



CITY of NOVI CITY COUNCIL

Agenda Item **M**
September 28, 2009

SUBJECT: Approval of Change Order No. 1 for the 2009 Pathway Gap Program to Audia Concrete Construction, Inc. in the amount of \$20,828.12 for the construction of Alternate 1 (new sidewalk within the Licari Easement) and Alternate 2 (ramp improvements at Haggerty/Ten Mile intersection).

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division *BTC*

CITY MANAGER APPROVAL: *[Signature]* *R79*

EXPENDITURE REQUIRED	\$20,828.12 (Haggerty Road - Includes Alternate 1 & 2)
AMOUNT BUDGETED	\$52,000 (FY09-10)
APPROPRIATION REQUIRED	\$26,500 (Funded by surplus budget of \$18,401 from other 2009 Pathway Segments and \$8,099 participation by the City of Farmington Hills)
LINE ITEM NUMBER	204-204.00-974.412 (Haggerty Road)

BACKGROUND INFORMATION:

The 2009 Pathway Gap project was awarded on June 1, 2009 to Audia Concrete Construction Inc. The purpose of the project is to construct six gaps in the Novi pathway system totaling approximately 3,100 linear feet along portions of Ten Mile Road (north side just west of Haggerty), Haggerty Road (between Ten Mile Road and Nine Mile Road), Eleven Mile Road (south side between Taft and Clark) and Clark Street (north of Eleven Mile).

The project was bid with two alternates in addition to the base bid. Alternate 1, the northernmost Haggerty Road segment, includes a pathway along the Haggerty Road frontage of the shopping plaza at the southwest corner of Haggerty Road and Ten Mile Road. Alternate 2 includes the sidewalk ramp upgrades for the intersection of Haggerty and Ten Mile in all four quadrants (which includes cost sharing from Farmington Hills). Alternate 1 could not be constructed without an easement from the Licari Trust Parcel (southwest corner of Haggerty/Ten Mile). The intersection improvements at Haggerty and Ten Mile also had to be deferred until the easement had been obtained due to pathway connectivity in the intersection (ramps must have a receiving ramp on the opposite side of the street). Now that the easement has been secured (see easement acceptance item, also on this agenda), the remainder of the work can now be completed. The locations of Alternates 1 and 2 are shown on the attached map.

Based on Audia's performance throughout construction so far this year, it is recommended that the Alternates 1 and 2 be awarded to Audia. The attached change order from Audia has been approved by the Engineering Division. Audia is proposing the same unit costs as proposed in the original bid for the alternates. The change order also includes \$1,170 in additional curb and gutter construction that was identified as necessary in the field.

Once approved, construction could begin early October and could be completed in November 2009. The other segments were constructed early this summer and are nearing completion.

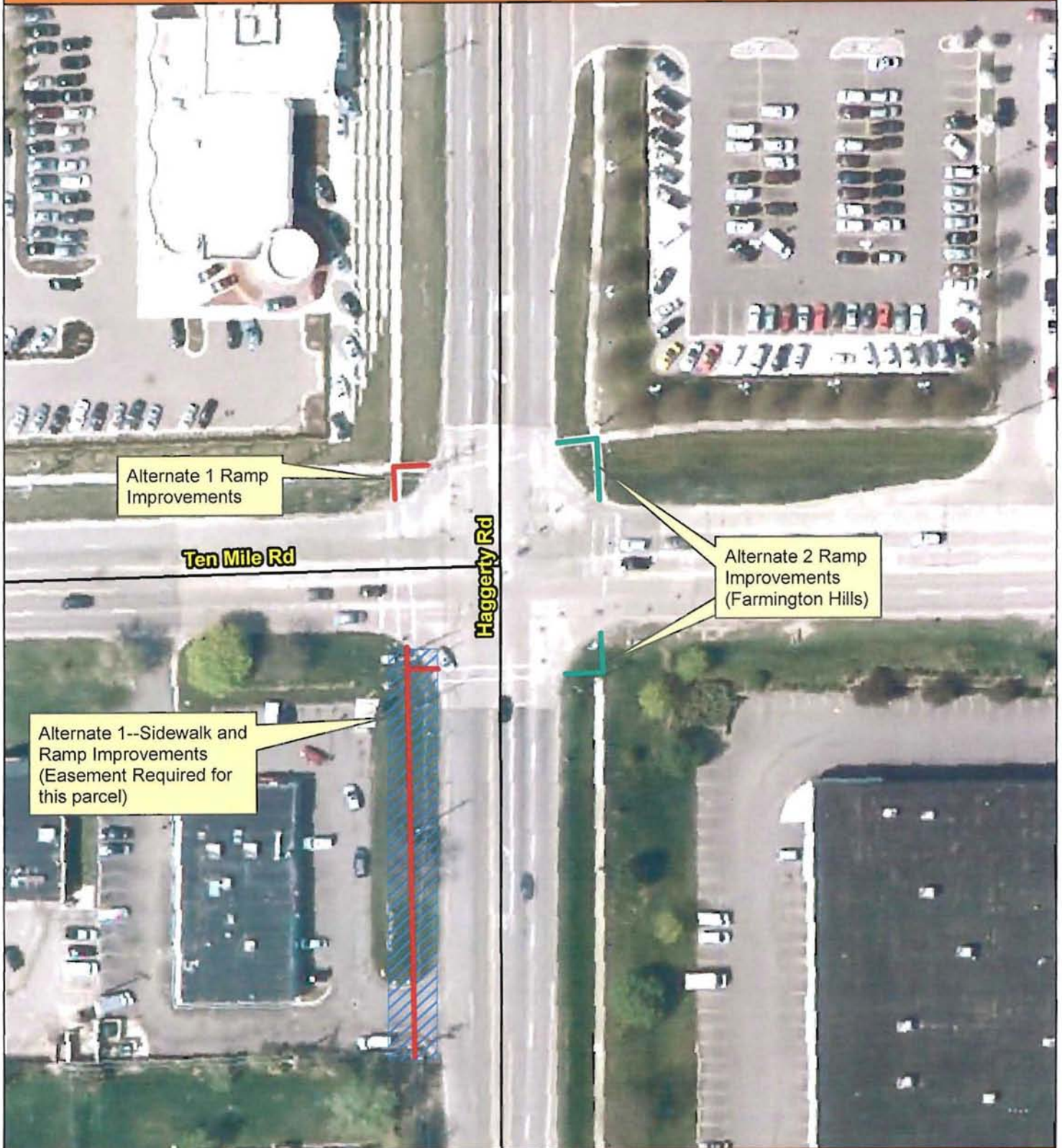
RECOMMENDED ACTION: Approval of Change Order No. 1 for the 2009 Pathway Gap Program to Audia Concrete Construction, Inc. in the amount of \$20,828.12 for the construction of Alternate 1 (new sidewalk within the Licari Easement) and Alternate 2 (ramp improvements at Haggerty/Ten Mile intersection).

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Burke				
Council Member Crawford				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

Map Showing Easement Area and Alternates 1 and 2

2009 Pathways Program



Alternate 1 Ramp Improvements

Ten Mile Rd

Haggerty Rd

Alternate 2 Ramp Improvements (Farmington Hills)

Alternate 1--Sidewalk and Ramp Improvements (Easement Required for this parcel)

CITY OF NOVI
 ENGINEERING DIVISION
 45475 W. TEN MILE RD
 NOVI, MI 48375-3024
 (248) 347-0454
 MAP AUTHOR: Brian Coburn, PE



MAP INTERPRETATION NOTICE
 Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

CITY OF NOVI
 2009 PATHWAY CONSTRUCTION
 PROJECT No. NV09-005
 CONTRACT CHANGE ORDER No. 1

Owner: City of Novi
 45175 West Ten Mile Road
 Novi, MI 48375
 Phone: (248) 347-0454
 Fax: (248) 735-5683

Contractor: Audia Concrete Construction, Inc.
 2985 Childs Lake
 Milford, MI 48381
 Phone: (248) 676-9570
 Fax: (248) 676-9520

 Upon execution by the Owner's representative, the following changes in the Contract Documents will be authorized.

Item No.	Description of Changes	Quantity	Unit	Unit Price	Decrease in Contract Price	Increase in Contract Price
Project No. 3 - Alternate No. 1 - Haggerty South of Ten Mile Gap						
93-1	Mobilization (5% Maximum)	1	LS	\$ 300.00	\$	300.00
94-1	Pre-construction audio-visual	1	LS	\$ 100.00	\$	100.00
95-1	Soil Erosion and Sedimentation Control	1	LS	\$ 400.00	\$	400.00
96-1	Maintaining Traffic	1	LS	\$ 700.00	\$	700.00
97-1	Clearing and Grubbing	25	Lft	\$ 12.00	\$	300.00
98-1	Tree, Rem, 8 inch to 18 inch	1	Ea	\$ 600.00	\$	600.00
99-1	Pavement, Remove	30	Syd	\$ 9.00	\$	270.00
100-1	Curb and Gutter, Rem	45	Lft	\$ 10.00	\$	450.00
101-1	Curb and Gutter, Conc, Det C4	45	Lft	\$ 18.00	\$	810.00
102-1	Sidewalk, Rem	32	Syd	\$ 9.00	\$	288.00
103-1	Pathway Grading	240	Lft	\$ 3.90	\$	936.00
104-1	Aggregate Base, 6 inch	190	Syd	\$ 2.25	\$	427.50
105-1	4-inch Concrete Sidewalk	1300	Sft	\$ 2.40	\$	3,120.00
106-1	6-inch Concrete Driveway	270	Sft	\$ 2.60	\$	702.00
107-1	ADA Compliant Sidewalk Ramp	305	Sft	\$ 3.00	\$	915.00
108-1	ADA Detectable Warning Plate	40	Sft	\$ 20.00	\$	800.00
109-1	Drainage Modifications	1	LS	\$ 2,800.00	\$	2,800.00
110-1	Regrade Ditch	50	Lft	\$ 10.00	\$	500.00
111-1	Seeding and Mulching	320	Syd	\$ 2.85	\$	912.00
Subtotal - Project No. 3 - Alternate No. 1					\$ -	\$ 15,330.50
Project No. 3 - Alternate No. 2 - Farmington Hills Ramps						
112-1	Mobilization (5% Maximum)	1	LS	\$ 100.00	\$	100.00
113-1	Pre-construction audio-visual	1	LS	\$ 50.00	\$	50.00
114-1	Soil Erosion and Sedimentation Control	1	LS	\$ 100.00	\$	100.00
115-1	Curb and Gutter, Rem	20	Lft	\$ 10.00	\$	200.00
116-1	Curb and Gutter, Conc, Det C4	20	Lft	\$ 18.00	\$	360.00
117-1	Sidewalk, Rem	50	Syd	\$ 9.00	\$	450.00
118-1	Pathway Grading	48	Lft	\$ 8.44	\$	405.12
119-1	Aggregate Base, 6 inch	90	Syd	\$ 2.25	\$	202.50
120-1	4-inch Concrete Sidewalk	500	Sft	\$ 2.40	\$	1,200.00
121-1	ADA Compliant Sidewalk Ramp	220	Sft	\$ 3.00	\$	660.00
122-1	ADA Detectable Warning Plate	40	Sft	\$ 20.00	\$	800.00
123-1	Dr Structure Cover, Adj, Case 1	1	Ea	\$ 400.00	\$	400.00
124-1	Seeding and Mulching	200	Syd	\$ 2.85	\$	570.00
Subtotal - Project No. 3 - Alternate No. 2					\$ -	\$ 5,497.62

Prepared by Spalding DeDecker Associates, Inc.
 9/18/2009

CITY OF NOVI
 2009 PATHWAY CONSTRUCTION
 PROJECT No. NV09-005
 CONTRACT CHANGE ORDER No. 1

Total Decrease / Increase in Contract Amount	\$	-	\$	20,828.12
Net Increase in Contract Amount			\$	20,828.12
Former Contract Amount			\$	144,485.68
Adjusted Contract Amount to Date			\$	165,313.80

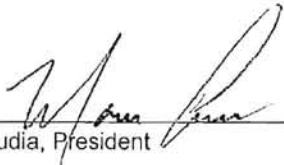
The time provided for completion of the Contract is unchanged.
 This document shall become an Amendment to the Contract and all provisions of the Contract will apply hereto.

Item No.	Justification
93-1 thru 111-1 112-1 thru 124-1	} Project 3 Alternatives 1 and 2 requested by City
101-1	Curb and Gutter replacement requested by City on all Projects
116-1	Curb and Gutter replacement requested by City on all Projects

CITY OF NOVI
2009 PATHWAY CONSTRUCTION
PROJECT No. NV09-005
CONTRACT CHANGE ORDER No. 1

Audia Concrete Construction, Inc.
2985 Childs Lake
Milford, MI 48382

Accepted by
Contractor:



Mario Audia, President

Date: 9-18-09

Spalding DeDecker Associates, Inc.
905 South Boulevard East
Rochester Hills, MI 48307

Recommended by
Engineer:



Ted Meadows, Contract Administrator

Date: 9/18/09

Department of Public Services
Field Services Complex
26300 Delwal Drive
Novi, MI 48375

Approved by
Owner:



Brian Coburn, PE, Senior Civil Engineer

Date: 9/29/09



SPALDING DeDECKER ASSOCIATES, INC.

905 South Boulevard East • Rochester Hills • Michigan 48307 • Tel 248 844 5400 • Fax 248 844 5404

Project: Novi 2009 Pathways Construction
 Location: City of Novi; Various sites
 Work: Construct 5' or 8' concrete pathway in gaps
 within network; add or improve ramps at intersections

Date: 5/20/2009
 Project No. RB08-014
 By: DPE
 Reviewed:

BID TABULATION

Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
Project 1 - South side of Eleven Mile Road - Taft to Cedar Springs (~1,330 LFT)															
1	Mobilization (5% Maximum)	1	LS	3,293.60	\$ 3,293.60	500.00	\$ 500.00	1,400.00	\$ 1,400.00	2,850.00	\$ 2,850.00	3,800.00	\$ 3,800.00	1,400.00	\$ 1,400.00
2	Pre-construction audio-visual	1	LS	1,000.00	\$ 1,000.00	1,185.00	\$ 1,185.00	450.00	\$ 450.00	1,185.00	\$ 1,185.00	1,300.00	\$ 1,300.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	2,000.00	\$ 2,000.00	1,500.00	\$ 1,500.00	500.00	\$ 500.00	200.00	\$ 200.00	2,000.00	\$ 2,000.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	2,500.00	\$ 2,500.00	700.00	\$ 700.00	2,100.00	\$ 2,100.00	1,000.00	\$ 1,000.00	7,300.00	\$ 7,300.00	3,000.00	\$ 3,000.00
5	Tree Protection	9	EA	250.00	\$ 2,250.00	50.00	\$ 450.00	100.00	\$ 900.00	100.00	\$ 900.00	42.22	\$ 379.98	200.00	\$ 1,800.00
6	Pavement, Rem	325	SYD	10.00	\$ 3,250.00	9.00	\$ 2,925.00	5.85	\$ 1,901.25	9.00	\$ 2,925.00	4.20	\$ 1,365.00	40.00	\$ 13,000.00
7	Curb and Gutter, Rem	50	LF	10.00	\$ 500.00	10.00	\$ 500.00	26.00	\$ 1,300.00	5.00	\$ 250.00	3.70	\$ 185.00	30.00	\$ 1,500.00
8	Sidewalk, Rem	9	SYD	8.00	\$ 72.00	9.00	\$ 81.00	18.00	\$ 162.00	9.00	\$ 81.00	19.00	\$ 171.00	40.00	\$ 360.00
9	Pathway Grading	1240	LFT	4.00	\$ 4,960.00	4.00	\$ 4,960.00	2.50	\$ 3,100.00	4.00	\$ 4,960.00	8.80	\$ 10,912.00	5.00	\$ 6,200.00
10	Aggregate Base, 6 inch	1150	SYD	6.00	\$ 6,900.00	2.25	\$ 2,587.50	4.50	\$ 5,175.00	6.00	\$ 6,900.00	8.30	\$ 9,545.00	16.00	\$ 18,400.00
11	4-inch Concrete Sidewalk	6250	SFT	3.00	\$ 18,750.00	2.40	\$ 15,000.00	2.60	\$ 16,250.00	2.50	\$ 15,625.00	3.14	\$ 19,625.00	4.00	\$ 25,000.00
12	6-inch Concrete Driveway	3200	SFT	4.00	\$ 12,800.00	2.50	\$ 8,320.00	3.00	\$ 9,600.00	3.00	\$ 9,600.00	3.70	\$ 11,840.00	6.00	\$ 19,200.00
13	ADA Compliant Sidewalk Ramp	420	SFT	4.00	\$ 1,680.00	3.00	\$ 1,260.00	2.80	\$ 1,176.00	6.25	\$ 2,625.00	6.60	\$ 2,772.00	6.00	\$ 2,520.00
14	ADA Detectable Warning Plate	32	SFT	30.00	\$ 960.00	20.00	\$ 640.00	22.00	\$ 704.00	25.00	\$ 800.00	34.00	\$ 1,088.00	30.00	\$ 960.00
15	Drainage Modifications	1	LS	2,500.00	\$ 2,500.00	2,800.00	\$ 2,800.00	3,300.00	\$ 3,300.00	1,500.00	\$ 1,500.00	3,400.00	\$ 3,400.00	3,000.00	\$ 3,000.00
16	Regrade Ditch	50	LFT	3.00	\$ 150.00	10.00	\$ 500.00	10.00	\$ 500.00	10.00	\$ 500.00	19.00	\$ 950.00	20.00	\$ 1,000.00
17	Dr Structure Cover, Adj, Case 1	2	EA	400.00	\$ 800.00	400.00	\$ 800.00	400.00	\$ 800.00	250.00	\$ 500.00	250.00	\$ 500.00	300.00	\$ 600.00
18	Dr Structure Cover, Adj, Case 2	1	EA	300.00	\$ 300.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	340.00	\$ 340.00	300.00	\$ 300.00
19	Seeding and Mulching	1500	SYD	3.00	\$ 4,500.00	2.85	\$ 4,275.00	2.00	\$ 3,000.00	3.00	\$ 4,500.00	3.20	\$ 4,800.00	10.00	\$ 15,000.00
Total - Project 1:					\$ 69,165.60		\$ 49,383.50		\$ 52,718.25		\$ 57,151.00		\$ 82,272.98		\$ 117,240.00
Project 2 - North side of Ten Mile Road, west of Haqqerty (~300 LFT)															
1	Mobilization (5% Maximum)	1	LS	530.50	\$ 530.50	100.00	\$ 100.00	1,400.00	\$ 1,400.00	500.00	\$ 500.00	700.00	\$ 700.00	1,000.00	\$ 1,000.00
2	Pre-construction audio-visual	1	LS	250.00	\$ 250.00	725.00	\$ 725.00	150.00	\$ 150.00	725.00	\$ 725.00	825.00	\$ 825.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	500.00	\$ 500.00	300.00	\$ 300.00	100.00	\$ 100.00	250.00	\$ 250.00	190.00	\$ 190.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	500.00	\$ 500.00	700.00	\$ 700.00	400.00	\$ 400.00	500.00	\$ 500.00	1,660.00	\$ 1,660.00	3,000.00	\$ 3,000.00
5	Curb and Gutter, Rem	8	LF	10.00	\$ 80.00	10.00	\$ 80.00	26.00	\$ 208.00	5.00	\$ 40.00	23.00	\$ 184.00	30.00	\$ 240.00
6	Pathway Grading	310	LFT	4.00	\$ 1,240.00	3.80	\$ 1,178.00	2.50	\$ 775.00	5.00	\$ 1,550.00	5.70	\$ 1,767.00	5.00	\$ 1,550.00
7	Aggregate Base, 6 inch	190	SYD	6.00	\$ 1,140.00	2.25	\$ 427.50	4.50	\$ 855.00	6.00	\$ 1,140.00	8.00	\$ 1,520.00	16.00	\$ 3,040.00
8	4-inch Concrete Sidewalk	1520	SFT	3.00	\$ 4,560.00	2.40	\$ 3,648.00	2.60	\$ 3,952.00	2.50	\$ 3,800.00	3.14	\$ 4,772.80	4.00	\$ 6,080.00
9	ADA Compliant Sidewalk Ramp	35	SFT	4.00	\$ 140.00	3.00	\$ 105.00	2.80	\$ 98.00	6.25	\$ 218.75	9.20	\$ 322.00	6.00	\$ 210.00



Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
10	Dr Structure Cover, Adj, Case 1	1	EA	400.00	\$ 400.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	630.00	\$ 630.00	300.00	\$ 300.00
11	Dr Structure Cover, Adj, Case 2	2	EA	300.00	\$ 600.00	400.00	\$ 800.00	400.00	\$ 800.00	250.00	\$ 500.00	730.00	\$ 1,460.00	300.00	\$ 600.00
12	Seeding and Mulching	400	SYD	3.00	\$ 1,200.00	2.85	\$ 1,140.00	2.00	\$ 800.00	3.00	\$ 1,200.00	3.50	\$ 1,400.00	10.00	\$ 4,000.00
Total - Project 2:					\$ 11,140.50		\$ 9,603.50		\$ 9,938.00		\$ 10,673.75		\$ 15,430.80		\$ 24,020.00
Project 3 - Base Bid - Haggerty, segments from Village Woods to Ten Mile (~1,160 LFT)															
1	Mobilization (5% Maximum)	1	LS	3,465.95	\$ 3,465.95	567.67	\$ 567.67	2,500.00	\$ 2,500.00	3,000.00	\$ 3,000.00	3,300.00	\$ 3,300.00	6,000.00	\$ 6,000.00
2	Pre-construction audio-visual	1	LS	1,500.00	\$ 1,500.00	950.00	\$ 950.00	350.00	\$ 350.00	925.00	\$ 925.00	1,020.00	\$ 1,020.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	1,500.00	\$ 1,500.00	800.00	\$ 800.00	400.00	\$ 400.00	600.00	\$ 600.00	950.00	\$ 950.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	5,000.00	\$ 5,000.00	700.00	\$ 700.00	2,000.00	\$ 2,000.00	1,500.00	\$ 1,500.00	8,000.00	\$ 8,000.00	3,000.00	\$ 3,000.00
5	Clearing and Grubbing	195	LFT	7.00	\$ 1,365.00	9.00	\$ 1,755.00	5.00	\$ 975.00	5.00	\$ 975.00	5.90	\$ 1,150.50	15.00	\$ 2,925.00
6	Tree, Rem, 8 inch to 18 inch	1	EA	400.00	\$ 400.00	600.00	\$ 600.00	1,000.00	\$ 1,000.00	500.00	\$ 500.00	860.00	\$ 860.00	400.00	\$ 400.00
7	Curb and Gutter, Rem	75	LF	10.00	\$ 750.00	10.00	\$ 750.00	26.00	\$ 1,950.00	5.00	\$ 375.00	10.30	\$ 772.50	30.00	\$ 2,250.00
8	Sidewalk, Rem	14	SYD	8.00	\$ 112.00	9.00	\$ 126.00	18.00	\$ 252.00	9.00	\$ 126.00	14.40	\$ 201.60	40.00	\$ 560.00
9	Pathway Grading	900	LFT	4.00	\$ 3,600.00	2.80	\$ 2,520.00	2.50	\$ 2,250.00	6.00	\$ 5,400.00	11.30	\$ 10,170.00	5.00	\$ 4,500.00
10	Aggregate Base, 6 inch	495	SYD	6.00	\$ 2,970.00	2.25	\$ 1,113.75	4.50	\$ 2,227.50	6.00	\$ 2,970.00	9.00	\$ 4,455.00	16.00	\$ 7,920.00
11	4-inch Concrete Sidewalk	4000	SFT	3.00	\$ 12,000.00	2.40	\$ 9,600.00	2.60	\$ 10,400.00	2.50	\$ 10,000.00	3.60	\$ 14,400.00	4.00	\$ 16,000.00
12	ADA Compliant Sidewalk Ramp	520	SFT	4.00	\$ 2,080.00	3.00	\$ 1,560.00	2.80	\$ 1,456.00	6.25	\$ 3,250.00	7.60	\$ 3,952.00	6.00	\$ 3,120.00
13	ADA Detectable Warning Plate	100	SFT	30.00	\$ 3,000.00	20.00	\$ 2,000.00	22.00	\$ 2,200.00	25.00	\$ 2,500.00	35.00	\$ 3,500.00	30.00	\$ 3,000.00
14	ADA Detectable Warning Plate, Retrofit	40	SFT	15.00	\$ 600.00	25.00	\$ 1,000.00	22.00	\$ 880.00	50.00	\$ 2,000.00	49.00	\$ 1,960.00	30.00	\$ 1,200.00
15	Regrade Ditch	75	LFT	3.00	\$ 225.00	10.00	\$ 750.00	10.00	\$ 750.00	10.00	\$ 750.00	15.00	\$ 1,125.00	20.00	\$ 1,500.00
16	Dr Structure Cover, Adj, Case 1	1	EA	400.00	\$ 400.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	380.00	\$ 380.00	300.00	\$ 300.00
17	Culv, CI A, Conc, 15 inch	16	LFT	35.00	\$ 560.00	40.00	\$ 640.00	100.00	\$ 1,600.00	40.00	\$ 640.00	46.00	\$ 736.00	40.00	\$ 640.00
18	Culv, End Sect, Conc, 15 inch	2	EA	300.00	\$ 600.00	400.00	\$ 800.00	250.00	\$ 500.00	450.00	\$ 900.00	330.00	\$ 660.00	150.00	\$ 300.00
19	Wooden Pedestrian Railing	24	LFT	25.00	\$ 600.00	15.00	\$ 360.00	15.00	\$ 360.00	25.00	\$ 600.00	18.00	\$ 432.00	36.00	\$ 864.00
20	Cold Plastic Overlay, 6 inch	272	LFT	6.00	\$ 1,632.00	4.58	\$ 1,245.76	10.00	\$ 2,720.00	3.00	\$ 816.00	9.20	\$ 2,502.40	20.00	\$ 5,440.00
21	Seeding and Mulching	1380	SYD	3.00	\$ 4,140.00	2.85	\$ 3,933.00	2.00	\$ 2,760.00	3.00	\$ 4,140.00	3.40	\$ 4,692.00	10.00	\$ 13,800.00
22	TS, Pedestrian, Bracket Arm Mtd, Rem	4	EA	200.00	\$ 800.00	115.00	\$ 460.00	110.00	\$ 440.00	100.00	\$ 400.00	110.00	\$ 440.00	130.00	\$ 520.00
23	Pushbutton, Rem	2	EA	200.00	\$ 400.00	115.00	\$ 230.00	110.00	\$ 220.00	100.00	\$ 200.00	110.00	\$ 220.00	130.00	\$ 260.00
24	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	1	EA	1,500.00	\$ 1,500.00	1,300.00	\$ 1,300.00	980.00	\$ 980.00	900.00	\$ 900.00	990.00	\$ 990.00	1,170.00	\$ 1,170.00
25	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	4	EA	2,000.00	\$ 8,000.00	1,500.00	\$ 6,000.00	1,700.00	\$ 6,800.00	1,500.00	\$ 6,000.00	1,650.00	\$ 6,600.00	1,950.00	\$ 7,800.00
26	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	1	EA	1,500.00	\$ 1,500.00	1,750.00	\$ 1,750.00	1,000.00	\$ 1,000.00	900.00	\$ 900.00	990.00	\$ 990.00	1,170.00	\$ 1,170.00
27	TS, Pedestrian, Two Way Pedestal Mtd (LED) Countdown	1	EA	2,000.00	\$ 2,000.00	2,200.00	\$ 2,200.00	1,700.00	\$ 1,700.00	1,500.00	\$ 1,500.00	1,650.00	\$ 1,650.00	1,950.00	\$ 1,950.00
28	Pushbutton, Salv	2	EA	500.00	\$ 1,000.00	1,100.00	\$ 2,200.00	220.00	\$ 440.00	200.00	\$ 400.00	220.00	\$ 440.00	260.00	\$ 520.00
29	Conduit, DB, 1, 1 1/4 inch	30	LFT	12.00	\$ 360.00	42.00	\$ 1,260.00	14.00	\$ 420.00	12.00	\$ 360.00	13.20	\$ 396.00	15.60	\$ 468.00
30	Conduit, DB, 1, 3 inch	15	LFT	15.00	\$ 225.00	64.00	\$ 960.00	17.00	\$ 255.00	15.00	\$ 225.00	16.50	\$ 247.50	19.50	\$ 292.50
31	Conduit, Directional Bore, 1, 4 inch	50	LFT	50.00	\$ 2,500.00	60.00	\$ 3,000.00	21.00	\$ 1,050.00	19.00	\$ 950.00	20.90	\$ 1,045.00	24.70	\$ 1,235.00
32	hh, Round	2	EA	1,500.00	\$ 3,000.00	800.00	\$ 1,600.00	780.00	\$ 1,560.00	700.00	\$ 1,400.00	770.00	\$ 1,540.00	910.00	\$ 1,820.00
33	Wood Pole, Fit Up, TS Cable Pole	1	EA	1,000.00	\$ 1,000.00	420.00	\$ 420.00	450.00	\$ 450.00	400.00	\$ 400.00	440.00	\$ 440.00	520.00	\$ 520.00
34	Pushbutton Support Post	2	EA	500.00	\$ 1,000.00	385.00	\$ 770.00	340.00	\$ 680.00	300.00	\$ 600.00	330.00	\$ 660.00	390.00	\$ 780.00
35	Pedestal, Alum, RCOC	1	EA	1,000.00	\$ 1,000.00	800.00	\$ 800.00	780.00	\$ 780.00	700.00	\$ 700.00	770.00	\$ 770.00	910.00	\$ 910.00
36	Pedestal, Fdn	1	EA	500.00	\$ 500.00	710.00	\$ 710.00	780.00	\$ 780.00	700.00	\$ 700.00	770.00	\$ 770.00	910.00	\$ 910.00
37	RCOC Force Account Charges	1500	DLR	1.00	\$ 1,500.00	1.00	\$ 1,500.00	1.10	\$ 1,650.00	1.00	\$ 1,500.00	1.10	\$ 1,650.00	1.30	\$ 1,950.00

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Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
Total - Project 3 - Base Bid:					\$ 72,784.95		\$ 57,331.18		\$ 57,135.50		\$ 59,352.00		\$ 84,067.50		\$ 99,994.50
Alt. No. 1 - Haggerty south of Ten Mile gap															
1	Mobilization (5% Maximum)	1	LS	887.05	\$ 887.05	300.00	\$ 300.00	500.00	\$ 500.00	850.00	\$ 850.00	1,000.00	\$ 1,000.00	1,000.00	\$ 1,000.00
2	Pre-construction audio-visual	1	LS	750.00	\$ 750.00	100.00	\$ 100.00	100.00	\$ 100.00	100.00	\$ 100.00	110.00	\$ 110.00	2,000.00	\$ 2,000.00
3	Soil Erosion and Sedimentation Control	1	LS	1,500.00	\$ 1,500.00	400.00	\$ 400.00	500.00	\$ 500.00	600.00	\$ 600.00	400.00	\$ 400.00	2,000.00	\$ 2,000.00
4	Maintaining Traffic	1	LS	800.00	\$ 800.00	700.00	\$ 700.00	1,000.00	\$ 1,000.00	1.00	\$ 1.00	600.00	\$ 600.00	3,000.00	\$ 3,000.00
5	Clearing and Grubbing	25	LFT	7.00	\$ 175.00	12.00	\$ 300.00	15.00	\$ 375.00	10.00	\$ 250.00	35.00	\$ 875.00	20.00	\$ 500.00
6	Tree, Rem, 8 inch to 18 inch	1	EA	400.00	\$ 400.00	600.00	\$ 600.00	1,200.00	\$ 1,200.00	500.00	\$ 500.00	830.00	\$ 830.00	400.00	\$ 400.00
7	Pavement, Rem	30	SYD	10.00	\$ 300.00	9.00	\$ 270.00	18.00	\$ 540.00	9.00	\$ 270.00	7.80	\$ 234.00	40.00	\$ 1,200.00
8	Curb and Gutter, Rem	45	LF	10.00	\$ 450.00	10.00	\$ 450.00	28.00	\$ 1,260.00	5.00	\$ 225.00	4.10	\$ 184.50	30.00	\$ 1,350.00
9	Sidewalk, Rem	32	SYD	8.00	\$ 256.00	9.00	\$ 288.00	9.00	\$ 288.00	9.00	\$ 288.00	12.80	\$ 409.60	40.00	\$ 1,280.00
10	Pathway Grading	240	LFT	4.00	\$ 960.00	3.90	\$ 936.00	2.75	\$ 660.00	5.00	\$ 1,200.00	11.30	\$ 2,712.00	5.00	\$ 1,200.00
11	Aggregate Base, 6 inch	190	SYD	6.00	\$ 1,140.00	2.25	\$ 427.50	5.40	\$ 1,026.00	6.00	\$ 1,140.00	8.00	\$ 1,520.00	16.00	\$ 3,040.00
12	4-inch Concrete Sidewalk	1300	SFT	3.00	\$ 3,900.00	2.40	\$ 3,120.00	2.65	\$ 3,445.00	2.50	\$ 3,250.00	3.40	\$ 4,420.00	4.00	\$ 5,200.00
13	6-inch Concrete Driveway	270	SFT	4.00	\$ 1,080.00	2.60	\$ 702.00	3.10	\$ 837.00	3.00	\$ 810.00	4.00	\$ 1,080.00	6.00	\$ 1,620.00
14	ADA Compliant Sidewalk Ramp	305	SFT	4.00	\$ 1,220.00	3.00	\$ 915.00	2.85	\$ 869.25	6.25	\$ 1,906.25	7.00	\$ 2,135.00	6.00	\$ 1,830.00
15	ADA Detectable Warning Plate	40	SFT	30.00	\$ 1,200.00	20.00	\$ 800.00	22.00	\$ 880.00	25.00	\$ 1,000.00	34.00	\$ 1,360.00	40.00	\$ 1,600.00
16	Drainage Modifications	1	LS	2,500.00	\$ 2,500.00	2,800.00	\$ 2,800.00	3,400.00	\$ 3,400.00	3,500.00	\$ 3,500.00	1,270.00	\$ 1,270.00	1,500.00	\$ 1,500.00
17	Regrade Ditch	50	LFT	3.00	\$ 150.00	10.00	\$ 500.00	10.00	\$ 500.00	10.00	\$ 500.00	9.50	\$ 475.00	20.00	\$ 1,000.00
18	Seeding and Mulching	320	SYD	3.00	\$ 960.00	2.85	\$ 912.00	2.15	\$ 688.00	3.00	\$ 960.00	3.60	\$ 1,152.00	10.00	\$ 3,200.00
Total - Alt No. 1:					\$ 18,628.05		\$ 14,520.50		\$ 18,068.25		\$ 17,350.25		\$ 20,767.10		\$ 32,920.00
Alt. No. 2 - Farmington Hills Ramps at Haggerty and Ten Mile															
1	Mobilization (5% Maximum)	1	LS	323.10	\$ 323.10	100.00	\$ 100.00	500.00	\$ 500.00	350.00	\$ 350.00	330.00	\$ 330.00	800.00	\$ 800.00
2	Pre-construction audio-visual	1	LS	250.00	\$ 250.00	50.00	\$ 50.00	75.00	\$ 75.00	100.00	\$ 100.00	60.00	\$ 60.00	3,000.00	\$ 3,000.00
3	Soil Erosion and Sedimentation Control	1	LS	500.00	\$ 500.00	100.00	\$ 100.00	400.00	\$ 400.00	600.00	\$ 600.00	150.00	\$ 150.00	2,000.00	\$ 2,000.00
4	Curb and Gutter, Rem	20	LF	10.00	\$ 200.00	10.00	\$ 200.00	27.00	\$ 540.00	5.00	\$ 100.00	9.30	\$ 186.00	30.00	\$ 600.00
5	Sidewalk, Rem	50	SYD	8.00	\$ 400.00	9.00	\$ 450.00	9.00	\$ 450.00	9.00	\$ 450.00	5.50	\$ 275.00	40.00	\$ 2,000.00
6	Pathway Grading	48	LFT	4.00	\$ 192.00	8.44	\$ 405.12	2.50	\$ 120.00	10.00	\$ 480.00	13.60	\$ 652.80	15.00	\$ 720.00
7	Aggregate Base, 6 inch	90	SYD	6.00	\$ 540.00	2.25	\$ 202.50	4.50	\$ 405.00	6.00	\$ 540.00	9.00	\$ 810.00	16.00	\$ 1,440.00
8	4-inch Concrete Sidewalk	500	SFT	3.00	\$ 1,500.00	2.40	\$ 1,200.00	2.65	\$ 1,325.00	2.50	\$ 1,250.00	3.60	\$ 1,800.00	4.00	\$ 2,000.00
9	ADA Compliant Sidewalk Ramp	220	SFT	4.00	\$ 880.00	3.00	\$ 660.00	2.85	\$ 627.00	6.25	\$ 1,375.00	5.10	\$ 1,122.00	6.00	\$ 1,320.00
10	ADA Detectable Warning Plate	40	SFT	25.00	\$ 1,000.00	20.00	\$ 800.00	22.00	\$ 880.00	25.00	\$ 1,000.00	35.00	\$ 1,400.00	40.00	\$ 1,600.00
11	Dr Structure Cover, Adj, Case 1	1	EA	400.00	\$ 400.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	340.00	\$ 340.00	300.00	\$ 300.00
12	Seeding and Mulching	200	SYD	3.00	\$ 600.00	2.85	\$ 570.00	2.00	\$ 400.00	3.00	\$ 600.00	5.40	\$ 1,080.00	10.00	\$ 2,000.00
Total - Alt No. 2 - Farmington Hills portion:					\$ 6,785.10		\$ 5,137.62		\$ 6,122.00		\$ 7,095.00		\$ 8,205.80		\$ 17,780.00
Project 4 - Eleven Mile Gap to Clark; Clark Gap from Eleven Mile north (~600 LFT)															
1	Mobilization (5% Maximum)	1	LS	1,558.00	\$ 1,558.00	300.00	\$ 300.00	400.00	\$ 400.00	1,500.00	\$ 1,500.00	2,000.00	\$ 2,000.00	2,600.00	\$ 2,600.00
2	Pre-construction audio-visual	1	LS	800.00	\$ 800.00	725.00	\$ 725.00	200.00	\$ 200.00	725.00	\$ 725.00	830.00	\$ 830.00	1,000.00	\$ 1,000.00
3	Soil Erosion and Sedimentation Control	1	LS	1,000.00	\$ 1,000.00	700.00	\$ 700.00	500.00	\$ 500.00	100.00	\$ 100.00	800.00	\$ 800.00	1,000.00	\$ 1,000.00
4	Maintaining Traffic	1	LS	2,000.00	\$ 2,000.00	700.00	\$ 700.00	1,500.00	\$ 1,500.00	750.00	\$ 750.00	3,000.00	\$ 3,000.00	6,000.00	\$ 6,000.00

Item No.	Item Description	Est. Quantity	Unit	Engineer's Estimate		Audia Concrete		Koala-T		Goretski Construction		Action Traffic		Italia Construction	
				Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost	Unit Price (\$)	Total Cost
5	Tree Protection	2	EA	250.00	\$ 500.00	100.00	\$ 200.00	100.00	\$ 200.00	100.00	\$ 200.00	180.00	\$ 360.00	200.00	\$ 400.00
6	Clearing and Grubbing	225	LFT	7.00	\$ 1,575.00	9.00	\$ 2,025.00	15.00	\$ 3,375.00	5.00	\$ 1,125.00	9.00	\$ 2,025.00	16.00	\$ 3,600.00
7	Tree, Rem, 8 inch to 18 inch	1	EA	400.00	\$ 400.00	600.00	\$ 600.00	1,200.00	\$ 1,200.00	500.00	\$ 500.00	862.00	\$ 862.00	400.00	\$ 400.00
8	Pavement, Rem	25	SYD	10.00	\$ 250.00	9.00	\$ 225.00	18.00	\$ 450.00	9.00	\$ 225.00	6.80	\$ 170.00	40.00	\$ 1,000.00
9	Curb and Gutter, Rem	75	LF	10.00	\$ 750.00	10.00	\$ 750.00	26.00	\$ 1,950.00	5.00	\$ 375.00	37.00	\$ 2,775.00	30.00	\$ 2,250.00
10	Sidewalk, Rem	5	SYD	8.00	\$ 40.00	9.00	\$ 45.00	18.00	\$ 90.00	9.00	\$ 45.00	35.00	\$ 175.00	40.00	\$ 200.00
11	Pathway Grading	455	LFT	4.00	\$ 1,820.00	4.50	\$ 2,047.50	2.50	\$ 1,137.50	6.50	\$ 2,957.50	9.80	\$ 4,459.00	5.00	\$ 2,275.00
12	Aggregate Base, 6 inch	400	SYD	6.00	\$ 2,400.00	2.25	\$ 900.00	4.50	\$ 1,800.00	6.00	\$ 2,400.00	7.80	\$ 3,120.00	16.00	\$ 6,400.00
13	Curb and Gutter, Conc, Det C4	245	LFT	15.00	\$ 3,675.00	18.00	\$ 4,410.00	20.00	\$ 4,900.00	18.50	\$ 4,532.50	23.00	\$ 5,635.00	32.00	\$ 7,840.00
14	Curb, Conc, Det E2	25	LFT	15.00	\$ 375.00	20.00	\$ 500.00	20.00	\$ 500.00	25.00	\$ 625.00	29.00	\$ 725.00	32.00	\$ 800.00
15	Spillway, Conc	6	LFT	60.00	\$ 360.00	50.00	\$ 300.00	15.00	\$ 90.00	25.00	\$ 150.00	58.00	\$ 348.00	40.00	\$ 240.00
16	Riprap, Plain	9	SYD	15.00	\$ 135.00	30.00	\$ 270.00	25.00	\$ 225.00	60.00	\$ 540.00	99.00	\$ 891.00	50.00	\$ 450.00
17	4-inch Concrete Sidewalk	3000	SFT	3.00	\$ 9,000.00	2.40	\$ 7,200.00	2.65	\$ 7,950.00	2.50	\$ 7,500.00	9.50	\$ 10,800.00	4.00	\$ 12,000.00
18	ADA Compliant Sidewalk Ramp	275	SFT	4.00	\$ 1,100.00	3.00	\$ 825.00	2.85	\$ 783.75	6.25	\$ 1,718.75	6.50	\$ 1,787.50	6.00	\$ 1,650.00
19	ADA Detectable Warning Plate	36	SFT	30.00	\$ 1,080.00	20.00	\$ 720.00	22.00	\$ 792.00	25.00	\$ 900.00	35.00	\$ 1,260.00	30.00	\$ 1,080.00
20	Regrade Ditch	200	LFT	3.00	\$ 600.00	10.00	\$ 2,000.00	10.00	\$ 2,000.00	10.00	\$ 2,000.00	14.00	\$ 2,800.00	20.00	\$ 4,000.00
21	Dr Structure Cover, Adj, Case 2	1	EA	300.00	\$ 300.00	400.00	\$ 400.00	400.00	\$ 400.00	250.00	\$ 250.00	340.00	\$ 340.00	300.00	\$ 300.00
22	Wooden Pedestrian Railing	60	LFT	25.00	\$ 1,500.00	15.00	\$ 900.00	15.00	\$ 900.00	25.00	\$ 1,500.00	17.30	\$ 1,038.00	36.00	\$ 2,160.00
23	Seeding and Mulching	500	SYD	3.00	\$ 1,500.00	2.85	\$ 1,425.00	2.00	\$ 1,000.00	3.00	\$ 1,500.00	4.50	\$ 2,250.00	10.00	\$ 5,000.00
Total - Project 4 - Clark Road:					\$ 32,718.00		\$ 28,167.50		\$ 32,343.25		\$ 32,118.75		\$ 48,450.50		\$ 62,645.00
TOTAL - BASE BID (1-4, NO ALTERNATES):					185,809.05		144,485.68		152,135.00		159,295.50		230,221.78		303,899.50
TOTAL - ALL PROJECTS AND ALTS:					\$ 211,222.20		\$ 164,143.80		\$ 176,325.25		\$ 183,740.75		\$ 259,194.68		\$ 354,599.50

As-Read: \$ 164,146.52 \$ 180,099.85 \$ 183,740.75 \$ 257,604.70 \$ 357,599.50

Items requiring correction shown highlighted

Corrections summary

Audia	Project 2, item 20 - incorrect total price (-2.72 for item) Project 2 total: -2.72 from as-read
Koala-T	Project 1, item 16 - incorrect total price (+450.00 for item) Project 1 total: +450.00 from as-read Project 3, item 14 - incorrect total price (-7,920.00 for item) Project 3, item 21 - incorrect total price (+1,000.00 for item) Project 3 total: -6,920.00 from as-read
Goretski	none
Action	Project 1, item 5 - incorrect total price (-0.02 for item) Project 1 total: -0.02 from as-read Project 4, item 9 - incorrect total price (+2,590.00 for item) Project 4 total: +2,590.00 from as-read
Italia	Project 1 total: incorrect summary (-3,000.00 from as-read)