

## Riverside Drive - Retaining Wall Replacements Village of North Hudson, WI

Cedar Corporation Opinion of Probable Costs  
Date: 4-14-16  
Estimate Prepared By: KRO



### Lower Driveway Retaining Wall Replacement

**Assumptions:** Approx 85 linear feet of wall replacement with an average height of 6 feet  
No sheet piling required to stabilize upper retaining wall  
No handrail included at top of wall

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
REMOVE EXISTING COLLAPSED WALL	L.S.	1	\$3,500.00	\$3,500.00
MSE RETAINING WALL	S.F.	570	\$60.00	\$34,200.00
6" CRUSHED AGGREGATE BASE	C.Y.	25	\$30.00	\$750.00
SUBTOTAL				\$38,450.00
CONTINGENCY - 5%				\$1,920.00
<b>TOTAL ESTIMATED COST</b>				<b>\$40,370.00</b>

### Upper Driveway Retaining Wall Replacement

#### Option 1 - MSE Wall

**Assumptions:** Approx 125 linear feet of wall replacement with an average height of 6 1/2 feet  
Remove and replace existing guard rail  
Sheet piling behind existing curb & gutter during construction  
Adequate spacing for geo-grid  
No repairs required to roadway

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
REMOVE EXISTING RETAINING WALL	L.S.	1	\$7,500.00	\$7,500.00
STEEL SHEET PILING	S.F.	900	\$60.00	\$54,000.00
REMOVE AND REPLACE EXISTING GUARD RAIL	L.S.	1	\$10,000.00	\$10,000.00
MSE RETAINING WALL	S.F.	900	\$60.00	\$54,000.00
RESTORATION	S.Y.	200	\$4.00	\$800.00
SUBTOTAL				\$126,300.00
CONTINGENCY - 5%				\$6,320.00
<b>TOTAL ESTIMATED COST</b>				<b>\$132,620.00</b>

#### Option 2 - Steel Sheet Piling

**Assumptions:** Approx 125 linear feet of wall replacement with an average height of 6 1/2 feet  
Leave existing retaining wall in-place and install steel sheet piling in front  
Install pea gravel for drainage between sheet piling and existing wall

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
STEEL SHEET PILING	S.F.	1500	\$60.00	\$90,000.00
PEA GRAVEL	C.Y.	50	\$30.00	\$1,500.00
RESTORATION	S.Y.	200	\$4.00	\$800.00
SUBTOTAL				\$92,300.00
CONTINGENCY - 5%				\$4,620.00
<b>TOTAL ESTIMATED COST</b>				<b>\$96,920.00</b>

#### Option 3 - Soldier Pile Wall

**Assumptions:** Approx 125 linear feet of wall replacement with an average height of 6 1/2 feet  
Leave existing retaining wall in-place and install soldier pile wall in front  
Install pea gravel for drainage between soldier piling and existing wall

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
SOLDIER PILE WALL	S.F.	900	\$170.00	\$153,000.00
PEA GRAVEL	C.Y.	50	\$30.00	\$1,500.00
RESTORATION	S.Y.	200	\$4.00	\$800.00
SUBTOTAL				\$155,300.00
CONTINGENCY - 5%				\$7,770.00
<b>TOTAL ESTIMATED COST</b>				<b>\$163,070.00</b>

### Retaining Wall along North Side of Galahad Road

**Assumptions:** Approximately 275 linear feet of wall replacement with an average height of 5 feet

ITEM	UNIT	QUANTITY	UNIT PRICE	COST
REMOVE EXISTING RETAINING WALL	L.S.	1	\$7,500.00	\$7,500.00
MSE RETAINING WALL	S.F.	1500	\$60.00	\$90,000.00
SUBTOTAL				\$97,500.00
CONTINGENCY - 5%				\$4,880.00
<b>TOTAL ESTIMATED COST</b>				<b>\$102,380.00</b>