



Purchasing Division
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Addendum 2
Solicitation 20-99265
DWP Rock Fall Mitigation

This addendum serves to notify all bidders of the following changes to the solicitation documents:

Reminder: Although documents are available on the City Purchasing website, bidders are responsible for ensuring they have reviewed and understand all information provided within the BidExpress solicitation, regardless of whether submitting a paper or electronic bid.

Questions asked and answers provided are listed below:

1. Are there any other licenses, permits, or contractor type registration that is required (other than the Contractors Registration with DLI) in order to submit a bid for this project? *The City will require an Erosion Control Permit for this project.*
2. Is this a low-bid award or will it be weighted between experience, schedule and price? If weighted, what will that evaluation look like? Per Sec 41.23(e) of the Duluth City Code, contracts shall be awarded to the lowest responsible bidder after. Therefore, upon review and acceptance of the required documentation in Bid Worksheet A, including crew experience, company experience, safety record, schedule, and reasonable rate of work execution, the low bid will be selected. For more information, please see paragraph 7, "Bidder Qualifications," of the General Bid Specifications.
3. Will alternate anchoring methods be allowed (i.e., resin or grout in lieu of mechanical anchors)? *Yes, with prior approval by the engineer. Provide the base bid with the included plan materials as identified on sheets C-21 through C-24 as items 2.5.6, 2.5.7, and 2.5.8 in the Bid Form. A bid alternate may be provided that meets the intended purpose, strength, durability, and quality of the items described in sheets C-21 through C-24 and the alternate bid item cost may be included in items 2.5.6a, 2.5.7a, and 2.5.8a of the Bid Form. A submission of the materials and execution plan for installation of these bid alternate materials must be included with the bid. Wire mesh material that is lightly used and without deformities will be accepted as an alternate as long as it meets the required specifications. Epoxy coated bar, as well as resin grout will be accepted as long as they meet the strength and durability requirements as defined in the drawings.*
4. Are there any access or equipment restrictions? *Mechanical scaling will not be allowed.*

All equipment must access the project from the Clyde Connector Trail.

5. Is an IRATA rope access certification acceptable in lieu of SPRAT? *Yes. An IRATA Level 2 Rope Access Technician certification, or greater, will be allowed.*
6. In regards to the scaling crew bid rate; is the working rate intended to be a blended rate of straight/overtime rate based on our proposed schedule and/or crew size or just the base hourly rate of the defined crew size? *The crew bid rate is to conform to the hours indicated in items 2.5.2 as a three-person 0 to 8 hour rate, item 2.5.3 for each additional or reduced scaler for 0 to 8 hours per day, and item 2.5.4 for each scaler over 8 hours, but less than 12 hours per day.*
7. If actual quantities of bid items change significantly is there an option to reprice those items? *The quantities listed are relatively low quantities. It is possible that quantities less than advertised will be required. Unit pricing of quantity will not be allowed to escalate based on actual quantity after bid submission.*
8. The indicated sequence of work appears to be all the scaling followed by the bolting. Will it be possible to complete each site before moving on to the next one? *The intention is to direct bolting as quickly as reasonable upon completion of scaling. In larger areas, scaling may be performed while bolting is accomplished in other safe, previously scaled and prepared areas*
9. The bid instructions state that a PLA will be required and is included. This document is not a part of the "Bid Package Complete" document on the City's website. *Contract forms to be executed after award (declaration/affidavit of non-collusion, community benefits forms, project labor agreement, payment & performance bonds, and construction contract) can be found at <https://www.duluthmn.gov/purchasing/forms/>. These forms are also available within the BidExpress solicitation.*
10. Is epoxy coated bar suitable in lieu of galvanized? *Yes, with engineer's prior approval. The epoxy coated bar will be required to be corrosion treated and painted with similar surrounding color as the galvanized bars would be. Any alternate bar is to be included in the bid at the time of submission for consideration as an alternate bid item in bid items 2.5.6a and 2.5.7a in the Bid Form. A submittal indicating the bar and associated hardware shall be submitted at the time of the bid.*
11. What are the requirements for the paint to be utilized on exposed bar, nuts, plates and washers? *The base bolt or hardware is expected to be free of dirt, grease, or contamination prior to painting. The applied paint is expected to be aerosol based paints in a variety of similar colors to the surrounding rock mass. The field representative from Barr will aid in the efficient selection of approved aerosol paints.*
12. The tabulated bolting quantities on dwg C-24 do not total up to the same as the bid

form. Which is correct? *A revised Sheet C-24 is attached.*

13. On Table 5, anticipated scaling production rates are requested for varying number of scalers, however the bid item no. 2 is for a three person scaling crew. If we elect to use a 4 man crew, should the rate for the entire 4 man crew be put in line item 3 or should this be per additional scaler? *Table 5 is requesting the scaling rate for various crew sizes given the contractor's review of the sites. The request in item 2.5.3 is to represent an hourly rate for each individual scaling crew member either added or subtracted from the base three-person crew described as a foreman and two scalers identified in item 2.5.2*
14. For Item No. 6 "ROCK BOLTING – 0 TO 100 FEET": Should the first 100 feet of rock bolts be assumed to be overhead in the tunnel? *The first 100 feet of bolting are not differentiated and may be overhead bolting or standard rock bolting outside of the tunnel.*
15. The schedule of proposed work calls out for a total of 142 bolts and anchors, however the estimated bill of materials indicates 134 bolts and anchors. Can you specify where the 80 3-ft spin lock anchors and the 54 8-ft long spin lock anchors are intended to go? *As discussed in the field at the time of the site visit, the location and specific length of the bolts will be determined upon completion of scaling. The quantities for the number of estimated 8-ft long bolts is 60 and the number of estimated 3-ft bolts in the tunnel for wire meshing is 82. These quantities, as well as bolt length, may be reduced or increased depending on field determined need and available budget.*
16. Is this project tax exempt? *The City is a tax exempt entity, contractors may not charge us sales tax. However, we are not able to transfer our tax exempt status, so contractors are still responsible for payment of any sales tax for this project.*
17. To prevent delay in the schedule, is it expected to order the estimated bill of materials? If so, if all the material is not used will the contractor be compensated for this? *As discussed in the field at the time of the site visit, material substitutions, as approved by the engineer will be allowed to reduce or eliminate the need for a contractor to order materials. The use of readily available materials by each experienced individual contractor was selected as a fair method to allow each contractor to utilize available materials or acquire readily available materials for the identified bolting needs. Payment will only be provided for installed materials under items 2.5.6 and 2.5.7. Components, labor, and associated equipment and activity are to be included in the unit prices for these items.*
18. What types of motorized equipment will be allowed on the trail? *Properly licensed small trucks, utility vehicles and ATVs for personnel, drilling equipment, man lifts, and if required, track or rubber tired small loaders may be allowed on the trail. Mechanical excavation equipment is not allowed.*
19. What size are the gates shown on DWG No. C-14? *14'-6" clear opening with both arms*

open.

20. What is the trail width? *Averages 12'-15' with a narrow portion of 10'*
21. Are there any height restrictions on the trail? *The trail is limited to the tunnel height with a nominal height (unverified) of 26 feet. We do not recommend vehicles over 23 feet in height travel through the tunnel.*
22. Where is the dump location for scaled material? *The specifications indicate it is to be left on the trail for removal by others.*
23. What is the engineers estimate on the volume of scaled material to be naturalized vs volume of material to be disposed of? *See the answer to question #22.*
24. What is the rock type? *Igneous. Gabbro and basalt.*

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation if submitting a bid electronically, or by initialing and dating next to Addendum 2 on the bid form if submitting a paper bid.

Posted: **March 6, 2020**

Attachment: Revised Bid Form
Revised Sheet C-24

REVISED BID FORM FOR PAPER BID
BID 20-99265 DWP TRAIL ROCK FALLING MITIGATION

Item No.	Bid Item Reference	Description	Units	Estimated Quantity	Unit price	Extended Price
1	2.5.1	SCALING CREW MOBILIZATION/DEMOBILIZATION	LUMP SUM	1	\$	\$
2	2.5.2	THREE PERSON SCALING CREW - WORKING RATE	HOURLY	160	\$	\$
5	2.5.5	ROCK BOLTING AND MESH MOBILIZATION/DEMOBILIZATION	LUMP SUM	1	\$	\$
6	2.5.6	ROCK BOLTING - 0 TO 100 FEET	EACH	100	\$	\$
7	2.5.7	ROCK BOLTING - OVER 100 FEET	EACH	606	\$	\$
8	2.5.8	WIRE MESH INSTALLATION	SQUARE FOOT	3,600	\$	\$
TOTAL						\$

TOTAL BASE PRICE IN WRITING

BID ALTERNATES

Item No.	Bid Item Reference	Description	Units	Estimated Quantity	Unit price	Extended Price
9	2.5.6A	CONTRACTOR ALTERNATE ROCK BOLTING - 0 TO 100 FEET	EACH	100	\$	\$
10	2.5.7A	CONTRACTOR ALTERNATE ROCK BOLTING - OVER 100 FEET	EACH	606	\$	\$
11	2.5.8A	CONTRACTOR ALTERNATE WIRE MESH INSTALLATION	SQUARE FOOT	3,600	\$	\$

UNIT PRICES

Item No.	Bid Item Reference	Description	Unit Price
12	2.5.3	STRAIGHT TIME HOURLY RATE FOR SCALING CREW MEMBER (0-8 HOURS PER DAY)	\$
13	2.5.4	HOURLY OVERTIME RATE FOR SCALING CREW MEMBER (8-12 HOURS PER DAY)	\$

CONTINUED ON NEXT PAGE

ACKNOWLEDGMENT OF ADDENDA

ADDENDUM # INITIAL/DATE

ADDENDUM # INITIAL/DATE

ADDENDUM # INITIAL/DATE

Signature _____ Date _____

Name/Title _____

Company Name _____

Address _____

City, State, Zip _____

Tel. _____ E-Mail _____

If your organization is certified as a Disadvantaged Business Enterprise, please check here: ☐

CADD USER: Jacob M. Daire FILE: MADES\GN23691604 ELY'S PEAK TUNNEL\2369160402 C-24.DWG PLOT SCALE: 1:2 PLOT DATE: 3/6/2020 10:37 AM
BARR V:\AutoCAD 2011\AutoCAD 2011 Support\enut\template\Barr_2011_Template.dwt Plot at 1 10/05/2010 14:03:50

ESTIMATED BILL OF MATERIALS

CONTRACTOR SUPPLIED	PART NUMBER	QUANTITY	UNIT	DESCRIPTION
X	-	3	EACH	100 FOOT TECCO G65/3 (OR APPROVED EQUAL) WIRE MESH ROLL (11.5' WIDE)
X	-	82	EACH	G-PLATE SPIKE PLATE
X	-	XXX	EACH	T3 CLIPS
X	R1S-05-A13-03600-GA	82	EACH	R1S - SOLID HIGH TENSILE SPIN-LOCK ANCHOR BOLT, 5/8"-11 UNC X 3'-0" LONG WITH A13 HEAD ASSEMBLY, HEX NUT, & WASHER (OR APPROVED EQUAL)
X	R81-06-75GA	82	EACH	GALVANIZED R81 - SPHERICAL WASHERS FOR GALVANIZED #6 GRADE 75 BAR (OR APPROVED EQUAL)
X	S6Z-0H-0050S		EACH	S6Z - ROCK BOLT SETTING TOOL FOR 5/8" NATIONAL COURSE DIA. ROCK BOLT, RIGHT HAND TAPPED OVERSIZED (OR APPROVED EQUAL)
X	B7S-06-C14-09600-GA	60	EACH	R1S - SOLID HIGH TENSILE SPIN-LOCK ANCHOR BOLT, 3/4"-10 UNC X 8'-0" LONG WITH C14 HEAD ASSEMBLY, HEX NUT, & WASHER (OR APPROVED EQUAL)
X	R81-06-75GA	60	EACH	GALVANIZED R81 - SPHERICAL WASHERS FOR GALVANIZED #6 GRADE 75 BAR (OR APPROVED EQUAL)
X	S2K-A36-GA	60	EACH	GALVANIZED DOME PLATES WITH GROUT HOLE, 3/8" X 6" X 6" WITH 1-1/2" DIA. ROUND HOLE (OR APPROVED EQUAL)
X	S6Z-CH-0060S	1	EACH	S6Z - ROCK BOLT SETTING TOOL FOR 3/4" COIL DIA. ROCK BOLT, RIGHT HAND TAPPED OVERSIZED (OR APPROVED EQUAL)
X	T3P-03-002	500	LIN. FT.	T3P - PLASTIC GROUT TUBE 3/8" O.D. X 1/4" I.D. (OR APPROVED EQUAL)

SCHEDULE OF PROPOSED WORK

SITE NUMBER	PRIORITY	SITE COMMON NAME	SCALING		BOLTING				TECCO			
			WALL SCALING (SF)	OVERHEAD SCALING (SF)	OVERHEAD BOLTS (EACH)	OVERHEAD BOLT LENGTH (FT)	VERTICAL BOLTS (EACH)	VERTICAL BOLT LENGTH (FT)	OVERHEAD AREA (SF)	OVERHEAD ANCHORS (EACH)	SUBVERTICAL AREA (SF)	SUBVERTICAL ANCHORS (EACH)
4A	1	WEST TUNNEL PORTAL	11,670	-	-	-	6	48	-	-	900	20
4B	1	TUNNEL	20,000	9,570	6	36	4	24	1,800	42	-	-
4C	1	EAST TUNNEL PORTAL	16,770	-	-	-	8	64	-	-	900	20
7A	1	NORTH ROCK CUT	3,972	-	-	-	8	64	-	-	-	-
11A	1	BARDON'S PEAK NORTH	16,719	-	-	-	10	80	-	-	-	-
11B	1	BARDON'S PEAK SOUTH	6,850	-	-	-	6	48	-	-	-	-
20	1	ROCK CUT	3,580	-	-	-	4	32	-	-	-	-
5	2	NORTH ROCK CUT	6,000	-	-	-	2	20	-	-	-	-
6A	2	NORTH ROCK CUT	6,780	-	-	-	2	12	-	-	-	-
15A	2	EAST HALF NORTH CUT	7,628	-	-	-	-	-	-	-	-	-
19	2	ROCK CUT	3,350	-	-	-	-	-	-	-	-	-
22	2	ROCK CUT	3,500	-	-	-	-	-	-	-	-	-
28	2	SPIRIT MOUNTAIN NORDIC	640	-	-	-	-	-	-	-	-	-
6B	3	SOUTH ROCK CUT	2,475	-	-	-	-	-	-	-	-	-
16A	3	NORTH	7,590	-	-	-	-	-	-	-	-	-
16B	3	SOUTH	4,000	-	-	-	4	32	-	-	-	-
21	3	ROCK CUT	1,600	-	-	-	-	-	-	-	-	-
24	3	STEWART CREEK BRIDGE	5,000	-	-	-	-	-	-	-	-	-
		ESITMATED QUANTITIES	128,124	9570	6	36	54	424	1800	42	1800	40

ISSUED FOR
BID

						I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME _____ SIGNATURE _____ DATE _____ LICENSE # _____	CLIENT	01/10							<div> Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277</div> <div>Project Office: BARR ENGINEERING CO. 325 SOUTH LAKE AVENUE SUITE 700 DULUTH, MN 55802 Ph: 1-800-786-5830 Fax: (218) 529-8202 www.barr.com</div>	Scale	AS SHOWN	CITY OF DULUTH DULUTH, MN	DWP TRAIL ROCK FALL MITIGATION DULUTH, MN ESTIMATED QUANTITIES	BARR PROJECT No. 23691604.02			
											CLIENT PROJECT No.												
C	SSW	TAD	TAD	03-05-20	ISSUED FOR BID																		
B	SSW	TAD	TAD	02-20-20	ISSUED FOR BID																		
A	BRH	TAD	TAD	01-10-20	ISSUED FOR REVIEW																		
NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION		RELEASED TO/FOR	A	B	C	0	1	2	3	DATE RELEASED						DWG. No. C-24	REV. No. C	