



MINTURN NORTH - MINTURN CO

Engineer's Opinion Of Estimated Cost

November 7, 2023

Prepared by Boundaries Unlimited Inc.

PROJECT NO: 22036.01

Final Plat - Civil Engineering Plans Dated 11-7-2023

Item No.	Description	QTY	Unit	Unit Cost (Typical)	Cost	%
GENERAL						
G1	Mobilization	1	LS	\$85,000	\$85,000	2.2%
G2	Mud Tracking Mitigation	1	LS	\$6,000	\$6,000	0.2%
G3	Erosion Control - Silt Fencing	2,589	LF	\$3.50	\$9,062	0.2%
G4	Erosion Control - Silt Logs	200	EA	\$34.00	\$6,800	0.2%
G5	Traffic Control - Barricades & Signage + Flaging	1	LS	\$90,000	\$90,000	2.3%
G6	Street Signs	10	EA	\$550	\$5,500	0.1%
G7	Revegetation (Dryland)	5	AC	\$1,700	\$8,500	0.2%
G8	Permenent Turf Reinforcement	4,900	SY	\$12.00	\$58,800	1.5%
G9	Temporary Turf Reinforcement	2,200	SY	\$9.00	\$19,800	0.5%
G10	Guard Rail	250	LF	\$160	\$40,000	1.0%
G11	Pavement Striping	1	LS	\$2,500	\$3,500	0.1%
G12	Landscape	1	LS	\$45,000	\$45,000	1.2%
				Item Subtotal	\$377,962	9.8%
EARTHWORK						
D1	Top Soil Removal & Replacement	3,450	CY	\$22.50	\$77,625	2.0%
D2	Site Excavation (Cut/Fill & Compaction)	5,300	CY	\$22.00	\$116,600	3.0%
D3	Cut Export	4,200	CY	\$38.00	\$159,600	4.2%
				Item Subtotal	\$353,825	9.2%
SANITARY SEWER						
S1	8" PVC Sewer Main	2,395	LF	\$91	\$217,945	5.7%
S2	4' Dia Concrete Manhole	12	EA	\$5,800	\$69,600	1.8%
S3	4' Dia Concrete Manhole w/Cast-Inplace Base onto Live Main	4	EA	\$8,600	\$34,400	0.9%
S4	Core Existing Manhole for New 8" pipe	1	EA	\$6,500	\$6,500	0.2%
S5	4" PVC Sewer Service	39	EA	\$3,600	\$140,400	3.7%
S6	Manhole Removal	2	EA	\$2,600	\$5,200	0.1%
S7	Plug Abandond Sewer Main Pipe Ends	5	EA	\$1,000	\$5,000	0.1%
S8	Manhole Cone Rotation, Adjust Rim & New WaterProof Lid	2	EA	\$2,600	\$5,200	0.1%
S9	Manhole Rim Elev Adjustment	4	EA	\$600	\$2,400	0.1%
				Item Subtotal	\$486,645	12.7%
POTABLE WATER						
W1	8" Tee Connection w/8" GV and 10"x8" Reducer	2	EA	\$22,000	\$44,000	1.1%
W2	10" Tee Connection w/Two 10" GV's & Plug	1	EA	\$16,000	\$16,000	0.4%
W3	10" C900 Water Main (includes fittings & restraints)	2,517	EA	\$144.00	\$362,448	9.4%
W4	10" Gate Valve	4	EA	\$4,800	\$19,200	0.5%
W5	Sleeve & Insulation for SewerLine Crossings (CDH)	60	LF	\$200	\$12,000	0.3%
W6	Fire Hydrant w/ GV, C900 Pipe, Tee, Restraints & Gravel	6	EA	\$10,800	\$64,800	1.7%
W7	PureCore Water Service w/Wettap, Saddle, Corp Stop & Curb Stop	39	EA	\$5,600	\$218,400	5.7%
W8	Air Vac Valve w/ Vault, fittings, service line & Main Connection	1	EA	\$8,000	\$8,000	0.2%
				Item Subtotal	\$744,848	19.4%
IRRIG WATER						
I1	4" HDPE DR11 Irrigation Main (includes Misc Fittings)	1,335	LF	\$55	\$73,425	1.9%
I2	2" HDPE DR11 Irrigation Main (include Misc Fittings)	1,901	LF	\$35	\$66,535	1.7%
I3	2" Valve with Box & Lid	6	EA	\$500	\$3,000	0.1%
I4	1" Drain/Air Valve w/ fittings, Box & Lid	6	EA	\$600	\$3,600	0.1%
I5	4X2 Tee Connection/Fitting	6	EA	\$300	\$1,800	0.0%
I6	Meter/Valve Vault (includes, fittings, Valves, Meter)	1	LS	\$8,000	\$8,000	0.2%
				Item Subtotal	\$156,360	4.1%
DRAINAGE						
D1	Arch CMP Culvert Cleaning & Debris Removal	1	LS	\$22,000	\$22,000	0.6%
D2	Headwall Structure Conc. Blocks for Exisitng Arch CMP Culv Entrance	240	SF	\$120	\$28,800	0.7%



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D3	18" Nominal Angular RipRap	100	Ton	\$154.00	\$15,400	0.4%
D4	Concrete Headwall & Wingwall Structures for Culverts	6	EA	\$11,000	\$66,000	1.7%
D5	24" RCP Culvert	188	LF	\$165	\$31,020	0.8%
D6	18" ADS-N12 Culvert	336	LF	\$120	\$40,320	1.0%
D7	18" Flared End Sections	7	EA	\$480	\$3,360	0.1%
D8	Type R Inlet w/Snout & Bio-skirts	7	EA	\$11,500	\$80,500	2.1%
D9	Nyloplast Single Inlet w Snout & Bio-skirts	2	EA	\$9,000	\$18,000	0.5%
D10	Nyloplast Double Inlet w Snout & Bio-skirts	2	EA	\$13,250	\$26,500	0.7%
D11	Ditch Gabion Check Dams	48	EA	\$725	\$34,800	0.9%
				Item Subtotal	\$366,700	9.5%
SHALLOW UTILITES (Electric, Communications & Gas)						
U1	Heritage OH Pwr Line Relocation (Trench Excavation only)	1,820	LF	\$20	\$36,400	0.9%
U2	Primary Elect/Comm lines/Trench Exc & Conduit Install	2,957	LF	\$25	\$73,925	1.9%
U3	Electric Transformers/Vault install	9	EA	\$1,200	\$10,800	0.3%
U5	Gas line Trenching	3,210	LF	\$20	\$64,200	1.7%
				Item Subtotal	\$148,925	3.9%
ROADS, CURB & Apron, Pans & Sidewalk						
R1	Asphalt Saw Cut & Rotomill	172	LF	\$22	\$3,784	0.1%
R2	Minturn Road Demo & Subgrade Prep & Compaction	3,716	SY	\$7	\$26,014	0.7%
R3	On-Site Roads Demo & Subgrade Prep & Compaction	900	SY	\$9	\$8,100	0.2%
R4	Class 6 ABC for Roads, Drives, Curbs, Aprons, Pans, Walk & Shldrs	5,245	Ton	\$41	\$215,045	5.6%
R5	18" Standard Vertical & Mountable Curb & Gutter	5,609	LF	\$40	\$224,360	5.8%
R6	12" Spill Curb Edge	181	LF	\$36	\$6,516	0.2%
R7	Curb Return Apron Fillets & Valley Pans	2,285	SF	\$18	\$41,130	1.1%
R8	5' Sidewalk	1,232	SF	\$14	\$17,248	0.4%
R9	On-Site Roads ADA ramps	426	SF	\$14	\$5,964	0.2%
R10	3" Asphaltic Pavement	78	Ton	\$180	\$14,040	0.4%
R11	4" Asphaltic Pavement	2,467	Ton	\$158	\$389,786	10.1%
					\$951,987	24.8%
TRAILS						
T1	Trail 53 Parking Space Site Grading/Subgrade Preparation	1	LS	\$6,000	\$6,000	0.2%
T2	Trail 53 Parking Space - 6" Class 6 ABC	980	Ton	\$41	\$40,180	1.0%
T3	ECO Trail Class 6 ABC	1,036	Ton	\$41	\$42,476	1.1%
T4	ECO Trail 3" Asphalt	472	Ton	\$168	\$79,296	2.1%
T5	ECO Trail ADA ramps	175	SF	\$22	\$3,850	0.1%
T6	ECO Trail Bridge (To be determined)	1	LS	\$75,000	\$75,000	2.0%
T7	Onsite 3' wide Trail (6" Compacted crusher fines over 160N Fabric)	328	LF	\$22	\$7,216	0.2%
				Item Subtotal	\$254,018	6.6%
CONSTRUCTION TOTAL					\$3,841,270	100.0%
OTHER SERVICES & COSTS						
A1	Construction Survey		2.0%		\$76,825	2.0%
A2	Testing (water, sewer, compaction)		2.0%		\$76,825	2.0%
A3	BOND		1.5%		\$57,619	1.5%
A4	Contingency (10%)		10.0%		\$384,127	10.0%
				Item Subtotal	\$595,397	15.5%
TOTAL COSTS					\$4,436,667	