



By: Z.J.S.  
 Date: 6/3/2022  
 Checked By: L.O.G.  
 Date: 6/6/2022

**Engineer's Opinion of Probable Construction Cost**  
**Project: Main tile (½" Drainage Capacity) Improvement for D.D. #14**  
 Location: Section 34, T82N, R22W, Hardin County, Iowa

	ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost	
<b>UPSIZED TILE REPLACEMENT (LOWER - 500 FEET)</b>	<b>CONSTRUCTION COSTS</b>							
	201	18" RCP OR DUAL WALL TILE	\$ 70.00	LF	500	LF	\$ 35,000.00	
	202	INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00	
	203	PRIVATE TILE CONNECTIONS	\$ 700.00	EA	1	EA	\$ 700.00	
	204	CONCRETE COLLARS	\$ 700.00	EA	2	EA	\$ 1,400.00	
	205	LOCATE EXISTING TILE	\$ 4.00	LF	500	LF	\$ 2,000.00	
	206	REMOVAL OF EXISTING TILE	\$ 10.00	LF	500	LF	\$ 5,000.00	
	<b>CONSTRUCTION SUBTOTAL</b>						\$	54,100.00
	Contingency (10%)						\$	5,410.00
	<b>CONSTRUCTION TOTAL</b>						\$	<b>59,510.00</b>
Engr. & Const. Observation (25%)						\$	14,877.50	
<b>TOTAL COST</b>						\$	<b>74,387.50</b>	
<b>UPSIZED TILE REPLACEMENT (LOWER - 2,900 FEET)</b>	<b>CONSTRUCTION COSTS</b>							
	301	18" RCP OR DUAL WALL TILE	\$ 70.00	LF	2900	LF	\$ 203,000.00	
	302	INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00	
	303	PRIVATE TILE CONNECTIONS	\$ 700.00	EA	8	EA	\$ 5,600.00	
	304	CONCRETE COLLARS	\$ 700.00	EA	4	EA	\$ 2,800.00	
	205	LOCATE EXISTING TILE	\$ 4.00	LF	2900	LF	\$ 11,600.00	
	206	REMOVAL OF EXISTING TILE	\$ 10.00	LF	2900	LF	\$ 29,000.00	
	<b>CONSTRUCTION SUBTOTAL</b>						\$	262,000.00
	Contingency (10%)						\$	26,200.00
	<b>CONSTRUCTION TOTAL</b>						\$	<b>288,200.00</b>
Engr. & Const. Observation (25%)						\$	72,050.00	
<b>TOTAL COST</b>						\$	<b>360,250.00</b>	



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**Engineer's Opinion of Probable Construction Cost**  
**Project: Main tile (1" Drainage Capacity) Improvement for D.D. #14**  
 Location: Section 34, T82N, R22W, Hardin County, Iowa

	ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost	
<b>UPSIZED TILE REPLACEMENT (LOWER - 500 FEET)</b>	<b>CONSTRUCTION COSTS</b>							
	401	24" RCP OR DUAL WALL TILE	\$ 80.00	LF	500	LF	\$ 40,000.00	
	402	INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00	
	403	PRIVATE TILE CONNECTIONS	\$ 700.00	EA	1	EA	\$ 700.00	
	404	CONCRETE COLLARS	\$ 700.00	EA	2	EA	\$ 1,400.00	
	405	LOCATE EXISTING TILE	\$ 4.00	LF	500	LF	\$ 2,000.00	
	406	REMOVAL OF EXISTING TILE	\$ 10.00	LF	500	LF	\$ 5,000.00	
			<b>CONSTRUCTION SUBTOTAL</b>					\$ 59,100.00
			Contingency (10%)					\$ 5,910.00
			<b>CONSTRUCTION TOTAL</b>					<b>\$ 65,010.00</b>
		Engr. & Const. Observation (25%)					\$ 16,252.50	
		<b>TOTAL COST</b>					<b>\$ 81,262.50</b>	
<b>UPSIZED TILE REPLACEMENT (LOWER - 2,900 FEET)</b>	<b>CONSTRUCTION COSTS</b>							
	501	24" RCP OR DUAL WALL TILE	\$ 80.00	LF	2900	LF	\$ 232,000.00	
	502	INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00	
	503	PRIVATE TILE CONNECTIONS	\$ 700.00	EA	8	EA	\$ 5,600.00	
	504	CONCRETE COLLARS	\$ 700.00	EA	4	EA	\$ 2,800.00	
	205	LOCATE EXISTING TILE	\$ 4.00	LF	2900	LF	\$ 11,600.00	
	206	REMOVAL OF EXISTING TILE	\$ 10.00	LF	2900	LF	\$ 29,000.00	
			<b>CONSTRUCTION SUBTOTAL</b>					\$ 291,000.00
			Contingency (10%)					\$ 29,100.00
			<b>CONSTRUCTION TOTAL</b>					<b>\$ 320,100.00</b>
		Engr. & Const. Observation (25%)					\$ 80,025.00	
		<b>TOTAL COST</b>					<b>\$ 400,125.00</b>	