



Purchasing Division
Finance Department
Room 120
411 West First Street
Duluth, Minnesota 55802

218-730-5340
purchasing@duluthmn.gov

Addendum 1
Solicitation 23-99145
Enger Golf Course Irrigation Improvements

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

1. The deadline for questions for this solicitation has been changed to Wednesday, April 5.
2. The bid form in Bid Express has been updated to reflect the changes identified below.
3. For items with a unit of measure other than lump sum:
 - a. Quantities estimated will be used in the calculation of the low bid and to determine the initial contract amount. Contractor and Owner, or Owner's Representative, shall verify actual quantities during the project, and payment will be based on actual quantities.
 - b. Unit prices provided -- whether in the base bids, alternates, or unit price list -- will be used to determine change order costs.
4. City of Duluth Project Requirements

Project:	Enger Park Golf Course Irrigation Improvements
Owner:	City of Duluth
	Contractor Requirements / Instruction to Bidders
29. Ledge rock, shale, stones, organic matter or trash not suitable for use as backfill shall be dug and hauled to accessible dump sites on the course at holes F7, F8, M11 as determined with the Golf Course Superintendent or the Owner's Representative. Determination of unusable backfill material shall be made by the Contractor and the Golf Course Superintendent or the Owner's Representative. Offsite replacement gravel shall be supplied by the Contractor in the quantities required. Bedding material, if required, shall be supplied by the Contractor per unit prices for hammering and deleterious material excavation only.
5. Section 328400
Irrigation System Improvements
3.03 BORES/CONDUIT INSTALLATION (Change the following):

- B. Streams and roadways shall be directional bored as indicated on the drawings using a directional drilling company. Base Bid shall include 75 lineal feet of bored rock and Alternate Bid #1 50 lineal feet of bored rock per unit price provided in the bid.
6. Section 328400
Irrigation System Improvements
- 3.04 ROCK/UNSUITABLE MATERIAL EXCAVATION (Change the following):
- B. Rock excavation shall include solid rock or other masses which cannot be reasonably broken, plowed and removed and/or boulder or stone which, because of size or position in the trench requires other means for removal and when no other alternative is present, rock hammering or rock sawing shall be performed and paid per their respective unit prices. Base Bid shall include 300 linear feet of rock hammering, hammered rock excavation, hauling and bedding per unit price provided in the bid. Base Bid shall include 30 linear feet of rock sawing per unit price provided in the bid. Base Bid shall include 250 cubic yards of unsuitable material removal other than hammered rock or rock sawing per deleterious material unit price provided in the bid. Alternate Bid #1 shall include 100 linear feet of rock hammering, hammered rock excavation, hauling and bedding per unit price provided in the bid. Alternate Bid #1 shall include 100 linear feet of rock sawing per unit price provided in the bid. Alternate Bid #1 shall include 500 cubic yards of unsuitable material removal other than hammered rock or rock sawing per deleterious material unit price provided in the bid.
 - C. When rock is encountered, Golf Course Superintendent and the Contractor shall determine that the material to be excavated is rock. It is the intention of the City of Duluth to avoid as much rock sawing, rock hammering, bore rock and ledge removal as possible. Every attempt will be made to reroute pipe around rock areas.

The following questions are answered in *italics*.

- 7. Why aren't all the crossings known/marked? *The locations aren't known. Buckingham Stream may be realigned as part of this project.*
- 8. Do we need to make a cost distinction between rock and dirt boring? *The boring for rock should be part of the rock cost per unit price. Probing should be done ahead of time to pick the most advantageous route in the vicinity of the crossings.*
- 9. Is a three-foot depth below the streambed adequate? *Minimum of three feet per Minnesota Department of Resources.*
- 10. What is the minimum cover for road crossings? *A minimum of two feet. Depth may vary if there are conflicting existing utilities.*
- 11. What is meant by Probe Probing? *Proposed pipe installation routes shall be probed to try and avoid and reroute around rock/ledge. This is usually done with a stainless-steel*

probe around 3/8" in diameter and 3 or 4 feet long. This is a standard process in golf course irrigation installation, especially with HDPE pipe systems.

12. Was open cutting considered? *No, due to the Buckingham Stream being a designated trout stream.*

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation.

Posted: **March 31, 2023**

Each line
and Total
Bid is
calculated

Item	Description	UOM	Est Qty	Vendor submits unit price	by Bid Express
1A	18 Hole (Middle and Back Nines) Rain Bird or equal Irrigation System	LS	1		
1B	Lightning Protection System	LS	1		
1C	City Water Line	LS	1		
1D	Pump Station and Enclosure Installation	LS	1		
1E	Demolition of Existing Irrigation Equipment	LS	1		
1F	Demolition of Existing Pump House	LS	1		
1G	Bored Rock	LF	75		
1H	Rock hammering, hammered rock excavation, hauling and bedding	LF	300		
1I	Rock sawing	LF	30		
1J	Unsuitable material removal (excluding hammered or sawed rock)	CY	250		

TOTAL for Base Bid 1

Item	Description	UOM	Est Qty
2A	18 Hole (Middle and Back Nines) Toro or Equal Irrigation System	LS	1
2B	Lightning Protection System	LS	1
2C	City Water Line	LS	1
2D	Pump Station and Enclosure Installation	LS	1
2E	Demolition of Existing Irrigation Equipment	LS	1
2F	Demolition of Existing Pump House	LS	1
2G	Bored Rock	LF	75
2H	Rock Hammering, hammered rock excavation, hauling and bedding	LF	300
2I	Rock sawing	LF	30
2J	Unsuitable material removal (excluding hammered or sawed rock)	CY	250

Item	Description	UOM	Est Qty
AddAlt 1A	9 Hole (Front Nine) Rain Bird or Equal Irrigation System	LS	1
AddAlt 1B	Lightning Protection System	LS	1
AddAlt 1C	Demolition of Existing Irrigation Equipment	LS	1
AddAlt 1D	Bored Rock	LF	50
AddAlt 1E	Rock hammering, hammered rock excavation, hauling and bedding	LF	100
AddAlt 1F	Rock sawing	LF	100
AddAlt 1G	Unsuitable material removal (excluding hammered or sawed rock)	CY	500

Item	Description	UOM	Est Qty
Add Alt 2A	9 Hole (Front Nine) Toro or Equal Irrigation System	LS	1
AddAlt 2B	Lightning Protection System	LS	1
AddAlt 2C	Demolition of Existing Irrigation Equipment	LS	1
AddAlt 2D	Bored Rock	LF	50
AddAlt 2E	Rock hammering, hammered rock excavation, hauling and	LF	100
AddAlt 2F	Rock sawing	LF	100
AddAlt 2G	Unsuitable material removal (excluding hammered or saw	CY	500

Item	Description	UOM	Est Qty
1	Complete Closure of Enger Golf Course throughout construction (all 27 holes closed)	LS	1

Item #	Description	Unit	
1	80' Full Circle Sprinkler, w/ACME swing joint	EA	1
2	80' Part Circle Sprinkler, w/ACME swing joint	EA	1
3	75' Full Circle Sprinkler, w/ACME swing joint	EA	1
4	75' Part Circle Sprinkler, w/ACME swing joint	EA	1
5	70' Full Circle Sprinkler, w/ACME swing joint	EA	1
6	70' Part Circle Sprinkler, w/ACME swing joint	EA	1
7	65' Full Circle Sprinkler, w/ACME swing joint	EA	1
8	65' Part Circle Sprinkler, w/ACME swing joint	EA	1
9	50' Full Circle Sprinkler, w/ACME swing joint	EA	1
10	50' Part Circle Sprinkler, w/ACME swing joint	EA	1
11	3-Inch Pressure Regulating Valve	EA	1
12	4-Inch Pressure Regulating Valve	EA	1
13	6-Inch Pressure Regulating Valve	EA	1
14	4-Inch Pressure Regulating Solenoid Shut Off Valve	EA	1
15	Toro Smart Module or equal	EA	1
16	Rain Bird Integrated Control Module or equal	EA	1
17	Bird IC-IN or equal	EA	1
18	Rain Bird Integrated Control Surge Device or equal	EA	1
19	Toro Communication Line Surge Unit or equal	EA	1
20	iPad or equal	EA	1
21	2 Inch Bronze Gate Valve	EA	1
22	2 Inch Bronze Gate Valve Assembly	EA	1
23	3 Inch Bronze Gate Valve Assembly	EA	1
24	6 Inch Econo Valve Box	EA	1
25	10 Inch Valve Box w/detection	EA	1
26	12 Inch Valve Box w/detection	EA	1
27	18 Inch Valve Box w/detection	EA	1
28	17 Inch x 30 Inch Valve Box w/detection	EA	1
29	5-1/4 Inch Polyiron Valve Box	EA	1
30	3 Inch Extension for 10 Inch Valve Box	EA	1
31	6 Inch Extension for 12 Inch Valve Box	EA	1
32	6 Inch Extension for 18 Inch Valve Box	EA	1
33	Grounding Plate (4" x 96" x 0.06" w/#6 AWG wire)	EA	1
34	Grounding Plate (4" x 36" x 0.06" w/#10 AWG wire)	EA	1
35	Grounding Rod (5/8 Inch x 10 Foot)	EA	1
36	Grounding Rod (5/8 Inch x 8 Foot)	EA	1
37	#6 AWG Bare, Solid Copper Wire	LF	1
38	#10 AWG Bare, Solid Copper Wire	LF	1
39	Cadweld Connector (GT1161G Plus) or equal	EA	1
40	Cadweld Connector (PG11L Plus) or equal	EA	1
41	50 lb. Bag PowerSet Material	EA	1
42	P7072D or equal #14/#14 AWG Communication Cable	1000FT	1
43	P7072D or equal #12/#12 AWG Communication Cable	1000FT	1
44	3M DBR/Y-6 or equal Wire Connector	EA	1
45	#12 AWG Relay Wires	1000FT	1
46	2 Inch Drain Assembly	EA	1

47	1 Inch PVC Swing Joint w/Brass Insert	EA	1
48	1 Inch PVC ACME Swing Joint	EA	1
49	1-1/4 Inch PVC ACME Swing Joint	EA	1
50	1-1/2 Inch PVC ACME Swing Joint	EA	1
51	1 Inch Quick Coupling Valve	EA	1
52	1 Inch Air Vacuum/Release Valve Assembly	EA	1
53	HDPE Molded Fittings (Attach List)	% off list	1
54	HDPE Compression Fittings (Attach List)	% off list	1
55	Mechanical Joint Fittings (Attach List)	% off list	1
56	Schedule 80 Nipples (Attach List)	% off list	1
57	Brass Nipples (Attach List)	% off list	1
58	Brass Fittings (Attach List)	% off list	1
59	3 Inch MJ Gate Valve	EA	1
60	4 Inch MJ Gate Valve	EA	1
61	6 Inch MJ Gate Valve	EA	1
62	8 Inch MJ Gate Valve	EA	1
63	10 Inch MJ Gate Valve	EA	1
64	2 Inch DR11, 200 Psi, HDPE Pipe	LF	1
65	3 Inch DR11, 200 Psi, HDPE Pipe	LF	1
66	4 Inch DR11, 200 Psi, HDPE Pipe	LF	1
67	6 Inch DR11, 200 Psi, HDPE Pipe	LF	1
68	8 Inch DR11, 200 Psi, HDPE Pipe	LF	1
69	10 Inch DR11, 200 Psi, HDPE Pipe	LF	1
70	12 Inch DR11, 200 Psi, HDPE Pipe	LF	1
71	1 Inch Schedule 40 PVC Sweep Elbow	EA	1
72	1-1/2 Inch Schedule 40 PVC Sweep Elbow	EA	1
73	2 Inch Schedule 40 PVC Sweep Elbow	EA	1
74	4 Inch Schedule 80 PVC Sweep Elbow	EA	1
75	1 Inch Schedule 40 PVC Electrical Conduit	LF	1
76	1-1/2 Inch Schedule 40 PVC Electrical Conduit	LF	1
77	2 Inch Schedule 40 PVC Electrical Conduit	LF	1
78	4 Inch Schedule 80 PVC Electrical Conduit	LF	1
79	Antenna Surge Arrestor	EA	1
80	4 Inch Detectable Grated Plastic Cover	EA	1
81	4 Inch ADS Drainage Pipe	LF	1
82	2-Inch Pond Fill Assembly	EA	1
83	3-Inch ADS Drainage Pipe Repair w/Fittings	LF	1
84	Pavement Cutting and Patching	SF	1
85	Supply and Installation of Bedding Material (Deleterious Only)	CY	1
86	Sod Replacement	SY	1
87	Crew Supervisor	Hour	1
88	Laborer	Hour	1
89	Excavator w/operator	Hour	1
90	Trencher w/operator	Hour	1