

Improved Project Request

COMPLETED PROJECTS

Grade Raise	Project 1 Wink Grade (Site 4-S)			Project 2 Gandrud Grade (11-S)			Project 3 Terry Stave Grade (10-S)		
	Length	975 ft		1350 ft			735 ft		
Width	22 ft			22 ft			22 ft		
Height of existing road	5.5 ft			4 ft			5.3 ft		
Raise	1 ft			1 ft			1 ft		
Slope 1 Length	13 ft			10 ft			18.9 ft		
Slope Ratio	2			2			3		
Existing Slope	8 ft			8 ft			8 ft		
Finish Surface Gravel Depth	0.5 ft			0.5 ft			0.5 ft		
Ft <sup>3</sup> /Yd	27			27			27		
Cost Pit Run	\$ 20.00 yd			\$ 20.00 yd			\$ 20.00 yd		
Cost Gravel	\$ 24.00 yd			\$ 24.00 yd			\$ 24.00 yd		
Cost Rip Rap	\$ 61.00 yd			\$ 61.00 yd			\$ 61.00 yd		
Yards/Load	20 yd			20 yd			20 yd		
Pit Run Surface	794 yds		40.00 loads	1100.00 yds		55.00 loads	598.89 yds		30.00 loads
Pit Run Slopes	2289 yds		115.00 loads	1750.00 yds		88.00 loads	2431.01 yds		122.00 loads
Pit Run Each Side	1144 yds		58.00 loads	875.00 yds		44.00 loads	1215.51 yds		61.00 loads
Pit Run Total	3083 yds	\$ 61,659.72		2850 yds	\$ 57,000.00		3030 yds	\$ 60,598.03	
Gravel	397 yds		20 loads	550 yds		28 loads	299 yds		15 loads
Gravel Total	\$ 9,533.33			\$ 13,200.00			\$ 7,186.67		
Rip Rap Each Slope	235 yds		11.74 loads	250 yds		12.50 loads	257 yds		12.86 loads
Rip Rap Total	469 yds		23.47 loads	500 yds		25.00 loads	515 yds		25.73 loads
	\$ 28,636.11			\$ 30,500.00			\$ 31,384.50		
Sub Total	\$ 99,829.17			\$ 100,700.00			\$ 99,169.19		
Total	\$ 299,698.36								

### Improved Project Request

NOT COMPLETED

Grade Raise		Project 4 East Quigly Grade (7-5)		Project 5 Midbow Grade (8-5)		Project 6 Alvstad Grade (14-5)			
Length	875 ft			750 ft			900 ft		
Width	22 ft			22 ft			22 ft		
Height of existing road	5 ft			5 ft			5 ft		
Raise	3 ft			1 ft			2 ft		
Slope 1 Length	24 ft			18 ft			21 ft		
Slope Ratio	3			3			3		
Existing Slope	4 ft	4 ft	4 ft	4 ft					
Finish Surface Gravel Depth	0.5 ft	0.5 ft	0.5 ft	0.5 ft					
Ft <sup>3</sup> /Yd	27	27	27	27					
Cost Pit Run	\$ 30.00 yd	\$ 20.00 yd	\$ 30.00 yd	\$ 30.00 yd					
Cost Gravel	\$ 24.00 yd	\$ 24.00 yd	\$ 24.00 yd	\$ 24.00 yd					
Cost Rip Rap	\$ 61.00 yd	\$ 61.00 yd	\$ 61.00 yd	\$ 61.00 yd					
Yards/Load	20 yd	20 yd	20 yd	20 yd					
Pit Run Surface	2140.00 yds	107.00 loads	620.00 yds	31.00 loads	1480.00 yds	74.00 loads			
Pit Run Slopes	6240.00 yds	312.00 loads	3000.00 yds	150.00 loads	4900.00 yds	245.00 loads			
Pit Run Each Side	3120.00 yds	156.00 loads	1500.00 yds	75.00 loads	2450.00 yds	123.00 loads			
Pit Run Total	8380 yds	\$ 251,400.00	3620 yds	\$ 72,400.00	6380 yds	\$ 191,400.00			
Gravel	360 yds	18 loads	320 yds	16 loads	380 yds	19 loads			
Gravel Total	\$ 8,640.00		\$ 7,680.00		\$ 9,120.00				
Rip Rap Each Slope	800 yds	40 loads	500 yds	25 loads	700 yds	35 loads			
Rip Rap Total	1600 yds	80 loads	1000 yds	50 loads	1400 yds	70 loads			
	\$ 97,600.00		\$ 61,000.00		\$ 85,400.00				
Sub Total	\$ 357,640.00		\$ 141,080.00		\$ 285,920.00				
Total	\$ 784,640.00								

STAVE TOWNSHIP  
Mountrail County  
T157 North, Range 88 West 5th P.M.  
29 miles of Gravel Roads

Road Data	Project 1 - Road Reconstruct 66th Ave: 1/2 mi N & S from 69th St		Project 2 - Gravel 1 mi 65 th Ave, 71st St to 72nd		Project 3 - Gravel 10 mi	
	Length	5280 ft	Length	5280 ft	Length	5280 ft
Width	22 ft		22 ft		22 ft	
Height of existing road	0.5 ft		4 ft		5.3 ft	
Raise	1 ft		0 ft		0 ft	
Slope Length	3 ft		0 ft		0 ft	
Existing Slope	8 ft		0 ft		0 ft	
Finish Surface Gravel Depth	0.5 ft		0.25 ft		0.25 ft	
Cost Pit Run	\$ 20.00 yd		\$ 20.00 yd		\$ 20.00 yd	
Cost Gravel	\$ 24.00 yd		\$ 24.00 yd		\$ 24.00 yd	
Yards/load	20 yd		20 yd		20 yd	
Pit Run Surface	4302 yds	216.00 loads	0.00 yds	0.00 loads	0.00 yds	0.00 loads
Pit Run Slopes	660 yds	33.00 loads	0.00 yds	0.00 loads	0.00 yds	0.00 loads
Pit Run Each Side	330 yds	17.00 loads	0.00 yds	0.00 loads	0.00 yds	0.00 loads
Total Pit Run	4962 yds	99,244.44	0 yds	-	0 yds	-
Gravel	2151 yds	108 loads	1076 yds	54 loads	10756 yds	538 loads
	\$	51,626.67	\$	25,813.33	\$	258,133.33
<b>Sub Total</b>		<b>\$ 150,871.11</b>		<b>\$ 25,813.33</b>		<b>\$ 258,133.33</b>
<b>Total</b>		<b>\$ 434,817.78</b>				

Materials Only  
Estimate Delivered

Wayne Goettel