



**CHARTER TOWNSHIP OF OAKLAND
PARKS & RECREATION COMMISSION AND
PAINT CREEK TRAILWAYS COMMISSION
SPECIAL JOINT MEETING NOTICE AND AGENDA
Wednesday, May 30, 2018 6:30 p.m.**

Oakland Township Hall, 4393 Collins Road, Oakland Township, Michigan

1. Call To Order
2. Pledge Of Allegiance To The Flag Of The United States
3. Roll Call For Each Governmental Body
4. Public Comment For Items Not On The Agenda
5. Discussion of Bridge 33.7 Project Scope & Options
6. Discussion of Engineer's Cost Estimate Bridge 33.7 Revisions
7. For Approval By Oakland Township Parks and Recreation Commission: Approve revision option(s) and design engineering cost estimate for Paint Creek Trail Bridge 33.7 Renovation
8. For Approval By Paint Creek Trailways Commission: Approve revision option(s) and design engineering cost estimate for Paint Creek Trail Bridge 33.7 Renovation
9. Overview of next stage of the process by Mannik & Smith Group
10. Adjournment By Paint Creek Trailways Commission
11. For Review and Discussion by Parks and Recreation Commission: Information for Land Preservation Millage Ballot Proposal
12. Adjournment By Oakland Township Parks and Recreation Commission

Enclosures:

- Memo: Bridge 33.7 Replacement – Re-Bid Options
- Mannik & Smith Group Cost Estimates for Bridge 33. Revision Design Engineering

*Oakland Township Parks & Recreation Commission and Paint Creek Trailways Commission
4393 Collins Road, Rochester, MI 48306
(248) 651-7810 and (248) 651-9260*



MEMO

To: OTPRC & PCTC Commissioners
From: Kristen Myers & Mindy Milos-Dale
Subject: Bridge 33.7 Re-bid Options
Date: May 25, 2018

Attached, please find a Memo from Mannik Smith Group Engineer Matt Mikolajczyk, P.E., regarding the Re-Bid Options for Bridge 33.7. He has provided a list of 4 options, and provided cost estimates for Option 1 and Option 3. At the time of this writing, he is still waiting for the cost estimates from Contech for Options 2 and 4 in order to see other bridge options that still have the longevity (75 years) everyone is looking for. We will send them to you if we get them before the meeting.

He is not projecting the sort of price reductions everyone would like to see in Options 1 and 3. He also based the opinion of cost on the average unit price for each item from the bids received...**not the low bid unit prices**. He does think that if we go with a "standard" MDOT galvanized pedestrian truss (instead of weathered steel vehicular style truss) with the IPE decking, it may get us closer to where we need to be. Remember that the vehicular style is considered an "open" style truss, whereas the pedestrian style is considered "closed/tube style".

He has been in contact with John Skubinna at the MDEQ on whether we can reduce the span to 60'. Mr. Mikolajczyk feels they can make the change fairly easily and show hydraulic improvement. If we go much less than 60' we will likely get into the need to do a more in-depth hydrology analysis that would take more time on the design end, and will cost more money.

He also has some thoughts on how to reduce cofferdam, riprap, and the cobble, gravel, sand mix the MDEQ is requiring. In addition, MSG was also told by the one of the contractors that bids may be as much as \$50,000 less based on bidding later in the season for work to be performed next year. The situation with the steel market is still currently in flux but they are told it is starting to level out. That may be the case, but costs have not yet started to come down yet.

So, in summary, Mr. Mikolajczyk prepared the memo and cost estimates based on the following assumptions:

- Switching from a vehicular style to pedestrian style bridge
- Changing from weathered steel with a corrosion allowance to galvanized steel
- Maintaining the H2O loading capacity
- Moving some of the clearing and trail restoration work to the resurfacing project, which potentially would give us unit price savings
- Reducing the span from 75' to 60'

Again, just for clarification, in his option descriptions, Mr. Mikolajczyk uses the phrase "standard MDOT spec galvanized steel truss". That means the pedestrian, "closed/tubes" style, instead of our current vehicular or "open" style truss.



MEMO

To: Mindy Milos-Dale and Kristen Myers
From: Matthew Mikolajczyk, P.E.
CC: Oakland Township Parks and Recreation Commissioners and Paint Creek Trailways Commissioners
Date: May 24, 2018

Project #: P3290001
Re: [Bridge 33.7 Replacement – Re-Bid Options](#)

In response to the decision to reject all bids regarding bridge 33.7 replacement project, MSG has developed several options to consider. The following list provides options, associated engineering fee, and potential construction savings *based on the average unit price from the four bids received.*

For Reference:
 Original Low Bid: \$802,673
 Original Average Bid: \$847,513
 Original Engineer's Estimate: \$579,718

Option Description	Approximate Engineering Fee*	Opinion of Costs
1) Rebid the project as-is with minor changes/item moves to resurfacing project (cost savings in unit pricing) and find additional funding for project.	\$1,932	Potential Change: \$786,298 Approx. \$16K potential bridge "savings" See attached for Items moved.
2) Rebid the project using "standard" MDOT spec galvanized steel truss and minor changes/item moves to resurfacing project.	\$2,372	Potential Change: TBD. Inquiry is in to Contech for bridge estimate.
3) Rebid the project changing 75' span to 60' span using same specification for bridge and minor changes/item moves to resurfacing project.	\$5,039	Potential Change: \$755,025 Approx. \$47K potential bridge "savings"
4) Rebid the project changing 75' span to 60' span using "standard" MDOT spec for galvanized steel truss and minor changes/item moves to resurfacing project.	\$5,228	Potential Change: TBD. Inquiry is in to Contech for bridge estimate.
5) Other options can be discussed at the meeting the costing to follow.		

*The engineering fee proposal will be finalized after a decision on how to proceed is determined at the meeting. The scope would include updates to special provisions, estimate, plans, resubmittal to MDOT and MDNR, and two meetings. Option 3 and 4 would also include revisions to the MDEQ permit application in order to shorten the span length.

					Option 1			
CATEGORY	ITEM NO.	PAY ITEM	PAY ITEM DESCRIPTION	UNIT	ADJUSTED QUANTITY	AVG UNIT PRICE	ENG. EST. CONTRACT AMOUNT	DESCRIPTION OF CHANGE
1	1	1500001	Mobilization, Max	LSUM	1	\$52,700.00	\$52,700.00	
1	2	2010001	Clearing	Acre		\$20,250.00	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	3	2010005	Thinning, Selective, Type I	Acre		\$13,250.00	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	4	2020006	Stump, Rem, 19 inch to 36 inch	Ea		\$350.00	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	5	2020008	Stump, Rem, 6 inch to 18 inch	Ea		\$200.00	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	6	2047051	Miscellaneous, Remove & Salvage	LSUM		\$3,540.53	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	7	3020001	Aggregate Base	Ton		\$45.07	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	8	3027031	Aggregate, Surface Coarse, Special	Ton		\$156.22	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	9	7097001	Timber Approach Rail	Ft		\$114.02	\$0.00	Move to Trail Resurfacing Project. Unit price savings
1	10	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	6	\$75.00	\$450.00	
1	11	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	6	\$6.26	\$37.55	
1	12	8120100	Dust Palliative, Applied	Ton	5	\$330.00	\$1,650.00	
1	13	8120170	Minor Traf Devices	LSUM	1	\$5,187.50	\$5,187.50	
1	14	8120250	Plastic Drum, High Intensity, Furn	Ea	10	\$22.00	\$220.00	
1	15	8120251	Plastic Drum, High Intensity, Oper	Ea	10	\$2.51	\$25.08	
1	16	8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	80	\$4.00	\$320.00	
1	17	8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	80	\$0.26	\$20.60	
1	18	8120352	Sign, Type B, Temp, Prismatic, Special, Furn	Sft	49	\$9.00	\$441.00	
1	19	8120353	Sign, Type B, Temp, Prismatic, Special, Oper	Sft	49	\$0.26	\$12.62	
1	20	8167011	Slope Restoration, Modified	Syd		\$12.76	\$0.00	Move to Trail Resurfacing Project. Unit price savings
2	21	2040060	Structures, Rem (PCTC 33.7)	LSUM	1	\$155,874.00	\$155,874.00	
2	22	2060002	Backfill, Structure, CIP	Cyd	654	\$32.30	\$21,124.20	
2	23	2060010	Excavation, Fdn	Cyd	1379	\$22.23	\$30,651.72	
2	24	2080014	Erosion Control, Filter Bag	Ea	2	\$236.72	\$473.43	
2	25	2080036	Erosion Control, Silt Fence	Ft	500	\$2.53	\$1,265.00	Minimize.
2	26	2080042	Erosion Control, Turbidity Curtain, Deep	Ft	100	\$12.60	\$1,260.25	
2	27	4040031	Underdrain, Fdn, 4 inch	Ft		\$6.20	\$0.00	Use weep holes opposed to underdrains
2	28	4040091	Underdrain Outlet, 4 inch	Ft		\$12.15	\$0.00	Use weep holes opposed to underdrains
2	29	4040111	Underdrain, Outlet Ending, 4 inch	Ea		\$158.00	\$0.00	Use weep holes opposed to underdrains
2	30	6020600	Conc Pavt, Bridge Approach, Reinf	Syd		\$318.75	\$0.00	Eliminate the approach slabs.
2	31	7040007	Cofferdams	LSUM	1	\$63,214.40	\$63,214.40	
2	32	7060092	Reinforcement, Steel, Epoxy Coated	Lb	12560	\$1.40	\$17,552.60	
2	33	7060100	Substructure Conc	Cyd	147	\$576.42	\$84,733.37	
2	34	7060140	Water Repellent Treatment, Penetrating	Syd	53	\$13.75	\$728.75	
2	35	7077051	75' x 14' Prefabricated Bridge, Furn	LSUM	1	\$224,124.37	\$224,124.37	
2	36	7077051	75' x 14' Prefabricated Bridge, Installed	LSUM	1	\$70,510.25	\$70,510.25	
2	37	7100001	Joint Waterproofing	Sft	84	\$7.49	\$628.95	
2	38	7100030	Substructure Horizontal Surface Sealer (PCTC 33.7)	Syd	8	\$68.75	\$550.00	
2	39	8137011	Riprap, Natural Stone	Syd	204	\$121.31	\$24,747.75	
2	40	8137031	Cobble, Gravel, Sand Mix	Ton	293	\$74.24	\$21,751.59	
2	41	8507050	Live Stakes	Ea	293	\$20.63	\$6,043.13	
						AVERAGE ESTIMATE TOTAL:	\$786,298.09	

					Option 3			
CATEGORY	ITEM NO.	PAY ITEM	PAY ITEM DESCRIPTION	UNIT	ADJUSTED QUANTITY	AVG UNIT PRICE	ENG. EST. CONTRACT AMOUNT	DESCRIPTION OF CHANGE
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2	35	7077051	75' x 14' Prefabricated Bridge, Furn	LSUM	1	\$192,851.20	\$192,851.20	
2	36	7077051	75' x 14' Prefabricated Bridge, Installed	LSUM	1	\$70,510.25	\$70,510.25	
2	37	7100001	Joint Waterproofing	Sft	84	\$7.49	\$628.95	
2	38	7100030	Substructure Horizontal Surface Sealer (PCTC 33.7)	Syd	8	\$68.75	\$550.00	
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