval of assignment.

D. Subletting

The Contract shall not be sublet except with the written consent of the Superintendent or his/her designee. In the event that a prequalified electrical contractor is necessary to perform certain portions of the work, such work may be subcontracted with a City prequalified electrical contractor for the type of work involved.

Requests for subletting of this Contract must be in writing with the written consent of the Surety, and the request must show the proposed person or organization to which the Contract is sublet is capable, experienced and equipped to perform such work. The proposed substitute person or organization may be required to submit to the City information as to his experience, financial ability and give statements covering tools, equipment, organization, plans and methods to fulfill any portion of the Contract prior to approval of subletting.

The written consent approving the subletting of the Contract shall not be construed to relieve the Contractor of his/her responsibility for the fulfillment of the Contract. The Subcontractor shall be considered to be the agent of the Contractor and the Contractor agrees to be responsible for all the materials, work and indebtedness incurred by the agent.

A subcontractor shall not sublet any portion of a subcontract for work with the City without the written consent of the City.

2.08 DELAY

E. Extension of Time

With the written approval of the Superintendent or his/her designee, the Contractor may be granted additional time for completion of the work required under this Contract, if, in the Superintendent's opinion the additional time requested arises from unavoidable delay.

F. Unavoidable Delay

Unavoidable delays in the prosecution of the work shall include only delays from causes beyond the control of the Contractor and which he/she could not have avoided by the exercise of due care, prudence, foresight and diligence. Delay caused by persons other than the Contractor, Subcontractors or their employees will be considered unavoidable delays insofar as they necessarily interfere with the Contractor's completion of the work, and such delays are not part of this Contract.

Unavoidable delay will not include delays caused by weather conditions, surveys, measurements, inspections and submitting plans to the Engineer of the particular Division involved in administering this Contract.

2.09 GUARANTEE

A. Guarantee for Construction, Labor or Services Contract

Neither the final certificate of payment or any provision in the Contract Documents, nor partial or entire occupancy of the premises by the City, shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall remedy any defects in the work and pay for any damage to other work resulting therefrom, which shall appear within a period of one year from the date of final acceptance of the work unless a longer period is specified. The City will give notice of observed defects with reasonable promptness.

If it has been discovered, before payment is required under the terms of the Contract, that there is a failure to comply with any of the terms and provisions of this Contract, the City has the right and may withhold payment.

In case of a failure of any part of the work, materials, labor and equipment furnished by the Contractor or to fully meet all of the requirements of the Contract, the Contractor shall make such changes as may be necessary to fully meet all of the specifications and requirements of this Contract. Such changes shall be made at the Contractor's sole cost and expense without delay and with the least practicable inconvenience to the City of Tacoma. Rejected material and equipment shall be removed from the City's property by and at the expense of the Contractor.

B. Guarantee for Supply Contracts

Unless a longer period is specified, the supplier and/or manufacturer of the supplies, materials and/or equipment furnished pursuant to this Contract agrees to correct any defect or failure of the supplies, materials and/or equipment which occurs within one year from the date of: (1) test energization if electrical or mechanical equipment; (2) commencement of use if supplies or materials, provided, however, said guarantee period shall not extend beyond eighteen months after date of receipt by the City. All of the costs (including shipping, dismantling and reinstallation) of repairs and/or corrections of defective or failed equipment, supplies and/or material is the responsibility of the supplier and/or manufacturer.

When the supplier is not the manufacturer of the item of equipment, supplier agrees to be responsible for this guarantee and supplier is not relieved by a manufacturer's guarantee.

C. Guarantee Period Extension

The Contract guarantee period shall be suspended from the time a significant defect is first documented by the City until the work or equipment is repaired or replaced by Contractor and accepted by the City. In addition, in the event less than ninety (90) days remain on the guarantee period (after recalculating), the guarantee period shall be extended to allow for at least ninety (90) days from the date the work or equipment is repaired or replaced and accepted by the City.

2.10 DEDUCTIONS FOR UNCORRECTED WORK

If the City of Tacoma deems it expedient to correct work not done in accordance with the terms of this Contract, an equitable deduction from the Contract price shall be made.

2.11 CITY OF TACOMA'S RIGHT TO TERMINATE CONTRACT

A. Termination for Convenience

1. Supplies. The City may terminate a Contract for supplies at any time upon prior written notice to Contractor. Upon the effective date of termination specified in such notice, and payment by the City, all conforming supplies, materials, or equipment previously furnished hereunder shall become its property.
2. Services. The City may terminate a Contract for services at any time, with or without cause, by giving 10-business day's written notice to Supplier. In the event of termination, all finished and unfinished work prepared by Supplier pursuant to the Contract shall be provided to the City. In the event City terminates the Contract due to the City's own reasons and without cause due to Supplier's actions or omissions, the City shall pay Supplier the amount due for actual work and services necessarily performed under the Contract up to the effective date of termination, not to exceed the total compensation set forth in the Contract.

B. Termination for Cause

1. The City may terminate a Contract for either services or supplies in the event of any material breach of any of the terms and conditions of the Contract if the Contractor's breach continues in effect after written notice of breach and 30 days to cure such breach and fails to cure such breach
2. Bankruptcy. If the Contractor should be adjudged as bankrupt, or makes a general assignment for the benefit of creditors, or a receiver should be appointed on account of his/her insolvency, or if he/she or any of his/her subcontractors should violate any of the provisions of the Contract, or if the work is not being properly and diligently performed, the City of Tacoma may serve written notice upon the Contractor and Surety, executing the Payment and Performance Bond, of its intention to terminate the Contract; such notice will contain the reasons for termination of the Contract, and unless within 10 days after the serving of such notice, such violation shall cease and an arrangement satisfactory to the City of Tacoma for correction thereof shall be made, the Contract shall, upon the expiration of said 10 days, cease and terminate and all rights of the Contractor hereunder shall be forfeited. In the event the Contract is terminated for cause, Contractor shall not be entitled to any lost profits resulting therefrom.
3. Notice. In the event of any such termination for cause, the City of Tacoma shall immediately send (by regular mail or other method) written notice thereof to the Surety and the Contractor. Upon such termination the Surety shall have the right to take over and perform the Contract, provided however, the Surety must provide written notice to the City of its intent to complete the work within 15 calendar days of its receipt of the original written notice (from the City) of the intent to terminate. Upon termination and if the Surety does not perform the work, the City of Tacoma may take over the work and prosecute the same to completion by any method it may deem advisable, for the account of and at the expense of the Contractor, and the Contractor and the Surety shall be liable to the City of Tacoma for all cost occasioned to the City of Tacoma thereby. The City of Tacoma may without liability for doing so, take possession of and utilize in completing the work, such materials, equipment, plant and other property belonging to the Contractor as may be on the site of the work and necessary therefore.

2.12 LIENS

In the event that there are any liens on file against the City of Tacoma, the City of Tacoma shall be entitled to withhold final or progress payments to the extent deemed necessary by the City of Tacoma to properly protect the outstanding lien claimants until proper releases have been filed with the City Clerk.

2.13 LEGAL DISPUTES

A. General

Washington law shall govern the interpretation of the Contract. The state or federal courts located in Pierce County Washington shall be the sole venue of any mediation, arbitration, or litigation arising out of the Contract.

Respondents providing submittals from outside the legal jurisdiction of the United States of America will be subject to Tacoma's City Attorney's Office (CAO) opinion as to the viability of possible litigation pursuant to a contract resulting from this Specification. If it is the opinion of the CAO that any possible litigation would be beyond reasonable cost and/or enforcement, the submittal may be excluded from evaluation.

B. Attorney Fees

For contracts up to \$250,000, which become the subject of litigation or arbitration, the substantially prevailing party may be entitled to reasonable attorney fees, as provided in RCW 39.04.240. Provided, however, the attorney fee hourly rate for the City of Tacoma's assistant city attorneys is agreed to be \$150 per hour or the same as the hourly rate for Contractor's legal counsel, whichever is greater.

2.14 DELIVERY

Prices must be quoted F.O.B. destination, freight prepaid and allowed with risk of loss during transit remaining with Contractor/Supplier (unless otherwise stated in these Specifications) to the designated address set forth in these Specifications.

Deliveries shall be between 9:00 a.m. and 3:30 p.m.; Monday through Friday only (except legal holidays of the City of Tacoma).

Legal holidays of the City of Tacoma are:

New Year's Day	January 1
Martin Luther King's Birthday	3rd Monday in January
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	1st Monday in September
Veteran's Day	November 11
Thanksgiving Day	4th Thursday of November
Day after Thanksgiving	4th Friday of November
Christmas Day	December 25

When any of these holidays occur on Saturday or Sunday, the preceding Friday or the following Monday, respectively, is a legal holiday for the City of Tacoma.

2.15 PACKING SLIPS AND INVOICES

A. Packing slips and shipping notices shall be sent to the specific City Division or Department receiving the item(s) at the address stated in City's Solicitation or as otherwise stated in the Contract and include complete description of items, contents of items if crated or cased, quantity, shipping point, carrier, bill of lading number and City of Tacoma purchase order.

B. Each invoice shall show City of Tacoma purchase order number, release number if applicable, quantity, unit of measure, item description, unit price and extended price for each line if applicable, services and deliverables provided if applicable. Line totals shall be summed to give a grand total to which sales tax shall be added, if applicable.

1. For transactions conducted in SAP Ariba, invoices shall be submitted through Ariba.
2. For invoices paid by ACH or by check, unless stated otherwise, invoices shall be electronically submitted by email with corresponding PO number listed in the subject line to accountspayable@cityoftacoma.org.

3. For invoices paid by credit card, invoices shall also display the last name of the cardholder and last four digits (only) of the card number (e.g., Jones/6311). Unless stated otherwise, invoices shall be electronically submitted by email with corresponding PO number listed in the subject line to (do not combine different POs into one invoice or charge) to pcardadmin@cityoftacoma.org.

2.16 APPROVED EQUALS

A. Unless an item is indicated as "No substitute", special brands, when named, are intended to describe the standard of quality, performance or use desired. Equal items will be considered by the City, provided that the respondent specifies the brand and model, and provides all descriptive literature, independent test results, product samples, local servicing and parts availability to enable the City to evaluate the proposed "equal".

B. The decision of the City as to what items are equal shall be final and conclusive. If the City elects to purchase a brand represented by the respondent to be an "equal", the City's acceptance of the item is conditioned on the City's inspection and testing after receipt. If, in the sole judgment of the City, the item is determined not to be an equal, the item shall be returned at the respondent's expense.

C. When a brand name or level of quality is not stated by the respondent, it is understood the offer is exactly as specified. If more than one brand name is specified, respondents must clearly indicate the brand and model/part number being bid.

2.17 ENTIRE AGREEMENT

This written contract represents the entire Agreement between the parties and supersedes any prior oral statements, discussions or understandings between the parties.

2.18 CODE OF ETHICS

The City's Code of Ethics, Chapter 1.46, Tacoma Municipal Code, provides ethical standards for City personnel and prohibits certain unethical conduct by others including respondents and contractors. Violation of the City's Code of Ethics will be grounds for termination of this contract.

2.19 FEDERAL FINANCIAL ASSISTANCE

If federal funds, including FEMA financial assistance to the City of Tacoma, will be used to fund, pay or reimburse all or a portion of the Contract, Contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives and the following clauses will be incorporated into the Contract:

A. EQUAL EMPLOYMENT OPPORTUNITY During the performance of this Contract, Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

1. Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
3. The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other

employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
5. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
6. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
7. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
8. The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

B. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (B)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (B)(1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

3. Withholding for unpaid wages and liquidated damages. The City shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (B)(2) of this section.
4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (B)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (B)(1) through (4) of this section.

C. CLEAN AIR ACT

1. Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. Contractor agrees to report each violation to the City and understands and agrees that the City will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

D. FEDERAL WATER POLLUTION CONTROL ACT

1. Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
2. Contractor agrees to report each violation to the City, understands, and agrees that the City will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

E. DEBARMENT AND SUSPENSION

1. This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
2. Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
3. This certification is a material representation of fact relied upon by the City. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to (insert name of recipient/subrecipient/applicant), the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
4. Contractor agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

F. BYRD ANTI-LOBBYING AMENDMENT

1. Contractors who apply or bid for an award of \$100,000 or more shall file the required certification with City. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the City.
2. If applicable, Contractor must sign and submit to the City the following certification:

APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap.38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

G. PROCUREMENT OF RECOVERED MATERIALS

1. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired:
 - a. Competitively within a timeframe providing for compliance with the contract performance schedule;
 - b. Meeting contract performance requirements; or
 - c. At a reasonable price.
2. Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
3. Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

[Section III is for contracts that involve construction and/or labor, and are not applicable to contracts solely for material/supply purchases.]

GENERAL PROVISIONS

SECTION III - CONSTRUCTION AND/OR LABOR CONTRACTS

SECTION III REQUIREMENTS APPLY ONLY TO CONSTRUCTION AND/OR LABOR CONTRACTS AND ARE IN ADDITION TO APPLICABLE REQUIREMENTS CONTAINED IN SECTION II CONTRACT REQUIREMENTS.

3.01 RESPONDENT'S DUTY TO EXAMINE

The Respondent agrees to be responsible for examining the site(s) and to have compared them with the Specifications and Contract Drawings, and to be satisfied as to the facilities and difficulties attending the execution of the proposed Contract (such as uncertainty of weather, floods, nature and condition of materials to be handled and all other conditions, obstacles and contingencies) before the delivery of his/her Proposal. No allowance will be subsequently made by the City on behalf of the Respondent by reason of any error or neglect on Respondent's part, for such uncertainties as aforesaid.

3.02 PERMITS

Except when modified by the Special Provisions, the Contractor shall procure and pay for all permits and licenses necessary for the completion of this Contract including those permits required by the City of Tacoma. The City will obtain county or state road crossing permits if required. In the event a necessary permit is not obtained, the Contractor will not be permitted to work on items subject to said permit and any delays caused thereby will not be subject to extra compensation or extensions.

3.03 NOTIFICATION OF OTHER GOVERNMENTAL AGENCIES AND UTILITIES WHEN UNDERGROUND WORK IS INVOLVED

The Contractor shall notify all other affected governmental agencies and utilities whenever underground work is done under the terms of this Contract. The Contractor is required to obtain permission of the appropriate public and private utilities and governmental agencies before performing underground work pursuant to the terms of this Contract. The Contractor is required to call "one call" at 1-800-424-5555 for all work involving excavation or digging more than 12 inches beneath ground or road surface.

The City may have indicated on the plans and specifications the existence of certain underground facilities that are known to the City department responsible for this Contract. It is the Contractor's responsibility to fully comply with the Underground Utility Locate Law, Chapter 19.122 RCW. If the site conditions are "changed or differing" as defined by RCW 19.122.040(l), the Contractor may pursue the party responsible for not properly marking or identifying the underground facility. The Contractor agrees not to file any claim or legal action against the City (department responsible for this Contract) for said "changed or differing" conditions unless said City department is solely responsible for the delay or damages that the Contractor may have incurred.

3.04 TRENCH EXCAVATION BID ITEM

In the event that "trench excavation" in excess of four feet requires a safety system pursuant to Washington State law and safety shoring, sloping, sheeting, or bracing is used, a separate bid item should be set forth in the Proposal for this work. If a separate bid item is not set forth in the Proposal pages, said installed safety system shall be paid at \$3.00 per lineal foot of trench, which unit price includes both sides of the trench.

3.05 SAFETY

A. General

The Contractor shall, at all times, exercise adequate precautions for the safety of all persons, including its employees and the employees of a Subcontractor, in the performance of this Contract and shall comply with all applicable provisions of federal, state, county and municipal safety laws and regulations. It is the Contractor's responsibility to furnish safety equipment or to contractually require Subcontractors to furnish adequate safety equipment relevant to their responsibilities.

The Contractor shall obtain the necessary line clearance from the inspector before performing any work in, above, below or across energized Light Division circuits.

The Inspector and/or Engineer may advise the Contractor and the Safety Officer of any safety violations. It is the Contractor's responsibility to make the necessary corrections. Failure to correct safety violations is a breach of this Contract and, as such, shall be grounds for an order from the Safety Officer, Inspector or Engineer to cease further work and remove from the job site until the condition is corrected. Time and wages lost due to such safety shutdowns shall not relieve the Contractor of any provisions of Section 3.14 of this Specification and shall be at the sole cost of the Contractor. The purpose of this authority to stop work is to enforce the contract and not to assume control except to the extent necessary to ensure compliance with the provisions of this contract.

Any of the above actions by employees of the City of Tacoma shall in no way relieve the Contractor of his/her responsibility to provide for the safety of all persons, including his/her employees.

B. Work Hazard Analysis Report

The Contractor will be required to complete a work hazard analysis report. This report shall outline how the Contractor proposes to satisfy all safety laws and regulations involved in performing the work. This report shall be completed and submitted to the City Safety Officer before the pre-construction conference. A copy of the report shall be maintained at the work site (accessible to the supervisor).

3.06 PROTECTION OF WORKERS AND PROPERTY

The Contractor shall erect and maintain good and sufficient guards, barricades and signals at all unsafe places at or near the work and shall, in all cases, maintain safe passageways at all road crossings, and crosswalks, and shall do all other things necessary to prevent accident or loss of any kind.

The Contractor shall protect from damage all utilities, improvements, and all other property that is likely to become displaced or damaged by the execution of the work under this Contract.

The Contractor is responsible for all roads and property damaged by his/her operations as shall be determined by the Engineer administering this Contract. The Contractor shall be responsible for repairing all damage to roads caused by his/her operations to the satisfaction of the particular governmental body having jurisdiction over the road.

3.07 CONTRACTOR - SUPERVISION AND CHARACTER OF EMPLOYEES

A. Superintendent to Supervise Contractor's Employees

The Contractor shall keep on his/her work, during its progress, a competent superintendent and any necessary assistants, all of whom must be satisfactory to the City of Tacoma. The Contractor's superintendent shall not be changed except with the consent of the City of Tacoma, unless the Contractor's superintendent proves to be unsatisfactory to the Contractor and ceases to be in his/her employ. The Contractor's superintendent shall represent the Contractor in his/her absence and all directions given to him/her shall be binding as if given to the Contractor directly. The Contractor shall give efficient supervision to the work, using his/her best skill and attention.

B. Character of Contractor's Employees

The Contractor shall employ only competent, skillful, faithful and orderly persons to do the work, and whenever the Engineer administering the Contract shall notify the Contractor in writing that any person on the work is, in his or her opinion, incompetent, unfaithful, disorderly or otherwise unsatisfactory, the Contractor shall forthwith discharge such persons from the work and shall not again employ him or her on this Contract.

3.08 CONTRACTOR'S COMPLIANCE WITH THE LAW

A. Hours of Labor

The Contractor and Subcontractors shall be bound by the provisions of RCW Chapter 49.28 (as amended) relating to hours of labor. Except as set forth in the Special Provisions, eight (8) hours in any calendar day shall constitute a day's work on a job performed under this Contract.

In the event that the work is not performed in accordance with this provision and in accordance with the laws of the State of Washington, then this Contract may be terminated by the City of Tacoma for the reason that the same is not performed in accordance with the public policy of the State of Washington as defined in said statutes.

B. Prevailing Wages

If federal, state, local, or any applicable law requires Supplier to pay prevailing wages in connection with a Contract, and Supplier is so notified by the City, then Supplier shall pay applicable prevailing wages.

If applicable, a Schedule of Prevailing Wage Rates and/or the current prevailing wage determination made by the Secretary of Labor for the locality or localities where the Contract will be performed is attached and made of part of the Contract by this reference. If prevailing wages do apply to the Contract, Supplier and its subcontractors shall:

1. Be bound by and perform all transactions regarding the Contract relating to prevailing wages and the usual fringe benefits in compliance with the provisions of Chapter 39.12 RCW, as amended, the Washington State Prevailing Wage Act and/or the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29 C.F.R. pt. 5 as may be applicable, including the federal requirement to pay wages not less than once a week,
2. Ensure that no worker, laborer or mechanic employed in the performance of any part of the Contract shall be paid less than the prevailing rate of wage specified on that Schedule and/or specified in a wage determination made by the Secretary of Labor (unless specifically preempted by federal law, the higher of the Washington state prevailing wage or federal Davis-Bacon rate of wage must be paid) and Additionally, in compliance with applicable federal law, contractors are required to pay wages not less than once a week.
3. Immediately upon award of the Contract, contact the Department of Labor and Industries, Prevailing Wages section, Olympia, Washington and/or the federal Department of Labor, to obtain full information, forms and procedures relating to these matters. Per such procedures, a Statement of Intent to Pay Prevailing Wages and/or other or additional documentation required by applicable federal law, must be submitted by Contractor and its subcontractors to the City, in the manner requested by the City, prior to any payment by the City hereunder, and an Affidavit of Wages Paid and/or other or additional documentation required by federal law must be received or verified by the City prior to final Contract payment. In the event any dispute arises as to what are the prevailing rates of wages for work of a similar nature and such dispute cannot be adjusted by the parties in interest, including labor and management representatives, the matter shall be referred for arbitration to the Director of the State of Washington, Department of Labor and industries whose decision shall be final, conclusive and binding on all parties involved in the dispute.

3.09 COPELAND ANTI-KICKBACK ACT

For contracts subject to Davis Bacon Act the following clauses will be incorporated into the Contract:

A. Contractor. The contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.

B. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

C. Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

3.10 CHANGES

A. In Plans or Quantities

The City of Tacoma, without invalidating this Contract, or any part of this Contract, may order extra work or make reasonable changes by altering, adding to or deducting from the materials, work and labor and the Contract sum will be adjusted accordingly. All such work and labor shall be executed under the conditions of the original Contract except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such change. When work or bid items are deducted, reduced or eliminated, it is agreed that no payment will be made to Contractor for anticipated profit.

B. Extra Work

Any claim or order for extra materials, work and labor made necessary by alterations or additions to the plans or by other reasons for which no price is provided in this Contract, shall not be valid unless the Contractor and Engineer administering the Contract have agreed upon a price prior to commencing extra work, and the agreement has been signed by the Contractor and approved by the Superintendent or his/her designee, and approved by the payment and performance bond surety.

C. Extra Work - No Agreed Price

If it is impracticable to fix an increase in price definitely in advance, the order may fix a maximum price which shall not under any circumstances, be exceeded, and subject to such limitation, such alteration, modification, or extra shall be paid for at the actual necessary cost as determined by the City of Tacoma, which cost (including an allowance for profit) shall be determined as the sum of the following items (1) to (7) inclusive:

- (1) Labor, computed at regular wage scale, including premium on compensation insurance and charge for social security taxes, and other taxes, pertaining to labor; no charge for premium pay shall be allowed unless authorized by the Engineer administering the Contract;
- (2) The proportionate cost of premiums on comprehensive general liability and other insurance applicable to the extra work involved and required under this Contract;
- (3) Material, including sales taxes pertaining to materials;
- (4) Plant and equipment rental, to be agreed upon in writing before the work is begun; no charge for the cost of repairs to plant or equipment will be allowed;
- (5) Superintendence, general expense and profit computed at 20 percent of the total of paragraphs (1) to (4) inclusive;
- (6) The proportionate cost of premiums on bonds required by this Contract, computed by 1 1/2 percent of the total of paragraphs (1) to (5) inclusive.
- (7) The City of Tacoma reserves the right to furnish such materials as it may deem expedient, and no allowance will be made for profit thereon.

Whenever any extra work is in progress, for which the definite price has not been agreed on in advance, the Contractor shall each day, report to the Engineer the amount and cost of the labor and material used, and any other expense incurred in such extra work on the preceding day, and no claim for compensation for such extra work will be allowed unless such report shall have been made.

The above-described methods of determining the payment for work and materials shall not apply to the performance of any work or the furnishing of any material, which, in the judgment of the Engineer administering the Contract, may properly be classified under items for which prices are established in the Contract.

D. Claims for Extra Work

If the Contractor claims that any instructions by drawings or otherwise, involve extra cost under this Contract, he/she shall give the City of Tacoma written notice thereof within 30 days after receipt of such instruction, and in any event before proceeding to execute the work, except in an emergency endangering life or property, and the procedures governing the same shall be as provided for immediately above in this paragraph. The method in these paragraphs is the only method available to the Contractor for payment of claims for extra work performed under the terms of this Contract.

3.11 CLEANING UP

The Contractor shall at all times, at his/her own expense, keep the premises free from accumulation of waste materials or debris caused by any workers or the work, at the completion of the work the Contractor shall remove all his waste materials from and about the site and all his/her equipment, sanitary facilities and surplus materials. In the case of dispute, the City of Tacoma may remove the debris and charge the cost to the Contractor as the City of Tacoma shall determine to be just. All material that is deposited or placed elsewhere than in places designated or approved by the Engineer administering the Contract will not be paid for and the Contractor may be required to remove such material and deposit or place it where directed.

3.12 PROGRESS PAYMENT

Progress payments will be made up to the amount of ninety-five percent (95%) of the actual work completed as shall be determined by the Engineer administering the Contract.

The Contractor may request that an escrow account be established as permitted by law, in which event the Contractor will earn interest on the retained funds.

When the time for construction, services and/or installation will exceed thirty (30) days, the Contractor may request, by invoice, to be paid a progress payment based on percentage of work completed. The Engineer will review and approve the progress payment request on a monthly basis.

3.13 FINAL PAYMENT

The final payment of five percent (5%) of the Contract price shall be approved on final acceptance of the work under this Contract by the Superintendent or his/her designee. In addition, before final payment is made, the Contractor shall be required to:

- A. Provide a certificate from the Washington State Department of Revenue that all taxes due from the Contractor have been paid or are collectible in accordance with the provisions of Chapter 60.28 and Title 82 of the Revised Code of Washington;
- B. Provide the General Release to the City of Tacoma on the form set forth in these Contract documents;
- C. Provide a release of any outstanding liens that have been otherwise filed against any monies held or retained by the City of Tacoma;
- D. File with the City Director of Finance, and with the Director of the Washington State Department of Labor and Industries, on the state form to be provided, an affidavit of wages paid;
- E. File with the City Director of Finance, on the state form to be provided, a statement from the State of Washington, Department of Labor and Industries, certifying that the prevailing wage requirements have been satisfied.
- F. File with the City Director of Finance, on the state form to be provided, a statement of release from the Public Works Contracts Division of the State of Washington, Department of Labor and Industries, verifying that all industrial insurance and medical aid premiums have been paid.

If there is a fee assessed to the City for any certificate, release or other form required by law, the contractor agrees that the fee amount may be passed on to the Contractor and deducted from the monies paid to the Contractor.

3.14 FAILURE TO COMPLETE THE WORK ON TIME

Should the completion of the work required under the Contract be delayed beyond the expiration of the period herein set for the completion of said work, or such extension of said period as may be allowed by reason of unavoidable delays, there shall be deducted from the total Contract price of work, for each calendar day by which such completion shall be delayed beyond said period of such extension thereof the sum of \$300 or a sum of money as set forth hereinafter in these Specifications, as the amount of such deduction per calendar day.

Said sum shall be considered not as a penalty, but as liquidated damages, which the City will suffer by reason of the failure of the Contractor to perform and complete the work within the period, herein fixed or such extensions of said period as may be allowed by reason of unavoidable delays.

Any money due or to become due the Contractor may be retained by the City to cover said liquidated damages, and should such money not be sufficient to cover such damages, the City shall have the right to recover the balance from the Contractor or his/her Sureties.

The filing of any bid for the work herein contemplated shall constitute acknowledgment by the Respondent that he/she understands, agrees and has ascertained that the City will actually suffer damages to the amount hereinabove fixed for each and every calendar day during which the completion of the work herein required shall be delayed beyond the expiration of the period herein fixed for such completion or such extension of said period as may be allowed by reason of unavoidable delays.

3.15 CITY RESERVES RIGHT TO USE FACILITIES PRIOR TO ACCEPTANCE

The City of Tacoma hereby reserves the right to use the facilities herein contracted prior to final acceptance under this Contract. The use of said facilities, as mentioned herein, shall not be construed as a waiver or relinquishment of any rights that the City of Tacoma has under this Contract.

3.16 LIST OF SUBCONTRACTORS

Bid proposals for construction, alteration or repair of any building or other public works that may exceed \$1,000,000 including tax shall satisfy the following requirement: Respondent shall submit as part of the bid, the names of the subcontractors, with whom the respondent, if awarded the contract, will subcontract performance of the work of heating, ventilation and air conditioning, plumbing as described in chapter 18.106 RCW, and electrical as described in chapter 19.28 RCW, or to name itself for the work. The respondent shall not list more than one subcontractor for each category of work identified, unless subcontractors vary with bid alternates, in which case the respondent must indicate which subcontractor will be used for which alternate. Failure to comply with this provision or the naming of two or more subcontractors to perform the same work shall require the City (pursuant to state law RCW 39.30.060) to determine that respondent's bid is nonresponsive; therefore, the bid will be rejected.

1. SPECIAL REMINDER TO ALL BIDDERS

HEALTH & SAFETY: Be sure to comply with all City of Tacoma health and safety requirements.

1. This project has been deemed to be an essential project by the City of Tacoma and it is anticipated that the contract will be operational during the COVID-19 outbreak. Therefore the contractor shall complete a health and safety plan describing how the contractor will complete the work while combating the COVID-19 spread (social distancing practices) and what Personal Protective Equipment (PPE) will be in place.

PLEASE NOTE: Be sure you have complied with all specifications and requirements and have signed all required documents.

YOUR ATTENTION IS PARTICULARLY CALLED to the following forms, which must be executed in full before the bid is submitted:

1. BID PROPOSAL: The unit prices bid must be shown in the space provided. Check your computations for omissions and errors.

2. SIGNATURE PAGE: To be filled in and executed by a duly authorized officer or representative of the bidding entity. If the bidder is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.

3. SUSTAINABILITY: To be filled in by the bidder.

4. EIC UTILIZATION FORM: To be filled in by the bidder.

5. STATE RESPONSIBILITY AND RECIPROCAL BID PREFERENCE INFORMATION: Bidders shall complete this form in its entirety to ensure compliance with state legislation (SHB 2010).

6. CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2017).

7. RECORD OF PRIOR CONTRACTS: To be filled in by the bidder.

POST AWARD FORMS EXECUTED UPON AWARD:

A. CONTRACT: Must be executed by the successful bidder.

B. PAYMENT BOND TO THE CITY OF TACOMA: Must be executed by the successful bidder and his/her surety company.

C. PERFORMANCE BOND TO THE CITY OF TACOMA: Must be executed by the successful bidder and his/her surety company.

D. CERTIFICATE OF INSURANCE: Shall be submitted with all required endorsements.

E. GENERAL RELEASE.

CODE OF ETHICS: The successful bidder agrees that its violation of the City's Code of Ethics contained in TMC Chapter 1.46 shall constitute a breach of the contract subjecting the contract to termination.

2. SPECIAL NOTICE TO BIDDERS

Public works and improvement projects for the City of Tacoma are subject to Washington state law and Tacoma Municipal Code, including, but not limited to the following:

I. STATE OF WASHINGTON

A. RESPONSIBILITY CRITERIA – STATE OF WASHINGTON

In order to be considered a responsible bidder the bidder must meet the following mandatory state responsibility criteria contained in RCW 39.04.350:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of bid submittal;
2. Have a current Washington Unified Business Identifier (UBI) number;
3. If applicable:
 - a. Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
 - b. Have a Washington Employment Security Department number, as required in Title 50 RCW;
 - c. Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW and;
4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 (unlicensed or unregistered contractors) or 39.12.065(3) (prevailing wage).
5. Have received training on the requirements related to public works and prevailing wage under this chapter and chapter 39.12 RCW and must designate a person or persons to be trained on these requirements. The training must be provided by the department of labor and industries or by a training provider whose curriculum is approved by the department. Bidders that have completed three or more public works projects and have had a valid business license in Washington for three or more years are exempt from this subsection.

B. RECIPROCAL PREFERENCE FOR RESIDENT CONTRACTORS:

Effective March 30, 2012, RCW 39.04.380 imposes a reciprocal preference for resident contractors. Any bid received from a non-resident contractor from a state that provides an in-state percentage bidding preference is subject application of a comparable percentage disadvantage.

A non-resident contractor from a state that provides an in-state percentage bidding preference means a contractor that:

1. Is from a state that provides a percentage bid preference to its resident contractors bidding on public works projects, and
2. Does not have a physical office located in Washington at the time of bidding on the City of Tacoma public works project.

The state of residence for a non-resident contractor is the state in which the contractor was incorporated, or if not a corporation, the state in which the contractor's business entity was formed.

The City of Tacoma will evaluate all non-resident contractors for an out of state bidder preference. If the state of the non-resident contractor provides an in state contractor preference, a comparable percentage disadvantage will be applied to the non-resident contractor's bid prior to contract award. The responsive and lowest and best responsible bidder after application of any non-resident disadvantage will be awarded the contract.

The reciprocal preference evaluation does not apply to public works procured pursuant to RCW 39.04.155, RCW 39.04.280, federally funded competitive solicitations where such agencies prohibit the application of bid preferences, or any other procurement exempt from competitive bidding.

Bidders must provide the City of Tacoma with their state of incorporation or the state in which the business entity was formed and include whether the bidder has a physical office located in Washington.

The bidder shall submit documentation demonstrating compliance with above criteria on the enclosed State Responsibility and Reciprocal Bidder Information form.

C. SUBCONTRACTOR RESPONSIBILITY

1. The Contractor shall include the language of this subcontractor responsibility section in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. The requirements of this section apply to all subcontractors regardless of tier.
2. At the time of subcontract execution, the Contractor shall verify that each of

its first tiersubcontractors meets the following bidder responsibility criteria:

- a. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontractbid submittal;
- b. Have a current Washington Unified Business Identifier (UBI) number;
- c. If applicable, have:
 - i. Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
 - ii. A Washington Employment Security Department number, as required in Title 50 RCW;
 - iii. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
 - iv. An electrical contractor license, if required by Chapter 19.28 RCW;
 - v. An elevator contractor license, if required by Chapter 70.87 RCW and;
3. Not be disqualified from bidding on any public works contract under RCW 39.06.010(unlicensed or unregistered contractors) or 39.12.065(3) (prevailing wage).

II. CITY OF TACOMA

A. SUPPLEMENTAL RESPONSIBILITY CRITERIA – CITY OF TACOMA:

In order to be considered a responsible bidder, the prospective bidder shall have all of the following qualifications set forth in Tacoma Municipal Code 1.06.262:

1. Adequate financial resources or the ability to secure such resources;
2. The necessary experience, stability, organization and technical qualifications to perform the proposed contract;
3. The ability to comply with the required performance schedule, taking into consideration all existing business commitments;
4. A satisfactory record of performance, integrity, judgment and skills; and
5. Be otherwise qualified and eligible to receive an award under applicable laws and regulations.
 - a. Bidder Responsibility. Bidders shall not be in violation of 39.04.350 RCW Bidder Responsibility Criteria - Supplemental Criteria.

In addition to the mandatory bidder responsibility criteria listed immediately above, the City may, in addition to price, consider any or all of the following criteria contained in Tacoma Municipal Code Chapter 1.06.262 in determining bidder responsibility:

1. The ability, capacity, experience, stability, technical qualifications and skill of the respondent to perform the contract;
2. Whether the respondent can perform the contract within the time specified, without delay or interference;
3. Integrity, reputation, character, judgment, experience, and efficiency of the

- respondents, including past compliance with the City's Ethics Code;
4. Quality of performance of previous contracts;
 5. Previous and existing compliance with laws and ordinances relating to contracts or services;
 6. Sufficiency of the respondent's financial resources;
 7. Quality, availability, and adaptability of the supplies, purchased services or public works to the particular use required;
 8. Ability of the respondent to provide future maintenance and service on a timely basis;
 9. Payment terms and prompt pay discounts;
 10. The number and scope of conditions attached to the submittal;
 11. Compliance with all applicable City requirements, including but not limited to the City's Ethics Code and its Small Business Enterprise and Local Employment and Apprenticeship programs;
 12. Other qualification criteria set forth in the specification or advertisement that the appropriate department or division head determines to be in the best interests of the City.

The City may require bidders to furnish information, sworn or certified to be true, to demonstrate compliance with the City responsibility criteria set forth above. If the city manager or director of utilities is not satisfied with the sufficiency of the information provided, or if the prospective respondent does not substantially meet all responsibility requirements, any submittal from such respondent must be disregarded.

B. ADDITIONAL SUPPLEMENTAL CRITERIA

Not applicable

C. MODIFICATIONS TO SUPPLEMENTAL CRITERIA

Potential bidders may request modifications to the City's supplemental criteria by submitting a written request to the Purchasing Division via email to bids@cityoftacoma.org no later than 5:00

p.m. Pacific Time, three days prior to the submittal deadline. Please include the Specification No. and Title when submitting such requests. Requests must include justification for why certain criteria should be modified. Requests received after this date and time will not be considered.

The City will respond to a timely submitted request prior to the bid opening date. Changes to the supplemental criteria, if warranted, will be issued by addendum to the solicitation documents and posted to the City's website for the attention of all prospective bidders.

D. DETERMINATION OF BIDDER RESPONSIBILITY

If the City determines the bidder does not meet the criteria above and is therefore not a responsible bidder, the City shall notify the bidder in writing with the reasons for its determination. If the bidder disagrees, the bidder may appeal the

determination in a manner consistent with the City's Protest Policy. Appeals are coordinated by the Purchasing Division heard by the Procurement and Payables Division manager for contracts less than or equal to

\$500,000 and by Contracts and Awards Board for contracts greater than \$500,000.

3. DESCRIPTION OF WORK

Installation of one (1) cathodic protection impressed current systems. The systems shall be a deep well anode groundbed, rectifier, power service with meter base and load center, test station, anode shunt box, service disconnect, equipment pedestal, conduit, wiring, trenching, backfill material, surface restoration, other materials, traffic control plan, and permitting necessary for a complete operational system.

In addition, installation of one (1) isolation membrane between a Tacoma Water pipeline and a Puget Sound Energy pipeline. This work shall include excavating both pipelines, supplying and installing a dielectric membrane between both pipelines, installing test wires, reference cell, wiring, trenching, backfill material, surface restoration, materials, and permitting necessary for a complete installation.

4. CALENDAR OF EVENTS

This is a tentative schedule only and may be altered at the sole discretion of the City. The anticipated schedule of events concerning this RFB is as follows:

Post Bid:	09/15/2021
Question Deadline:	09/22/2021
City response to Questions:	09/29/2021
Submittal Due Date:	10/06/2021
Anticipated Award Date:	10/15/2021

5. INQUIRIES

Questions and request for clarifications of the specifications may be submitted in writing by **3:00p.m., Pacific Time, Wednesday, September 22, 2021**, to Carly Fowler, Purchasing Division, via email to cfowler@cityoftacoma.org. No further questions will be accepted after this date and time. The City will not be responsible for unsuccessful submittal of questions.

Written answers to all questions submitted will be posted on the Purchasing website at www.TacomaPurchasing.org on or about **Wednesday, September 29, 2021**. The City reserves the discretion to group similar questions to provide a single answer or not to respond when the requested information is confidential. The answers are not typically considered an addendum.

5.1 Questions marked confidential will not be answered or included.

5.2 The City reserves the discretion to group similar questions to provide a single answer or not to respond when the requested information is confidential.

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- 5.3** The answers are not typically considered an addendum.
- 5.4** The City will not be responsible for unsuccessful submittal of questions.
- 5.5** Written answers to questions will be posted in the event approximately one week after the question deadline.

6. PRE-BID MEETING

A pre-bid meeting will not be held.

7. DISCLAIMER

The City is not liable for any costs incurred by the Respondent for the preparation of materials or a proposal submitted in response to this RFB, for conducting any presentations to the City, or any other activities related to responding to this RFB, or to any subsequent requirements of the contract negotiation process.

8. DELIVERY

- 8.1** Hours of operation shall be Monday through Friday, 8:00 a.m. to 3:30 p.m., excluding legal holidays, as referred to in the Standard Terms and Conditions or as otherwise approved by the City.

9. RESPONSIVENESS

Bid submittals must provide ninety (90) days for acceptance by City from the due date for receipt of submittals. All submittals will be reviewed by the City to determine compliance with the requirements and instructions specified in this RFB. The Respondent is specifically notified that failure to comply with any part of this RFB may result in rejection of the submittal as non-responsive. The City reserves the right, in its sole discretion, to waive irregularities deemed immaterial. The City also reserves the right to not award a contract or to issue subsequent RFB's

10. AWARD

Award will be made to the lowest responsive, responsible bidder. All bidders shall provide unit or lump sum pricing for each line item. Each line item will be added up for a subtotal price. The subtotal price will be compared amongst each bidder, including any payment discount terms offered twenty (20) days or more. The City may also take into consideration all other criteria for determining award, including evaluation factors set forth in Municipal Code Section 1.06.262.

All other elements or factors, whether or not specifically provided for in this specification, which would affect the final cost to and the benefits to be derived by the City will be considered in determining the award of the contract. The final award decision will be based on the best interests of the City.

The City reserves the right to let the contract to the lowest responsible bidder whose bid will be the most advantageous to the City, price and any other factors considered. In evaluating the proposals, the City may also consider any or all of the following:

1. Compliance with specification.
2. Proposal prices, listed separately if requested, as well as a lump sum total
3. Time of completion/delivery.
4. Warranty terms.
5. Bidder's responsibility based on, but not limited to:
 - a) Ability, capacity, organization, technical qualifications and skill to perform the contract or provide the services required.
 - b) References, judgment, experience, efficiency and stability.
 - c) Whether the contract can be performed within the time specified.
 - d) Quality of performance of previous contracts or services

11. PREVAILING WAGE RATES

This project requires prevailing wages under [39.12 RCW](#). Any worker, laborer, or mechanic employed in the performance of any part of the work shall be paid not less than the applicable prevailing rate of wage.

The project site is located in Pierce County.

The effective date for prevailing wages on this project will be the **submittal deadline** with these exceptions:

- a. If the project is not awarded within six months of the submittal deadline, the award date is the effective date.
- b. If the project is not awarded pursuant to a competitive solicitation, the date the contract is executed is the effective date.
- c. Janitorial contracts follow WAC 296-127-023.

Except for janitorial contracts, these rates shall apply for the duration of the contract unless otherwise noted in the solicitation.

Look up prevailing rates of pay, benefits, and overtime codes from

this link: <https://secure.lni.wa.gov/wagelookup/>

REQUIRED FILINGS

The contractor and all subcontractors covered under [39.12 RCW](#) shall submit to the Department of Labor and Industries (L&I) for work provided under this contract:

1. A Statement of Intent to Pay Prevailing Wages must be filed with and approved by L&I upon award of contract.

2. An Affidavit of Wages Paid must be filed with and approved by L&I upon job completion.

Payments cannot be released by the City until verification of these filings are received by the engineer. Additional information regarding these filings can be obtained by calling the Department of Labor & Industries, Prevailing Wage at 360-902-5335, <https://www.lni.wa.gov/> or by visiting their MY L&I account.

Work conducted within Tacoma city limits. State of Washington prevailing wages or City of Tacoma minimum wage rates, whichever are higher, must be paid. If City of Tacoma minimum wage rates are higher than state of Washington prevailing wage rates, City of Tacoma rates must be paid.

12. INSURANCE REQUIREMENTS

The Contractor (Contractor) shall maintain at least the minimum insurance set forth below. By requiring such minimum insurance, the City of Tacoma shall not be deemed or construed to have assessed the risk that may be applicable to Contractor under this Contract. Contractor shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage.

GENERAL REQUIREMENTS

The following General Requirements apply to Contractor and to Subcontractor(s) of every tier performing services and/or activities pursuant to the terms of this Contract. Contractor acknowledges and agrees to the following insurance requirements applicable to Contractor and Contractor's Subcontractor(s):

- 1.1. City of Tacoma reserves the right to approve or reject the insurance provided based upon the insurer, terms and coverage, the Certificate of Insurance, and/or endorsements.
- 1.2. Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by City of Tacoma.
- 1.3. Contractor shall keep this insurance in force during the entire term of the Contract and for Thirty (30) calendar days after completion of all work required by the Contract, unless otherwise provided herein.
- 1.4. Insurance policies required under this Contract that name "City of Tacoma" as Additional Insured shall:
 - 1.4.1. Be considered primary and non-contributory for all claims.
 - 1.4.2. Contain a "Separation of Insured provision and a "Waiver of Subrogation" clause in favor of City of Tacoma.
- 1.5. Section 1.4 above does not apply to contracts for purchasing supplies only.

1.6.Verification of coverage shall include:

1.6.1. An ACORD certificate or equivalent.

1.6.2. Copies of all endorsements naming the City of Tacoma as additional insured and showing the policy number.

1.6.3. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.

1.7.Liability insurance policies, with the exception of Professional Liability and Workers' Compensation, shall name the City of Tacoma and its officers, elected officials, employees, agents, and authorized volunteers as additional insured.

1.7.1. No specific person or department should be identified as the additional insured.

1.7.2. All references on certificates of insurance and endorsements shall be listed as "City of Tacoma".

1.7.3. The City of Tacoma shall be additional insured for both ongoing and completed operations using Insurance Services Office (ISO) form CG 20 10 04 13 and CG 20 37 04 13 or the equivalent for the full available limits of liability maintained by the Contractor 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 describes limits lower than those maintained by the Contractor.

1.8. Contractor shall provide a Certificate of Insurance for each policy of insurance meeting the requirements set forth herein when Contractor provides the signed Contract for the work to City of Tacoma. Contractor shall provide copies of any applicable Additional Insured, Waiver of Subrogation, and Primary and Non-contributory endorsements. Contract or Permit number and the City Department must be shown on the Certificate of Insurance.

1.9. Insurance limits shown below may be written with an excess policy that follows the form of an underlying primary liability policy or an excess policy providing the required limit.

1.10. Liability insurance policies shall be written on an "occurrence" form, except for Professional Liability/Errors and Omissions, Pollution Liability, and Cyber/Privacy and Security

1.11. If coverage is approved and purchased on a "Claims-Made" basis, Contractor warrants continuation of coverage, either through policy renewals or by the purchase of an extended reporting period endorsement as set forth below.

1.12. The insurance must be written by companies licensed or authorized in the State of Washington pursuant to RCW 48 with an (A-) VII or higher in the A.M. Best's Key Rating Guide www.ambest.com.

- 1.13. Contractor shall provide City of Tacoma notice of any cancellation or non-renewal of this required insurance within Thirty (30) calendar days.
- 1.14. Contractor shall not allow any insurance to be cancelled or lapse during any term of this Contract, otherwise it shall constitute a material breach of the Contract, upon which City of Tacoma may, after giving Five (5) business day notice to 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 City of Tacoma by Contractor upon demand, or at the sole discretion of City of Tacoma, offset against funds due Contractor from City of Tacoma.
- 1.15. Contractor shall be responsible for the payment of all premiums, deductibles and self-insured retentions, and shall indemnify and hold the City of Tacoma harmless to the extent such a deductible or self-insured retained limit may apply to the City of Tacoma as an additional insured. Any deductible or self-insured retained limits in excess of Twenty Five Thousand Dollars (\$25,000) must be disclosed and approved by City of Tacoma Risk Manager and shown on the Certificate of Insurance.
- 1.16. City of Tacoma reserves the right to review insurance requirements during any term of the Contract and to require that Contractor make reasonable adjustments when the scope of services has changed.
- 1.17. 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 by City of Tacoma to Contractor.
- 1.18. Insurance coverages specified in this Contract are not intended and will not be interpreted to limit the responsibility or liability of Contractor or Subcontractor(s).
- 1.19. Failure by City of Tacoma to identify a deficiency in the insurance documentation provided by Contractor or failure of City of Tacoma to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- 1.20. If Contractor is a State of Washington or local government and is self-insured for any of the above insurance requirements, a certification of self-insurance shall be attached hereto and be incorporated by reference and shall constitute compliance with this Section.

CONTRACTOR

As used herein, "Contractor" shall be the Supplier(s) entering a Contract with City of Tacoma, whether designated as a Supplier, Contractor, Vendor, Proposer, Bidder,

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Respondent, Seller, Merchant, Service Provider, or otherwise.

SUBCONTRACTORS

It is Contractor's responsibility to ensure that each subcontractor obtain and maintain adequate liability insurance coverage. Contractor shall provide evidence of such insurance upon City of Tacoma's request.

REQUIRED INSURANCE AND LIMITS

The insurance policies shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve Contractor from liability in excess of such limits.

4.1 Commercial General Liability Insurance

Contractor shall maintain Commercial General Liability Insurance policy with limits not less than One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) annual aggregate. The Commercial General Liability Insurance policy shall be written on an Insurance Services Office form CG 00 01 04 13 or its equivalent. Products and Completed Operations shall be maintained for a period of three years following Substantial Completion of the Work related to performing construction services.

This policy shall include product liability especially when a Contract solely is for purchasing supplies. The Commercial General Liability policy shall be endorsed to include:

4.1.1 A per project aggregate policy limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

4.2 Commercial (Business) Automobile Liability Insurance

Contractor shall maintain Commercial Automobile Liability policy with limits not less than One Million Dollars (\$1,000,000) each accident for bodily injury and property damage and bodily injury and property damage coverage for owned (if any), non-owned, hired, or leased vehicles. Commercial Automobile Liability Insurance shall be written using ISO form CA 00 01 or equivalent. Contractor must also maintain an MCS 90 endorsement or equivalent and a CA 99 48 endorsement or equivalent if "Pollutants" are to be transported.

4.3 Workers' Compensation

Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington, as well as any other similar coverage required for this work by applicable federal laws of other states. The Contractor must comply with their domicile State Industrial Insurance laws if it is outside the State of Washington.

4.4 Employers' Liability Insurance

Contractor shall maintain Employers' Liability coverage with limits not less than One Million Dollars (\$1,000,000) each employee, One Million Dollars (\$1,000,000) each accident, and One Million Dollars (\$1,000,000) policy limit.

4.5 Pollution Liability Insurance

Contractor shall maintain a Pollution Liability or Environmental Liability Insurance providing coverage, including investigation and defense costs, for bodily injury and property damage, including loss of use of damaged property or of property that has been physically damaged or destroyed.

Such coverage shall provide both on-site and off-site cleanup costs and cover gradual and sudden pollution, and include in its scope of coverage the City of Tacoma damage claims for loss arising out of Contractor's work with limits not less than One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) aggregate.

This policy shall include Environmental Resource Damage coverage and Hazardous Substance Removal. If such coverage is provided on a "claims-made" basis, the following additional conditions must be met:

4.5.1 The policy must contain no retroactive date, or the retroactive date must precede the commencement date of this Contract.

4.5.2 The extended reporting period (tail) must be purchased to cover a minimum of Six (6) years beyond completion of work.

4.6 Installation Floater Insurance

Contractor shall maintain during the term of the Contract, at its own expense, Installation Floater Insurance covering Contractor's labor, materials, and equipment to be used for completion of the work performed under this Contract against all risks of direct physical loss, excluding earthquake and flood, for an amount equal to the full amount of the Contract improvements.

4.7 Other Insurance

Other insurance may be deemed appropriate to cover risks and exposures related to the scope of work or changes to the scope of work required by City of Tacoma. The costs of such necessary and appropriate Insurance coverage shall be borne by Contractor.

13. INSPECTION

All goods are subject to final inspection and acceptance by the City. If any inspection fails, the vendor shall be required to make arrangements to exchange the goods at their own expense and replace it in a timely manner acceptable to the City.

Material failing to meet the requirements of this contract will be held at Vendor's risk and may be returned to Vendor. If so returned, the cost of transportation, unpacking, inspection, repackaging, reshipping, or other like expenses are the responsibility of the Vendor.

14. APPROVED ITEM EQUIVALENT

A specific manufacturer for almost all line items has been listed in the Technical Specifications because this is the current manufacturer accepted. For those line items,

which do not list a specific manufacturer, bidders shall provide the technical specifications for the manufacturer they are offering. The City may request, after the bid due date, a sample of that product for review and approval by the City. The City reserves all rights to be the sole judge as to whether any other manufacturer can meet or exceed the current specifications they use. Unless an item is indicated "No Substitute", approved equivalents shall be submitted by the date listed in the Calendar of Events section. Equivalents will be approved by Addendum to the solicitation.

15. COMPLIANCE WITH SPECIFICATIONS

All products shall be new and unused. Any product that does not comply with any part of these technical specifications shall be rejected and the vendor shall, at its own expense, including shipping, replace the item.

16. MATERIALS AND WORKMANSHIP

The successful bidder shall be required to furnish all materials necessary to perform contractual requirements. Materials and workmanship for this contract shall conform to all codes, regulations and requirements for such specifications contained herein and the normal uses for which intended. Material shall be manufactured in accordance with the best commercial practices and standards for this type of goods. All literature and products must be packaged and labeled to sell in the United States.

17. ENVIRONMENTALLY PREFERABLE PROCUREMENT

In accordance with the City of Tacoma's [Sustainable Procurement Policy](#), it is the policy of the City of Tacoma to encourage the use of products or services that help to minimize the environmental and human health impacts of City Operations.

Respondents are encouraged to incorporate environmentally preferable products or services that have a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. This comparison may consider raw materials acquisition, products, manufacturing, packaging, distribution reuse, operation, maintenance or disposal of the product or service.

The City of Tacoma encourages the use of sustainability practices and desires any awarded contractor(s) to assist in efforts to address such factors when feasible for:

- Reduction of pollutant releases
- Toxicity of materials used
- Waste generation
- Greenhouse gas emissions, including transportation of materials and services
- Recycle content
- Comprehensive energy conservation measures
- Waste management reduction plans
- Potential impact on human health and the environment

18. EQUITY IN CONTRACTING

The City of Tacoma is committed to encouraging firms certified through the [Washington State Office of Minority and Women's Business Enterprise](#) to participate in City contracting opportunities. See the **TMC 1.07 Equity in Contracting Policy** at the City's [Equity in Contracting Program website](#).

EIC REQUIREMENT FORM

EQUITY IN CONTRACTING REQUIREMENTS & PROCEDURES:

All bidders must complete and submit with their bid the following solicitation form contained in the bid submittal package:

City of Tacoma – EIC Utilization Form

IMPORTANT NOTE:

It is the bidder's responsibility to insure that the EIC-eligible subcontractor(s) listed on the EIC Utilization Form are currently certified by the State of Washington's Office of Minority and Women Business Enterprises (OMWBE) at the time of bid opening. This may be verified by contacting the EIC Office at 253-591-5075 between 8 AM and 5 PM, Monday through Friday or the OMWBE Office. Please refer to the City of Tacoma EIC Provisions included elsewhere in these Special Provisions.

Equity in Contracting Requirements

Minority Business
Enterprise Requirement

4%

Women Business
Enterprise Requirement

2%

Small Business Enterprise
Requirement

5%

A list of EIC-eligible companies is available on the following web site addresses:

www.omwbe.diversitycompliance.com*

MATERIAL MISSTATEMENTS CONCERNING COMPLETED ACTIONS BY THE BIDDER IN ANY SWORN STATEMENT OR FAILURE TO MEET COMMITMENTS AS INDICATED ON THE EIC UTILIZATION FORM MAY RENDER THE BIDDER IN DEFAULT OF CITY ORDINANCE 1.07

CCD/SBE: TW21-0044N
Date of Record: 5/13/2021

*For the OMWBE list, be sure to look for businesses in Pierce, King, Lewis, Mason, Grays Harbor, Thurston, or any counties adjacent to the county in which the work is performed per 1.07.050(2)(b-c). Contact the EIC Office if you have any questions.

**CITY OF TACOMA
FINANCE/PURCHASING DIVISION**

SPECIAL NOTICE TO BIDDERS

Equity in Contracting – EIC

Equity in Contracting (EIC) forms and attachments must be fully and accurately completed and returned at the time of Bids. Failure to do so may result in the proposal being considered nonresponsive. These forms will be used to determine if the firm complies with Tacoma Municipal Code Chapter 1.07 and State Law.

Vendors for public works and improvement-type projects are required to be inclusive of Minority Owned Business Enterprises, Women-Owned Business Enterprises, and Small Business Enterprises. The criteria for determining whether inclusion has been made are set forth in the City's EIC regulations. Venders are also subject to the City's EIC ordinance and regulations pertaining to having an Equal Employment Opportunity policy prohibiting discrimination. Bids will be evaluated on an individual basis to determine compliance with this section. The EIC Utilization Form, when required, should accompany your submittal. Contact the EIC Office at (253) 591-5075 if there are questions about this requirement.

Either the firm submitting the bid or the firms they plan to subcontract with, if qualified, may meet the percent requirements listed on the EIC Requirement Form.

Bidders unable to meet the percent requirements shall submit an Application of Waiver of EIC Requirements, the Equity in Contracting Utilization Form, and any required attachments with the Bid in accordance with the Equity in Contracting Regulations.

**FAILURE TO COMPLETE AND SUBMIT EIC FORMS WITH THE BID
SUBMITTAL
PACKAGE WILL RESULT IN THE BID BEING DECLARED NON-
RESPONSIVE AND
REJECTED.**

It is the bidder's responsibility to insure that their firm (if EIC-eligible) and/or eligible subcontractor(s) listed on the EIC Utilization Form are currently certified by the City of Tacoma or the State of Washington's Office of Minority and Women Business Enterprises at the time of bid opening. This may be verified by contacting the EIC Office at 253-591-5075 between 8 AM and 5 PM, Monday through Friday.

All SBE goals may be met by using DBEs or SBEs from the OMWBE list or the City of Tacoma SBE list.

A list of EIC-certified companies is available on the following web site addresses:

www.cityoftacoma.org/sbe

www.omwbe.diversitycompliance.com – From this list, be sure check for certified MBE, WBE, MWBE, and SBE companies located in Pierce, King, Lewis, Mason, and Grays Harbor counties.

*After December 31, 2020, the list of EIC eligible firms may only be accessed at www.omwbe.diversitycompliance.com

CHAPTER 1.07

EQUITY IN CONTRACTING

Sections:

- 1.07.010 Policy and purpose.
- 1.07.020 Definitions.
- 1.07.030 Discrimination prohibited.
- 1.07.040 Program administration.
- 1.07.050 Approval as a Certified Business.
- 1.07.060 Program requirements.
- 1.07.070 Evaluation of submittals.
- 1.07.080 Contract compliance.
- 1.07.090 Program monitoring.
- 1.07.100 Enforcement.
- 1.07.110 Remedies.
- 1.07.120 Unlawful acts.
- 1.07.130 Severability.
- 1.07.140 Review of program.

1.07.010 Policy and purpose.

It is the policy of the City of Tacoma that citizens be afforded an opportunity for full participation in our free enterprise system and that historically underutilized business enterprises shall have an equitable opportunity to participate in the performance of City contracts. The City finds that in its contracting for supplies, services and public works, there has been historical underutilization of small and minority-owned businesses located in certain geographically and economically disfavored locations and that this underutilization has had a deleterious impact on the economic well-being of the City. The purpose of this chapter is to remedy the effects of such underutilization through use of narrowly tailored contracting requirements to increase opportunities for historically underutilized businesses to participate in City contracts. It is the goal of this chapter to facilitate a substantial procurement, education, and mentorship program designed to promote equitable participation by historically underutilized businesses in the provision of supplies, services, and public works to the City. It is not the purpose of this chapter to provide any person or entity with any right, privilege, or claim, not shared by the public, generally, and this chapter shall not be construed to do so. This chapter is adopted in accordance with Chapter 35.22 RCW and RCW 49.60.400.

(Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.020 Definitions.

Terms used in this chapter shall have the following meanings unless defined elsewhere in the Tacoma Municipal Code (“TMC”), or unless the context in which they are used clearly indicates a different meaning.

1.07.020.B

“Bid” means an offer submitted by a Respondent to furnish Supplies, Services, and/or Public Works in conformity with the Specifications and any other written terms and conditions included in a City request for such offer.

“Bidder” means an entity or individual who submits a Bid, Proposal or Quote. See also “Respondent.”

1.07.020.C

“Certified Business” means an entity that has been certified as a Disadvantaged Business Enterprise (“DBE”), Small Business Enterprise (“SBE”), Minority Business Enterprise (“MBE”), Women Business Enterprise (“WBE”), or Minority and Women’s Business Enterprise (“MWBE”) by the Washington State Office of Minority and Women’s Business Enterprise and meets the criteria set forth in Section 1.07.050 (2) of this chapter and has been approved as meeting that criteria by the Community and Economic Development Department Program Manager.

“City” means all Departments, Divisions and agencies of the City of Tacoma.

“Contract” means any type of legally binding agreement regardless of form or title that governs the terms and conditions for procurement of Public Works and Improvements and/or Non-Public Works and Improvements Supplies and Services. Contracts include the terms and conditions found in Specifications, Bidder or Respondent Submittals, and purchase orders issued by the City. A “Contract” as used in this chapter shall include an agreement between the City and a non-profit entity to perform construction-related services for Public Works. A “Contract” does not include: (1) awards made by the City with

federal/state grant or City general funds monies to a non-profit entity where the City offers assistance, guidance, or supervision on a project or program, and the recipient of the grant awards uses the grant moneys to provide services to the community; (2) sales transactions where the City sells its personal or real property; (3) a loan transaction where the City is acting as a debtor or a creditor; (4) lease, franchise; (5) agreements to use City real property (such as Licenses, Permits and Easements) and, (6) banking and other financial or investment services.

“Contractor” means any Person that presents a Submittal to the City, enters into a Contract with the City, and/or performs all or any part of a Contract awarded by the City, for the provision of Public Works, or Non-Public Works and Improvements, Supplies or Services.

1.07.020.G

“Goals” means the annual level of participation by Certified Businesses in City Contracts as established in this chapter, the Program Regulations, or as necessary to comply with applicable federal and state nondiscrimination laws and regulations. Goals for individual Contracts may be adjusted as provided for in this chapter and shall not be construed as a minimum for any particular Contract or for any particular geographical area.

1.07.020.N

“Non-Public Works and Improvements” means all competitively solicited procurement of Supplies and/or Services by the City not solicited as Public Works.

1.07.020.P

“Person” means individuals, companies, corporations, partnerships, associations, cooperatives, any other legally recognized business entity, legal representative, trustee, or receivers.

“Program Manager” means the individual appointed, from time to time, by the City’s Community and Economic Development Director to administer the Program Regulations.

“Program Regulations” means the written regulations and procedures adopted pursuant to this chapter for procurement of Supplies, Services and Public Works.

“Proposal” means a written offer to furnish Supplies or Services in response to a Request for Proposals. This term may be further defined in the Purchasing Policy Manual and/or in competitive solicitations issued by the City.

“Public Works (or “Public Works and Improvements)” means all work, construction, alteration, repair, or improvement other than ordinary maintenance, executed at the cost of the City, or that is by law a lien or charge on any property therein. This term includes all Supplies, materials, tools, and equipment to be furnished in accordance with the Contract for such work, construction, alteration, repair, or improvement.

1.07.020.Q

“Quote” means a competitively solicited written offer to furnish Supplies or Services by a method of procurement that is less formalized than a Bid or a Proposal. This term may be further defined in the Purchasing Policy Manual.

1.07.020.R

“Respondent” means any entity or Person, other than a City employee, that provides a Submittal in response to a request for Bids, Request for Proposals, Request for Qualifications, request for quotes or other request for information, as such terms are defined in Section 1.06.251 TMC. This term includes any such entity or Person whether designated as a supplier, seller, vendor, proposer, Bidder, Contractor, consultant, merchant, or service provider that; (1) assumes a contractual responsibility to the City for provision of Supplies, Services, and/or Public Works; (2) is recognized by its industry as a provider of such Supplies, Services, and/or Public works; (3) has facilities similar to those commonly used by Persons engaged in the same or similar business; and/or (4) distributes, delivers, sells, or services a product or performs a Commercially Useful Function.

1.07.020.S

“Services” means non-Public Works and Improvements services and includes professional services, personal services, and purchased services, as such terms are defined in Section 1.06.251 TMC and/or the City’s Purchasing Policy Manual.

“Submittal” means Bids, Proposals, Quotes, qualifications or other information submitted in response to requests for Bids, Requests for Proposals, Requests for Qualifications, requests for Quotations, or other City requests for information, as such terms are defined in Section 1.06.251 TMC.

“Supplies” means materials, Supplies, and other products that are procured by the City through a competitive process for either Public Works procurement or Non-Public Works and Improvements procurement unless an approved waiver has been granted by the appropriate authority.

1.07.020.T

“Tacoma Public Utilities Service Area” means any ZIP code in which Tacoma Public Utilities maintains infrastructure or provides retail services.

1.07.020.W

“Waiver” means a discretionary decision by the City that the one or more requirements of this chapter will not be applied to a Contract or Contracts.

(Ord. 28766 Ex. A; passed Jun. 8, 2021; Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28274 Ex. A; passed Dec. 16, 2014; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.030 Discrimination prohibited.

A. No person that is engaged in the construction of public works for the City, engaged in the furnishing of laborers or craftspeople for public works of the City, or is engaged for compensation in the provision of non-public works and improvements supplies and/or services to the City, shall discriminate against any other person on the basis of race, religion, color, national origin or ancestry, sex, gender identity, sexual orientation, age, marital status, familial status, or the presence of any sensory, mental or physical disability in employment. Such discrimination includes the unfair treatment or denial of normal privileges to a person as manifested in employment upgrades, demotions, transfers, layoffs, termination, rates of pay, recruitment of employees, or advertisement for employment.

B. The violation of the terms of RCW 49.60 or Chapter 1.29 TMC by any person that is engaged in the construction of public works for the City, is engaged in the furnishing of laborers or craftspeople for public works of the City, or is engaged for compensation in the provision of non-public works and improvements supplies and/or services shall result in the rebuttable presumption that the terms of this chapter have also been violated. Such violation may result in termination of any City contract the violator may have with the City and/or the violator’s ineligibility for further City Contracts.

(Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.040 Program administration.

A. The Community and Economic Development Director, or their designated Program Manager, shall be responsible for administering this chapter and obtaining compliance with respect to contracts entered into by the City and/or its contractors. It shall be the duty of the Director to pursue the objectives of this chapter by conference, conciliation, persuasion, investigation, or enforcement action, as may be necessary under the circumstances. The Director is authorized to implement an administrative and compliance program to meet these responsibilities and objectives.

B. The Director is hereby authorized to adopt and to amend administrative regulations known as the Program Regulations, to properly implement and administer the provisions of this chapter. The Program Regulations shall be in conformance with City of Tacoma policies and state and federal laws and be designed to encourage achievement of the Goals set forth herein.

(Ord. 28766 Ex. A; passed Jun. 8, 2021; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 28110 Ex. B; passed Dec. 4, 2012; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.050 Approval as a Certified Business.

A. The Program Manager shall approve an entity as a Certified Business if all of the following criteria are satisfied:

1. The entity is certified as a DBE, SBE, MBE, WBE, or MWBE through the state of Washington’s Office of Minority & Women Business Enterprises; and
2. The entity can demonstrate that it also meets at least one of the following additional requirements:
 - a. The personal residence of the owner is located within the City of Tacoma or Tacoma Public Utilities Service Area, or
 - b. The entity’s business offices are located in any county of the Tacoma Public Utilities Service Area or any county adjacent to Pierce County, or
 - c. When the work is performed outside of Pierce County, the entity’s business offices may be located in an adjacent county in which the work is performed, or
 - d. Such additional information as the Program Manager or designee may require.
3. When another governmental entity has an equivalent business classification process, the City may enter into an interlocal cooperative agreement for mutual recognition of certifications.

B. Appeals.

The applicant may appeal any approval determination by the Program Manager under this chapter to the Director. The appeal must be made in writing and must set forth the specific reasons for the appeal. The Director shall make a decision on the appeal request within a reasonable time, which decision shall be final unless further appeal is made to the Hearing Examiner. In that event, the Hearing Examiner Rules of Procedure for Hearings, Chapter 1.23 TMC, shall be applicable to that appeal proceeding.

(Ord. 28766 Ex. A; passed Jun. 8, 2021; Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28274 Ex. A; passed Dec. 16, 2014; Ord. 28147 Ex. A; passed May 7, 2013; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 28110 Ex. B; passed Dec. 4, 2012; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.060 Program requirements.

A. The program shall meet the following requirements:

1. Establishment of Annual Goals.

The Program Regulations adopted pursuant to this chapter shall state reasonably achievable cumulative annual goals for utilization of Certified Businesses in the provision of supplies, services, and public works procured by the City. Cumulative annual goals for the participation of Certified Businesses in City contracts shall be based on the number of qualified Certified Businesses operating within the Tacoma Public Utilities Service Area. The dollar value of all contracts awarded by the City to Certified Businesses in the procurement of supplies, services, and public works shall be counted toward the accomplishment of the applicable goal.

2. Application of Annual Goals to Contracts.

The Program Manager shall consult with City departments/divisions to establish department/division specific goals for competitively solicited contracts in accordance with this chapter and the Program Regulations.

B. Exceptions:

City departments/divisions or the Program Manager may request an exception to one or more of the requirements of this chapter as they apply to a particular Contract or Contracts. Exceptions may be granted in any one or more of the following circumstances:

1. Emergency:

The supplies, services and/or public works must be provided with such immediacy that neither the City nor the contractor can comply with the requirements herein. Such emergency will be deemed documented whenever a waiver of competitive solicitation for emergency situations is authorized under Tacoma Municipal Code Chapter 1.06.257 or as may be hereinafter amended.

2. Not Practicable:

The Contract involves special facilities or market conditions or specially tailored or performance criteria-based products, such that compliance with the requirements of this chapter would cause financial loss to the City or an interruption of vital services to the public. Such circumstances must be documented by the department/division awarding the Contract and approved by the senior financial manager or, for Contracts where the estimated cost is over \$500,000 (excluding sales tax), approved by the Board of Contracts and Awards ("C&A Board").

3. Sole source:

The supplies, services, and/or public works are available from only one feasible source, and subcontracting possibilities do not reasonably exist as documented by the department/division awarding the Contract and approved by the senior financial manager or, for Contracts where the estimated cost is over \$500,000 (excluding sales tax), approved by the C&A Board.

4. Government purchasing.

The Contract or Contracts are the result of a federal, state or inter-local government purchasing agreement and the use of such agreement in lieu of a bid solicitation conducted by the City is approved by the senior financial manager.

5. Lack of certified contractors:

An insufficient number of qualified contractors exist to create any utilization opportunities as documented by the Program Manager.

C. Waiver:

If, after receipt of Submittals but prior to Contract award, it is determined that due to unforeseen circumstances, waiver of goals is in the best interests of the City, the Director or Superintendent of the department/division awarding the Contract may request in writing that the City Manager or designee, on behalf of General Government, or the Director of Utilities or designee, on behalf of the Department of Public Utilities, approve such waiver..

Waivers may be granted only after determination by the City Manager or Director of Utilities that compliance with the requirements of this chapter would impose unwarranted economic burden on, or risk to, the City of Tacoma as compared with the degree to which the purposes and policies of this chapter would be furthered by requiring compliance.

(Ord. 28766 Ex. A; passed Jun. 8, 2021; Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.070 Evaluation of submittals.

A. All submittals for a supplies, services, or public works and improvements contracts shall be evaluated for attainment of the Certified Business requirements established for that contract in accordance with this chapter and the Program Regulations.

B. The determination of Certified Business usage and the calculation of Certified Business requirements per this section shall include the following considerations:

1. General.

The dollar value of the contract awarded by the City to a Certified Business in the procurement of supplies, services, or public works shall be counted toward achievement of the respective goal.

2. Supplies.

A public works and improvements contractor may receive credit toward attainment of the Certified Business requirement(s) for expenditures for supplies obtained from a Certified Business; provided such Certified Business assumes the actual and contractual responsibility for delivering the supplies with its resources. The contractor may also receive credit toward attainment of the Certified Business goal for the amount of the commission paid to a Certified Business resulting from a supplies contract with the City; provided the Certified Business performs a commercially useful function in the process.

3. Services and Public Works subcontracts.

Any bid by a Certified Business or a bidder that utilizes a Certified Business shall receive credit toward requirement attainment based on the percentage of Certified Business usage demonstrated in the bid. A contractor that utilizes a Certified Business as a subcontractor to provide services or public works shall receive a credit toward the contractor's attainment of the respective requirement based on the value of the subcontract with that firm.

4. Brokers, Fronts, or Similar Pass-Through Arrangements.

Certified Business acting as brokers, fronts, or similar pass-through arrangements (as such terms are defined in the Program Regulations) shall not count toward the requirement attainment unless the activity reflects normal industry practices and the broker performs a commercially useful function.

C. Evaluation of competitively solicited submittals for public works and improvements and for services when a requirement has been established for the contract to be awarded shall be as follows:

1. When contract award is based on price.

The lowest priced bid submitted by a responsive and responsible bidder will be reviewed to determine if it meets the requirement. Certified Businesses may self-count utilization on such bids if they will perform the work for the scope the requirement is based upon.

a. If the low bidder meets the requirements, the bid shall be presumed the lowest and best responsible bid for contract award.

b. Any bidder that does not meet the stated Certified Business requirements shall be considered a non-responsible bidder unless a waiver of one or more of the requirements of this chapter is granted, in the City's sole discretion, pursuant to the criteria and processes in Tacoma Municipal Code 1.07.060.C.

2. When contract award is based on qualifications or other performance criteria in addition to price, solicitations shall utilize a scoring system that promotes participation by certified contractors. The Program Regulations may establish further requirements and procedures for final selection and contract award, including:

a. Evaluation of solicitations for Architectural and Engineering (A&E) services;

b. Evaluation and selection of submittals in response to requests for proposals; and

c. Selection of contractors from pre-qualified roster(s).

(Ord. 28766 Ex. A; passed Jun. 8, 2021: Ord. 28625 Ex. A; passed Nov. 5, 2019: Ord. 28141 Ex. A; passed Mar. 26, 2013: Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.080 Contract compliance.

A. The contractor awarded a contract based on Certified Business participation shall, during the term of the contract, comply with the requirements established in said contract. To ensure compliance with this requirement following contract award, the following provisions apply:

1. Any substitutions for or failure to utilize Certified Business projected to be used must be approved in advance by the Program Manager. Substitution of one Certified Business with another shall be allowed where there has been a refusal to execute necessary agreements by the original Certified Business, a default on agreements previously made or other reasonable excuse; provided that the substitution does not increase the dollar amount of the bid.
2. Where it is shown that no other Certified Business is available as a substitute and that failure to secure participation by the Certified Business identified in the solicitation is not the fault of the respondent, substitution with a non-Certified Business shall be allowed; provided, that, the substitution does not increase the dollar amount of the bid.
3. If the Program Manager determines that the contractor has not reasonably and actively pursued the use of replacement Certified Business, such contractor shall be deemed to be in non-compliance.

B. Record Keeping.

All contracts shall require contractors to maintain relevant records and information necessary to document compliance with this chapter and the contractor's utilization of Certified Businesses, and shall include the right of the City to inspect such records.

(Ord. 28766 Ex. A; passed Jun. 8, 2021: Ord. 28625 Ex. A; passed Nov. 5, 2019: Ord. 28141 Ex. A; passed Mar. 26, 2013: Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.090 Program monitoring.

A. An Advisory Committee shall monitor compliance with all provisions of this chapter and the related Regulations. The Program Manager shall establish procedures to collect data and monitor the effect of the provisions of this chapter to assure, insofar as is practical, that the remedies set forth herein do not disproportionately favor one or more racial, gender, ethnic, or other protected groups, and that the remedies do not remain in effect beyond the point that they are required to eliminate the effects of under utilization in City contracting, unless such provisions are supported by a Disparity Study. The Program Manager shall have the authority to obtain from City departments/divisions, respondents, and contractors such relevant records, documents, and other information as is reasonably necessary to determine compliance.

B. The Program Manager shall submit an annual report to the Community and Economic Development Director, Director of Utilities, and the City Manager detailing performance of the program. The report shall document Certified Business utilization levels, waivers, proposed modifications to the program, and such other matters as may be specified in the Program Regulations.

(Ord. 28766 Ex. A; passed Jun. 8, 2021: Ord. 28625 Ex. A; passed Nov. 5, 2019: Ord. 28141 Ex. A; passed Mar. 26, 2013: Ord. 28110 Ex. B; passed Dec. 4, 2012: Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.100 Enforcement.

The Director, or designee, may investigate the employment practices of contractors to determine whether or not the requirements of this chapter have been violated. Such investigation shall be conducted in accordance with the procedures established in the Program Regulations.

(Ord. 28625 Ex. A; passed Nov. 5, 2019: Ord. 28141 Ex. A; passed Mar. 26, 2013: Ord. 28110 Ex. B; passed Dec. 4, 2012: Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.110 Remedies.

A. Upon receipt of a determination of contractor violation by the Program Manager, the City Manager or Director of Utilities, as appropriate, may take the following actions, singly or together, as appropriate:

1. Forfeit the contractor's bid bond and/or performance bond;
2. Publish notice of the contractor's noncompliance;

3. Cancel, terminate, or suspend the contractor's contract, or portion thereof;
4. Withhold funds due contractor until compliance is achieved; and/or
5. Recommend appropriate action including, but not limited to, disqualification of eligibility for future contract awards by the City (debarment) per Section 1.06.279 TMC;

B. Prior to exercise of any of the foregoing remedies, the City shall provide written notice to the contractor specifying the violation and the City's intent to exercise such remedy or remedies. The notice shall provide that each specified remedy becomes effective within ten business days of receipt unless the contractor appeals said action to the Hearing Examiner pursuant to Chapter 1.23 TMC.

C. When non-compliance with this chapter or the Program Regulations has occurred, the Program Manager and the department/division responsible for enforcement of the contract may allow continuation of the contract upon the contractor's development of a plan for compliance acceptable to the Director.

(Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 28110 Ex. B; passed Dec. 4, 2012; Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.120 Unlawful acts.

It shall be unlawful for any Person to willfully prevent or attempt to prevent, by intimidation, threats, coercion, or otherwise, any Person from complying with the provisions of this chapter.

(Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.130 Severability.

If any section of this chapter or its application to any Person or circumstance is held invalid by a court of competent jurisdiction, then the remaining sections of this chapter, or the application of the provisions to other Persons or circumstances, shall not be affected.

(Ord. 27867 Ex. A; passed Dec. 15, 2009)

1.07.140 Review of program.

This chapter shall be in effect through and until December 31, 2024, unless the City Council shall determine at an earlier date that the requirements of this chapter are no longer necessary. If this chapter has not been repealed by July 1, 2024, the City Council shall determine by the end of that year whether substantial effects or lack of opportunity of MWBEs and/or SBEs remain true in the relevant market and whether, and for how long, some or all of the requirements of this chapter should remain in effect.

(Ord. 28625 Ex. A; passed Nov. 5, 2019; Ord. 28274 Ex. A; passed Dec. 16, 2014; Ord. 28141 Ex. A; passed Mar. 26, 2013; Ord. 27867 Ex. A; passed Dec. 15, 2009)

19. SPECIAL ROVISIONS

19.01 PROJECT DESCRIPTION

Item 1 is the installation of one (1) cathodic protection impressed current systems. The systems shall be a deep well anode groundbed, rectifier, power service with meter base and load center, test station, anode shunt box, service disconnect, equipment pedestal, conduit, wiring, trenching, backfill material, surface restoration, other materials, traffic control plan, and permitting necessary for a complete operational system.

Item 2 is the installation of one (1) isolation membrane between a Tacoma Water pipeline and a Puget Sound Energy pipeline. This work shall include excavating both pipelines, supplying and installing a dielectric membrane between both pipelines, installing test wires, reference cell, wiring, trenching, backfill material, surface restoration, materials, and permitting necessary for a complete installation.

19.02 QUALIFICATION OF BIDDERS

It is the intent of these Specifications to obtain a “high quality” groundbed, test stations and associated appurtenances. Only bids from Contractors with substantial experience and a successful performance record will be considered in awarding the contract. Bidders must, complete the Record of Prior Contract form to provide evidence at the time of opening bids that they have had experience in the kind of work to be performed and have the necessary capital to carry on the work expeditiously and in a manner satisfactory to the City. Bids of inexperienced Contractors and those who have failed to properly perform other contracts may be rejected for such cause.

The City shall consider the qualifications of the Contractor, based upon their past construction record, and shall check references in determining if a Bidder is qualified.

19.03 TIME OF WORK

All work shall be performed Monday through Friday from 7:00 a.m. to 5:00 p.m. No work shall be performed on Saturday, Sunday, or holidays.

19.04 GENERAL SPECIFICATIONS

Any part of work not specifically covered by these Specifications shall be in accordance with applicable sections of the latest WSDOT/American Public Works Association (APWA) Standard Specifications, including the City of Tacoma supplement, and the latest American Water Works Association (AWWA) Standard Specifications, National Electric Code (N.E.C.), National Association of Corrosion Engineers (NACE) Document RP05-72 (Design, Installation, Operation, and Maintenance of Impressed Current Deep Groundbeds – Item No. 21007) and other NACE standards on deep well anode installations, Puget Sound Energy, the laws of the State of Washington, and City Water Standards.

19.05 PERMITS/LICENSES

The Contractor shall be responsible for obtaining, maintaining, and paying for any and all required permits, traffic control plans, and licenses from all required authorities for the successful installation of operational deep anode groundbed facilities.

19.06 WORKMANSHIP

Work shall be performed in a workmanlike manner, by craftsmen skilled in the particular trade, according to best method known for each craft and in accordance with the Engineer approved Plans, Specifications, and the best practices of the trade. Completed work shall present a neat and finished appearance. Lay work to true lines, plumb and level, except as otherwise noted.

19.07 MATERIALS

Unless otherwise indicated, provide all high quality, new and unused materials, free from any defects, and suitable for the intended use and the space provided. All materials shall be the best available for the purpose intended as dictated by the best current engineering practice. Materials shall be approved by Underwriters Labs (UL), American Society for Testing and Materials (ASTM), Factory Mutual (FM), American Water Works Association (AWWA), National Association of Corrosion Engineers (NACE), and National Electrical Manufacturers Association (NEMA), wherever standards have been established by those organizations. The cathodic protection rectifier shall have an ETL label indicating that they conform to UL 1012.

Furnish and install all incidental items not specifically shown or specified, which are required by good practice to provide complete and fully operational systems.

Where two or more units of the same class of material or equipment are required, provide products of a single manufacturer/supplier.

19.08 WARRANTY

The Contractor shall guarantee all work, materials and equipment provided under this contract to be free of defects in design, materials and workmanship for a period of two (2) years following the date of final acceptance, excepting those materials furnished by the City of Tacoma. This warranty shall include all parts, labor and other expenses, so that no cost to the City from any warranty related problem will result.

The warranty shall not apply to incidental supplies or consumables such as incandescent lights, fluorescent lights, and batteries. The City will agree to repair or replace these light bulbs, batteries and other incidentals at no cost to the Contractor.

Warranties and guarantees by suppliers of various components in lieu of a single source responsibility by the Contractor will not be accepted. The Contractor shall be solely responsible for the guarantee of the facility and all components; mechanical, electrical, physical or otherwise.

NOTE: Where the manufacturer/supplier's warranty extends beyond that of a two (2) year warranty, that warranty shall also be supplied and be fully-transferable to the City.

19.09 ENGINEER APPROVED EQUAL

When the statement "or Engineer Approved Equal" is made on the drawing or in the specification, it shall mean a like product, of equal quality, suitability, reliability, performance, and dimension to the specified item or product. See Section 19.17 "Substitutions or Alternates" for details on acquiring Engineer Approved Equal.

If the Engineer does not consider the proposed substitute item or product an approved equal, it will be

rejected. The decision of the Engineer is final.

19.10 SURFACE RESTORATION AND CLEAN UP

The Contractor shall restore all disturbed ground surface to the same or better condition than prior to the construction. The ground surface shall include but not be limited to flower beds, plants, grass, pavement, road surfaces, sidewalk, curbs, gutters, and crushed surfacing. The Contractor shall promptly repair all ground surface deficiencies noted during the warranty period at the Contractor's sole expense. The Contractor shall be responsible for the removal and disposal of all tailings from drilling operations each day. Adequate provisions shall be provided to prevent any tailings from leaving the immediate project site and a BMP shall be submitted to demonstrate such.

19.11 SUBMITTALS

After the Contract is awarded and before any material is shipped or installed, the Contractor shall furnish to the Engineer full details, shop drawings, dimensions, catalog cuts, schematic (elementary) diagrams, and other descriptive matter as required to fully describe the equipment and materials to be included in this contract. The names, addresses and phone numbers for the representative of each piece of equipment shall also be included.

Should any item which deviates from these Specifications be included, the deviation shall be clearly indicated and explained at the time of submittal per section 19.17.

The Contractor shall provide two (2) complete copies of submittal information. Submittals shall be complete, neat, orderly, and indexed. The Contractor shall check submittals for number of copies, adequate identification, correctness, and compliance with the Plans and Specifications, and shall initial all copies. A copy of this Specification shall be included with the submittals. The Contractor shall revise and/or resubmit all submittal information until it is acceptable to the Engineer.

Review of submittal information by the Engineer shall not relieve the Contractor of responsibility for meeting the requirements of the Plans and Specifications, or for errors and omissions in submittals. Reviews by the City do not constitute an undertaking on the part of the City to assure or determine compliance with the Plans and Specifications.

After completion of the installation and acceptance of the cathodic protection system, the Contractor shall supply the City with one (1) copies of as built drawings, catalog information, and start-up information for each groundbed and test station installation in a neatly organized three-ring binders in addition to an electronic copy of the same information.

The Contractor shall include a separate report summarizing the results of the electrical well log and anode probe resistance at five foot increments.

19.12 CONFLICT WITH OTHER UTILITIES AND IMPROVEMENTS

Surface and underground utilities and improvements, as far as known, which may affect the work, are shown on the drawings.

It shall be the Contractor's responsibility to comply with the one-call underground utility locate law, RCW 19.122, and to notify all utilities in the area prior to any excavation so that actual field locations of existing lines can be made.

It shall be the Contractor's responsibility to confirm or research depth of utilities. Should the Contractor find any conflict between the proposed location and the utilities or other improvements, he shall immediately notify the

Engineer.

It shall be the Contractor's responsibility to maintain locations through the duration of the project in accordance with RCW 19.122.

19.13 COORDINATION

The Contractor shall diligently comply with the following requirements:

- A. Cooperate in planning and layout of the work well in advance of operations. Coordinate work with PSE Gas Department.
- B. Inform Sub-contractors of job requirements at proper time to prevent delay or revisions.
- C. Insure delivery of materials and performance of work on coordinated schedule with the Sub-contractors.

19.14 PLANNING THE WORK

The Contractor shall have a plan and schedule of his/her work. The Engineer must approve this plan and schedule. The Contractor shall give a minimum of three (3) working days' notice to the Engineer prior to commencing work.

19.15 OBSTRUCTION OF PUBLIC THROUGHFARES

The Contractor shall be responsible for all necessary Traffic Control Plans, detour signs, cones, barricades, and flashers to be placed within the project area. The Contractor shall coordinate with local jurisdiction in all matters pertaining to the movement of vehicular and pedestrian traffic past the project area. The Contractor shall maintain local access, protect pedestrian walkways, provide and maintain barricades, signs, lights, etc. as per "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) at all times. Streets and walkways shall be kept clear of debris dropped or tracked by vehicles entering or exiting the work site. Failure to comply will result in a stop work order and/or citation by the local jurisdiction.

19.16 TEMPORARY FACILITIES

All temporary facilities described herein shall be provided by the Contractor and shall meet applicable safety and health codes.

A. Electrical Power

The Contractor shall provide any and all required power.

B. Toilets

The Contractor shall provide adequate chemical toilet facilities for all those connected with the work. They shall be approved portable units serviced on a regular basis by a reputable rental agency.

19.17 SUBSTITUTIONS OR ALTERNATES

In order for alternate equipment to be considered an "Engineer Approved Equal", the Bidder shall submit a Substitution Request Form.

When the Bidder chooses to offer an alternate item or product, the Bidder shall submit complete supporting technical and physical data, including drawings, diagrams, catalog cuts, manufacturer's specification sheets, laboratory test, photographs, samples, the address and phone number of the nearest representative, and any other information which will allow the Engineer to accurately evaluate the item or product as equal.

Substitutions and alternate equipment will be considered prior to the bid opening if the Engineer receives the Bidder's request not less than six (6) working days prior to the date set for bid opening. Saturday, Sunday, and legal holidays as listed under Paragraph 2.14 of the General Provisions, are excluded from the calculation of six (6) days.

19.18 PRE-CONSTRUCTION MEETING

Following award of the contract, the Engineer will notify the selected Bidder of the time and date of a pre-construction meeting.

19.19 INSPECTION

The Engineer, City Inspectors, and City's cathodic protection Consultants shall have access to the job site for inspection at all times while work is being performed by the Contractor or Sub-contractors. No trench for groundbed installation or test station may be backfilled until work is accepted by the Engineer, the City's cathodic protection Consultants, job inspector, City of Tacoma, and Puget Sound Energy where applicable. The names of the designated personnel to accept work will be provided in writing and will only be changed with written notice.

19.20 CLOSE-OUT PROCEDURES

It shall be the Contractor's responsibility to protect/secure all installed equipment at each job site until all tests have been performed by the Contractor and accepted by the Engineer. Temporary locks, provided by the Contractor, shall be used to protect the installed equipment. After the acceptance by the Engineer, the Contractor shall remove their locks and the City crew will install the City locks on the equipment.

The Contractor shall notify the Engineer in writing when all work or portions of the work are complete and ready for inspection. The Engineer will inspect the work and forward the results to the Contractor. The Contractor shall promptly correct any deficiencies noted.

The Contractor shall notify the Engineer in writing when all punch list deficiencies have been completed. The Engineer will promptly set a time for final inspection, at which time the Engineer and the Contractor shall jointly inspect the work. The Contractor will promptly correct any further deficiencies noted.

19.21 TIME OF COMPLETION

All work shall be completed within 120 calendar days of execution of contract. Liquidated damages will be levied against the Contractor as set forth in the General Provisions Section 3.14 for each calendar day the work remains uncompleted.

19.22 PAYMENT

As outlined in Section 3.12 of the General Provisions, progress payments, may be made at 30-day intervals from the start of construction for all work performed and all materials furnished under these Specifications and the contract according to the quantities actually completed and installed as determined and measured by the Engineer.

19.23 PRE-BID CONFERENCE AND SITE INSPECTIONS

A pre-bid meeting will not be held.

19.24 ADDITIONAL INFORMATION

Any general information required on these bids may be obtained by contacting Carly Fowler at cfowler@cityoftacoma.org. Bidder's attention is directed to Paragraph 1.02 of the General Provisions. The City reserves the right to request additional information, particularly on non-demonstrated devices to ascertain acceptability prior to awarding the contract. Failure to supply requested information may be cause to reject bid as nonresponsive. If there is additional information or changes regarding these Specifications, an addendum will be sent to all Bidders.

20. TECHNICAL PROVISIONS - GENERAL

20.01 REQUIREMENTS

The Contractor shall furnish all parts, labor, equipment, materials, and permits as required for the complete installation of the cathodic protection systems specified herein. The cathodic protection system shall include the appropriate rectifier, anodes, backfill materials, cables, test stations, pedestal, electrical service, and all necessary items of equipment and materials for the completed and operational systems. It is the intent of this specification that the Contractor furnishes and installs all materials and equipment, and provides all labor required and necessary to complete the work shown on the drawings or listed below and all other work items not specifically mentioned but reasonably inferred for a complete, working installation. The City shall work with the Contractor to determine the most suitable field location for all necessary drilling equipment.

A. Pipeline No.2 East side of Meridian Ave E and 128th St E. in Puyallup, WA

The work shall consist of drilling and installing a deep well anode ground bed, furnishing and installing a pedestal mounted rectifier, equipment pedestal, a service disconnect, load center and meter base, an anode shunt box, a test station, conduits, wiring, and trench backfill material, and all surface restoration. The Contractor shall be required to apply for an electrical permit for this installation and pay for any necessary related permits. The Contractor shall install an underground electrical service from the adjacent Tacoma Power Secondary Service Box to the power meter base and disconnect mounted on the equipment pedestal. The test wires, zinc reference cell and rectifier negative wires shall be installed by the contractor. This impressed current system shall connect to both pipelines, Pipeline 2 and Pipeline 2 Duplicate.

B. Installation of dielectric membrane

The work shall consist of excavating the Tacoma Water pipeline and the PSE Gas pipeline, furnishing

and installing the dielectric membrane between the two pipelines, attaching the test wires to the Tacoma Water pipeline only and installing the reference cell, and wiring. The Contractor shall be required to apply for a Right Of Way permit and pay for any necessary related permits, also supply and install backfill material and surface restoration.

The Contractor shall comply with Washington State Department of Transportation Standard Specification 2021 Section 7-08.3(1)B. Before work begins, the Contractor shall provide a Trench Safety Plan and review this plan with the Engineer at the preconstruction meeting at the job site.

20.02 REFERENCE SPECIFICATION, CODES, AND STANDARDS

Work covered by this contract shall, at all times, conform to the latest editions of the following commercial standards:

ANSI C34.2 Practice and Requirements for Semiconductor Power Rectifiers

ANSI C80.1	Rigid Steel Conduit-Zinc Coated
ASTM A53	Pipe, Steel, Black and Hot-Dipped Zinc-Coated Welded and Seamless
ASTM A497	Steel Welded Wire Fabric, Deformed, for Concrete Locator Code
ASTM A615	Deformed and Plain Billet-Steel Bars for Concrete Reinforcement
ASTM B124	Copper and Copper-Alloy Forging Rod, Bar, and Shapes
ASTM B418	Cast and Wrought Galvanic Zinc Anodes
ASTM C150	Portland Cement
ASTM D1785	Poly Vinyl Chloride (PVC) Plastic Pipe, Schedules 40, 80, and 120
UL 6	Rigid Metal Electrical Conduit
NACE RP0169	Standard Recommended Practice, Control of External Corrosion on Underground or Submerged Metallic Piping Systems
NEMA MR 20	Semiconductor Rectifier Cathodic Protection Units
NEMA WC 3	Rubber-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy
NEMA LI1	Industrial Laminate Thermosetting Products
NEMA WC 5	Thermoplastic-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy
NEMA WC 7	Cross-Linked-Thermosetting-Polyethylene-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy
NEMA 250	Enclosures for Electrical Equipment (1,000 volts maximum)
NFPA 70	National Electrical Code (NEC)

20.03 DEFINITIONS

- A. **Ferrous Metal Pipe:** Pipe made of steel or iron and pipe containing steel or iron as a principle structural material, except reinforced concrete.
- B. **Lead, Lead Wires, joint Bonds, Cable:** Insulated copper conductor; the same as wire.
- C. **Foreign-Owned:** Buried pipe or cable not specifically owned or operated by Tacoma Water.

20.04 SUBMITTALS

Furnish the following in accordance with the Special Provisions Section 19.11:

A. Shop Drawings

1. Catalog cuts and other information for products to be used.
2. Procedures and equipment for electrical logging of deep anode groundbeds.
3. Proposed electrical logging equipment list for review and approval prior to start of drilling operations for deep anode installation.
4. Driller's logs for deep anode installations.
5. Certified test report of all wire-to-anode connections including connection resistance values.
6. Overall System Wiring Diagram – Identify location of connections, label markings, wire size, color, and products.

B. Quality Assurance Submittals

1. National Association of Corrosion Engineers (NACE) International Cathodic Protection Specialist credentials.
2. Driller's experience statement. Include name of individual(s) who will operate the drilling equipment and a copy of their current driller's license.
3. Manufacturers' Certificates of Compliance.

C. Operation and Maintenance Manuals

One operation and maintenance manual that include electrical schematic of the rectifier, parts list with part replacement number, and troubleshooting procedures.

20.05 QUALITY ASSURANCE

- A. **Cathodic Protection Specialist** – The Contractor shall provide the services of a NACE International certified Cathodic Protection Specialist. The Cathodic

Protection Specialist shall provide periodic field observation and testing services during installation of the anode groundbeds, modifications to existing cathodic protection systems, and installation of other cathodic protection system components. Additional site visits to the job site shall be made by the Cathodic Protection Specialist at intervals required to:

1. Verify proper installation of anode groundbeds, rectifiers and associated wiring and test stations.
 2. Determine compliance with these Specifications.
 3. Provide cathodic protection testing as specified herein.
 4. Resolve field problems
- B. **Driller's Experience** – Driller shall have installed a minimum of three (3) anode groundbeds within the last five (5) years. Drillers shall be licensed in accordance with WAC 173-162.

20.06 SPECIAL SAFETY PROVISIONS

- A. Contractor shall comply with health and safety rules, regulations, ordinances promulgated by the Local, State, and Federal government, the various construction permits, and other sections of the Contract Documents. Provide for special safety precautions and conform to the special safety provisions herein.
- B. Contractor shall perform whatever work is necessary for safety and be solely and completely responsible for conditions of the job site, including safety of all persons (including employees of the City, Owner's representative, any site visitors, and Contractor) and property during the Contract period. This requirement applies continuously and is not limited to normal working hours.
- C. The Owner's representative's review of the Contractor's performance is not intended to include a review or approval of the adequacy of the Contractor's safety supervisor, the safety program, or any safety measures taken in, on, or near the construction site.
- D. The Contractor shall provide at all times proper facilities for safe access to the work by authorized government officials.
- E. Accidents causing death, injuries, or damage must be reported immediately to the Owner's representative by telephone or messenger. In addition, promptly report in writing to the Owner's representative all accidents whatsoever arising out of, or in connection with, the performance of the work whether on, or adjacent to, the site, giving full details and statements of witnesses.
- F. If a claim is made by anyone against the Contractor or any Sub-contractor on account of any accident, the Contractor shall promptly report the facts in writing within 24 hours after occurrence, to the Owner's representative, giving full details of the claim.
- G. The Contractor shall maintain at the job site safety equipment applicable to the work as prescribed by the governing safety authorities and all articles necessary for giving first aid to the injured.
- H. The Contractor shall train all personnel in use of the appropriate safety equipment that would be utilized during the course of their work. It is the responsibility of the Site Safety and Health Officer,

or person(s) in authority, to ascertain that all safety equipment is being used when appropriate.

21. TECHNICAL PROVISIONS INSTALLATION OF ANODE GROUNDBEDS - PRODUCTS

21.01 DEEP ANODE CONSTRUCTION MATERIALS

A. Impressed Current Anodes

1. High-Silicon Cast Iron-Tubular

- a. Description – Tubular, center-tap connection, modified high-silicon cast iron meeting the requirements of ASTM A518/A518M, Grade 3, with the dimensions and chemical composition listed below.
- b. Dimensions
 - (1) Length – 84 inches minimum
 - (2) Outside Diameter – 2.2 inches minimum
 - (3) Weight – 50 pounds minimum

2. Composition

Silicon – 14.20 to 14.75 percent

Manganese – 1.50 maximum

Carbon – 0.70 to 1.10 percent

Chromium – 3.25 to 5.00 percent

Copper – 0.50 percent maximum

Molybdenum – 0.20 percent maximum

Iron – remainder, to make a total of 100 percent

3. Manufacturers

Anotec Industries Ltd., Surrey, B.C. Canada, Type 2284Z or Engineer Approved Equal.

Suppliers:

Farwest Corrosion, Downey, CA.
Mesa, Tulsa, OK.
Approved equal

4. Wire-to-Anode Connection

Factory installed using manufacturer's standard zinc compression method. The anode connection shall be stronger than the wire. Crimp type mechanical connections are not acceptable.

Measure the resistance of all wire-to-anode connections with a Kelvin bridge circuit or equal. Replace wire connections that have a resistance of 0.004 ohm or greater. Submit test records that include the following information:

- a. Anode number.
- b. Anode wire length.
- c. Resistance value of connection.
- d. Test equipment.
- e. Test method.

5. Wire Labels

Label each end of each anode wire length, stamped onto brass tags. Number anodes sequentially from the bottom to the top.

6. Steel Lowering Pipe and Anode Centralizers

Provide Schedule 40 steel pipe with Schedule 80 couplings and tee, as shown on Drawing No. 4-108-58, Detail Number 8. Provide a reverse coupling in the lowering pipe to be located at the top anode. Fabricate steel straps and weld to the steel centering pipe, as shown on Drawing No. 4-108-58 Detail Number 9.

Centralizers shall not block the hold or impair installation of the anode, anode wire, or coke breeze.

Fasten the anodes to the vent pipe with electrical insulating material between the anode and lowering pipe. Use non-metallic straps to secure anodes to lowering pipe.

7. Coke Breeze

Calcined Petroleum Coke

Lubricated, low resistance, calcined petroleum coke, suitable for pumping, with the following composition:

- a. Volatile Matter – 0.7 calcined 1.8 percent maximum.
- b. Ash – 2.3 percent maximum.
- c. Sulfur – 5.9 percent maximum.
- d. Fixed Carbon – 99 percent minimum
- e. Particle Size – 100 percent passing 10-mesh and 98 percent retained by 200 mesh.

- f. Bulk Density – 65 pounds per cubic foot, minimum.
- g. Minimum Resistivity – 0.10 ohm-cm at 150 psi.
- h. Manufacturers – Cathodic Engineering Co., Hattiesburg, MS; LorescoSC-3, or Engineer Approved Equal.

8. Vent Pipe

1. Active Column

One (1) inch, ASTM D1785 Schedule 80 PVC pipe, with 0.006-inch longitudinal slots, three (3) inches long, cut completely through both sides of the pipe at four (4) inch centers in the active anode column area. Loresco All-Vent, or Engineer Approved Equal.

2. Inactive Column and Buried

Solid (non-slotted) one (1) inch, ASTM D1785 Schedule 80 PVC.

3. Surface Vent Pipe

ASTM A53 standard steel pipe, one (1) inch diameter with 180 degree fabricated gooseneck at the top. Hot-dip galvanize after fabrication.

B. Casing

Steel and PVC casing may be used. **The top 60 feet of the well casing must be PVC** before transitioning to steel.

- 1. **Steel Casing** – ASTM A53m standard weight steel pipe.
- 2. **Nonmetallic Casing** – PVC, nontoxic and resistant to water and soil; able to withstand installation, grouting, and operating stresses. This shall be utilized for the top 60 feet of the well casing.

C. Ground Bed Sealing Material

Cement group, bentonite-gelatinous mud, puddle clay, or concrete, in accordance with the applicable state and local regulations.

D. Anode Shunt Box – Deep Well

- 1. Junction Box – NEMA 250 Type 3R hinged cover enclosure made from 16-gauge galvanized steel with drip shield and lockable quick release latch. Hoffman A20R166HCR, Farwest Junction Box C. See Drawing No. 4-108-58 Detail Number 4.
- 2. Test Board – Plastic or glass-reinforced, ¼ inch thick laminate terminal board with dimensions to fit inside test box and allow 18 wire connections separated by two inches vertically and four inches horizontally. Provide terminal block with twelve (12) nickel-plated brass studs, washers, and lock washers.
- 3. Conduit – ANSI C80. 2 ½ inch rigid galvanized steel and PVC as indicated.

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4. Mounting Hardware – Furnish conduit, two (2) hole conduit straps, and galvanized steel hardware required to mount the test station to the equipment pedestal. Use stainless steel fasteners.

21.02 RECTIFIER

A. General

Air-cooled, manually controlled meeting NEMA MR-20, ANSI C 34.2, and NFPA 70 Standards. Design rectifier to operate continuously at an ambient temperature of 50 degrees C and capable of 110 percent of rated input without damage to the rectifier components.

B. AC Input

115/230 volts, single-phase, 60-Hz. Furnish a suitably sized magnetic type circuit breaker mounted on the rectifier panel.

C. Transformer

Two winding, insulating type, meeting the requirements of NEMA, UL, and CSA. Provide with fine and coarse secondary taps with rectifier output controlled by a minimum of twenty (20) evenly divided steps of adjustment.

Coarse and fine taps shall be arranged in consecutive order. Transformer insulation shall be rated for a minimum temperature of 130 degrees C with actual hottest spot temperature at rated conditions not to exceed 100 degrees C.

D. Rectifying Elements

Full wave bridge, silicon diode stack with efficiency filter, with metal oxide thyristors and current-limiting devices for overvoltage and over current protection of the stack.

E. Lightning Protection

Furnish lightning protection devices for AC input and DC output.

F. Meters

Separate DC voltage and current meters, D'Arsonval jeweled movement type, accurate to within two (2) percent of actual voltage and current output. Field test meters for accuracy; replace inaccurate meters.

G. Shunt

Holloway-type shunt mounted in series with the ammeter, with voltage and current clearly identified on shunt body.

H. Enclosure

Eleven (11) gauge galvanized steel suitable for pole mounting or pad mounting as indicated on the drawings. Furnish with hinged doors on the front and both sides to

allow access, stainless steel latches, and hasp for a padlock. Seal enclosure to protect the interior components from weather, vandalism, and nest building insects; furnish adequate ventilation.

I. Panelboard

Nonmetallic, suitable for mounting meters, shunt, circuit breaker, fuses, and output terminals. Locate panelboard at the front of the rectifier to allow access for testing and adjustment. Clearly engrave or identify with a permanent marking system the polarity of output terminals, transformer settings, meters, and fuses.

J. Convenience Outlet

120V AC Ground Fault Interrupting (GFI) convenience outlet installed on the rectifier panel.

K. Current Interrupter

Solid state timing device to interrupt secondary current. Interrupter shall be capable of continuous operation, and shall consist of a one (1) minute adjustable recycling mechanical timer or electronic timer, a "Test-Normal" toggle switch, and a relay or connector to interrupt the main current.

L. Mounting Hardware

Studs, bars, nuts, washers, and other mounting hardware shall be suitably sized brass or tin-plated copper.

M. Nameplate

Engraved metal plate mounted on the interior side of the front door listing the manufacturer name, model number, serial number, year manufactured, and AC and DC input and output electrical ratings.

N. DC Output

128th and Meridian (Proposed Rectifier): **100 volt, 20 ampere.**

O. Third Party Certification

The rectifiers shall have an ETL certification label attached to the front door of the rectifier. This shall indicate conformity to UL STD 1012.

P Manufacturer

1. Universal Rectifier
2. Approved Equal

21.03 POWER SERVICE

A. Service Disconnect

120/240 Volt single-phase, three-wire, 100-ampere, frame pedestal mounted-mounted with one (1) inch hubs in accordance with local power utility requirements. Type 3R construction.

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Padlock provision on load side hinged door to accommodate a 7/16 inch lock shank. Furnish circuit breakers sized for 110 to 135 percent of the AC flow at maximum rectifier output.

B. Ground Rod

Copper-clad steel, 5/8 inch diameter by eight (8) foot long.

C. Ground Wire and Clamp

No. 6 AWG solid copper ground wire with a high copper content alloy or bronze bolt-on ground rod clamp.

D. Meter Base

Meter bases/sockets and enclosures shall be acceptable to Tacoma Power, accepted by an approved testing laboratory, and must fulfill these requirements:

- The meter bases/sockets shall be ring-type and shall include either a screw-type locking ring (preferred) or a stainless steel snap ring.
- The Socket is required to have a **manual block bypass**. Automatic circuit closures or lever bypasses are not acceptable.
- The meter base/socket containing energized equipment shall be covered and sealed with a transparent cover plate if a meter is not installed.
- The meter shall be installed only in sockets that are level, plumb, and securely fastened to the structure.
- The meter base/socket shall be permanently labeled to indicate the address it serves. Tacoma Power requires engraved phenolic nameplates or adhesive die-cut labels at least 1 inch high. Service will not be established until marking is complete.
- All unused openings of the meter base/socket enclosure shall be closed with plugs that are secured tightly in place from inside the enclosures before a meter is installed.
- The meter equipment exposed to weather shall be rain-tight according to the National Electrical Manufacturer's Association (NEMA) 3R minimum.
- Terminals shall be marked with a conductor range for aluminum or copper conductors. When aluminum conductors are used, the socket must be approved and clearly marked by the manufacturer for that use.

21.04 CONDUIT, FITTINGS, AND ACCESSORIES

A. Galvanized Rigid Steel (GRS) Conduit

1. Rigid steel conduits and fittings shall be full weight, mild steel, hot-dip galvanized zinc bichromate coated inside and outside after galvanizing.
2. Rigid steel conduit shall be manufactured in accordance with UL Standard No. 6 and ANSI 80-1.
3. Rigid steel conduit shall be manufactured by Allied, Republic Steel, or Engineer Approved Equal.

B. Rigid Nonmetallic Conduit

The conduit shall be Schedule 40 and 80 PVC as specified.

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1. Nonmetallic conduits and fittings shall be UL listed, sunlight-resistant, and rated for use with 90 degrees C conductors.
2. Nonmetallic conduits and fittings shall be manufactured by Carlon, Condux, or Engineer Approved Equal.

21.05 WIRES

A. General

Conform to applicable requirements of NEMA WC 5 and WC 7. All wires shall be single conductor, unless otherwise specified.

B. Test Station – 128th and Meridian

No. 10 and No. 6 AWG stranded copper with 600-volt, color white XHHW insulation. The test station wire connections to the pipelines shall be made by the Contractor and extended to the test station mounted on the equipment pedestal.

C. Impressed Current Anodes

1. Single-conductor, No. 8 AWG stranded copper.
2. 20-mil thick extruded Halar primary insulation and 65-mil HMWPE outer insulation.
3. Furnish sufficient length to extend splice-free from the anode connection to the anode terminal box.

D. Rectifier to Pipeline and Rectifier to Deep Groundbed Anode Terminal Box

Single-conductor, No. 4 AWG stranded copper with 600-volt, color black HMWPE insulation. The rectifier negative connection to the pipelines (pipeline 2 and pipeline 2 duplicate) shall be made by the Contractor and extended to the equipment pedestal and terminated by the Contractor.

E. AC Power

1. Secondary Service Box to Meter Pedestal – Size and insulated in accordance with Puget Sound Energy requirements.
2. Circuit Breaker to Rectifier – No. 10 AWG stranded copper wires with 600-volt THHN or THWN insulation.

F. Insulation Colors

The Contractor shall follow and use wire size and color as indicated in the following table:

Wire Identification Label Requirements (General)		
Wire Connection	Wire Color and Size	Label Marking
Pipeline (Test Wires)	White No. 6 and No. 10	PIPE-TEST STA
Pipeline (Rectifier Neg. Wires)	Black No. 4	PIPE-RECT
Reference Electrode	Yellow No. 10	REF

21.06 TEST STATION

A. Post Mounted

1. Test Box – Manufacturer Testox Series 800 pipe mount test station.
2. Test Board – Five terminal test board.
3. Mounting Hardware – Furnish conduit, one (1) strut conduit straps, and galvanized steel hardware required to mount the test station to the pedestal. Use stainless steel fasteners. See Drawing No. 4-108-58.
4. Mounting Structure – The test station shall be securely fastened to the equipment pedestal as shown on the drawings.
5. Wire – As specified herein.

B. Flush Mounted

1. Test Box: Concrete body cast with cast-iron ring, with a minimum weight of 55 pounds and minimum dimensions of 8 inch inside diameter and 12 inches long. Furnish extensions as required to penetrate concrete surfaces by 4 inches minimum. Furnish with a 12 pound cast-iron lid with letters "TS" or words "Test Station" cast into lid.
2. Terminal Block: Plastic or glass-reinforced, 1/4 inch-thick laminate terminal board with minimum dimensions of 4 inches by 6 inches. Furnish terminal block with five nickel-plated brass studs, washers, and lock washers.
3. Manufacturer and Products: Brooks; Models 1RT or 3RT.

21.07 ANCILLARY MATERIALS

A. Compression Connectors

Wrought copper "C" taps, sized to fit the wires being spliced. Burndy Type "YC", or equal. Provide manufacturer's recommended compression tool and die for installation of compression connectors.

B. Electrical Tape

Linerless rubber high-voltage splicing tape and vinyl electrical tape suitable for

moist and wet environments. Use Scotch 130C and Scotch 88 as manufactured by 3M Products, or Engineer Approved Equal.

C. Wire Connectors

One-piece, tin-plated crimp-on lug connector as manufactured by Burndy Co.,

D. Epoxy Coating

100 percent solids, fast cure epoxy suitable for buried applications, Denso Protal 7200 repair cartridge, or Engineer Approved Equal.

E. Insulating Resin

Same as epoxy coating specified above. At Contractor's option, bitumastic coating (Koppers 50 or equal) may be used if allowed to dry completely before covering.

F. Wire Labels

Embossed aluminum or stainless steel tape and ties designed for permanent identification or insulated conductor; Type MEHT marker with Type GS4MT installation device as manufactured by Panduit, or Engineer Approved Equal.

G. Exothermic Weld Caps

Exothermic weld caps must be type Royston, Handy CAP, model XLIP with integrated primer.

H. Concrete

Reinforcing Steel: ASTM A615/A615M, Grade 60 deformed bars.

Formwork: Plywood.

Mix: ASTM C94/C94M, Option A.

Cement: ASTM C150, Type I.

Coarse Aggregate Size: 3/4 inch.

Design for Minimum Compressive Strength at 28 Days: 2,500 psi

I. Dielectric Barrier

Black polyethylene encasement sheet, 8 mils minimum thickness, conforming to AWWA C105/A21.5, free of gels, streaks, pinholes, foreign matter, undispersed raw materials, and visible defects such as tears, blisters, and thinning at folds.

21.08 MARKING TAPE

A. Inert polyethylene, impervious to known alkalis, acids, chemical reagents, and solvents likely to be encountered in soil.

B. Thickness

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Minimum four (4) mils.

C. Width

Three (3) inches.

D. Identifying Lettering

Minimum one (1) inch high, permanent black lettering imprinted continuously over entire length.

E. Manufacturers, or Engineer Approved Equal

1. Reef Industries; Terra Tape.
2. Allen; Markline.

F. Color

Red with black lettering as follows: "ELECTRICAL WIRES BURIED BELOW".

21.09 THERMITE WELD MATERIALS

A. **General**

Wire sleeves, welders, and weld cartridges according to the weld manufacturer's recommendations for each wire size and pipe or fitting size and material. Welding materials and equipment shall be the product of a single manufacturer. Interchanging materials of different manufacturers will not be acceptable.

B. **Molds**

Graphite. Ceramic "One-Shot" molds are not acceptable.

C. **Adapter Sleeves**

1. As required to match welder size to wire size.
2. Prefabricated factory sleeve joint bonds or bond wires with formed sleeves made in the field are acceptable. Attach field-formed sleeves with the appropriate size and type of hammer die furnished by the thermite weld manufacturer.
3. Extend wire conductor $\frac{1}{4}$ inch beyond the end of the sleeve.

D. **Welders and Cartridges**

For attaching copper wire to pipe material:

Pipe Material		Weld Type	Cartridge Size, Max.
4 AWG Wire and Smaller:			
Steel		HA, VS, HC	25 gm
Notes:	HA = Horizontal Tap Weld HC = Horizontal Through Conductor Weld VS = Vertical Surface		

E. Manufacturers, or Engineer Approved Equal

1. Erico Products Inc. (Cadweld), Cleveland, OH.
2. Continental Industries, Inc. (Thermo-Weld), Tulsa, OK.

21.10 SPARE PARTS

Spare parts for the rectifier shall be provided as part of this contract.

- A. Three (3) complete sets of spare fuses packaged in a sealed, waterproof bag.
- B. One (1) each AC input lightning arrestors.
- C. One (1) each DC output lightning arrestors.

21.11 EQUIPMENT PEDESTAL

- A. The Contractor shall furnish and install the equipment pedestal to the dimensions shown on the drawings. Mount all equipment on the pedestal, connect all conduits, and install all cable as specified.
- B. The pedestal shall be powder coated or heat cured 100 percent solid thermosetting (black) epoxy coating to provide a complete one piece welded weatherproof structure.
- C. Remove welding slag, splatter, burrs, grease, oil, paint, lacquer, and other deleterious material prior to powder coating.
- D. Hot dip galvanized bolts, nuts, and washers in accordance with ASTM A153.
- E. The Pedestal shall be set 18" into concrete footings as shown on Drawing No. 4-108-58. Sonotubes forms shall be used and be set no less than 30" deep. The top of the Sonotube shall be flush to finished grade.

21.12 SAFETY BOLLARDS

- A. Shall be four (4) inch diameter, steel pipe, Schedule 40, filled with concrete.

- B. Painted with primer and two coats alkyl enamel paint (safety yellow). A yellow HDPE bollard sleeve may be used in lieu of a painted surface.
- C. Install bollards to location and center distance as shown on drawings.

22. TECHNICAL PROVISIONS INSTALLATION OF ANODE GROUND BED - EXECUTION

22.01 INSTALLATION

1. Construct cathodic protection system and test stations for buried steel pipe and appurtenances.
2. Conform to NFPA 70 and NACE RP05-72.

22.02 DEEP ANODE GROUND BED INSTALLATION

A. General

1. Drilling, electrical logging, lowering of anodes, coke breeze placement, and backfilling shall be done in one continuous operation, and shall be observed by the Contractor's Cathodic Protection Specialist.
2. Perform drilling and waste disposal in accordance with the methods and procedures that comply with the rules and regulations of the state, city, and county, or other governing bodies having jurisdiction. The Contractor shall be responsible for the removal and disposal of all tailings from drilling operations each day. Seal hole with groundbed sealing material or as required by local well drilling regulations. The most stringent regulations apply. Adequate provisions shall be provided to prevent any tailings from leaving the immediate project site and a BMP shall be submitted to demonstrate such.
3. Take necessary precautions to avoid entrance of foreign matter into the hole, movement of soil strata, or collapsing of the hole during the progress of the work. Should movement of soil strata or collapse of the drilled hole interfere with proper completion of the ground bed, recover the wires and anode strings and ream or re-drill the hole.
4. Maintain a log describing the depth and type of geological formations encountered during drilling.

B. Drilling

1. Approximate location of the ground bed is shown on drawings. Coordinate the final location of the groundbed in the field with the Engineer before drilling begins. Minor deviation to the site location due to unforeseen circumstances shall be considered as incidental to the construction of the project and shall not be treated as change of order.
2. Construct the hole and set casing round, straight, and plumb.
3. Set surface casing prior to completion of the first 50 feet of the hole, install permanent PVC casing in upper 60 feet as shown on the Drawings. Casing, other than the surface casing, shall not be installed or left in the hole unless in the driller's estimate it is necessary for successful completion of the hole. Plastic casing may be installed in the Inactive Column, at the Contractor's option, but shall not extend into the Active Column.

4. If steel casing is installed and must be left in the Active Column, it shall be cut below the surface at the top of the Active Column and the top portion completely removed from the hole. Complete cutting of the steel casing before the anodes are installed; jacking operations may be completed before or after installation of the anode assembly at the Contractor's option.
5. Over drill the hole to compensate for sloughing or heaving during anode installation.

D. Electrical Logging

1. At the Contractor's option, the hole may be flushed. Electrically log the hole in the presence of the Engineer to determine the downhole characteristics for optimum anode elevations.
2. Acceptable Method of Electrical Logging – Make a resistance to earth reading as a short section of pipe is lowered down the hole. Test with suitable meters, a short section of weighted metallic pipe, connection to a low resistance ground, a wire reel with appropriate type, size, and amount of wire to reach the bottom of the hole, and a method to measure the downhole wire length or footage identification marking on other wire to allow determination of the test pipe depth.
3. Record resistance reading and depth from the surface continuously or at five (5) foot increments for the entire hole depth.
4. Based on the results of the electrical log data and the driller's log of soil formations, the Engineer may modify the anode spacing and drilled depth.

E. Lowering of Anodes

1. Notify the Engineer ten (10) working days prior to beginning this work.
2. Lower anodes after the drilling is completed
3. Install anodes and coke breeze on the same day as the completion of the drilling and electrical logging.
4. Attach individual anodes and vent pipe to a steel lowering pipe with non-metallic ties. Adjust anode spacing such that the anodes are not installed across a coupling in the steel lowering pipe. Electrically isolate the anodes from the steel lowering pipe with a short section of plastic pipe wrapped around the steel lowering pipe at the anode connection point or with a method that is approved by the Owner. If steel casing is used and extends into the Active Column, the anode centralizers shall be electrically isolated from the casing by a method approved by the Owner.
5. Lower the anodes and vent pipe into the hole using the steel lowering pipe. Secure anode wires to the steel lowering pipe in the Active Column and the plastic vent pipe in the Inactive Column at periodic intervals as required to prevent damage during installation of anodes, coke breeze, and sealing material. Secure the vent pipe and anode wires to the steel lowering pipe on 2-foot centers with vinyl electrical tape.
6. Provide the steel lowering pipe with a reverse thread fitting at the top anode. After the anodes are placed in the final position and the coke breeze has been installed, remove the steel lowering pipe in the Inactive Column.
7. Provide sufficient slack in the anode wires to prevent damage during anode and coke breeze

installation.

8. Damage to anodes or cut, gouged or scraped wire insulation will not be acceptable. The Anode wires may not be spliced.
9. If the hole is drilled with mud, the hole shall be flushed with clean water in a continuous process before or after the anodes are lowered until the return fluid is sufficiently clear to allow proper installation and settlement of the anodes, vent pipe, and coke breeze. Contain, collect, store and dispose of flushed water in accordance with local, state, and federal requirements.

F. Backfilling of Anode Hole

1. Notify the Engineer ten (10) working days prior to beginning this work.
2. Keep hole full of water during installation of the coke breeze.
3. Prepare a coke breeze slurry with water in accordance with the manufacturer's written recommendations. Pump coke breeze slurry into the hole through the steel lowering pipe or an additional temporary **plastic pipe**. Pump the coke breeze in an even and continuous manner from the bottom of the hole to the top as the plastic pipe, if used, is slowly withdrawn. Top-loading the coke breeze, by pouring coke breeze into the hole, will not be permitted.
4. Conduct resistance measurements between an appropriate grounded structure or the pipeline and each anode lead as coke breeze is installed. Start individual anode resistance measurements at bottom anode. When resistance measurement indicates that coke breeze level has covered bottom anode, connect test leads to next higher anode wire and monitor resistance measurement as coke breeze is installed. Use resistance measurements to monitor coke breeze level in drilled hole and detect possible coke breeze bridging problems during installation.
5. Install pea gravel to depth shown or as required by local drilling codes. If installation of pea gravel is precluded by drilling codes or groundwater conditions, seal entire Inactive Column with bentonite or other approved sealing material.

G. Placement of Seal

1. Place seal by pumping or forcing material from bottom to within 18 inches of finished grade. Place seal in such a manner that ensured entire filling of the space in one continuous operation.
2. Install sealing material in the annular space between the casing and the soil.

H. Anode Wire and Vent Pipe Routing and Termination

1. Cut a smooth hole in the side of the casing for routing wires to the anode junction box. Install a rubber grommet or pipe with plastic bushings on both ends in the hole to prevent damage to the wire insulation by the casing.
2. Place vent pipe through hole cut in the casing and route to rectifier as indicated. Terminate surface vent pipe at the equipment pedestal, as indicated. Install a one (1) inch gooseneck, nipple and cap as part of the vent pipe. Drill ten (10) 1/8" holes in the nipple. Anchor vent pipe to pedestal as shown. All surface/riser pipes shall be of rigid metal. Rigid metal pipes in direct contact with the earth shall be ½ lapped with insulating polyvinyl, two (2) inches wide tape (Scotch No. 22), eight (8) inches above

and below finished grade.

22.03 RECTIFIER INSTALLATION

A. General

Provide the Engineer with ten (10) working days prior notice to the completion of the rectifier, ground bed, and AC power connection to allow scheduling of the required energizing and testing.

B. For the Rectifier at 128th and Meridian

1. Install pedestal mount rectifier, including a new underground single-phase service as shown in drawing.
2. Provide conduits, conductors, and electrical hardware necessary for the rectifier installation. Install conduits and AC power wires from the service panel to the rectifier. Extend the preinstalled rectifier wire from the pipeline to the rectifier.
3. Install rectifier wire from the rectifier positive terminal to the anode terminal box as indicated.
4. Connect rectifier to 110/220-volt power source. Wire the rectifier to 110-volt.

22.04 AC POWER SERVICE

- A. Provide alternating current power to the rectifier disconnect switch in accordance with Tacoma Power requirements. Power service installation shall meet or exceed local and NEC code requirements.
- B. The Contractor shall work with Tacoma Power to have the 110/220 volt service installed from the adjacent service pad mounted transformer.
- C. Coordinate installation of the electrical power service with Tacoma Power. The Contractor shall pay for all electrical utility connection fees and inspection services that may be required for a complete and operable system.
- D. Provide conduit and electrical wiring from the secondary service box to the service disconnect and complete all testing as specified herein.

22.05 ANODE SHUNT BOX INSTALLATION

- A. Connect the rectifier positive lead and anode wires to the terminals with the shunts, bus bars, and appropriate fasteners.
- B. Label wires in the terminal box with permanent brass tags identifying the anode number and rectifier lead. Connect numbered anodes in consecutive order to anode terminals starting with Number 1 (first anode from the bottom of the well) at the top left-hand side. Maintain sufficient slack to keep the wire from being unduly stressed, damaged, or broken during backfill.

22.06 CONDUCTOR INSTALLATION

Install and pull conductors in accordance with applicable codes. Contractor shall follow and use wire size and color as indicated in the table in Section 3.05. Failure to follow the requirement will cause rejection

and require reinstallation.

Arrange conductors neatly in rectifier, junction box, shunt box, test box, and ground bed lid utility box. Cut to proper length, remove surplus wire, and attach to appropriate terminal as indicated.

Seal below-ground conduit to prevent intrusion of foreign material after wire is in place.

Bury warning tape approximately twelve (12) inches above underground rectifier conductors and conduits. Align parallel to and within two (2) inches of the centerline of the conduit or conductor run.

22.07 CONDUITS

- A. Provide conduit types as shown on the Drawings. Use PVC conduit for buried applications only. Provide ¼-inch minus well-graded sandy gravel, hard, durable, and free from vegetation or other deleterious material for pipe zone of buried conduit. Use galvanized rigid steel conduit for all other applications, including, but not limited to exposed installations. All surface/riser conduits shall be of galvanized rigid steel, and if in direct contact with the earth, shall be ½ lapped with insulating polyvinyl, two (2) inches wide tape (Scotch No. 22), eight (8) inches above and eighteen (18) inches below finished grade.
- B. Secure conduits entering boxes with double locknuts, one of the outside and one on the inside.
- C. Install insulated bushings and insulated throat connectors on the ends of rigid metallic conduit.
- D. Use water tight couplings and connections. Install and equip boxes and fittings to prevent water from entering the conduit or box. Seal unused openings.

22.08 TEST STATION INSTALLATION

- A. Provide conduit types as shown on the Drawings.
- B. Install test stations at the locations and to structures indicated on drawings.
- C. Install pedestal-mounted test stations plumb and straight.
- D. The test station wires, rectifier negative and zinc reference cell shall be installed by the City and coiled in a surface mounted box to be extended to the equipment pedestal by the Contractor. The bury depth of the test wires and negative wire conduits shall be in accordance with Drawing No. 4-108-58.
- E. Make wire connections to test station terminals with crimp-on spade lug terminals.
- F. Install wire labels on all conductors in boxes. All materials used shall be suitable or permanent identification. Plastic, paper, or cloth markers will not be permitted. Position all markers in boxes so that they do not interfere with operation and maintenance. Labels to be marked as indicated in the table in Section 3.05.
- G. Concrete for flush mounted test station:
 - Reinforcing: Accurately place in accordance with CRSI Recommended Practice.
 - Minimum Compressive Strength at 7 Days: 2,500 psi.

- Placing, Consolidating, and Finishing: In accordance with ACI 301.

22.09 REFERENCE ELECTRODE INSTALLATION

- As indicated and shown on the drawings.
- Backfill the reference electrodes with native material.

Thermite Weld

- Use thermite weld method for electrical connection of copper wire to steel surfaces. Observe proper safety precautions. Welding procedures, thermite weld material selection, and surface preparation recommended by the welder manufacturer. Assure that the pipe or fitting wall thickness is of sufficient thickness that the thermite weld process will not damage the integrity of the pipe or fitting wall or protective lining.
- After the weld connection has cooled, remove slag, visually inspect, and physically test wire connection by tapping with a hammer; remove and replace defective connections.
- Weld caps must be type Royston, Handy Cap, Model XL IP with integrated primer.

22.10 WIRE CONNECTIONS

For thermite weld connections to pipe, apply insulating resin, then specified joint coating over each completed connection. Repair exposed metal surfaces not covered by the resin and mortar in accordance with the coating manufacturer's recommendations.

22.11 WIRE INSULATION REPAIR

Wire shall be handled with care. Splices for damage to the wire insulation shall be required by spirally wrapping (50 percent overlap, minimum) with two layers of high-voltage rubber slicing tape and two layers of vinyl electrical tape. Make wire splices with suitable sized compression connectors or mechanically secure and solder with rosin cored 50/50 solder. Splices shall be approved by the Engineer.

No splices shall be permitted in the anode wires between the deep anode groundbed and the anode terminal box at the rectifier. Sufficient wire must be ordered with each anode to reach the anode shunt box when fixed in its final location.

22.12 MARKING TAPE INSTALLATION

Install marking tape along the centerline of horizontal runs of the wire.

22.13 TESTS AND INSPECTIONS

Functional Testing – Deep Anode Groundbed

The Contractor's Cathodic Protection Specialist shall perform tests to ensure proper installation and operation of the cathodic protection system. These tests shall consist of the following:

Structure-to-Soil Potential Measurements – Measure the structure-to-soil potential of the pipeline at each test station using the equipment specified herein. Structure-to-soil potential measurements shall be made

at the surface with a portable copper-copper sulfate reference electrode and the permanent reference electrode installed at each test station. Structure-to-soil potential measurements shall be taken on all wires at each location and recorded.

Anode current measurements.

Records – Tabulate all structure-to-soil and anode current measurements, with the date and test location, and submit to the Engineer as specified above.

23. TECHNICAL PROVISIONS INSTALLATION OF DIELECTRIC BARRIER - EXECUTION

23.01 DIELECTRIC BARRIER

- A. Install dielectric barrier between Tacoma Water pipeline Tide Flat Trunk Main No.1 and Puget Sound Energy 4" distribution pipeline.
- B. Install test wires and a test station at same location for the monitoring of stray current.

23.02 DIELECTRIC BARRIER INSTALLATION

A. General

- 1. Excavating, pipeline test wire connections, dielectric barrier placement, and backfilling shall be done in one continuous operation, and shall be observed by the Contractor's Cathodic Protection Specialist.
- 2. Work shall be carefully coordinated with PSE Gas department no less than four (4) weeks prior to any work commencing. PSE Cathodic Protection representatives shall be on site for the entire duration of work at this location.
- 3. Take necessary precautions to avoid entrance of foreign matter into the excavation, movement of soil strata, or collapsing of the site during the progress of the work.
Should movement of soil strata or collapse of the area interfere with proper completion of the installation, soil must be removed to allow proper access
- 4. The dielectric barrier shall be installed centered over the Tacoma Water pipeline as shown in the drawings with equal distance between the PSE pipeline and Tacoma Water pipeline.
- 5. Puget Sound Energy shall make necessary connections to the PSE Gas pipeline which shall be coordinated with local representatives

APPENDIX A

Drawings

Drawing No. 16-76-10 Tideflats Truck Main No. 1 plan and Profile

Drawing No. 16-76-17 SO. 30th Street and Delin Map, Plan, Profile, and Details

Drawing No. 4-108-56 128th Street and Meridian Ave. Cathodic Protection Station – Plan, Cover sheet, Vicinity Map and Index

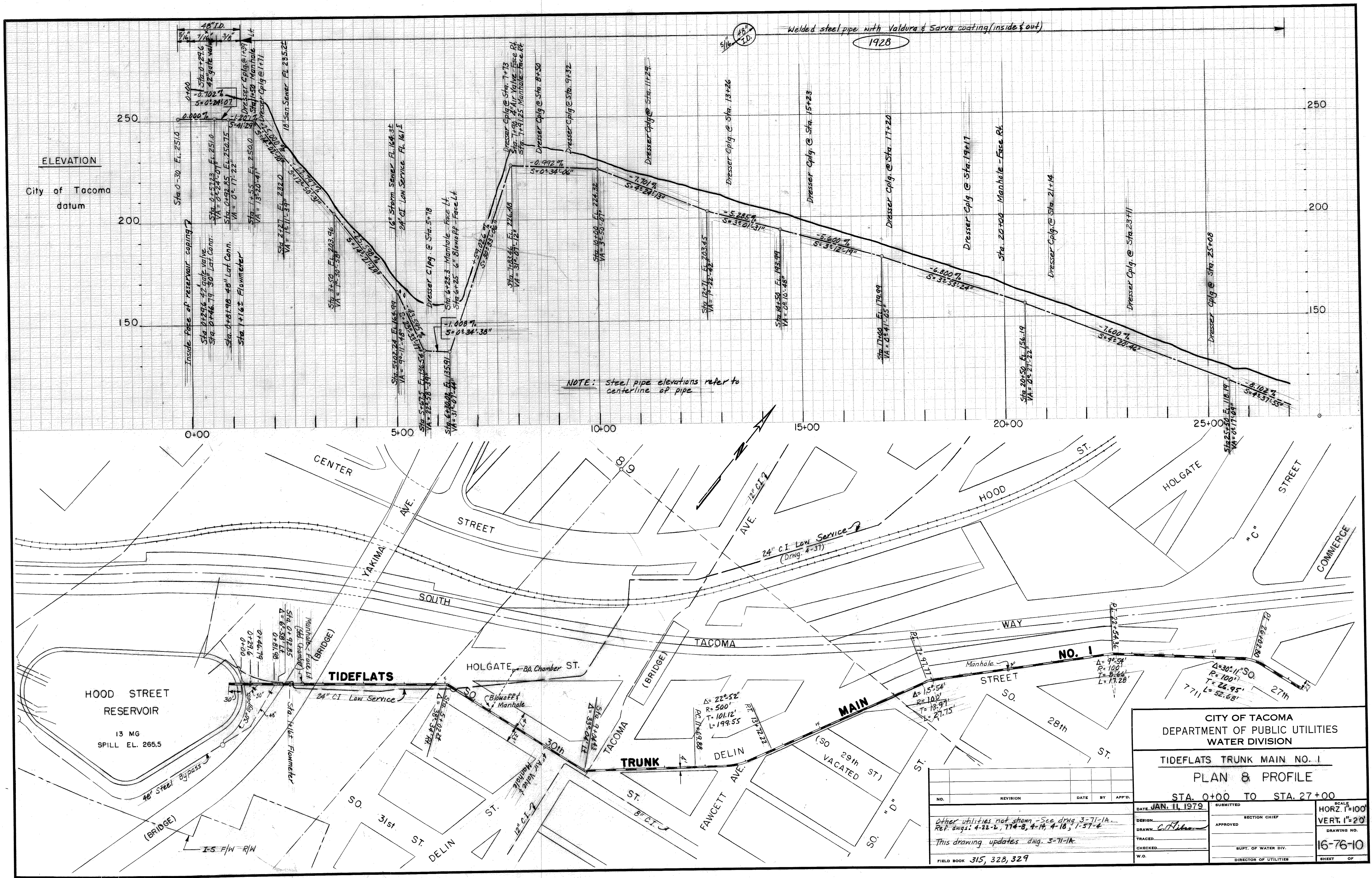
Drawing No. 4-108-57 128th Street and Meridian Ave. Cathodic Protection Station Site Plan

Drawing No. 4-108-58 128th Street and Meridian Ave. Cathodic Protection Station Elevation and Details

Drawing No. 13-15-02 Green River Gravity Pipeline No.2, Plan and Profile

Drawing No. 17-13-02 Pipeline No.2 Duplication, Plan and Profile

Drawings to be added after final review

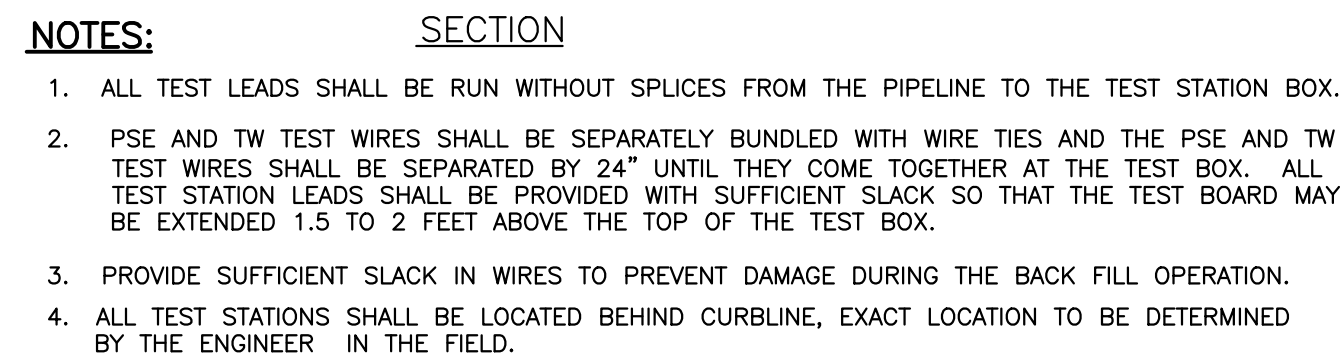


CITY OF TACOMA
DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION

TIDEFLATS TRUNK MAIN NO. 1
PLAN & PROFILE
STA. 0+00 TO STA. 27+00

NO.	REVISION	DATE	BY	APPD.
Other utilities not shown - See drwg. 3-71-1A Ref. dwgs: 4-22-2, 774-8, 4-14, 4-18, 1-57-4 This drawing updates drwg. 3-71-1A.				
FIELD BOOK 315, 328, 329				

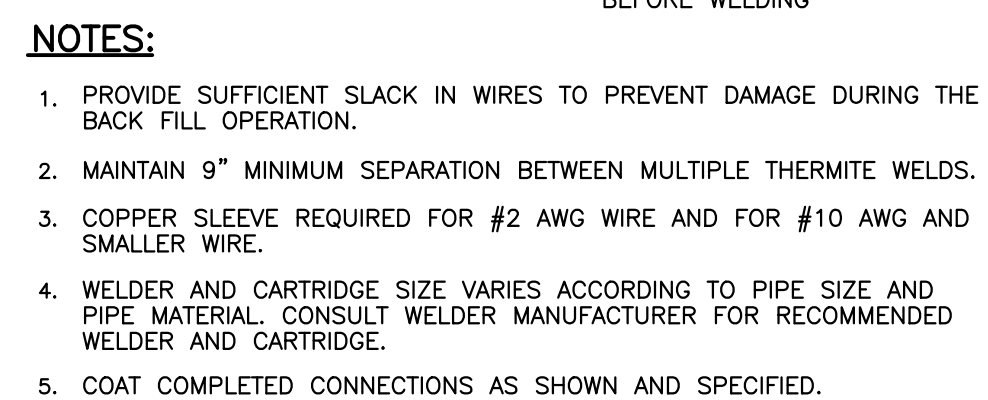
DATE	SUBMITTED	SCALE
JAN. 11, 1979		HORZ. 1"=100' VERT. 1"=20'
DESIGN	SECTION CHIEF	DRAWING NO.
DRAWN	APPROVED	16-76-10
CHECKED	SUPT. OF WATER DIV.	SHEET
W.O.	DIRECTOR OF UTILITIES	OF



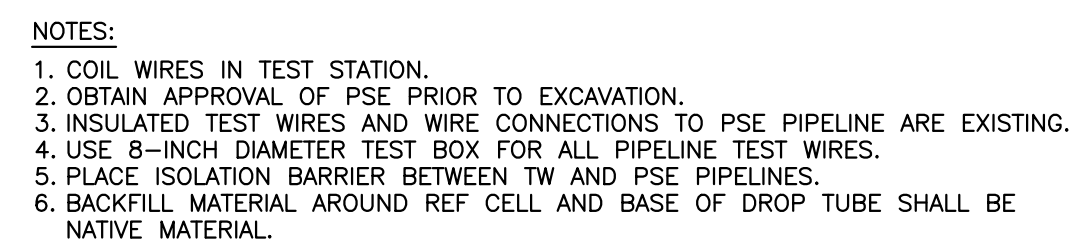
TYPICAL TEST BOX AT PIPE TEST STATION 1
N.T.S.



TYPICAL TEST BOARD DETAIL (3)
N.T.S.



WIRE CONNECTION TO PIPE (2)
N.T.S.



FLUSH MOUNTED TEST STATION 4



1" = 10'-0"

REFERENCE


ACCOUNTING
CADNET PROJECT NAME:
VAULT FILE NAME:
FIELD BOOK
DATA FILE

APPROVED

MANAGER



SO. 30TH ST & DELIN ST
STRAY CURRENT MITIGATION
VICINITY MAP, PLAN, PROFILE AND DETAILS

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

SCALE	
1" = 30'	
1" = 10'	
DRAWING NO.	
16-76-17	
SHEET 1 OF	

A regional map of Washington state with a rounded rectangular border. The map shows the state's outline. Major cities are marked with black dots and labeled: SEATTLE in the north-central part, SPOKANE in the northeast, and TACOMA in the west. A line representing a highway runs from Tacoma towards Spokane, with a shield icon containing the number 90. A specific location on this highway is marked with a circle containing a dot, and an arrow points from the label 'PROJECT SITE' to this location. The word 'WASHINGTON' is written in large, spaced-out capital letters across the lower half of the map.

REGIONAL MAP
NO SCALE



<u>DRAWING NUMBER</u>	<u>TITLE</u>
4-108-56	128th Street E & Meridian AVENUE CATHODIC PROTECTION STATION - PLAN, COVER SHEET, VICINITY MAP AND INDEX
4-108-57	128th Street E & Meridian AVENUE CATHODIC PROTECTION STATION - SITE PLAN
4-108-58	128th Street E & Meridian AVENUE CATHODIC PROTECTION STATION - ELEVATION & DETAILS

PLAN

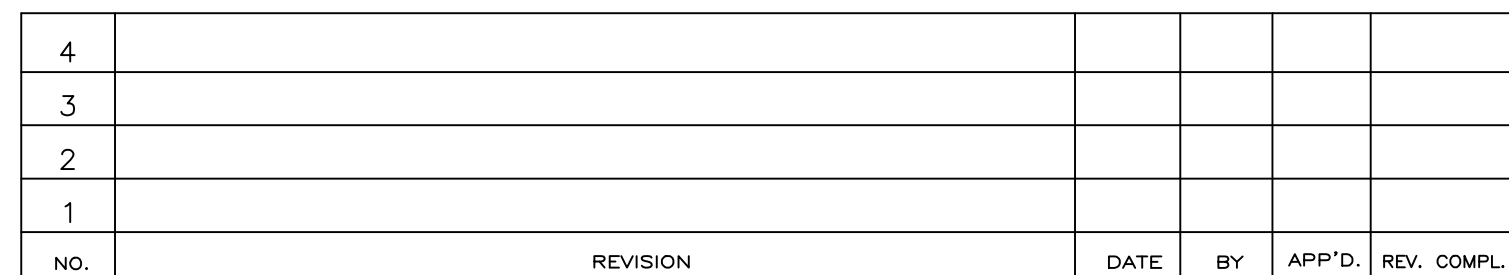
0 10' 20' 40' 60'

SCALE

RIGHT OF WAY

PARCEL LINE

PROJECT SITE



	REFERENCE	DATE <u>5/19/21</u>
		DESIGN <u>MJD</u>
		DRAWN <u>SRL</u>
		DIGITIZED _____
		CHECKED _____

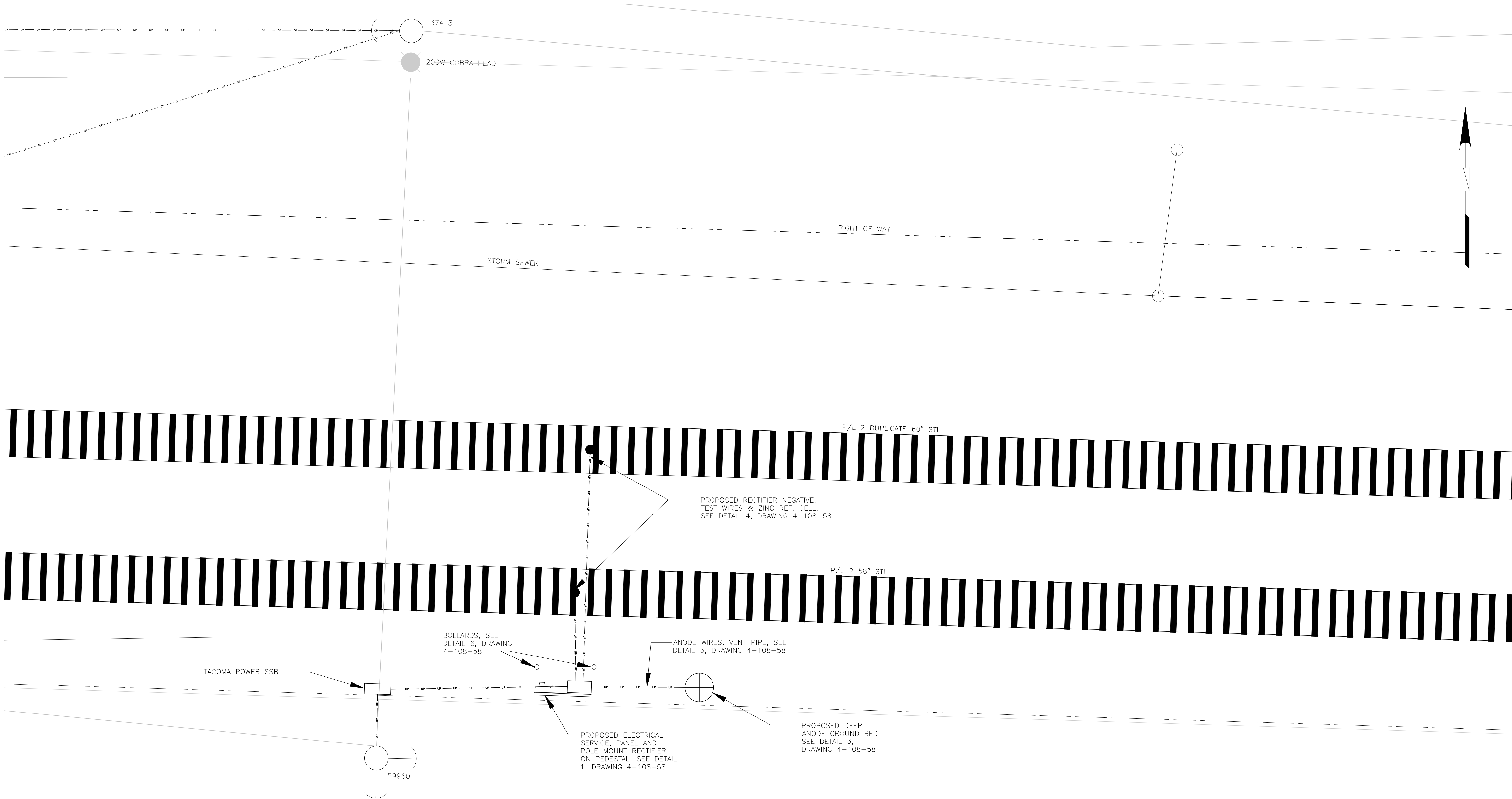
ACCOUNTING	20000098847
CADNET PROJECT NAME:	CP STATIONS
Vault FILE NAME:	4-108-56 THRU 58.DWG
FIELD BOOK	
DATA FILE	

APPROVED
Shannon Wall
MANAGER

128TH STREET E & MERIDIAN AVENUE
CATHODIC PROTECTION STATION – PLAN,
COVER SHEET, VICINITY MAP AND INDEX

SCALE
NONE
DRAWING NO.
4-108-56
SHEET 1 OF 3

Xref Filename: I Plot date: May 19, 2021--12:37:02pm CAD User: SLong.



SITE PLAN
1" = 5'-0"

4					
3					
2					
1					
NO.	REVISION	DATE	BY	APP'D.	REV. COMPL.

REFERENCE

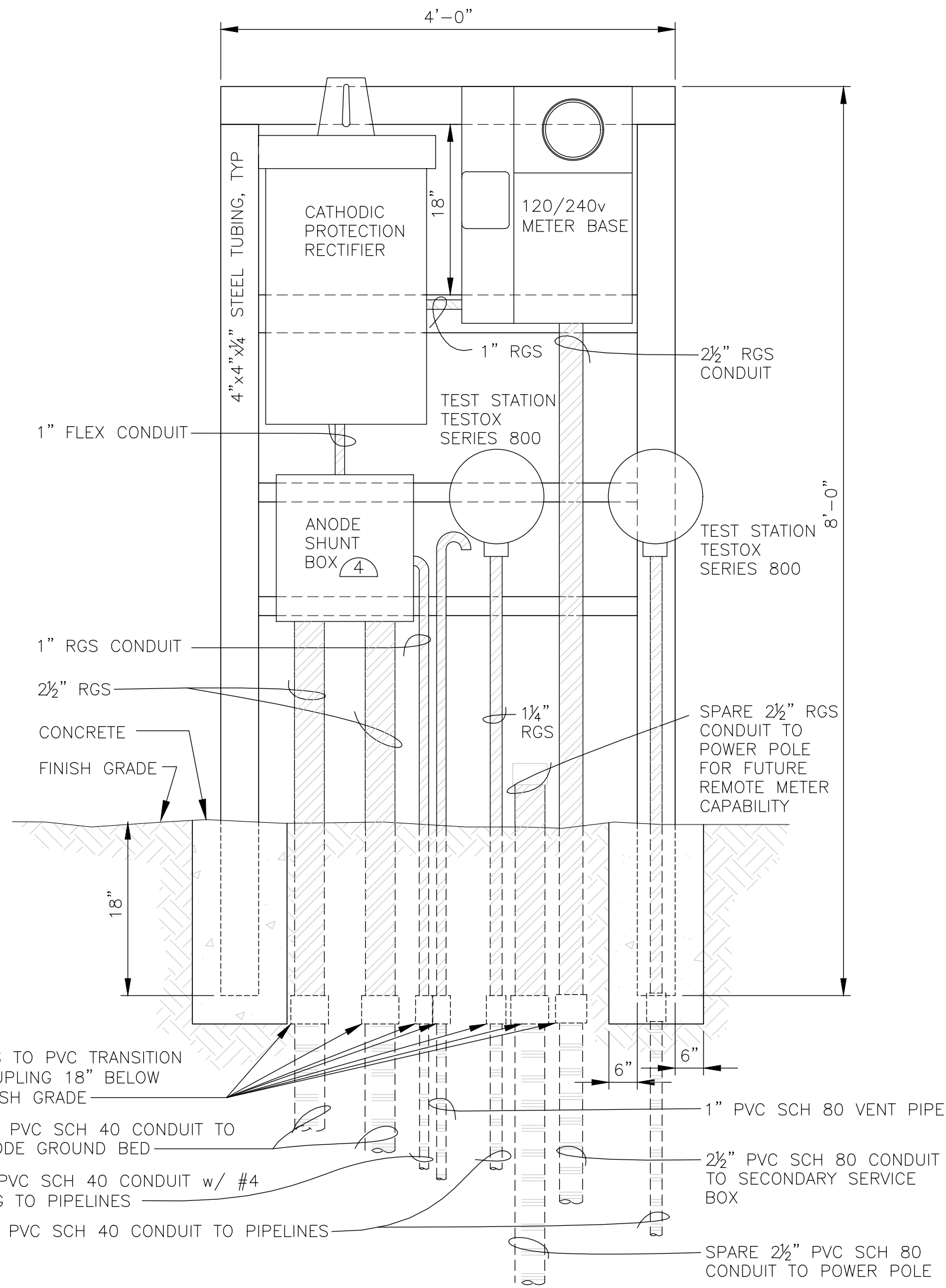
DATE	5/19/21
DESIGN	MJD
DRAWN	SRL
DIGITIZED	
CHECKED	

ACCOUNTING	20000098847
CADNET PROJECT NAME:	CP STATION
VAULT FILE NAME:	4-108-56 THRU 58.DWG
FIELD BOOK	
DATA FILE	

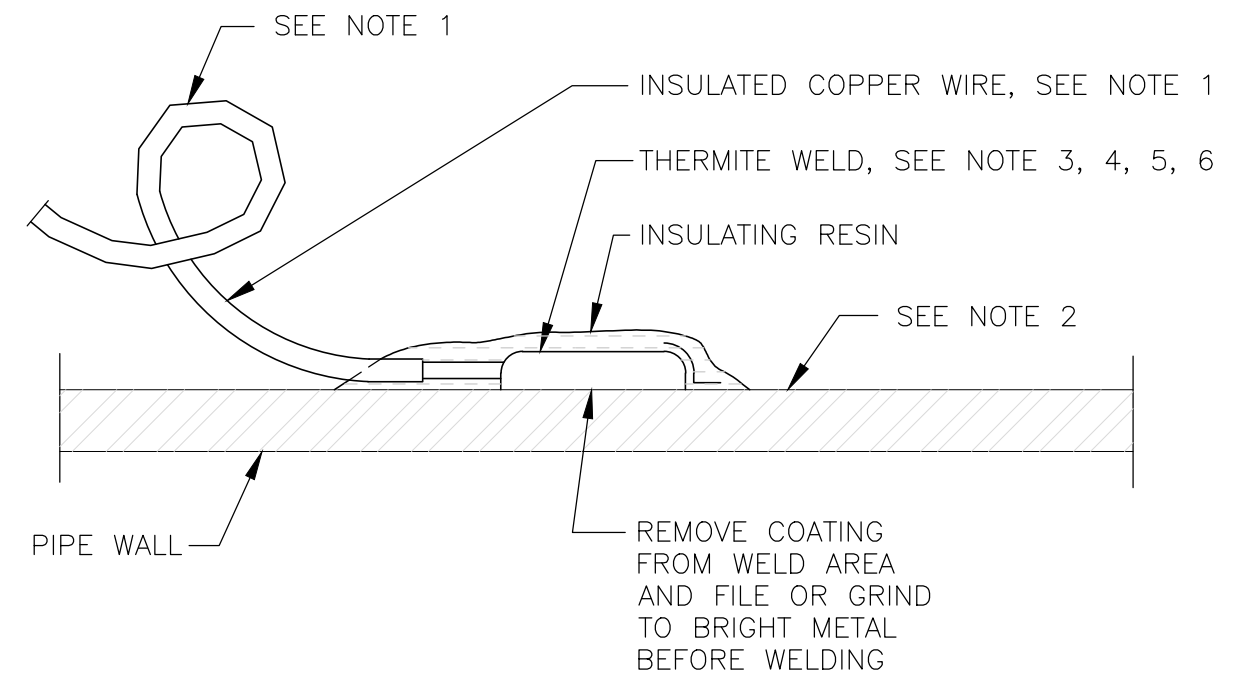
APPROVED	Shannon Wall
	MANAGER

128TH STREET E & MERIDIAN AVENUE
CATHODIC PROTECTION STATION
SITE PLAN

SCALE	1" = 5'-0"
DRAWING NO.	NONE
	4-108-57
SHEET	2 OF 3

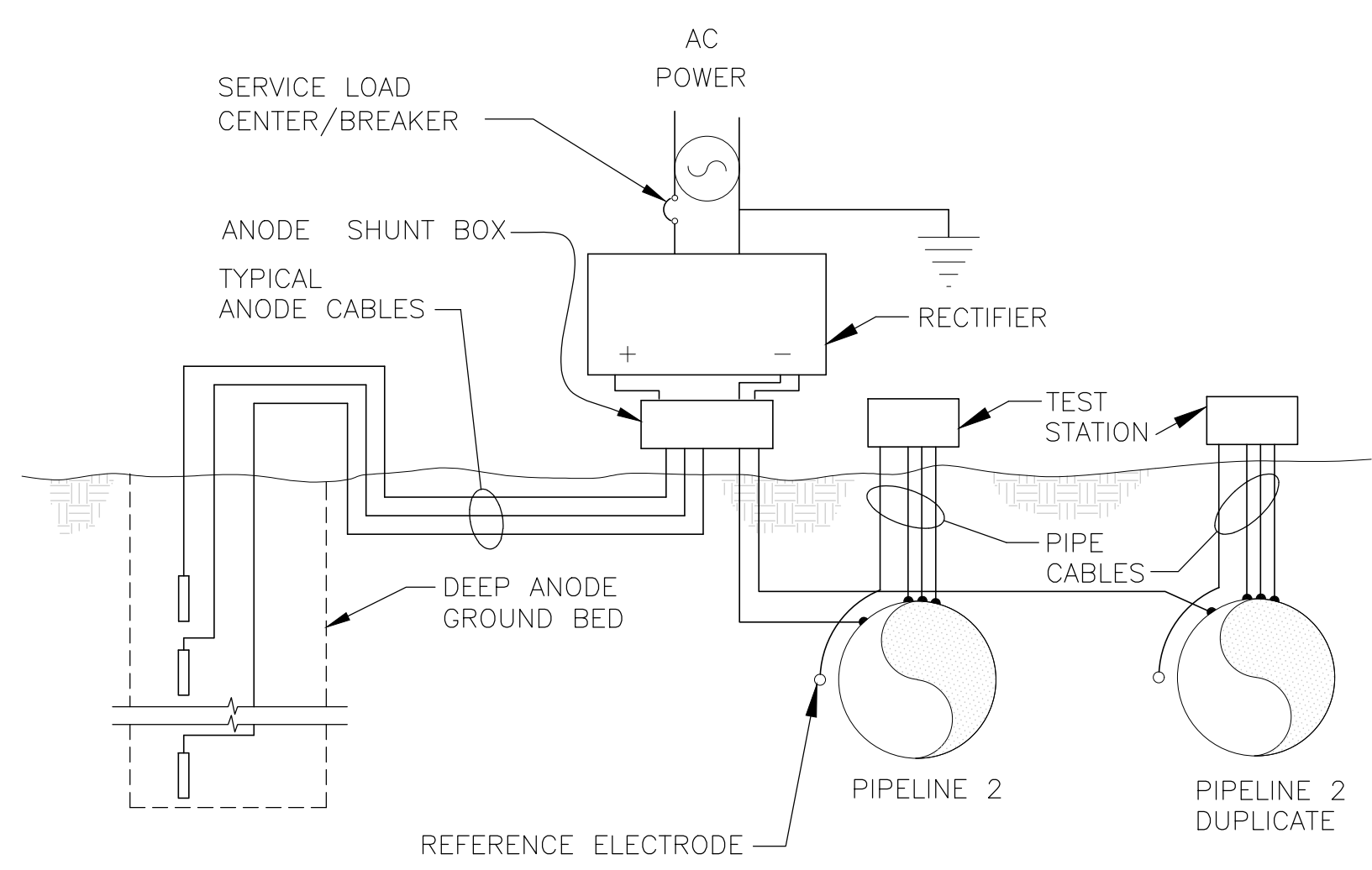


EQUIPMENT PEDESTAL ELEVATION
SCALE: 1" = 1'-0"

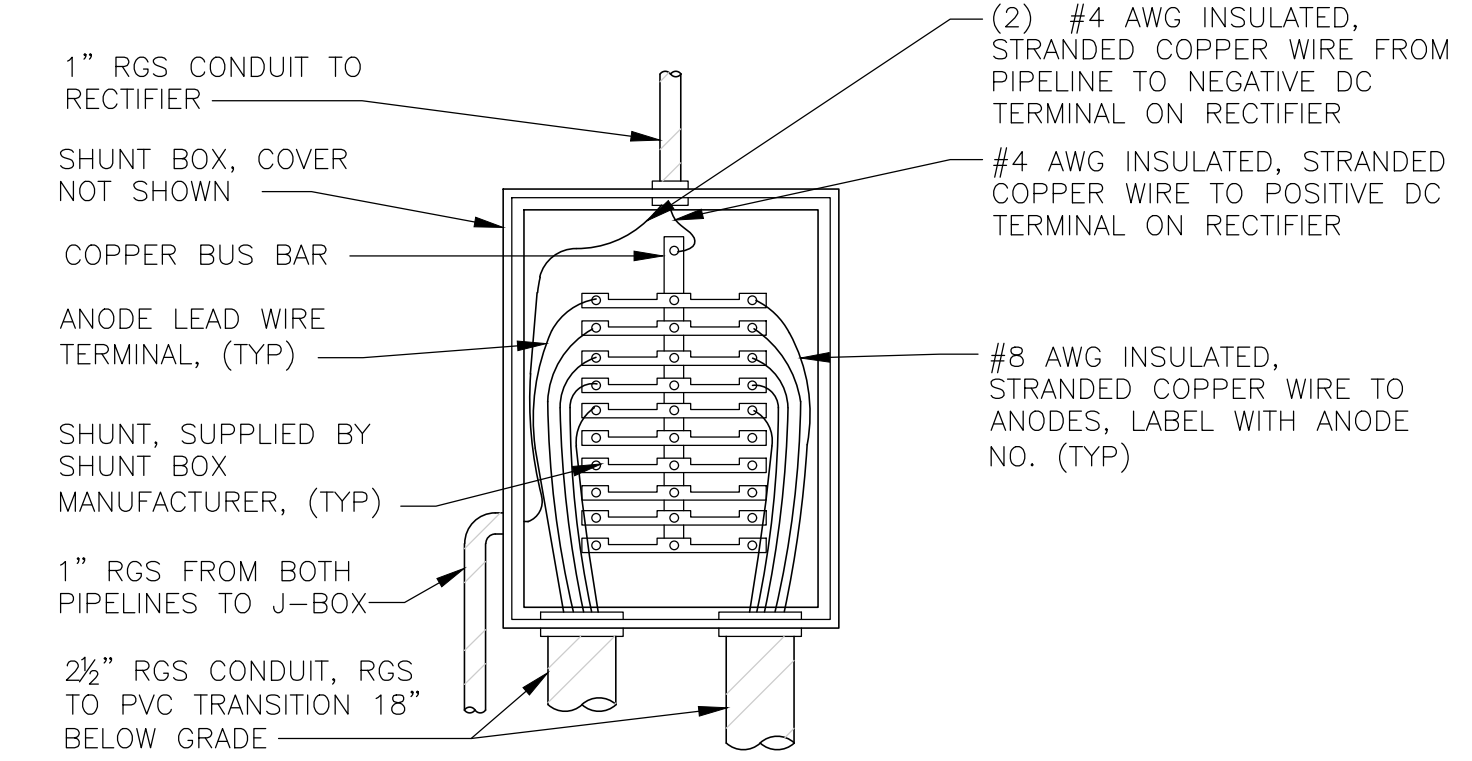


- NOTES:
1. MAKE WIRE CONNECTIONS TO PIPE. PROVIDE SUFFICIENT SLACK IN WIRES TO PREVENT DAMAGE DURING THE BACKFILL OPERATION.
 2. PIPE COATING NOT SHOWN FOR CLARITY.
 3. MAINTAIN 9" MINIMUM SEPARATION BETWEEN MULTIPLE THERMITE WELDS.
 4. COPPER SLEEVE REQUIRED FOR #2 AWG WIRE AND FOR #10 AWG AND SMALLER WIRE.
 5. WELDER AND CARTRIDGE SIZE VARIES ACCORDING TO PIPE SIZE AND PIPE MATERIAL. CONSULT WELDER MANUFACTURER FOR RECOMMENDED WELDER AND CARTRIDGE.
 6. USE RAYSTON HANDY CAP XLP FOR ALL PIPELINE WIRE CONNECTIONS.

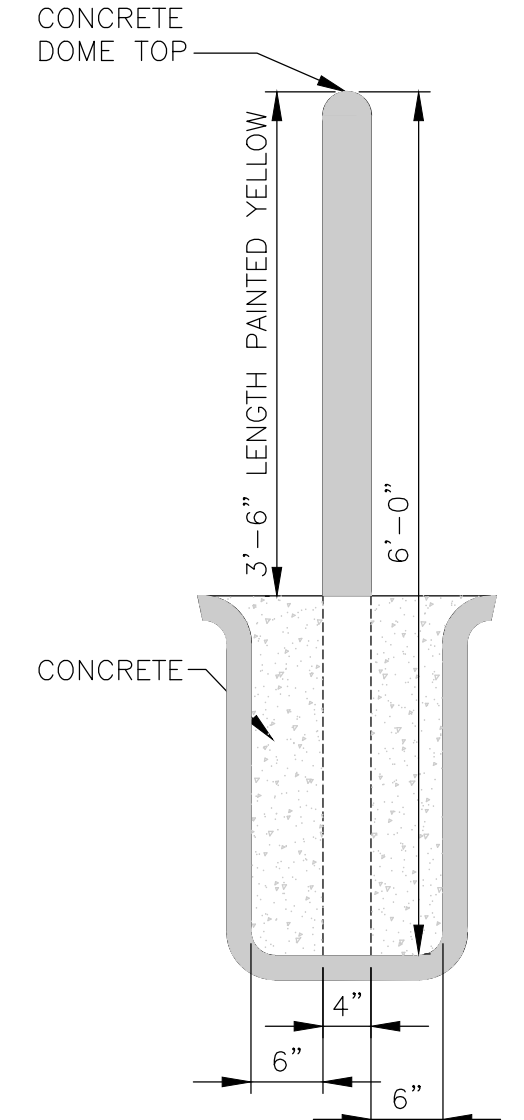
WIRE CONNECTION TO PIPE DETAIL (5)
NOT TO SCALE



CATHODIC PROTECTION SCHEMATIC (1)
NOT TO SCALE

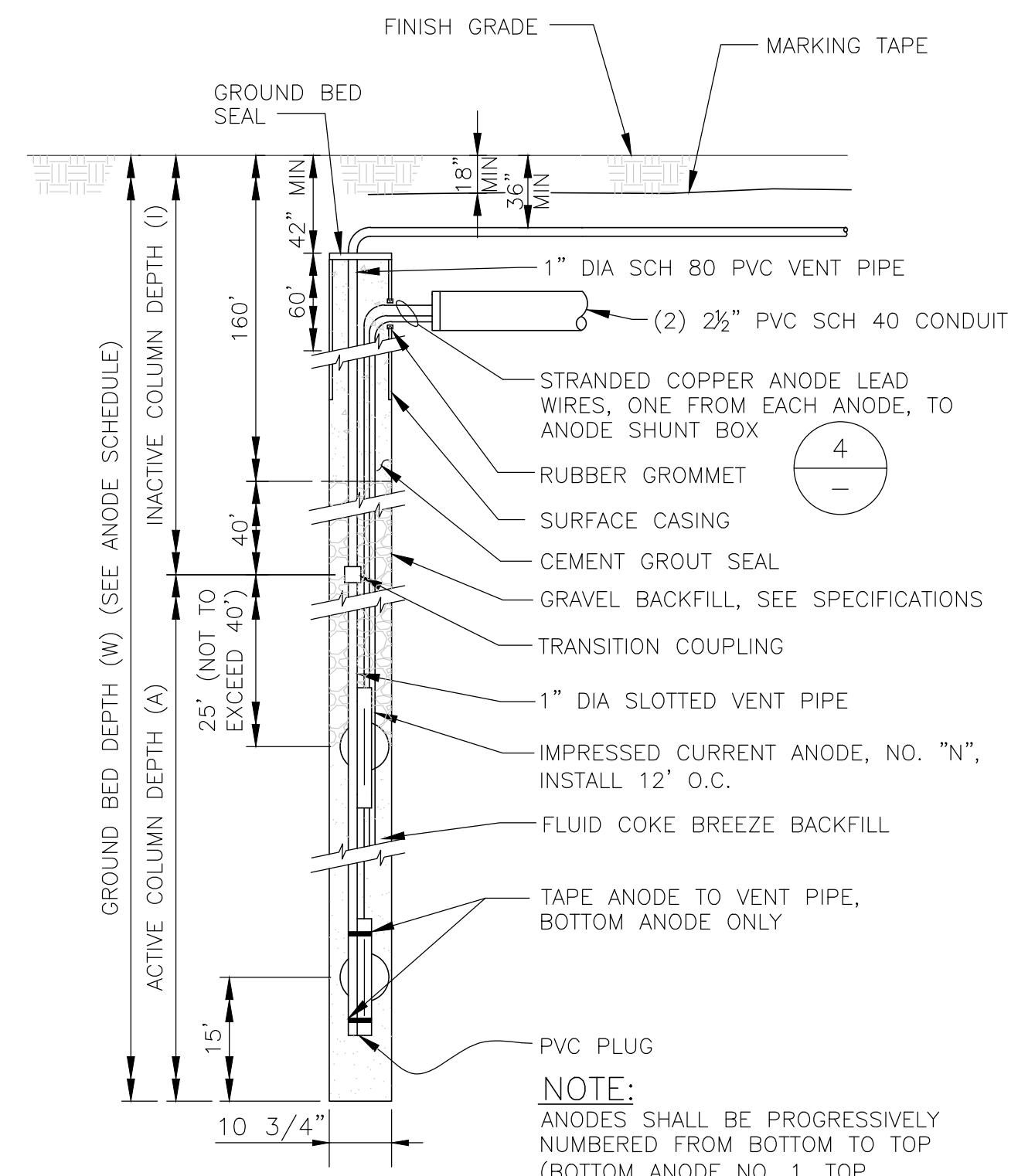


ANODE SHUNT BOX DETAIL (4)
NOT TO SCALE



- NOTE:
1. SCHEDULE 40 OR BETTER GALVANIZED STEEL PIPE FILLED WITH CONCRETE, 6 FEET x 4 INCHES DIAMETER. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AFTER 28 DAYS.
 2. PAINT POST WITH TWO COATS OF ALKYD ENAMEL AFTER INSTALLATION. COLOR: YELLOW.

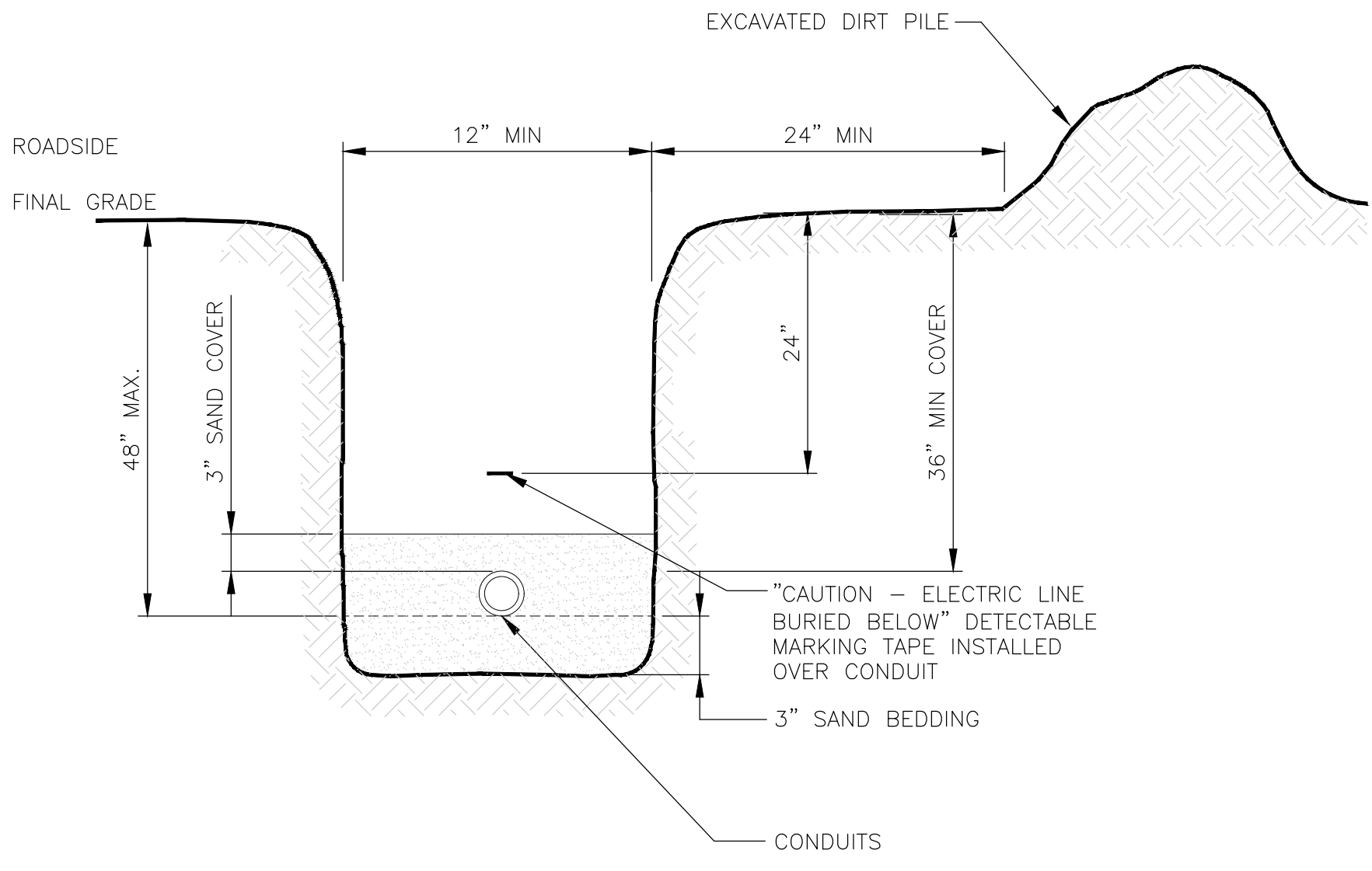
GALVANIZED STEEL FILLED WITH CONCRETE
BOLLARD DETAIL (6)
NOT TO SCALE



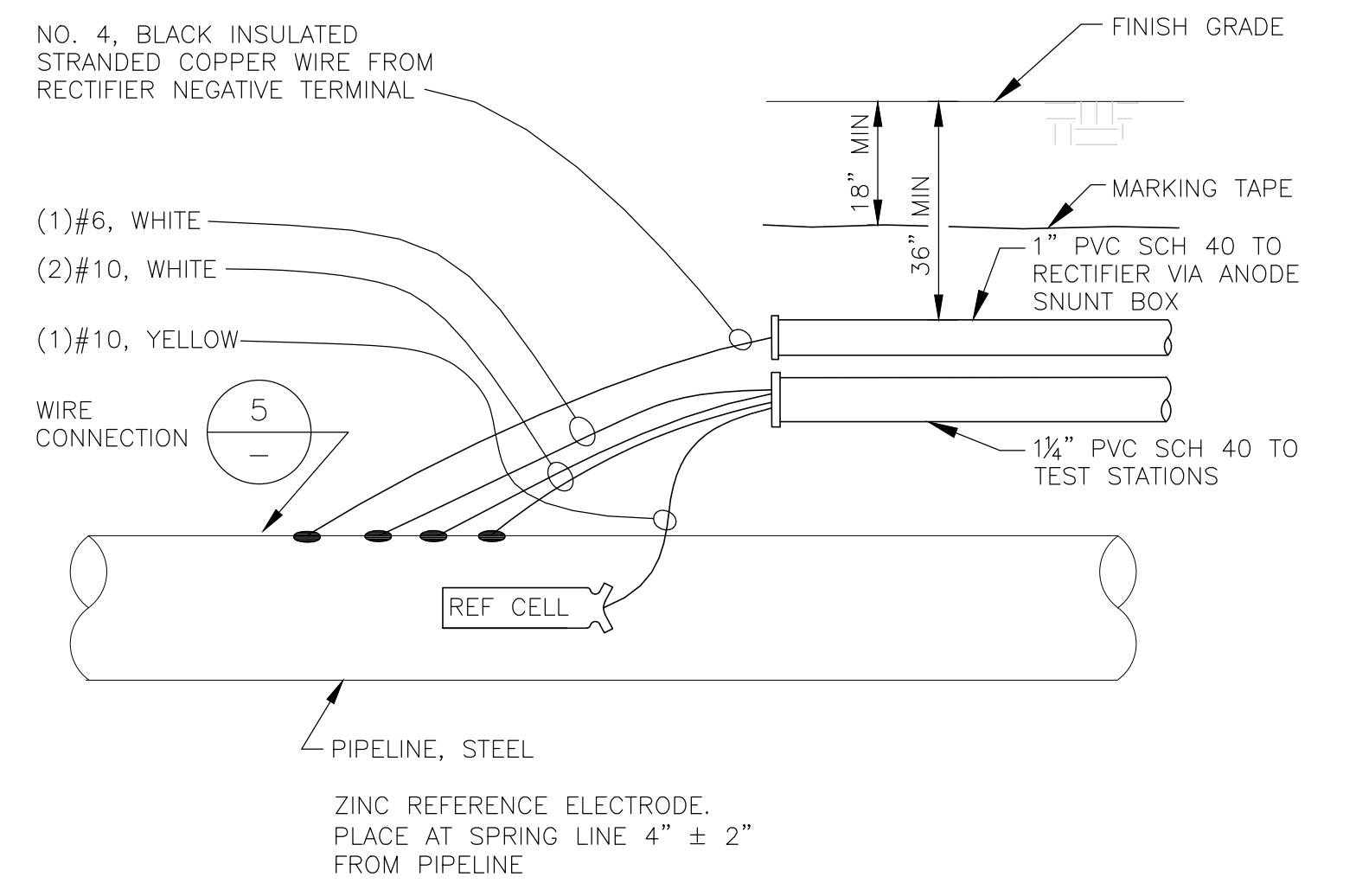
DEEP ANODE GROUND BED DETAIL (2)
NOT TO SCALE

ANODE SCHEDULE

OP STATION	# OF ANODES (N)	GROUND BED DEPTH (W)	ACTIVE DEPTH (A)	INACTIVE DEPTH (I)
128TH ST & MERIDIAN AVE	24	495'	270'	225'

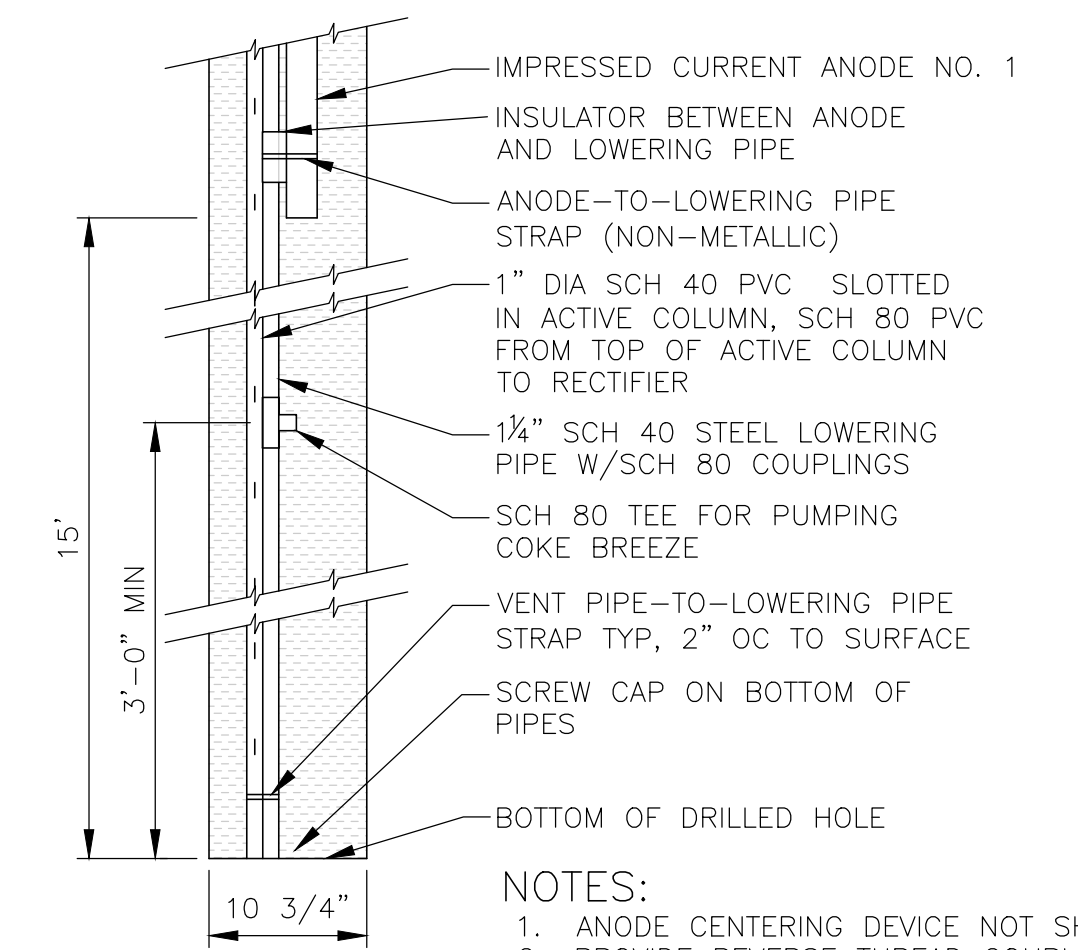


TYPICAL CONDUIT TRENCH DETAIL (7)
NOT TO SCALE



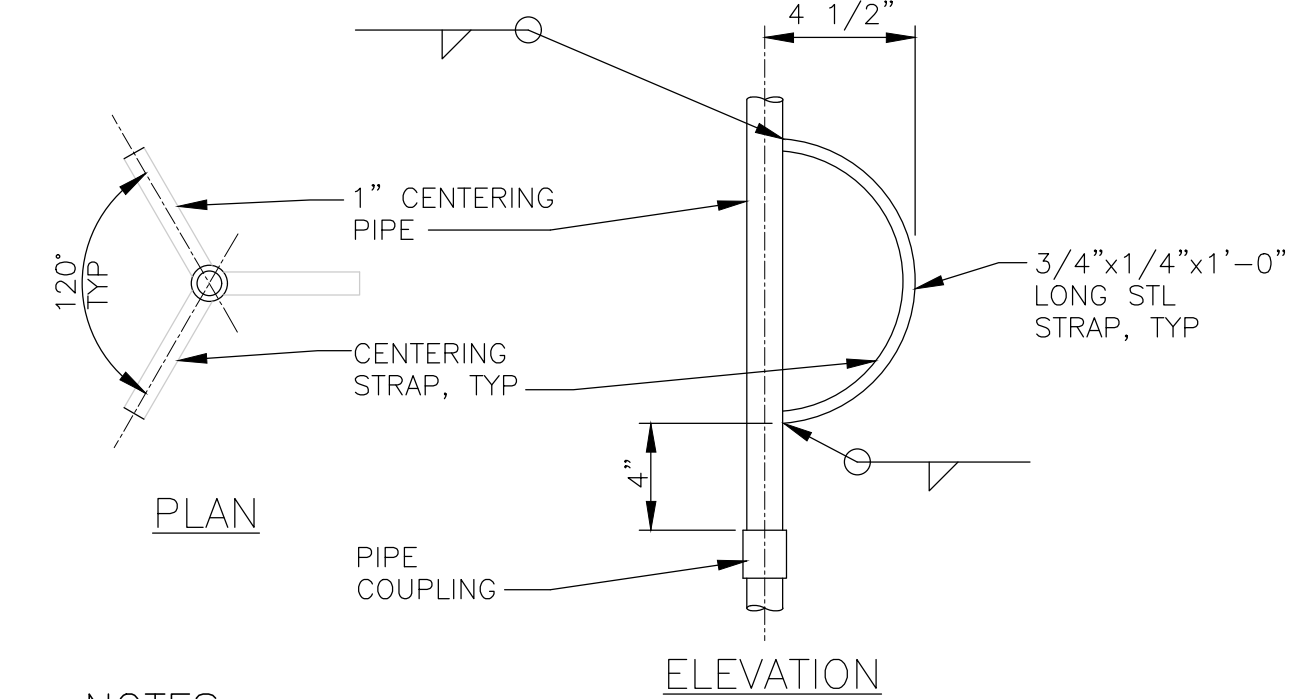
RECTIFIER NEGATIVE WIRE & TEST WIRE CONNECTIONS TO PIPES DETAIL (3)
NOT TO SCALE

- NOTES:
1. ALLOW ENOUGH SLACK IN CABLES BETWEEN CABLE CONNECTION & CONDUIT TO ALLOW 1" MIN. SIDE-TO-SIDE MOVEMENT.
 2. MAINTAIN 9" MINIMUM SEPARATION BETWEEN MULTIPLE THERMITE WELDS.
 3. LOCATE REFERENCE ELECTRODE ON SOUTH SIDE OF PIPELINE.



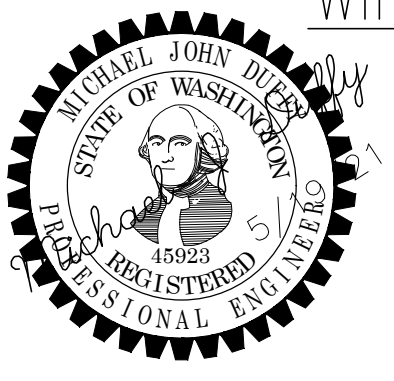
- NOTES:
1. ANODE CENTERING DEVICE NOT SHOWN.
 2. PROVIDE REVERSE THREAD COUPLING IN LOWERING PIPE AT TOP OF ACTIVE COLUMN.

STEEL LOWERING PIPE DETAIL (8)
NOT TO SCALE



- NOTES:
1. 10' MAXIMUM SPACING BETWEEN CENTERING STRAPS.
 2. ATTACH ANODES TO LOWERING PIPE BETWEEN CENTERING STRAPS.

CENTERING DEVICE (9)
NOT TO SCALE



NO.	REVISION	DATE	BY	APP'D.	REV. COMPL.
4					
3					
2					
1					

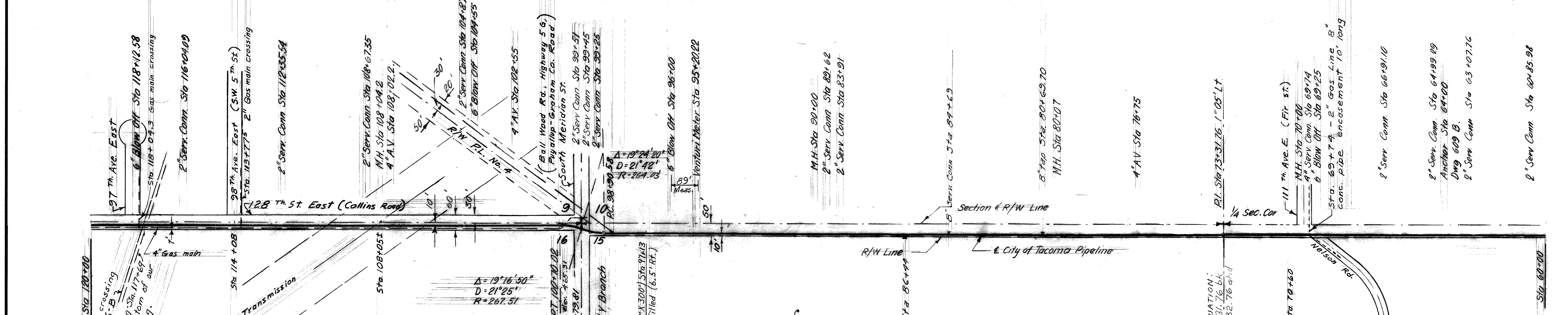
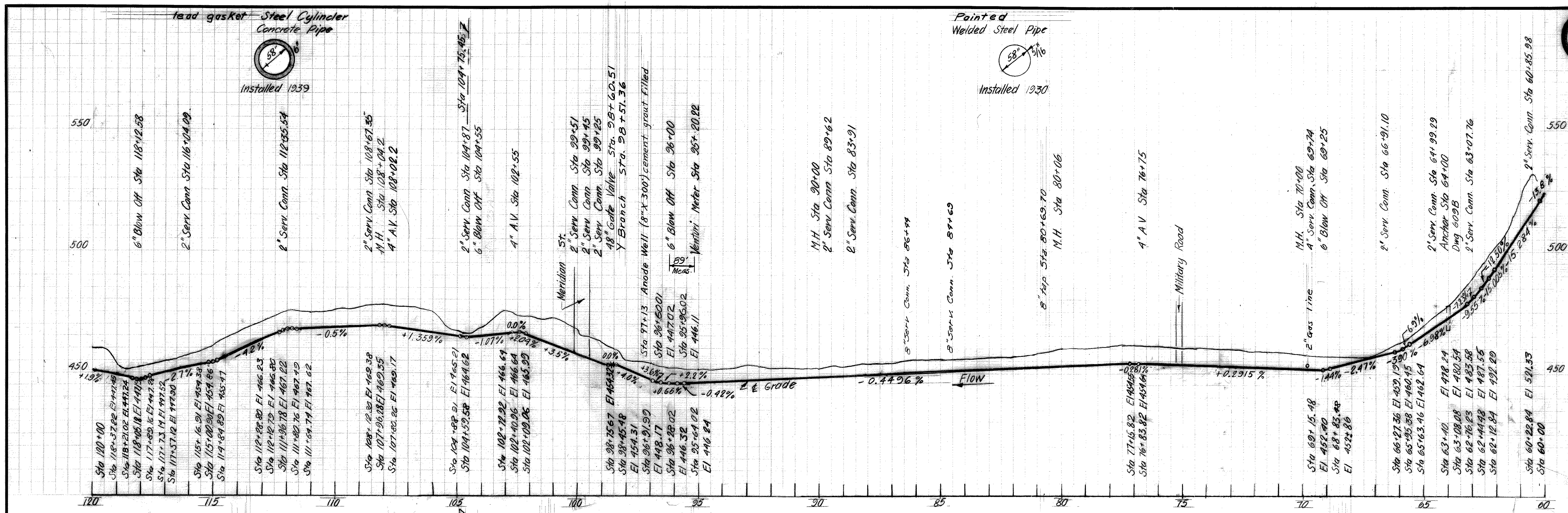
DATE	5/19/21
DESIGN	MJD
DRAWN	SRL
DIGITIZED	
CHECKED	

ACCOUNTING	20000098847
CADNET PROJECT NAME:	CP STATIONS
VAULT FILE NAME:	4-108-56 THRU 58.DWG
FIELD BOOK	
DATA FILE	

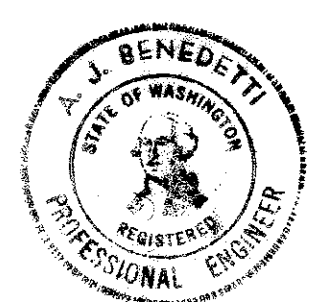
APPROVED
Shannon Wall
MANAGER

128TH STREET E & MERIDIAN AVENUE
CATHODIC PROTECTION STATION
ELEVATION AND DETAILS

SCALE	AS NOTED
DRAWING NO.	4-108-58
SHEET	3 OF 3



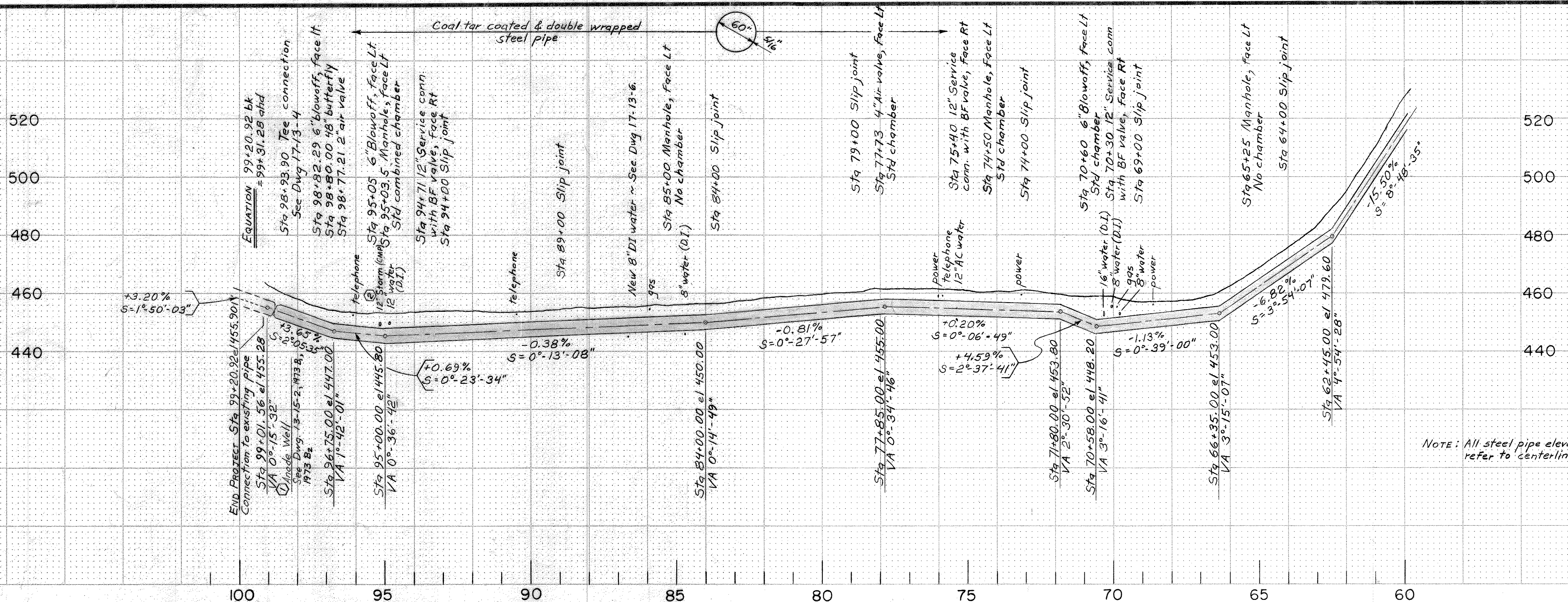
Elevations refer to City of Tacoma datum.



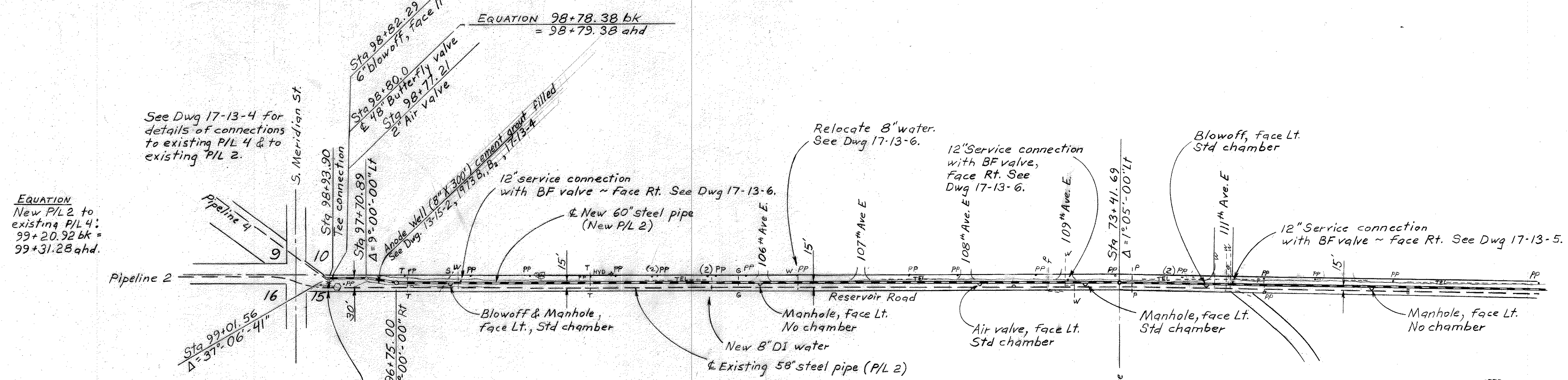
Drawing prepared after
Construction for
Record
AS BUILT

NO.	REVISION	DATE	BY	APP'D.
1-39-1	9-72-1	1973	B, E, B ₂	

CITY OF TACOMA DEPARTMENT OF PUBLIC UTILITIES WATER DIVISION	
GREEN RIVER GRAVITY PIPELINE No. 2	
PLAN & PROFILE	
STA 60+00 TO STA 120+00	
DATE: 8-12-59	SUBMITTED: <i>K. P. Olson</i>
DESIGN: J.K.	APPROVED: <i>[Signature]</i>
DRAWN: J.K.	CHECKED: J.T.H.
TRACED: J.T.H.	W.O. DIRECTOR OF UTILITIES
SCALE: Vert 1"=20' HORIZ 1"=200'	DRAWING NO. 13-15-2
SHEET OF	



NOTE: All steel pipe elevations refer to centerline.



EQUATION
New P/L 2 to
existing P/L 4:
99+20.92 b/c =
99+31.28 ahd.

See Dwg 17-13-4 for intertie
pipe and 48\"/>

STATIONING CORRELATION

New P/L 2	Old P/L 2	Conversion
50+51.48	50+41.55	9.93'
73+41.69	73+31.76	
73+41.96	73+32.76	11.20'
96+75.00	96+64.80	

②	Noted 12" CMP Storm	6/95	VMS	PML
	As-built	8/84	DNS	
①	Anode Well Noted	5/85	JDE	
NO.	REVISION	DATE	BY	APP'D

CITY OF TACOMA
DEPARTMENT OF PUBLIC UTILITIES
WATER DIVISION

PIPELINE No 2 DUPLICATION
PLAN & PROFILE

STA. 60+00 TO STA 99+20.92

DATE: Sept. 30, 1983

DESIGN: DNS

DRAWN: DNS

CHECKED: Jue

W.D.

APPROVED: *[Signature]*

BURY OF WATER DIV.

SCALE
VERT 1" = 20'
HORIZ 1" = 200'

DRAWING NO.
17-13-2

SHEET 2 OF 6

APPENDIX B
REQUIRED SUBMITTAL FORMS

Bid Proposal Form

Signature Page

Record of Prior Contracts

EIC Utilization Form

Certification of Compliance with Wage Payment Statutes

State Responsibility and Reciprocal Bid Preference Information

**2021 Cathodic Protection Installation: 128th and Meridian
Deep Well and Stray Current Mitigation
Specification: TW21-0044N**

Price Proposal

Vendor: _____

	QUANTITY	BID UNIT	UNIT COST	TOTAL COST
<u>ITEM 1</u>				
Furnish, drill, install, and test a complete cathodic protection system of deep anode groundbed, rectifier, power service with meter base, anode shunt box, test station, and associated equipment on Pipeline 2 and Pipeline 2 Duplicate including surface restoration, trenching and backfill materials.	1	LS	\$ _____	\$ _____
<u>ITEM 2</u>				
Furnish and install an Insulating dielectric membrane between Tacoma Water pipeline and Puget Sound Gas department pipeline, ref. cell, and test station including surface restoration, trenching and backfill materials	1	LS	\$ _____	\$ _____
Force Account	1	LS		<u>\$10,000.00</u>

Base Bid \$ _____

**Sales Tax at 10.3% \$ _____

(**Note paragraph 1.13 of the General Provisions)

Total Cost \$ _____

SIGNATURE PAGE

CITY OF TACOMA TACOMA WATER

All submittals must be in ink or typewritten, executed by a duly authorized officer or representative of the bidding/proposing entity, and received and time stamped as directed in the **Request for Bids page near the beginning of the specification**. If the bidder/proposer is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.

REQUEST FOR BIDS SPECIFICATION NO.TW21-0044N 2021 Cathodic Protection Installation: 128th and Meridian Deep Well and Stray Current Mitigation

The undersigned bidder/proposer hereby agrees to execute the proposed contract and furnish all materials, labor, tools, equipment and all other facilities and services in accordance with these specifications.

The bidder/proposer agrees, by submitting a bid/proposal under these specifications, that in the event any litigation should arise concerning the submission of bids/proposals or the award of contract under this specification, Request for Bids, Request for Proposals or Request for Qualifications, the venue of such action or litigation shall be in the Superior Court of the State of Washington, in and for the County of Pierce.

Non-Collusion Declaration

The undersigned bidder/proposer hereby certifies under penalty of perjury that this bid/proposal is genuine and not a sham or collusive bid/proposal, or made in the interests or on behalf of any person or entity not herein named; and that said bidder/proposer has not directly or indirectly induced or solicited any contractor or supplier on the above work to put in a sham bid/proposal or any person or entity to refrain from submitting a bid/proposal; and that said bidder/proposer has not, in any manner, sought by collusion to secure to itself an advantage over any other contractor(s) or person(s).

Bidder/Proposer's Registered Name

Signature of Person Authorized to Enter Date
into Contracts for Bidder/Proposer

Address

Printed Name and Title

City, State, Zip

(Area Code) Telephone Number / Fax Number

E-Mail Address

State Business License Number
in WA, also known as UBI (Unified Business Identifier) Number

E.I.No. / Federal Social Security Number Used on Quarterly
Federal Tax Return, U.S. Treasury Dept. Form 941

State Contractor's License Number
(See Ch. 18.27, R.C.W.)

E-Mail Address for Communications

Addendum acknowledgement #1_____ #2_____ #3_____ #4_____ #5_____

THIS PAGE MUST BE SIGNED AND RETURNED WITH SUBMITTAL.

Specification No. TW21-0044N

Name of Bidder: _____

State Responsibility and Reciprocal Bid Preference Information

Certificate of registration as a contractor
(Must be in effect at the time of bid submittal):

Number: _____

Effective Date: _____

Expiration Date: _____

Current Washington Unified Business Identifier
(UBI) Number:

Number: _____

Do you have industrial insurance (workers' compensation)
Coverage nor your employees working in Washington?

☐ Yes ☐ No
☐ Not Applicable

Washington Employment Security Department Number

Number: _____

☐ Not Applicable

Washington Department of Revenue state excise tax
Registration number:

Number: _____

☐ Not Applicable

Have you been disqualified from bidding any public
works contracts under RCW 39.06.010 or 39.12.065(3)?

☐ Yes ☐ No

If yes, provide an explanation of your
disqualification on a separate page.

Do you have a physical office located in the state of
Washington?

☐ Yes ☐ No

If incorporated, in what state were you incorporated?

State: _____ ☐ Not Incorporated

If not incorporated, in what state was your business
entity formed?

State: _____

Have you completed the training required by RCW
39.04.350, or are you on the list of exempt businesses
maintained by the Department of Labor and Industries?

☐ Yes ☐ No



City of Tacoma

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date September 15, 2021, that the bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction.

I certify under penalty of perjury under the laws of the state of Washington that the foregoing is true and correct.

Bidder

Signature of Authorized Official*

Printed Name

Title

Date

City

State

Check One:

Individual ☐

Partnership ☐

Joint Venture ☐

Corporation ☐

State of Incorporation, or if not a corporation, the state where business entity was formed:

If a co-partnership, give firm name under which business is transacted:

** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*



City of Tacoma
Community & Economic Development
Office of Equity in Contracting
747 Market Street, Rm 900
Tacoma WA 98402
253-591-5075

EQUITY IN CONTRACTING UTILIZATION FORM

This form is to document **only** the EIC contractors or material suppliers that will be awarded a contract. This information will be used in calculating the **EVALUATED BID**. Additional forms may be used if needed.

- Prime contractors are encouraged to solicit bids from EIC approved firms.
- Be sure to include this form with your bid submittal in order to receive EIC credit.
- It is the prime contractor's responsibility to check the certification status of EIC contractors prior to the submittal deadline.

Bidder's Name: _____

Address: _____ City/State/Zip: _____

Spec. No. _____ Base Bid * \$ _____ **Complete company names and phone numbers are required to verify your EIC usage.**

a. Company Name and Telephone Number	b. MBE, WBE, or SBE (Write all that apply)	c. NAICS code(s)	d. Contractor Bid Amount (100%)	e. Material Supplier Bid Amount (20%)	f. Estimated MBE Usage Dollar Amount	g. Estimated WBE Usage Dollar Amount	h. Estimated SBE Usage Dollar Amount
i. MBE Utilization %	j. WBE Utilization %	k. SBE Utilization %					

By signing and submitting this form the bidder certifies that the EIC firms listed will be used on this project including all applicable change orders.

Type or Print Name of Responsible Officer / Title

Signature of Responsible Officer

Date

INSTRUCTIONS FOR COMPLETING EIC UTILIZATION FORM

The purpose of these instructions is to assist bidders in properly completing the EIC Utilization Form.

This form when submitted with your bid provides information to the City of Tacoma to accurately review and evaluate your proposed EIC usage.

1. * Base Bid is the prime contractor's bid, plus any alternates, additives and deductive selected by the City. Also, please refer to Items #10-12 below.
2. Column "a" – List all EIC companies that you will be awarding a contract to if you are the successful bidder.
3. Column "b" – Identify if this firm is being utilized as an MBE, WBE, or SBE. (Firms may count towards multiple requirements)
4. Column "c" – List the appropriate NAICS code for the scope of work, services, or materials/supplies for each contractor.
5. Column "d" – The bid amount must be indicated for **all** listed **EIC** that you plan on doing business with. This quote is the price that you and the contractor have negotiated prior to bid opening.
6. Column "e" – The bid amount must be indicated for **all** listed **EIC** that you plan on doing business with. This quote is the price that you and the material supplier have negotiated prior to bid opening.
8. Column "f" – Estimated MBE Usage Dollar Amount: For all MBE firms used, multiply the amount in Column "d" by 1.0 plus the amount in Column "e" by 0.20. Insert the total amount in this column.
9. Column "g" – Estimated WBE Usage Dollar Amount: For all WBE firms used, multiply the amount in Column "d" by 1.0 plus the amount in Column "e" by 0.20. Insert the total amount in this column.
10. Column "h" – Estimated SBE Usage Dollar Amount: For all MBE, WBE, or SBE firms used, Multiply the amount in Column "d" by 1.0 plus the amount in Column "e" by 0.20. Insert the total amount in this column.
11. Block "i" – The percent of actual MBE utilization calculated on the Base Bid only. (Divide the sum of Estimated MBE Usage Dollar Amount (Column "f") by your Base Bid (*) then multiply by 100 to get a percentage: \$ amounts from column "f" divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)
12. Block "j" – The percent of actual WBE utilization calculated on the Base Bid only. (Divide the sum of Estimated WBE Usage Dollar Amount (Column "g") by your Base Bid (*) then multiply by 100 to get a percentage: \$ amounts from column "g" divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

13. Block "k" – The percent of actual SBE utilization calculated on the Base Bid only. (Divide the sum of Estimated SBE Usage Dollar Amount (Column "h") by your Base Bid (*) then multiply by 100 to get a percentage: \$ amounts from column "h" divided by Base Bid (*) x 100 = EIC usage as a percent of the Base Bid.)

It is the prime contractor's responsibility to check the status of EIC contractors prior to bid opening. Call the EIC Office at 253- 591-5075 for additional information.

RECORD OF PRIOR CONTRACTS

NAME ADDRESS _____

Type of Work _____ Specification No. TW21-0044N _____

Beginning Date	Completion Date	Contract With	Contact Person Phone #	Amount of Contract

Remarks: _____



Sustainability

The City has an interest in sustainable operations with minimal adverse impact on the environment. The City seeks to do business with vendors that value community and environmental stewardship that help us meet our sustainable purchasing goals.

1. Please describe how you have incorporated sustainability into your everyday business practices?

2. Please describe how you have taken measures to minimize impacts to the environment in the delivery of the proposed services?

Exhibit C

Sample Contract

Performance Bond

Payment Bond

General Release

Substitution Request Form

Certificate of Insurance Requirement

CONTRACT

Resolution No.
Contract No.

This Contract is made and entered into effective this _____ day of ,20____, ("Effective Date") by and between the City of Tacoma, a Municipal Corporation of the State of Washington ("City"), and legal name of Supplier including type of business entity ("Contractor").

That in consideration of the mutual promises and obligations hereinafter set forth the Parties hereto agree as follows:

- I. Contractor shall fully execute and diligently and completely perform all work and provide all services and deliverables described herein and in the items listed below each of which are fully incorporated herein and which collectively are referred to as "Contract Documents":

 1. Specification No. Enter Spec Number and Enter Spec Title together with all authorized addenda.
 2. Contractor's submittal (or specifically described portions thereof) dated Enter Submittal Date submitted in response to Specification No. Enter Spec Number and Enter Spec Title.
 3. Describe with specific detail and list separately any other documents that will make up the contract (fee schedule, work schedule, authorized personnel, etc.) or any other additional items mutually intended to be binding upon the parties.

Delete this highlighted sentence, paragraph II and sub-bullets #1 and #2 if there are no additional attachments to the contract (attachments would be things other than a specific, contract, or bonds).

- II. In the event of a conflict or inconsistency between the terms and conditions contained in this document entitled Contract and any terms and conditions contained the above referenced Contract Documents the following order of precedence applies with the first listed item being the most controlling and the last listed item the least controlling:
 1. Contract
 2. List remaining Contract Documents in applicable controlling order.
- III. The Contract terminates on xxxxx. {May remove if not applicable}
- IV. The total price to be paid by City for Contracts full and complete performance hereunder may not exceed:
\$ _____, plus any applicable taxes.
- V. Contractor agrees to accept as full payment hereunder the amounts specified herein and in Contract Documents, and the City agrees to make payments at the times and in the manner and upon the terms and conditions specified. Except as may be otherwise provided herein or in Contract Documents 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 constructing and completing the work and providing the services and deliverables required by this Contract.
- VI. The City's preferred method of payment is by ePayables (Payment Plus), followed by credit card (aka procurement card), then Electronic Funds Transfer (EFT) by Automated Clearing House (ACH), then check or other cash equivalent. CONTRACTOR may be required to have the capability of accepting the City's ePayables or credit card methods of payment. The City of Tacoma will not accept price changes or pay additional fees when ePayables (Payment Plus) or credit card is used. The City, in its sole discretion, will determine the method of payment for this Contract.
- VII. Failure by City to identify a deficiency in the insurance documentation provided by Contractor or failure of City to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- VIII. Contractor acknowledges, and by signing this Contract agrees, that the Indemnification provisions set forth in the controlling Contract Documents, including the Industrial Insurance immunity waiver (if applicable), are totally and fully part of this Contract and, within the context of the competitive bidding laws, have been mutually negotiated by the Parties hereto.

- IX. Contractor and for its heirs, executors, administrators, successors, and assigns, does hereby agree to the full performance of all the requirements contained herein and in Contract Documents.
- X. It is further provided that no liability shall attach to City by reason of entering into this Contract, except as expressly provided herein.

IN WITNESS WHEREOF, the Parties hereto have accepted and executed, as of the Effective Date stated above, which shall be Effective Date for bonding purposes as applicable.

CITY OF TACOMA:

CONTRACTOR:

By:

By:

(City of Tacoma use only - blank lines are intentional)

Director of Finance: _____

City Attorney (approved as to form): _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____

Approved By: _____



PAYMENT BOND TO THE CITY OF TACOMA

Resolution No.
Bond No.

That we, the undersigned,
as principal, and _____
as a surety, are jointly and severally held and firmly bound to the CITY OF TACOMA, in the penal sum of,
\$ _____, for the payment whereof Contractor and Surety bind themselves,
their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

This obligation is entered into in pursuance of the statutes of the State of Washington, the Ordinances of the City of Tacoma.

WHEREAS, under and pursuant to the City Charter and general ordinances of the City of Tacoma, the said City has or is about to enter with the above bounden principal, a contract, providing for

Specification No. _____

Specification Title: _____

Contract No. _____

(which contract is referenced to herein and is made a part hereof as though attached hereto), and

WHEREAS, the said principal has accepted, the said contract, and undertake to perform the work therein provided for in the manner and within the time set forth.

This statutory payment bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall pay all persons in accordance with RCW 39.08, 39.12, and 60.28, including all workers, laborers, mechanics, subcontractors, and materialmen, and all person who shall supply such contractor or subcontractor with provisions and supplies for the carrying on of such work, and all taxes incurred on said Contract under Titles 50 and 51 RCW and all taxes imposed on the Principal under Title 82 RCW; and if such payment obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract shall in any way affect its obligation on this bond, and waives notice of any changes, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

No suit or action shall be commenced hereunder by any claimant unless claimant shall have given the written notices to the City, and where required, the Contractor, in accordance with RCW 39.08.030.

The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of claims which may be properly filed in accordance with RCW 39.08 whether or not suit is commenced under and against this bond.

If any claimant shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgment and attorney fees as provided by RCW 39.08.030, shall also pay such costs and attorney fees as may be incurred by the City as a result of such suit. Venue for any action arising out of or in connection with this bond shall be in Pierce County, WA.

Surety companies executing bonds must be authorized to transact business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Department of the Treasury.

Resolution No.
Bond No.
Specification No.
Contract No.

One original bond shall be executed, and be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed power of attorney for the office executing on behalf of the surety.

Principal: Enter Vendor Legal Name

By: _____

Surety:

By: _____

Agent's Name: _____

Agent's Address: _____

SAMPLE



PERFORMANCE BOND TO THE CITY OF TACOMA

Resolution No.
Bond No.

That we, the undersigned, _____
as principal, and _____
as a surety, are jointly and severally held and firmly bound to the CITY OF TACOMA, in the penal sum of
\$ _____, for the payment whereof Contractor and Surety bind themselves,
their executors, administrators, legal representatives, successors and assigns, jointly and severally, firmly by these presents.

This obligation is entered into in pursuance of the statutes of the State of Washington, the Ordinances of the City of Tacoma.

WHEREAS, under and pursuant to the City Charter and general ordinances of the City of Tacoma, the said City has or is about to enter with the above bounden principal, a contract, providing for

Specification No. _____

Specification Title: _____

Contract No. _____

(which contract is referenced to herein and is made a part hereof as though attached hereto), and

WHEREAS, the said principal has accepted, the said contract, and undertake to perform the work therein provided for in the manner and within the time set forth.

This statutory performance bond shall become null and void, if and when the principal, its heirs, executors, administrators, successors, or assigns shall well and faithfully perform all of the Principal's obligations under the Contract and fulfill all terms and conditions of all duly authorized modifications, additions and changes to said Contract that may hereafter be made, at the time and in the manner therein specified; and if such performance obligations have not been fulfilled, this bond shall remain in force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increase.

If the City shall commence suit and obtain judgment against the Surety for recovery hereunder, then the Surety, in addition to such judgement, shall pay all costs and attorney's fees incurred by the City in enforcement of its rights hereunder. Venue for any action arising out of in in connection with this bond shall be in Pierce County, Washington.

Surety companies executing bonds must be authorized to transact business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Department of the Treasury.

One original bond shall be executed, and signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed power of attorney for the office executing on behalf of the surety.

Principal: Enter Vendor Legal Name

By: _____

Surety:

By: _____

Agent's Name: _____

Agent's Address: _____

GENERAL RELEASE TO THE CITY OF TACOMA

The undersigned, named as the contractor for _____
Project / Spec. #
between _____ and the City of Tacoma,
(Themselves or Itself)
dated _____, 20____, hereby releases the City of Tacoma, its
departmental officers and agents from any and all claim or claims whatsoever in any manner
whatsoever at any time whatsoever arising out of and/or in connection with and/or relating
to said contract, excepting only the equity of the undersigned in the amount now retained by
the City of Tacoma under said contract, to-wit the sum of \$_____.

Signed at Tacoma, Washington this _____ day of _____, 20_.

Contractor

By _____

Title _____

SUBSTITUTION REQUEST FORM - SAMPLE

EAST LOCOMOTIVE SERVICING FACILITY
SPECIFICATION NO.: TR21-0548F

Prospective bidders may request substitutions in writing on this form. Substitutions shall be submitted on this form via e-mail to:

Tina Eide, Senior Buyer.

E-mail address: teide@cityoftacoma.org

All e-mails must be received by **Noon on Monday, July 26, 2021**. Where changes in the project documents are required, an addendum will be issued to everyone on the plan holder's list and posted on www.tacomapurchasing.org.

Submitted By

Signature _____

Company _____

Mailing Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____ E-mail _____

☐ Please check if there are attachments

1. We hereby submit for your consideration the following product instead of the specified item for the above project:

<u>Section</u>	<u>Page</u>	<u>Line/Paragraph</u>	<u>Specified Item</u>
_____	_____	_____	_____

2. Proposed Substitution. _____

3. Reason for Substitution. _____

4. Attach complete technical data, catalog cuts, drawings, samples, etc. Exact models and description of products shall be noted with any deviation noted.

5. Include complete information on changes to Drawings, and/or Specifications which proposed substitution will require for its proper installation. _____

6. Does the substitute affect dimensions shown on Drawings? _____

6a. If so, how? _____

7. Describe the effect substitution has on other trades. _____

8. Describe differences between proposed substitution and specified item. _____

9. Manufacturer's warranties of the proposed and specified items are: ☐ Same ☐ Different (explain on attachment)

The undersigned states that the function, appearance and quality are equivalent or superior to the specified item. The undersigned agrees to pay for changes to the building and systems design, including engineering and detailing costs caused by the requested substitution.

SUBSTITUTION REQUEST FORM - SAMPLE

EAST LOCOMOTIVE SERVICING FACILITY
SPECIFICATION NO.: TR21-0548F

For Reviewer

☐ Approved for Bidding subject to review and approval of Submittals (and as noted below) ☐ Rejected - Inadequate Information

☐ Not Accepted ☐ Received Too Late

By _____ Date _____

Remarks



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

The Contractor (Contractor) shall maintain at least the minimum insurance set forth below. By requiring such minimum insurance, the City of Tacoma shall not be deemed or construed to have assessed the risk that may be applicable to Contractor under this Contract. Contractor shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage.

1. GENERAL REQUIREMENTS

The following General Requirements apply to Contractor and to Subcontractor(s) of every tier performing services and/or activities pursuant to the terms of this Contract. Contractor acknowledges and agrees to the following insurance requirements applicable to Contractor and Contractor's Subcontractor(s):

- 1.1. City of Tacoma reserves the right to approve or reject the insurance provided based upon the insurer, terms and coverage, the Certificate of Insurance, and/or endorsements.
- 1.2. Contractor shall not begin work under the Contract until the required insurance has been obtained and approved by City of Tacoma.
- 1.3. Contractor shall keep this insurance in force during the entire term of the Contract and for Thirty (30) calendar days after completion of all work required by the Contract, unless otherwise provided herein.
- 1.4. Insurance policies required under this Contract that name "City of Tacoma" as Additional Insured shall:
 - 1.4.1. Be considered primary and non-contributory for all claims.
 - 1.4.2. Contain a "Separation of Insured provision and a "Waiver of Subrogation" clause in favor of City of Tacoma.
- 1.5. Section 1.4 above does not apply to contracts for purchasing supplies only.
- 1.6. Verification of coverage shall include:
 - 1.6.1. An ACORD certificate or equivalent.
 - 1.6.2. Copies of all endorsements naming the City of Tacoma as additional insured and showing the policy number.
 - 1.6.3. A notation of coverage enhancements on the Certificate of Insurance shall not satisfy these requirements – actual endorsements must be submitted.
- 1.7. Liability insurance policies, with the exception of Professional Liability and Workers' Compensation, shall name the City of Tacoma and its officers, elected officials, employees, agents, and authorized volunteers as additional insured.
 - 1.7.1. No specific person or department should be identified as the additional insured.
 - 1.7.2. All references on certificates of insurance and endorsements shall be listed as "City of Tacoma".
 - 1.7.3. The City of Tacoma shall be additional insured for both ongoing and completed operations using Insurance Services Office (ISO) form CG 20 10 04 13 and CG 20



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

37 04 13 or the equivalent for the full available limits of liability maintained by the Contractor 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 describes limits lower than those maintained by the Contractor.

- 1.8. Contractor shall provide a Certificate of Insurance for each policy of insurance meeting the requirements set forth herein when Contractor provides the signed Contract for the work to City of Tacoma. Contractor shall provide copies of any applicable Additional Insured, Waiver of Subrogation, and Primary and Non-contributory endorsements. Contract or Permit number and the City Department must be shown on the Certificate of Insurance.
- 1.9. Insurance limits shown below may be written with an excess policy that follows the form of an underlying primary liability policy or an excess policy providing the required limit.
- 1.10. Liability insurance policies shall be written on an "occurrence" form, except for Professional Liability/Errors and Omissions, Pollution Liability, and Cyber/Privacy and Security
- 1.11. If coverage is approved and purchased on a "Claims-Made" basis, Contractor warrants continuation of coverage, either through policy renewals or by the purchase of an extended reporting period endorsement as set forth below.
- 1.12. The insurance must be written by companies licensed or authorized in the State of Washington pursuant to RCW 48 with an (A-) VII or higher in the A.M. Best's Key Rating Guide www.ambest.com.
- 1.13. Contractor shall provide City of Tacoma notice of any cancellation or non-renewal of this required insurance within Thirty (30) calendar days.
- 1.14. Contractor shall not allow any insurance to be cancelled or lapse during any term of this Contract, otherwise it shall constitute a material breach of the Contract, upon which City of Tacoma may, after giving Five (5) business day notice to 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 City of Tacoma by Contractor upon demand, or at the sole discretion of City of Tacoma, offset against funds due Contractor from City of Tacoma.
- 1.15. Contractor shall be responsible for the payment of all premiums, deductibles and self-insured retentions, and shall indemnify and hold the City of Tacoma harmless to the extent such a deductible or self-insured retained limit may apply to the City of Tacoma as an additional insured. Any deductible or self-insured retained limits in excess of Twenty Five Thousand Dollars (\$25,000) must be disclosed and approved by City of Tacoma Risk Manager and shown on the Certificate of Insurance.
- 1.16. City of Tacoma reserves the right to review insurance requirements during any term of the Contract and to require that Contractor make reasonable adjustments when the scope of services has changed.



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

- 1.17. 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 by City of Tacoma to Contractor.
- 1.18. Insurance coverages specified in this Contract are not intended and will not be interpreted to limit the responsibility or liability of Contractor or Subcontractor(s).
- 1.19. Failure by City of Tacoma to identify a deficiency in the insurance documentation provided by Contractor or failure of City of Tacoma to demand verification of coverage or compliance by Contractor with these insurance requirements shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- 1.20. If Contractor is a State of Washington or local government and is self-insured for any of the above insurance requirements, a certification of self-insurance shall be attached hereto and be incorporated by reference and shall constitute compliance with this Section.

2. CONTRACTOR

As used herein, "Contractor" shall be the Supplier(s) entering a Contract with City of Tacoma, whether designated as a Supplier, Contractor, Vendor, Proposer, Bidder, Respondent, Seller, Merchant, Service Provider, or otherwise.

3. SUBCONTRACTORS

It is Contractor's responsibility to ensure that each subcontractor obtain and maintain adequate liability insurance coverage. Contractor shall provide evidence of such insurance upon City of Tacoma's request.

4. REQUIRED INSURANCE AND LIMITS

The insurance policies shall provide the minimum coverages and limits set forth below. Providing coverage in these stated minimum limits shall not be construed to relieve Contractor from liability in excess of such limits.

4.1 Commercial General Liability Insurance

Contractor shall maintain Commercial General Liability Insurance policy with limits not less than One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) annual aggregate. The Commercial General Liability Insurance policy shall be written on an Insurance Services Office form CG 00 01 04 13 or its equivalent. Products and Completed Operations shall be maintained for a period of three years following Substantial Completion of the Work related to performing construction services.

This policy shall include product liability especially when a Contract solely is for purchasing supplies. The Commercial General Liability policy shall be endorsed to include:

- 4.1.1 A per project aggregate policy limit, using ISO form CG 25 03 05 09 or an equivalent endorsement.

4.2 Commercial (Business) Automobile Liability Insurance

Contractor shall maintain Commercial Automobile Liability policy with limits not less than One Million Dollars (\$1,000,000) each accident for bodily injury and property damage and bodily injury and property damage coverage for owned (if any), non-owned, hired, or leased vehicles.



CITY OF TACOMA

INSURANCE REQUIREMENTS FOR CONTRACTS

Commercial Automobile Liability Insurance shall be written using ISO form CA 00 01 or equivalent. Contractor must also maintain an MCS 90 endorsement or equivalent and a CA 99 48 endorsement or equivalent if "Pollutants" are to be transported.

4.3 Workers' Compensation

4.3.1 Contractor shall comply with Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington, as well as any other similar coverage required for this work by applicable federal laws of other states. The Contractor must comply with their domicile State Industrial Insurance laws if it is outside the State of Washington.

4.4 Employers' Liability Insurance

Contractor shall maintain Employers' Liability coverage with limits not less than One Million Dollars (\$1,000,000) each employee, One Million Dollars (\$1,000,000) each accident, and One Million Dollars (\$1,000,000) policy limit.

4.5 Pollution Liability Insurance

Contractor shall maintain a Pollution Liability or Environmental Liability Insurance providing coverage, including investigation and defense costs, for bodily injury and property damage, including loss of use of damaged property or of property that has been physically damaged or destroyed.

Such coverage shall provide both on-site and off-site cleanup costs and cover gradual and sudden pollution, and include in its scope of coverage the City of Tacoma damage claims for loss arising out of Contractor's work with limits not less than One Million Dollars (\$1,000,000) each occurrence and Two Million Dollars (\$2,000,000) aggregate.

This policy shall include Environmental Resource Damage coverage and Hazardous Substance Removal. If such coverage is provided on a "claims-made" basis, the following additional conditions must be met:

4.5.1 The policy must contain no retroactive date, or the retroactive date must precede the commencement date of this Contract.

4.5.2 The extended reporting period (tail) must be purchased to cover a minimum of Six (6) years beyond completion of work.

4.6 Installation Floater Insurance

Contractor shall maintain during the term of the Contract, at its own expense, Installation Floater Insurance covering Contractor's labor, materials, and equipment to be used for completion of the work performed under this Contract against all risks of direct physical loss, excluding earthquake and flood, for an amount equal to the full amount of the Contract improvements.

4.7 Other Insurance

Other insurance may be deemed appropriate to cover risks and exposures related to the scope of work or changes to the scope of work required by City of Tacoma. The costs of such necessary and appropriate Insurance coverage shall be borne by Contractor.