

Purchasing Division

ADDENDUM NO. 1

DATE: December 11, 2019
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: 23 Road Sewer Trunk Line Extension Project IFB-4731-20-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

- 1. Q. The bid tab calls for a 6oz geotextile on bid item 35, but the details on SD-1 in clouded areas call for a nominal 10oz geotextile which is normally what the irrigation companies put under their shotcrete. Can you verify which is required?
 - A. A new updated Bid Schedule is provided with Addendum #1. There are now two separate geotextile bid items now. One geotextile bid item relates to the 6oz non-woven geotextile to be used with Granular Stabilization Material in the sewer trench if needed. The second geotextile bid item relates to the 10oz non-woven geotextile to be used under the canal shotcrete per the details in the construction plans.
- 2. Q. Was there any geotechnical investigation performed for this project? If so, can we get a report provided in an addendum?
 - A. Yes, a geotechnical report was completed by Huddleston-Berry Engineering only on Goldenrod Court and G ³/₄ Road. The geotechnical report is attached to this addendum. The City Project Engineer forgot to include in the Bid Documents. In addition to the geotechnical report, the City intends to dig two holes along the proposed sewer alignment in the undeveloped area of the project to a depth of the proposed new sewer line and Bidders will be able to physically see the soil profile from the ground surface to the pipe elevation. The holes will be dug by December 17, 2019 and the holes are intended to be dug at Station 6+19.51 (SSMH-2) and Station 14+11.10 (SSMH-4). Each hole will be about 5-ft deep which is the approximate depth of the new sewer line in those locations.
- 3. Q. Station 39+92.48 sheet SS-5 shows lowering the 12" waterline. There is no bid item for this task. Can the City please clarify how this will be paid for?

- A. An updated Bid Schedule is provided in Addendum #1 that provides pay items for lowering the 12" waterline. This waterline is owned by Ute Water Conservancy District. The City will notify Ute Water prior to the project that this segment of the waterline needs to be lowered to accommodate the new sewer line. The Contractor will be responsible for installing this new section of waterline below the proposed new sewer line per Ute Water standards.
- 4. Q. Anti-seep Collar sheet SD-1. Please clarify, detail as shown is showing both a 4x4 and a 2x2 frame. I would assume the frame needs to be the 4x4 since we are utilizing a 24" casing pipe. Additionally, the detail shows the collar to be installed with native material. The plan and profile views show the utilization of flow fill. Please clarify?
 - A. The anti-seep collars shall be 4' x 4' in dimension and shall be backfilled with flow-fill per the plan and profile detail.
- 5. Q. CDOT Section 507.02 calls for slope and ditch paving to be Class B concrete not shotcrete. Since the slope and ditch paving is less than 4" per the drawings does it need to be 4" thick instead of 3" thick as required by 507.08?
 - A. Shotcrete shall be a 3,000 psi at 28-day mix per the plans. The minimum thickness of the shotcrete shall be 3-inches as shown on the plans.
- 6. Q. Drawing C-2 specifies the shotcrete to be 3,000 psi. CDOT Class B and shotcrete are both 4,500 psi. Please clarify.
 - A. Shotcrete shall be a 3,000 psi at 28-day mix per the plans. The Contractor will be required to submit a 3,000 psi shotcrete mix design for approval prior to shotcrete application.
- 7. Q. Drawing C-2, shotcrete note #30 calls for shotcrete test panels to be 7.25" thick. Is this thickness required to be able to get a 6" long core? Why not use a 3.5" thick (standard 2"x4" thickness, and a 3" long core? It also calls for 4 cores. Do you want 1 test at 7, 14, and 28 days?
 - A. The City will not require testing of the shotcrete per note #30. Please ignore note #30. The City will require submittal of a 3,000 psi shotcrete mix design that needs to be approved prior to placement, as well as, QC testing for water/cement ratio, temperature, air content, and slump prior to shotcrete placement.
- 8. Q. Who is responsible for transporting the shotcrete test panels to the testing laboratory? Who will be testing the cores? Who is responsible for coring the shotcrete test panels?
 - A. This testing will not be required. Please ignore note #30.
- 9. Q. Detail C cutoff walls on Drawing SD-1 has minimal dimensions. Please provide all other dimensions or angles as required to calculate a cross-section.
 - A. Yes, there are minimal dimensions provided. For bidding purposes, the cut-off walls shall be 2-ft tall (as shown), have an 8-inch minimum bottom width, and a minimum width of 12-inches (top width) at the angle point where the geotextile turns down.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

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Duane Hoff Jr., Senior Buyer City of Grand Junction, Colorado

Bid Schedule: 23 Road Sewer Trunk Line Extension Project ADDENDUM #1

ltem No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price To	tal Price
1	108.2	4" Sewer Service Pipe (SDR-35 PVC)	275.	Lin. Ft.	\$\$	
2	108.2	8" Gravity Sewer Pipe (SDR-35 PVC)	12.	Lin. Ft.	\$\$	
3	108.2	12" Gravity Sewer Pipe (SDR-35 PVC)	4,420.	Lin. Ft.	\$\$	
4	108.2	Water Main (12") (C-900 PVC, DR-18) (Lower waterline below new sewer line) (Includes pipe disinfection installing tracing wire and making necessary connections into ex.tracing wire per Ute Water Details)	20.	Lin. Ft.	\$\$	
5	108.2	45" x 29" Culvert (Elliptical RCP Pipe) (Includes grading of existing drain ditch upstream and downstream per plan)	44.	Lin. Ft.	\$\$	
6	108.2	36" Culvert (RCP Pipe) (Includes grading of existing drain ditch channel upstream and downstream as necessary)	60.	Lin. Ft.	\$\$	
7	108.2	Imported Trench Backfill (Including haul and disposal of unsuitable excavated material) (Assumed Unit Weight = 133 lbs/cu.ft.)	2,200.	Ton	\$\$	
8	108.3	12" x 4" Sewer Service Tap (Full Body Wye w/ Street 45-deg.) (See City Std. Detail SS-06)	10.	Each	\$\$	
9	108.3	Install 2-way Sewer Service Cleanout and Ring and Cover (Castings Inc. CO-8030-CI or Approved Equal) (Includes concrete collar in unpaved areas per City Std. Detail SS-07)	10.	Each	\$\$	
10	108.3	4" End Cap (PVC) (Air Tight)	10.	Each	\$\$	
11	108.3	8" End Cap (PVC)	4.	Each	\$\$	
12	108.3	12" End Cap (PVC)	1.	Each	\$\$	
13	108.3	15" x 12" Reducer (Eccentric Coupling) (G x G)	1.	Each	\$\$	
14	108.3	Bell Fitting Joint Restraints (To be used at both drainage ditch crossings) (Sta. 23+04 - 23+60 and 27+00 - 27+60)	8.	Each	\$\$	
15	108.3	Elbow (12" x 45 deg) (Epoxy Coated) (Lower waterline below new sewer line) (Restrained Elbow Fitting) (Includes concrete thrust blocks)	4.	Each	\$\$	

Bid Schedule: 23 Road Sewer Trunk Line Extension Project ADDENDUM #1

14	CDOT	ADDEND				
Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
16	108.3	Coupling (12") (Epoxy Coated) (Lower waterline below new sewer line) (Restrained Coupling Fitting) (Romac Industries Alpha Restrained Joint or Engineer Approved Equal)	2.	Each	\$	\$
17	108.5	Sanitary Sewer Basic Manhole (48" I.D.) (Includes Manhole Waterproofing, epoxy invert coating, grade rings, MH-310- 24 CI covers, and concrete collars in unpaved areas per City Std. Detail SS-07)	10.	Each	\$	\$
18	108.5	Manhole Barrel Section (D>5') (48" I.D.) (Includes Manhole Waterproofing)	12.	Lin. Ft.	\$	\$
19	108.5	Connect to Existing Manhole (Ex. Manhole may have a 15" pipe stubbed out to connect to. Need to field verify)	1.	Each	\$	\$
20	108.7	Granular Stabilization Material (Type B) (18" Thick Min.) (Includes haul and disposal of unsuitable excavated material) (Assumed Unit Weight = 136 lbs/cu.ft.)	1,000.	Ton	\$	\$
21	201	Clearing and Grubbing	1.	Lump Sum	\$	\$
22	202	Removal of Asphalt (Full-Depth) (Milling)	475.	Sq. Yd.	\$	\$
23	202	Remove Existing 18" RCP Culvert (Contractor shall return pipe to Grand Valley Drainage District property)	45.	Lin. Ft.	\$	\$
24	206	Structure Backfill (Flow-Fill)	120.	Cu. Yd.	\$	\$
25	208	Concrete Washout Structure	1.	Each	۶	\$
26	208	Vehicle Tracking Pad	1.	Each	5	\$
27	208	Temporary Berm	2,700.	Lin. Ft.	۶	\$
28	209	Dust Abatement	30.	Day	\$	\$
29	210	Reset Fence (Ex. Wire Fence)	25.	Lin. Ft.	\$	\$
30	210	Reset Fence (Ex. Wooden Fence) (Match in Kind)	60.	Lin. Ft.	\$	\$
31	210	Reset Landscape Rock (Cobble Style Rock) (Match in Kind)	45.	Sq. Yd.	\$	\$
32	304	Aggregate Base Course (Class 6) (6" thick) (Shotcrete Canal Liner)	150.	Sq. Yd.	\$	\$

Bid Schedule: 23 Road Sewer Trunk Line Extension Project
ADDENDUM #1

Item	CDOT,	ADDENL				
No.	•	Description	Quantity	Units	Unit Price	Total Price
33	304	Aggregate Base Course (Class 6) (4" thick) (Roadway Shoulder Base)	56.	Sq. Yd.	\$	8
34	304	Aggregate Base Course (Class 6) (15" thick)	475.	Sq. Yd.	Ş	8
35	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR.=75) (2" Bottom Mat)	475.	Sq. Yd.	\$	S
36	401	Hot Bituminous Pavement (Patching) (2" Thick) (Grading SX, PG 64-22) (GYR.=75) (2" Top Mat) (T-Top)	955.	Sq. Yd.	\$	S
37	407	Emulsified Asphalt (Tack Coat)	95.	Gallon	\$	S
38	420	Geotextile (Separator) (Non-woven) (Contech C-60NW, Nilex NW60, or Engineer Approved Equal) (Wrap stabilization material with fabric) (Minimum Overlap = 30") (See City Std. Detail GU-03 for Details)	1,300.	Sq. Yd.	β	5
39	420	Geotextile (Nominal 10 oz. Non-woven Fabric) (Use with concrete slope and ditch paving)	150.	Sq. Yd.	\$	5
40	507	Concrete Slope and Ditch Paving (3,000 psi Shotcrete) (Polypropylene Synthetic Fiber Reinforcement) (3" Thick Min.) (1.5 lbs/cyd shotcrete) (Fiber Length = Graded)	150.	Sq. Yd.	β	5
41	608	Cap Top Half of Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	2.	Each	\$	5
42	608	Encase Sewer Pipe in Concrete per City Std. Detail GU-04 (20' long) (If necessary)	1.	Each	\$	5
43	619	24" Steel Casing Pipe (Open Trench Installation) (1/4" Thick)	60.	Lin. Ft.	\$	3
44	619	24" x 12" Casing Pipe End Caps	2.	Each	\$	S
45	619	Cascade Waterworks Casing Spacers or Engineer Approved Equal (Spacing and Installation shall be per Manufacturer's Recommendation	1.	Lump Sum	\$	8

Item CDOT, No. City Ref. Description Quantity Units Unit Price **Total Price** Lump Sum \$_____ \$____ 46 620 Portable Sanitary Facility 1. 625 **Construction Surveying** 47 1. Lump Sum § _____ \$ _____ (Includes As-Built Drawings) 48 626 Mobilization 1. Lump Sum \$ _____ \$ _____ 5 5 49 629 Survey Monumentation 2. Each (Reference and Reset) (If Necessary) Lump Sum \$ _____ \$ _____ 50 630 **Traffic Control Plan** 1. Lump Sum } 51 630 Traffic Control (Complete in Place) 1. \$_____\$____ 52 630 Flagging 300. Hour \$_____\$____ 53 SP Anti-Seep Collars (4' x 4') 2. Each (Construct per GVIC details shown in the plans) **Backfill Compaction Tests** \$_____\$____ 54 SC 12. Each (Includes Proctor Test) 3.3.17 (Quality Control Testing) 55 SC Aggregate Base Course Density Tests _____\$____ 4. Each 5 3.3.17 (Includes Proctor Test) (Quality Control Testing) 56 SC Hot Bituminous Density Tests _____S_____ 4. Each 5_ (Quality Control Testing) 3.3.17 57 Gravel Driveway Restoration 240. 5 5 Sq. Yd. (759 Goldenrod Court) (Includes grading and placing new gravel/rock that matches the existing driveway material) MCR **Minor Contract Revisions** - - -\$ 50,000.00 **Bid Amount:** \$

Bid Schedule: 23 Road Sewer Trunk Line Extension Project ADDENDUM #1

Bid Amount:

 dollars

 Contractor Name:

 Contractor Address:

 Contractor Phone #:



2789 Riverside Parkway Grand Junction, Colorado 81501 Phone: 970-255-8005 Info@huddlestonberry.com

> June 13, 2019 Project#00208-0098

City of Grand Junction 333 West Avenue, Building C Grand Junction, Colorado 81501

Attention: Mr. Lee Cooper

Subject: Geotechnical Investigation 23 Road Sewer Trunk Extension Grand Junction, Colorado

Dear Mr. Cooper,

At your request, Huddleston-Berry Engineering and Testing, LLC (HBET) conducted a subsurface exploration for the 23 Road Sewer Trunk Extension project. The scope of work included conducting geotechnical borings along $G^{3/4}$ Road and Goldenrod Court in Grand Junction, Colorado. The boring locations are shown on Figure 1. In addition, typed boring logs are included in Appendix. A. The results of laboratory testing are included in Appendix B.

Boring B-1 was conducted on $G^{3/4}$ Road, east of Goldenrod Court. This boring encountered 5.0inches of asphalt pavement above granular base course to a depth of approximately 1.0 foot. The base course was underlain by brown, moist to wet, medium stiff to soft lean clay to the bottom of the boring. Groundwater was encountered in B-1 at a depth of 4.0 feet at the time of the investigation.

Boring B-2 was conducted on Goldenrod Court, south of G^{3}_{4} Road. This boring encountered 5.0-inches of asphalt pavement above granular base course to a depth of approximately 1.0 ft. The base course was underlain by brown, moist to wet, very loose silty sand to a depth of 5.0 feet. Below the sand, brown, wet, very soft to medium stiff lean clay extended to the bottom of the boring. Groundwater was encountered in B-2 at a depth of 4.5 feet at the time of the investigation.

Boring B-3 was conducted at the south end of Goldenrod Court. This boring encountered 5.0inches of asphalt pavement above granular base course to a depth of approximately 1.0 foot. The base course was underlain by brown, moist to wet, medium stiff to very soft lean clay to the bottom of the boring. Groundwater was encountered in B-3 at a depth of 6.0 feet at the time of the investigation. 23 Road Sewer #00208-0098 06/13/19



The blow counts (N-values) of the native soils encountered in the borings ranged from 2 to 8 blows-per-foot. The moisture contents in the soils ranged from 19 to 28%.

We are pleased to be of service to your project. Please contact us if you have any questions or comments regarding the contents of this report.

Respectfully Submitted: Huddleston-Berry Engineering and Testing, LLC



Michael A. Berry, P.E. Vice President of Engineering

FIGURES

23 Rd. Sewer Trunk Line Extension Borings



APPENDIX A Typed Boring Logs

	Entrol I	Bulling Constitution	Huddleston-Berry Engineering & Testing, LLC 640 White Avenue, Unit B Grand Junction, CO 81501 970-255-8005 970-255-6818					BO	RIN	IG I	NUN	/IBE PAG	R E E 1 C	
	CLIEN	T Cit	y of Grand Junction	PROJEC	T NAME	23 Ro	ad Sewer							
	PROJ	ECT N	UMBER 00208-0098				Grand Junc	tion, C	0					
	DATE	STAR	TED _5/9/19 COMPLETED _5/9/19	GROUN	ELEVA				HOLE	SIZE	4-inc	h		
	DRILL	ING C	ONTRACTOR S. McKracken				-							
			ETHOD Simco 2000 Track Rig				LING _ 4.01							
	LOGO	BED B	CHECKED BY MAB	A⊺	END OF	DRILL	.ING _ 4.0 ft	t						
	NOTE	s		. AF	TER DRI	LLING								
	o DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)		LERBE FLASTIC LIMIT		FINES CONTENT (%)
	 		ASPHALT Pavement Granular BASE COURSE Lean CLAY (CL), brown, moist to wet, medium stiff to soft											
			*** Lab Classified SS1		ss 1	89	3-3-2 (5)	-		22	35	18	17	90
	 <u>5.0</u> 		₹											
0/18	<u>7.5</u>				SS 2	100	1-2-1 (3)	-						
AB.G	10.0													
צ <u>ו</u>														
	12.5													
23 R								-						
	 				SS 3	25	1-3-3-3 (6)							
	15.0	V/////	Bottom of hole at 15.0 feet.		Y 1			-						
GEOLECH BH CC														

ESTRA-	IN EERITO	Huddleston-Berry Engineering & Testing, LLC 640 White Avenue, Unit B Grand Junction, CO 81501 970-255-8005 970-255-6818					BO	RIN	ig i	NUN	/IBE PAG	R E E 1 C	
CLIE	INT Ci	y of Grand Junction	PROJECT		23 Ro	ad Sewer							
PRO	JECT N	UMBER _00208-0098		LOCAT		Grand Junc	tion, C	0					
DAT	E STAR	TED _5/9/19 COMPLETED _5/9/19	GROUND	ELEVA1	ION _			HOLE	SIZE	4-inc	h		<u> </u>
DRIL	LING C	ONTRACTOR S. McKracken											
DRIL	LING N	ETHOD Simco 2000 Track Rig				LING _ 4.5 f							
LOG	GED B	CHECKED BY MAB	_ ¥AT	END OF	DRILL	.ING <u>4.5 ft</u>	t						
NOT	ES		AF	TER DRI	LING								
0. DEPTH	0	MATERIAL DESCRIPTION		SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)		PLASTIC PLASTIC LIMIT	3	FINES CONTENT (%)
_		ASPHALT Pavement											
		Silty SAND (SM), brown, moist to wet, very loose											
<u>2.5</u>		*** Lab Classified SS1		ss 1	44	2-2-1 (3)			19	21	18	3	32
- - 5.0		¥.					-						
-		Lean CLAY (cl), brown, wet, very soft to medium stiff											
7.5				SS 2	100	1-1-1 (2)	_						
90 _ 10.0													
7 12.5													
22	-\///						-						
				SS 3	46	2-3-3-4 (6)							
15.0		Bottom of hole at 15.0 feet.		/ \			-						
		Bottom of hole at 15.0 reet.											
5													I

Englishe	Burner Burner	Huddleston-Berry Engineering & Testing, LLC 640 White Avenue, Unit B Grand Junction, CO 81501 970-255-8005 970-255-6818					BO	RIN	IG N	NUN		R B E 1 C		
CLIEN	NT Cit	y of Grand Junction PRC	OJECT	NAME	23 Ro	ad Sewer								
PROJ						Grand Junc	tion, C	0						
			GROUND ELEVATION HOLE SIZE _4-inch											
		ONTRACTOR S. McKracken GR												
						LING _ 6.0 f								
						.ING <u>6.0 ft</u>								
NOTE	:s		AFT	fer Drii	LING		1	1						
o DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)			3	FINES CONTENT (%)	
		ASPHALT Pavement Granular BASE COURSE Lean CLAY (CL), brown, moist to wet, medium stiff to very soft												
 				SS 1	28	3-4-4 (8)	_							
 <u>5.0</u>		Y												
 				SS 2	39	1-1-1 (2)	-							
 10.0														
12.5							_							
 15.0		*** Lab Classified SS3		SS 3	96	2-1-2-2 (3)			28	33	19	14	98	
	<u>,,,,,,</u>	Bottom of hole at 15.0 feet.					-							

APPENDIX B Laboratory Testing Results

NGINEERING Huddleston-Berry Engineering & Testing, LLC **GRAIN SIZE DISTRIBUTION** 640 White Avenue, Unit B Grand Junction, CO 81501 970-255-8005 970-255-6818 PROJECT NAME 23 Road Sewer CLIENT City of Grand Junction PROJECT NUMBER 00208-0098 PROJECT LOCATION Grand Junction, CO U.S. SIEVE OPENING IN INCHES U.S. SIEVE NUMBERS HYDROMETER 810 14 16 20 30 40 50 60 100 140 200 3 4 4 3 2 1.5 1 3/4 1/23/8 6 6 Ê 100 **┼★** ─● Ê ÷ 95 x Î 90 X 85 80 75 70 65 PERCENT FINER BY WEIGHT 60 55 À 50 45 40 35 × 30 25 20 15 10 5 0 100 10 0.1 0.01 0.001 1 **GRAIN SIZE IN MILLIMETERS** GRAVEL SAND COBBLES SILT OR CLAY fine medium fine coarse coarse LL PL Сс Cu Specimen Identification Classification ΡI • B-1, SS1 5/19 LEAN CLAY(CL) 35 18 17 B-2, SS1 5/19 SILTY SAND(SM) 21 18 3 B-3, SS3 5/19 33 LEAN CLAY(CL) 19 14 * Composite 5/19 LEAN CLAY(CL) 39 19 20 Specimen Identification D100 D60 D30 D10 %Gravel %Sand %Silt %Clay 7.0 B-1, SS1 5/19 19 2.7 90.3 B-2, SS1 5/19 9.5 0.18 1.6 66.1 32.4 B-3, SS3 5/19 0.6 0.0 1.7 98.3 Composite * 5/19 9.5 0.3 4.9 94.7

6/13/19

GINT US LAB.GDT

23 ROAD SEWER.GPJ

00208-0098

GRAIN SIZE

	- IESTING	B B B B B B B B	Idleston-Berry Engine White Avenue, Unit I Ind Junction, CO 815()-255-8005)-255-6818	В	Testing,	LLC		ATTERBERG LIMITS' RESULTS
	CLIEN	NT City of C	Grand Junction					PROJECT NAME 23 Road Sewer
	PROJ		ER 00208-0098					PROJECT LOCATION Grand Junction, CO
	-	60 50 —					CL	CH
	P L A S T I C	40—						
	I T Y	30—						
	N D E X	20— 10—						
			L-ML			40	ML	MH 80 100
								LIQUID LIMIT
	S	pecimen	Identification	LL	PL	PI	#200	Classification
	• B-	-1, SS1	5/9/2019	35	18	17	90	LEAN CLAY(CL)
	х в-	-2, SS1	5/9/2019	21	18	3	32	SILTY SAND(SM)
	▲ B-	-3, SS3	5/9/2019	33	19	14	98	LEAN CLAY(CL)
	* Co	omposite	ə 5/9/2019	39	19	20	95	LEAN CLAY(CL)
21/01/0								
3	1							
2								
	+							
0200-0	+							
20ZOO	+							
	+							
	+							
	+							
٢L					1		1	1

