City of Duluth
DEPARTMENT OF PUBLIC WORKS/UTILITIES
Engineering Division
211 City Hall • Duluth MN 55802
(218) 730-5200 Fax: (218) 730-5907

Date: November 12, 2013

City of Duluth Bid # 13-0593
Job Description: 63rd Avenue Box Culverts
City Project No. 1126
S.P. 118-103-005

Addendum #2

This addendum consists of the following changes:

Bid Form:

The Bid Form (Exhibit A) has been revised as follows:

An additional pay item has been added for 736 cubic yards of Common Excavation to be paid under the item "2105.501 COMMON EXCAVATION."

Replace Exhibit A with the attached Exhibit A.

Specifications:

No changes.

Plansheets:

Plan Sheet 3 has been revised to include an item for Common Excavation. The revised Sheet 3 is attached.

The revised Exhibit A is attached. Be sure to acknowledge this addendum in your bid. Return the entire bound Project Proposal and all addenda as your bid.

Patrick F Loomis

Patrick F. Loomis
Project Engineer

Bid # 13-0593 Project #1126
63RD AVENUE WEST BOX CULVERTS

Initial

EXHIBIT A

Item No.	Spec. No.	Description		Unit	Est. Qty	Unit Price	Total Price
1	2021.501	MOBILIZATION		LUMP SUM	1		
2	2101.511	CLEARING & GRUBBING		LUMP SUM	1		
3	2104.501	REMOVE SEWER PIPE (STORM)		LIN FT	75		
4	2104.501	REMOVE WATER MAIN		LIN FT	85		
5	2104.501	REMOVE INTEGRANT CURB		LIN FT	105		
6	2104.501	REMOVE FENCE		LIN FT	140		
7	2104.501	REMOVE GAS MAIN		LIN FT	125		
8	2104.503	REMOVE CONCRETE SLOPE PAVING		SQ FT	630		
9	2104.503	REMOVE CONCRETE WALK		SQ FT	1160		
10	2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ FT	115		
11	2104.503	REMOVE CONCRETE PAVEMENT		SQ FT	3564		
12	2104.509	REMOVE MANHOLE OR CATCH BASIN		EACH	2		
13	2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)		LIN FT	150		
14	2104.601	REMOVE MISCELLANEOUS DEBRIS		LUMP SUM	1		
15	2105.501	COMMON EXCAVATION	(P)	CU YD	736		
16	2105.521	GRANULAR BORROW (CV)		CU YD	390		
17	2105.522	SELECT GRANULAR BORROW MOD 7% (CV)		CU YD	288		
18	2105.525	TOPSOIL BORROW (CV)		CU YD	150		
19	2105.601	TEMPORARY STREAM DIVERSION SYSTEM		LUMP SUM	1		
20	2105.602	BOULDERS		EACH	21		
21	2105.604	GEOTEXTILE FABRIC TYPE V		SQ YD	604		
22	2211.503	AGGREGATE BASE (CV) CLASS 5		CU YD	141		
23	2301.541	INTEGRANT CURB DESIGN B6		LIN FT	250		
24	2301.604	CONCRETE PAVEMENT 8.0" W/DISTRIBUTION SLAB REINFORCEMENT		SQ YD	222		
25	2301.604	CONCRETE PAVEMENT 8.0"		SQ YD	298		
26	2411.507	CONCRETE DROP WALL		LIN FT	126		
27	2412.511	10X7 PRECAST CONCRETE BOX CULVERT		LIN FT	70		
28	2412.511	10X8 PRECAST CONCRETE BOX CULVERT		LIN FT	70		
29	2412.512	10X7 PRECAST CONCRETE BOX CULVERT END SECTION		EACH	2		
30	2412.512	10X8 PRECAST CONCRETE BOX CULVERT END SECTION		EACH	2		

Item No.	Spec. No.	Description		Unit	Est. Qty	Unit Price	Total Price
31	2442.501	REMOVE BRIDGE		LUMP SUM	1		
32	2451.509	AGGREGATE BEDDING (CV)		CU YD	113		
33	2502.541	4" PERF PE PIPE DRAIN		LIN FT	250		
34	2503.541	12" RC PIPE SEWER DES 3006 CL V		LIN FT	32		
35	2503.541	18" RC PIPE SEWER DES 3006 CL V		LIN FT	19		
36	2503.602	CONNECT TO EXISTING STORM SEWER		EACH	1		
37	2503.603	TRENCH EXCAVATION		LIN FT	50		
38	2504.602	CONNECT TO EXISTING WATERMAIN		EACH	2		
39	2504.602	8" GATE VAVE & BOX		EACH	2		
40	2504.602	FURNISH & INSTALL HYDRANT ASSEMBLY		EACH	1		
41	2504.603	8" HDPE WATERMAIN SDR II (DIRECTIONALLY DRILLED)		LIN FT	90		
42	2504.604	3" POLYSTYRENE INSULATION		SQ YD	45		
43	2505.603	8" HP POLYETHYLENE GAS MAIN (DIRECTIONALLY DRILLED)		LIN FT	125		
44	2506.502	CONST DRAINAGE STRUCTURE DES H		EACH	1		
45	2506.502	CONST DRAINAGE STRUCTURE DES 48-4020		EACH	1		
46	2511.501	RANDOM RIPRAP CLASS II		CU YD	145		
47	2511.501	RANDOM RIPRAP CLASS III		CU YD	135		
48	2514.501	CONCRETE SLOPE PAVING		SQ YD	96		
49	2521.501	4" CONCRETE WALK		SQ FT	1160		
50	2531.501	CONCRETE CURB & GUTTER DESIGN B618		LIN FT	10		
51	2531.507	7" CONCRETE DRIVEWAY PAVEMENT		SQ YD	13		
52	2531.618	TRUNCATED DOMES		SQ FT	8		
53	2557.501	WIRE FENCE DESIGN 60V-9322		LIN FT	235		
54	2563.601	TRAFFIC CONTROL		LUMP SUM	1		
55	2564.531	SIGN PANELS TYPE C		SQ FT	6.25		

Initial

Item No.	Spec. No.	Description		Unit	Est. Qty	Unit Price	Total Price
56	2573.502	SILT FENCE TYPE HEAVY DUTY		LIN FT	300		
57	2573.505	FLOATATION SILT CURTAIN TYPE MOVING WATER		LIN FT	60		
58	2573.530	STORM DRAIN INLET PROTECTION		EACH	6		
59	2573.540	FILTER LOG TYPE WOOD FIBER BIOROLL		LIN FT	180		
60	2575.501	SEEDING		ACRE	0.2		
61	2575.502	SEED MIXTURE 250		POUND	20		
62	2575.511	MULCH MATERIAL TYPE 1		TON	0.2		
63	2575.523	EROSION CONTROL BLANKET CATEGORY 3		SQ YD	325		
64	2575.532	FERTILIZER TYPE 3		POUND	35		
65	2575.572	RAPID STABILIZATION METHOD 4		SQ YD	325		
66	2582.502	4" SOLID LINE WHITE - EPOXY		LIN FT	360		
67	2582.502	4" DOUBLE SOLID LINE YELLOW - EPOXY		LIN FT	180		

GRAND TOTAL: _____

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Initial

STATEMENT OF ESTIMATED QUANTITIES

NOTE	PAGE	TAB	ITEM NO.	ITEM DESCRIPTION		UNIT	ESTIMATED QUANTITIES	SP 118-103-005	SP 118-103-005 STORM SEWER	NON-PARTICIPATION
			2021.501	MOBILIZATION		LUMP SUM	1	0.92	0.02	0.06
	4	A	2101.511	CLEARING & GRUBBING		LUMP SUM	1	1		
	4	A	2104.501	REMOVE SEWER PIPE (STORM)		LIN FT	75		75	
	4	A	2104.501	REMOVE WATER MAIN		LIN FT	85			85
	4	A	2104.501	REMOVE INTEGRANT CURB		LIN FT	105	105		
	4	A	2104.501	REMOVE FENCE		LIN FT	140	140		
	4	A	2104.501	REMOVE GAS MAIN		LIN FT	125	125		
	4	A	2104.503	REMOVE CONCRETE SLOPE PAVING		SQ FT	630	630		
	4	A	2104.503	REMOVE CONCRETE WALK		SQ FT	1160	1160		
	4	A	2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ FT	115	115		
	4	A	2104.503	REMOVE CONCRETE PAVEMENT		SQ FT	3564	3564		
	4	A	2104.509	REMOVE MANHOLE OR CATCH BASIN		EACH	2		2	
12	4	A	2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)		LIN FT	150	150		
4	4	A	2104.601	REMOVE MISCELLANEOUS DEBRIS		LUMP SUM	1	1		
			2105.501	COMMON EXCAVATION	(P)	CU YD	736	736		
	24		2105.521	GRANULAR BORROW (CV)		CU YD	390	390		
	4	B	2105.522	SELECT GRANULAR BORROW MOD 7% (CV)		CU YD	288	288		
	5	F	2105.525	TOPSOIL BORROW (CV)		CU YD	150	150		
			2105.601	TEMPORARY STREAM DIVERSION SYSTEM		LUMP SUM	1	1		
8	24		2105.602	BOULDERS		EACH	21	21		
	4	C	2105.604	GEOTEXTILE FABRIC TYPE V		SQ YD	604	604		
	4	B	2211.503	AGGREGATE BASE (CV) CLASS 5		CU YD	141	141		
	4	B	2301.501	INTEGRANT CURB DESIGN B6		LIN FT	250	250		
5,6,7	4	B	2301.604	CONCRETE PAVEMENT 8.0" W/DISTRIBUTION SLAB REINFORCEMENT		SQ YD	222	222		
5,6,7	4	B	2301.604	CONCRETE PAVEMENT 8.0"		SQ YD	298	298		
5	4	B	2411.507	CONCRETE DROP WALL		LIN FT	126	126		
	24		2412.511	10X7 PRECAST CONCRETE BOX CULVERT		LIN FT	70	70		
	24		2412.511	10X8 PRECAST CONCRETE BOX CULVERT		LIN FT	70	70		
	24		2412.512	10X7 PRECAST CONCRETE BOX CULVERT END SECTION		EACH	2	2		
	24		2412.512	10X8 PRECAST CONCRETE BOX CULVERT END SECTION		EACH	2	2		
2	4	A	2442.501	REMOVE BRIDGE		LUMP SUM	1	1		
	24		2451.509	AGGREGATE BEDDING (CV)		CU YD	113	113		
	4	B	2502.541	4" PERF PE PIPE DRAIN		LIN FT	250	250		
	4	D	2503.541	12" RC PIPE SEWER DES 3006 CL V		LIN FT	32		32	
	4	D	2503.541	18" RC PIPE SEWER DES 3006 CL V		LIN FT	19		19	
	4	D	2503.602	CONNECT TO EXISTING STORM SEWER		EACH	1		1	
10	5	G	2503.603	TRENCH EXCAVATION		LIN FT	50			50
	5	G	2504.602	CONNECT TO EXISTING WATERMAIN		EACH	2			2
	5	G	2504.602	8" GATE VAVE & BOX		EACH	2			2
14	5	G	2504.602	FURNISH & INSTALL HYDRANT ASSEMBLY		EACH	1			1
1	5	G	2504.603	8" HDPE WATERMAIN SDR II		LIN FT	90			90
	5	G	2504.604	3" POLYSTYRENE INSULATION		SQ YD	45			45
15	5	G	2505.603	8" HP POLYETHELENE GAS MAIN		LIN FT	125			125
	4	D	2506.502	CONST DRAINAGE STRUCTURE DES H		EACH	1		1	
	4	D	2506.502	CONST DRAINAGE STRUCTURE DES 48-4020		EACH	1		1	
	24		2511.501	RANDOM RIPRAP CLASS II		CU YD	145	145		
11	24		2511.501	RANDOM RIPRAP CLASS III		CU YD	135	135		
5,6	4	B	2514.501	CONCRETE SLOPE PAVING		SQ YD	96	96		
	4	B	2521.501	4" CONCRETE WALK		SQ FT	1160	1160		
	4	B	2531.501	CONCRETE CURB & GUTTER DESIGN B 618		LF	10	10		
	4	B	2531.507	7" CONCRETE DRIVEWAY PAVEMENT		SQ YD	13	13		
	4	B	2531.618	TRUNCATED DOMES		SQ FT	8	8		
9	5	I	2557.501	WIRE FENCE DESIGN 60V-9322		LIN FT	235	235		
	23	B	2563.601	TRAFFIC CONTROL		LUMP SUM	1	0.92	0.02	0.06
13	4	B	2564.531	SIGN PANELS TYPE C		SQ FT	6.25	6.25		
	5	E	2573.502	SILT FENCE TYPE HEAVY DUTY		LIN FT	300	300		
3	5	E	2573.505	FLOATATION SILT CURTAIN TYPE MOVING WATER		LIN FT	60	60		
	5	E	2573.530	STORM DRAIN INLET PROTECTION		EACH	6	6		
	5	E	2573.540	FILTER LOG TYPE WOOD FIBER BIOROLL		LIN FT	180	180		
	5	F	2575.501	SEEDING		ACRE	0.2	0.2		
	5	F	2575.502	SEED MIXTURE 250		POUND	20	20		
	5	F	2575.511	MULCH MATERIAL TYPE 1		TON	0.2	0.2		
	5	F	2575.523	EROSION CONTROL BLANKET CATEGORY 3		SQ YD	325	325		
	5	F	2575.532	FERTILIZER TYPE 3		POUND	35	35		
	5	E	2575.572	RAPID STABILIZATION METHOD 4		SQ YD	325	325		
	4	B	2582.502	4" SOLID LINE WHITE - EPOXY		LIN FT	360	360		
	4	B	2582.502	4" DOUBLE SOLID LINE YELLOW - EPOXY		LIN FT	180	180		

NOTES:

1	INSULATION & TRACER WIRE TO BE PLACED ABOVE ENTIRE LENGTH OF WATERMAIN
2	EXISTING BRIDGE IS A 10.5' WIDE X 6.4' TALL 82' LONG CONCRETE BOX CULVERT
3	2' DEPTH
4	INCLUDES TREES
5	REBAR & INSTALLATION CONSIDERED INCIDENTAL
6	DOWEL BARS & INSTALLATION CONSIDERED INCIDENTAL
7	PAVEMENT EXPANSION & CONTRACTION JOINTS CONSIDERED INCIDENTAL
8	1 CU YD MINIMUM, 6" VARIATIONS ALLOWED IN 2 DIMMENSIONS
9	VINYL COATING SHALL BE BLACK ON ALL FENCE COMPONENTS. A TOP & BOTTOM RAIL SHALL BE PROVIDED THE ENTIRE LENGTH OF FENCE
10	INCLUDES GAS MAIN PIPE BEDDING PER CITY OF DULUTH DETAIL EX-2
11	GEOTEXTILE FABRIC CONSIDERED INCIDENTAL
12	INCLUDES SAW CUTS FOR SLOPE PAVING
13	W15-1 YELLOW
14	INCLUDES 8"X6" DI TEE, 20 LF 6" HDPE WATERMAIN SDR 11, 6" GATE VALVE & BOX
15	TRACER WIRE TO BE PLACED ABOVE ENTIRE LENGTH OF GAS MAIN

STANDARD CITY DETAILS

THESE STANDARD CITY OF DULUTH DETAILS SHALL APPLY

DETAIL	DESCRIPTION
EX-1	PE WATERMAIN BEDDING
EX-2	6" & LARGER PE GAS MAIN BEDDING DETAIL
EX-4	CONCRETE STORM SEWER BEDDING
STRM-2	CATCH BASIN/CURB BOX CASTINGS
STRM-4	FABRIC WRAPPED CATCH BASIN CASTING
STRM-6	GUTTER SWALE
STRM-7	GUTTER STAMP
STR-1	PERFORATED PIPE DETAIL
STR-5	DRIVEWAY & ALLEY ENTRANCES
W-3	THRUST BLOCKING FOR WATER MAIN
W-4A	FIRE HYDRANT SETTING - HDPE
W-6	STRAPPING WATERMAIN VERTICAL OFFSETS
W-17A	VALVE WATER BOX - HDPE MAIN
ER-3	INLET PROTECTION

EXISTING UTILITIES

COMPANY	SERVICE
MINNESOTA POWER	ELECTRIC POWER
CENTURY LINK	TELEPHONE
CITY OF DULUTH	STREET LIGHTS, WATER, GAS, SANITARY SEWER AND STORM SEWER
CHARTER COMMUNICATIONS	CABLE TV
GOPHER STATE ONE CALL	LOCATORS
DULUTH NORTHSHORE SANITARY DISTRICT	SANITARY SEWER

STANDARD PLATES

THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY

PLATE	DESCRIPTION
1070M	SUPPLEMENTAL PAVEMENT REINFORCEMENT
1103K	TYPICAL DOWEL BAR ASSEMBLY
1150R	CONCRETE HEADER JOINTS
3000L	REINFORCED CONCRETE PIPE
3006G	GASKET JOINT FOR R.C.P. PIPE
4000J	DRAINAGE STRUCTURES & CATCH BASINS
4006L	MANHOLE OR CATCH BASIN
4020J	MANHOLE OR CATCH BASIN
4108F	ADJUSTMENT RINGS FOR CATCH BASINS & MANHOLES
4129G	CATCH BASIN FRAME CASTING
4132F	CATCH BASIN FRAME CASTING
4151B	GRATE CASTING FOR CATCH BASIN
4160D	CURB BOX CASTING FOR CATCH BASIN
7020K	CONCRETE CURB
7035N	CONCRETE WALK & CONCRETE RETURNS AT ENTRANCES
7038A	DETECTABLE WARNING SURFACE
7100H	CONCRETE CURB & GUTTER
7111J	INSTALLATION OF CATCH BASINS
8000I	STANDARD BARRICADES
9000E	APPROACHES AND ENTRANCES
9101B	SHAPING AND SODDING OF SLOPES AT BOX CULVERT ENDS
9322K	CHAIN LINK FENCE, STEEL POSTS

DRAWN BY: CTK
DESIGNER: SDH
CHECKED BY: SDH
DESIGN TEAM

NO.	BY	DATE	REVISIONS
1	CTK	11/12/13	REVISED SEQ

I HEREBY CERTIFY THAT THIS PLAN 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.

Scott D. Hedlund
SCOTT D. HEDLUND, P.E.
Date: 7/23/2013 Lic. No. 40686

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DULUTH, MINNESOTA
CITY PROJ. NO. 1126
FLOOD SITE NO. 29

S.P. 118-103-005

ESTIMATED QUANTITIES

FILE NO. DULUT 121595

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