

CITY OF BLAINE

REQUEST FOR BIDS

NOTICE IS HEREBY GIVEN that the City of Blaine is seeking a bid for the purchase of following material for Circuit 17 Project:

Bid Package #1 (21PW01A) – Electrical Vaults – Circuit 17

Bid packages can be obtained, at no cost, on the City’s website ([News Flash • Blaine • CivicEngage](#)) or by emailing Manroop Kaur at mkaur@cityofblaine.com . All bids must be delivered to Blaine Public Works, 1200 Yew Avenue, Blaine, WA 98230, no later than **10:00am PST, September 18, 2023**. The City reserves the right to reject any or all bids, waive technicalities or irregularities, and accept any submittals if such action is determined to be in the best interest of Blaine.

The City of Blaine in accordance with Title VI of the Civil Rights Act, 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 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.

Manroop Kaur
Public Works Project Manager
Published: August 21, 2023

INSTRUCTIONS TO BIDDERS

1. Bidders are required to reply to all items in the specifications. Attach any information necessary to explain or clarify your bid.
2. Equipment must conform to all legal requirements of Federal, State, and Local vehicle laws and regulations and as included in the specifications.
3. Prices/quotes shall be in U.S. funds and include applicable taxes.
4. Unsuccessful bidders will not be automatically notified, but results can be obtained on request.
5. Determination of product acceptability is at the sole discretion of the City and City staff.
6. The vendor shall hold and save the City, its officers, agents, and employees, harmless from liability of any nature or kind, including costs and expenses for, or on account of any or all suits or damages of any character whatsoever resulting from injuries or damages sustained by any person or persons or property by virtue of performance of this contract, unless such suits or damages arise from negligence on the part of the City or its employees in the performance of their assigned duties. The City shall not be liable for any costs incurred by the bidder in bid preparation.
7. Bidder may withdraw its proposal at any time prior to the scheduled closing but must do so in writing.
8. Equipment delivery shall be made to:

ATTENTION: James Mitzelfeldt
City of Blaine Public Works
1200 Yew Avenue
Blaine, WA 98230

9. Billing of invoices shall be sent to:

ATTENTION: Karla Flaming
City of Blaine
435 Martin Street, Suite 3000
Blaine, WA 98230

BID OPENING

All bids must be submitted to:

ATTENTION: Manroop Kaur
City of Blaine
1200 Yew Avenue
Blaine, WA 98230

no later than 10:am PST, September 18, 2023 by mail or in person in an envelope clearly marked on the outside **“Sealed Bid – Electrical Vault – Circuit 17”**.

1. Bids will not be accepted if received at the City of Blaine later than the date and time set for opening. It is the bidder’s responsibility to deliver the bid to the proper address by the assigned time. The City of Blaine accepts no responsibility for misdirected or lost bids prior to the bid opening.
2. The City of Blaine reserves the right to reject any and all bids, to waive minor deviations from the specifications, or to waive any informality in bids received, whenever such rejection or waiver is in the best interests of the City.
3. Award will be based on the responsiveness and responsibility of the contractor, conformance with specified requirements, considering quality, workmanship, product availability, age and condition of vehicle, and price.
4. Bidders are cautioned that neither preliminary bid results nor an indication of the apparent lowest bid compel the City to make an award.
5. The City of Blaine reserves the right to reject any or all bids at any time without penalty.

MULTIPLE BIDS

Vendors interested in submitting more than one bid may do so, providing each bid stands alone and independently complies with the instructions, conditions and specifications of this Invitation to Bid.

SINGLE RESPONSE

A single bid submitted in response to this Invitation to Bid may be deemed a failure of competition and in the best interest of the City of Blaine, the Bid may be rejected.

BIDDING ERRORS

The City of Blaine will not be liable for any errors in any vendor’s bid. Vendor will not be allowed to alter the bids after the deadline for submission of bids.

After opening and reading bids, the City of Blaine will check them for correctness of extensions of the prices and per unit and the total price. If a discrepancy exists between the price per unit and the extended amount of any bid item the price per unit will control. The total of extensions, corrected where necessary, will be used by the City of Blaine.

TAXES AND FEDERAL EXCISE TAX

Washington State Sales tax shall be shown as a separate line on the bid submittal sheet. No charge by the bidder shall be made for federal excise taxes. The City of Blaine is exempt from federal excise tax and such taxes shall not be included in bid prices. The City of Blaine agrees to furnish bidder, upon acceptance of articles supplied under this order, with an exemption certificate, if necessary.

BUSINESS LICENSE

The awarded vendors are responsible to become complaint with Blaine business license requirements per BMC 05.10.

ADDENDUM

Any addenda or the updates related to the Bid Request will be posted on City on Blaine's Website under the same link from where the specifications are downloaded. It is vendor's responsibility to check the website continuously for any addenda.

QUESTIONS

All questions regarding this Invitation to Bid, proposal form and bid submission may be directed to Manroop Kaur via email at mkaur@cityofblaine.com.

All questions regarding the material specifications can be directed to Gary Braaksma via email at gary@braaksma-engineering.com. Please make sure to cc James Mitzelfeldt (JMitzelfeldt@cityofblaine.com) and Mike Schrader (MSchrader@cityofblaine.com) in the conversations.

The deadline to ask questions is September 08, 2023 till 5:00pm.

PRICE NEEDS TO BE VALID UNTIL October 30, 2023

BID SCHEDULE

FOR: AS OUTLINED IN THE ATTACHED SPECIFICATIONS

TOTAL LUMP SUM....._____

FREIGHT_____

WASHINGTON STATE SALES TAX (8.8%)....._____

TOTAL BID....._____

EXPECTED DELIVERY DATE:

SUPPLIER:

Company Name

Address

Telephone Number

Signature

Title

Submit bid to:

**City of Blaine
Public Works
Attn: Manroop Kaur
1200 Yew Avenue
Blaine, WA 98230**

MARK OUTSIDE OF ENVELOPE "Sealed Bid – Electrical Vault - Circuit 17".

Note: Bidders are encouraged to attach detailed cost breakdown sheet in addition to the proposal form.

NON-COLLUSION AFFIDAVIT

STATE OF WASHINGTON)

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NON-COLLUSION AFFIDAVIT

COUNTY OF WHATCOM)

_____ (name of representative) being first duly sworn, on his/her oath certifies that the bid above submitted is a genuine and not a sham or collusive bid, or made in the interest or on the behalf of any person not therein named; and he/she further says that the said bidder has not directly or indirectly induced or solicited any bidder on the above work or supplies to put in a sham bid, or any other person or corporation to refrain from bidding; and that said bidder has not in any manner sought by collusion to secure to _____ (name of the company) an advantage over any other bidder or bidders.

Subscribed and sworn to before me this ____ day of _____ 2023.

Notary Public in and for the State of

_____,
residing at _____.

City of Blaine
Blaine WA

Materials list
Circuit 17 Upgrade Project

July 19, 2023
By: G.I.B.
Braaksma Engineering
PH: 360-734-7416

ITEM NO.	DESCRIPTION	QTY	UNIT
REFER TO SPECIFICATION FOR MATERIAL REQUIREMENTS			
Vaults			
1	600A pulling vault 5106LA w cover 3-332P	7	EA
2	Switch vault and lid (8 x 10 x 7) with block outs for switch	1	EA
3	Switch vault and lid (8 x 10 x 7)with block outs for switch closed, to be used as pull vault, future switch vault	1	EA
4	200A J-bar vault with lid (575LA, with lid)	4	EA
5	Mini Pad 1ph TX vault	1	EA
6	200A vault (575LA) (SIDEWALK LID AND RISER)	1	EA



BRAAKSMA ENGINEERING
electrical engineering

Blaine Circuit 17 Upgrade
Blaine, WA

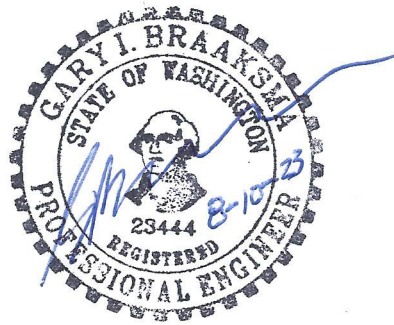
Electrical Vault Specification

August 2023



ELECTRICAL VAULT SPECIFICATION

Certification



I hereby certify that these documents were prepared by me or under my direct supervision and that I am a duly licensed engineer under the laws of the State of Washington.

*** END OF SECTION***



ELECTRICAL VAULT SPECIFICATION

PART I GENERAL

Portions of this specification referring to installation requirements are offered only to put the Materials descriptions within context and are offered as informational only. This specification is for Material procurement only.

1.1 RELATED REQUIREMENTS SPECIFIED IN OTHER SECTIONS

The General, Supplementary and Modifications to the General Conditions of the Owner-Contractor Agreement, and applicable portions of the other Divisions of the specification, apply to the work specified in this section.

1.2 EXISTING CONDITIONS

Before submitting bid, the Supplier shall be familiar with site conditions and system requirements to determine any effect on manufacture and supply of the vaults, and include costs in bid.

By submitting a bid the Supplier is acknowledging that they have sufficiently understood the scope of construction work required and have included in bid, whether specified or not, the supply of items required serve the intended installation operational systems.

1.3 SCOPE OF WORK

A. Work Included:

- a. The supplier shall furnish and deliver to City of Blaine yard the items generally described as follows:
 1. Switch vaults, 600A splice vaults, 200A j-bus vaults, mini-pad transformer vault.
- b. Offloading assistance may be rendered by the City of Blaine with equipment capable of lifting 10,000lbs. All necessary rigging or slings shall be provided by the supplier.

1.4 QUALITY ASSURANCE

A. Codes:

The completed installation shall comply with all laws, regulations and requirements in effect at the site and shall comply with the current editions of the following:

NESC - National Electrical Safety Code.

OSHA - Occupational Safety and Health Act.

Washington State Rules and Regulations for Installation Electrical Wires and Equipment.

WAC - Washington Administrative Code and Bellingham Electric Code.

Washington State Energy Code.

UFC - Uniform Fire Code.

UBC - Uniform Building Code.



ELECTRICAL VAULT SPECIFICATION

B. Standards:

The following standards establish the minimum requirements for the equipment and installation:

ANSI - American National Standards Institute.

ICEA - Insulated Cable Engineers Association.

IEEE - Institute of Electrical and Electronics Engineers.

NEMA - National Electrical Manufacturers Association.

NFPA - National Fire Protection Association.

C. Guarantee:

The Supplier shall guarantee materials for a period of one year from date of final acceptance of installation. Note that this time period may exceed one year from delivery of materials.

Any Materials that are not in the opinion of the Owner as they should be, shall be replaced without cost to the Owner.

D. Submittals

Shop drawings and product data shall be provided with sufficient detail, including application, so compliance with the drawings and specifications can be verified before purchasing. Items not in accordance with the drawings and specifications will be rejected.

Engineer's review of submittal is for general compliance with the project requirements. Any comments and suggested revisions made by Engineer do not relieve the supplier of responsibility to furnish material or equipment meeting all service and dimensional conditions of the project, and compatibility with other equipment or hardware.

Forward all submittals to the Owner or Representative, together, at one time. Individual or incomplete submittals are not acceptable. No substitutions will be permitted without 7 day prior approval.

Shop drawings or product data shall be submitted to the Owner or Representative, for the following:

- a. Vaults and lids.

PART 2 MATERIALS

2.1 VAULTS (GENERAL)

- A. Vaults (for transformers, switches, junction bars etc.) shall be precast reinforced concrete, with internal hot dip galvanized steel channels in walls, self-grounding ufer ground with accessible lugs. Lids shall be precast with (where indicated) access doors including spring assist, hot dip galvanized diamond plate bolt down cover secured with "Pentahead" bolt.
- B. Supplier to verify vault size and configuration is compatible with intended usage.
- C. Application information for reference:
 - a. Vaults (larger than mini-pad) shall include supports for 360 degree circle of cable (minimum) on each phase, supported on 14" hot dip galvanized brackets



ELECTRICAL VAULT SPECIFICATION

- attached to hot dip galvanized vertical channels bolted to vault steel channels. Vertical channels shall be Maclean J5126-30 and support brackets shall be Maclean J5134A, secured with 1/2"- 13 Spring Nuts for 13/16" or 1" channels.
- b. Cables shall be marshalled in a workmanlike manner, entering the vault at opposite corners and rotating in the same direction for all entries, lashed to support brackets with one tie per cable. Cable ties shall be heavy duty, UV resistant nylon, -40 to +185 degree F working temperature, 250 lb tensile strength.
 - c. Switch vaults and 600A splice vaults shall be equipped with 2/0 bare copper (#2 bare copper for 200A vaults) Asbury loop ground conductor tying in to J-Bus ground lugs (two connections each), or switch grounding pad (two connections) and connecting to vault ufer ground threaded insert (two locations minimum) using bolted clamps with studs, Hubbel Fargo GC-208. Ground loop shall be further supported on vault cast in channels using bolted clamps with studs, Hubbel Fargo GC-208 and 1/2"- 13 Spring Nuts for 13/16" or 1" channels. Ground Loop shall provide location for cable neutrals to be connected utilizing copper C compression fittings IlSCO 2/0-2/0 ULT-9-2 (IlSCO #2-#2 in 200A vaults).
 - d. Three Phase J-Bus Vaults shall include three 4-position loadbreak junction buss, with two receptacles for insulated parking bushings, one on each end. The J-Buses shall be centered on long side opposite the roadway oriented to provide clear working access to the bus with hot stick tools. J-bus shall include 2 welded ground lugs and include tilt-able mounting brackets. J-Bus part number EATON LJ215C4B or approved equal.
 - e. Conduit entry to vaults shall be in lower corners to allow cable entering and exiting the vault to be marshaled around the perimeter of the vault, in parallel direction in fashion to permit switching of cables, without crossing other runs. Cables shall loop inside vault a minimum of 360 degrees before terminating or exiting vault. Conduit entry to vaults shall include bell end and be grouted.
 - f. Vaults shall be rated for traffic loading and will be located in roadway shoulders. Vaults shall be located outside of driven roadways, and not within ditch lines. Area around vault shall slope gently away from the vault to prevent runoff into the vault, and to not present a driving or mowing hazard.

2.2 TRANSFORMER PRECAST MINI-PAD VAULTS

- A. Transformer Vaults shall be precast reinforced concrete, with opening for Mini-Pad transformer, with internal double hot dip galvanized steel channels to align incoming conduit, and self grounding ufer ground with accessible lug.
- B. Transformer Vaults for 25-75kVA transformers shall be 36" x 42" at top, 38" deep vault Old Castle (or equal) No 3642 PTV with optional double galvanized channels.

2.3 PAD MOUNTED SWITCH VAULT 600A

- A. Pad Mounted Switch Vault shall be shall be 8' x 10' x 7' deep precast with precast lid with two 36" spring assisted hot dip galvanized diamond plate hatches, secured with pentabolt



ELECTRICAL VAULT SPECIFICATION

latch. Vault shall include internal ufer ground accessible with two (minimum) threaded lugs. Oldcastle 810-LA with XX-2-332P Lid, or equal.

- B. Lid for future switch vault (located at Pipeline Road and Pond Walkway) shall include access hatches and removable panels where future switch may be installed matching dimensions of above.
- C. Supplier to verify vault lid blockout compatible with final Pad Mounted Switch terminal cabinet configuration and dimensions (Eaton VFI with ground switch and 600A terminals with reducing bushings, dimensions will be available from City of Blaine) prior to manufacturing.

2.4 200A THREE PHASE J-BAR VAULTS

- A. Three Phase 200A J-Bus Vaults shall be 4'8" x 7', 4' deep precast reinforced concrete, with precast lid including two spring assist locking steel covers, with internal hot dip galvanized steel C channel 6' long. Vault shall include internal Ufer Ground accessible with two threaded lugs. Access doors shall be spring loaded, hot dip galvanized diamond plate bolt down cover secured with "Pentahead" bolt, Old Castle No 575-BL with 57TL-2-332P cover, or equal.

2.5 600A THREE PHASE J-BUS VAULTS AND SPLICE VAULTS

- A. Three Phase 600A Vaults shall be 5'8" x 11'6", 7'2" deep precast reinforced concrete, with precast lid including three spring assist locking steel covers, with internal hot dip galvanized steel C channel. Vault shall include internal Ufer Ground accessible with two threaded lugs. Access doors shall be spring loaded, hot dip galvanized diamond plate bolt down cover secured with "Pentahead" bolt, Old Castle No 5106LA-BL with 5106-TL3-332P cover, or equal.

PART 3 INSTALLATION

3.1 CONSTRUCTION METHODS

- A. Coordination: The supplier shall coordinate the vault delivery with Contractor and City of Blaine.

3.2 STORING

- A. Vaults shall be stored in open area of City of Blaine yard, neatly and out of the way off the ground. Supplier shall include blocks and dunnage as required.

3.3 EXCAVATION AND BACKFILLING

- A. Pre-Cast vaults shall be installed on 12" compacted structural fill, adjusted to achieve 2" rise above adjoining finished surface. Vault bedding material shall consist of a minimum of 3 to 6 inches compacted sand or gravel, graded level. Backfill shall be compactable material without large rocks, chunks or sticks. Backfill shall be progressively compacted from the bottom to the top surface without voids.