

EUTHENICS INC.
CONSULTING ENGINEERS



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December 5, 2017

Mr. Paul W. Deichmann, P.E.
City of Parma
6611 Ridge Road
Parma, Ohio 44129

Re: Broadview Road Resurfacing: West Ridgewood to Snow and West Creek to Brookpark (PID 85387)
Engineering Design Services - Contract Plans and Specifications

Dear Mr. Deichmann:

Euthenics, Inc. is pleased to submit this proposal for providing Engineering Services for the development of final plans for the proposed combined 1.5 mile sections of Broadview Road Resurfacing: West Ridgewood Drive to Snow Road and the bridge over West Creek to Brookpark Road (PID 85387) in the City of Parma. This is a Local-let Project partially funded through the ODOT Urban Paving Program.

The services provided under this Proposal are those services which are needed to prepare construction contract plans and specifications for the City of Parma, for the referenced project. This is an ODOT administered project which will loosely follow the ODOT Minor Plan Development process, Path 1. Plans and specifications shall be prepared by Euthenics, Inc., reviewed by ODOT and the City of Parma, and advertised and bid by the City of Parma.

Euthenics, Inc. will prepare plan view format schematic drawings using the latest available Cuyahoga County Ortho maps with summary/subsummary tables to resurface approximately 1.5 miles of Broadview Road between West Ridgewood Drive and Snow Road and between the bridge over West Creek to Brookpark Road. Work will include milling of existing asphalt and replacement, along with full (ODOT 255) and partial (ODOT 251) depth pavement repair, utility casting adjustments, and installing ADA compliant curb ramps and landings where necessary.

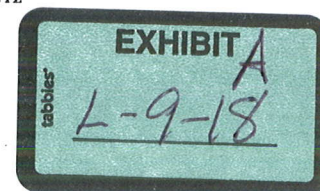
Detailed traffic control plans will not be required for the entire corridor. It is the intent of the project that the existing pavement markings will be restored as-is upon completion of the resurfacing, using Epoxy or Thermoplastic Pavement Markings. Plans will include notes, detector loop locations, and quantity summary charts.

Detailed maintenance of traffic plans will not be required for the entire corridor. General notes and details will be provided so as to convey to the contractor the required scheme. At a minimum, this shall include: typical sections with lane widths, MOT standard details, requirements for relocated traffic signals, and a construction sequence for completing the entire project. The MOT notes and specifications will also include direction to the

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contractor to submit MOT plan details for work zone approaches between phases and any required details for intersections determined to be necessary.

The Project is anticipated to be constructed in two (2) sections suspending and resuming the work between the Snow Road intersection and at the bridge over West Creek:

- Section 1 - West Ridgewood Drive to Snow Road
- Section 2 - Bridge over West Creek to Brookpark Road

Section 1 and Section 2 will be constructed part width, maintaining two way traffic at all times. MOT plan drawings shall be prepared according to the Ohio Manual of Uniform Traffic Control Devices for the transition areas at the following intersections: West Ridgewood Drive, Snow Road and Brookpark Road. The plans will also include a detailed set of notes describing that which cannot be shown graphically including, but not limited to construction phasing, and access to driveways for businesses and residents.

The fee quoted for this project shall be divided into two (2) parts: Stage 3; and Plans, Specifications and Estimates (P.S. & E.). Stage 3 shall include all work from project start up through the first plan submittal. Stage 3 Preliminary cost estimate and design plans shall be submitted and approved by the City of Parma and ODOT. P. S. & E. includes all work between receipt of Stage 3 review comments and project bidding. This step contains two (2) submittals to ODOT and the City of Parma, Stage 3 compliance set of plans with dispositions of comments and then final P.S. & E. package.

The work to be provided will be in accordance with the Detailed Man-hour Estimate Breakdown attached hereto. The following services/items will be provided by Euthenics, Inc.:

Stage 3

- Site Survey/Inspection
- Title Sheet with Signature Blocks
- Typical Sections
- General Notes and Specifications
- Maintenance of Traffic General Notes and Typical Section
- Maintenance of Traffic - Transitions at West Ridgewood, Snow Road and Brookpark Road
- General Summary
- Subsummary and Quantity Calculations
- Schematic Plans - Scale 1"=40' (County Ortho-Photos)
- Pavement Repair Details and Miscellaneous Details
- Pavement Marking Plan - Scale: 1"=40' (County Ortho-Photos)
- Pavement Marking Subsummary/Calculations
- Stage 3 Construction Cost Estimate
- Project Manual (draft)
- Public/Private Utility Coordination
- Deliverables

Plans, Specifications and Estimates (P. S. & E.)

- Plan revisions from Stage 3 Review Comments

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- Quantity revisions from Stage 3 Review Comments
- P.S. & E. Construction Cost Estimate
- Update/Finalize Project Manual
- Public/Private Utility Coordination and Utility Exhibit "B"
- All work between Stage 3 and Project Bidding by Parma
- Deliverables

The following services are not included in the Proposal and can be provided for an additional fee:

1. Right-of-Way Plans.
2. Environmental Documents: Site Assessments, Wetlands, Ecological, Etc.
3. Payment of EPA, FEMA, Utility or Municipal Fees for Review, Inspections and Approvals.
4. Field Instrument Survey of ADA Curb Ramps.
5. Existing Utility Plan/Profile.
4. Construction Staking.
5. Pavement Coring.
6. Engineering during Construction.
7. Construction Administration.
8. Bidding Services.
9. Attendance at City Council, Planning Commission or Public Meetings.

Additional services as requested during 2018 will be provided at the following hourly rates:

Project Manager	\$130
Project Engineer	\$105
Professional Engineer	\$95
Engineering Intern	\$65
Designer/Technician	\$82
Professional Surveyor	\$104
Survey Crew	\$150

Written authorization to proceed with any additional services will be obtained prior to commencing with any work that is not included in the Detailed Estimated Man-hour Breakdown (attached hereto) for Stage 3 and P.S. & E. The fees shown in the Proposal will be held for work in progress through December of 2018. Invoices will be submitted monthly with the amount calculated based upon the percent completed of each individual work task, with payment due within thirty (30) days.

If additional work or work of significantly increased complexity, clearly not contemplated in the original scope of services, is required, or if Euthenics, Inc. is required to abandon or perform or re-perform approved work, supplemental or modification agreements shall be negotiated providing for the cost and suitable profit for such work. If this Agreement is terminated during performance of the work, Euthenics, Inc. shall be paid for services rendered to the date of termination.

We appreciate the opportunity to provide this proposal and look forward to working with you on this project. Please call if you have any questions or need additional information.

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The fees and terms are acceptable and you are authorized to proceed in the following areas:

Stage 3

The lump sum fee of \$59,088.00 is agreed to.

Signature/Title

Date _____

Plans, Specifications and Estimates (P.S. & E)

The lump sum fee of \$20,705.00 is agreed to.

Signature/Title

Date _____

Please call if you have any questions or need additional information.

Very Truly Yours,
EUTHENICS INC.

Alan R. Piatak

Alan R. Piatak, P.E.
President

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BROADVIEW ROAD RESURFACING: WEST RIDGEWOOD DRIVE TO BROOKPARK ROAD DETAILED ESTIMATED MANHOUR BREAKDOWN

STAGE 3 SUBMITTAL

Existing Data Collection

Existing Plans, Contacting OUPS, etc...

Existing Data Collection = 10 MH
Existing Data Collection = 10 MH

Survey/Field Work

Identify Owner & Number of Castings to be Adjusted or Reconstructed to Grade	= 12 MH
Identify Concrete Bus Pads to be Installed	= 6 MH
Identify Number of CWD Castings to be Adjusted or Reconstructed to Grade	= 10 MH
Traffic Signal Loop Detector Inventory	= 8 MH
Utility Pole Clearance Inventory - Ownership/Number/Clearance	= 10 MH
Pavement Marking Inventory	= 8 MH
Identify Number of Vault Castings & Manhole Castings to be Adjusted or Reconstructed to Grade	= 12 MH
Field Mark Potential Base Repair Areas & ADA Curb Ramps with Parma Inspector	= 18 MH
Catch Basin Condition Survey - Photos/Work Task	= 28 MH
Identify Existing Monuments to be Adjusted to Grade	= 6 MH
Identify Spot Sidewalk/Drive Apron/Potential Curb Repairs	= 8 MH
Field Verify Topo Drawings	= 10 MH
Survey/Field Work	= 136 MH

Plan Drawings

Title Sheet	1 Sheet @ 8 MH	= 8 MH
Typical Sections	3 Sheets @ 8 MH	= 24 MH
General Notes & Specifications	5 Sheets @ 8 MH	= 40 MH
Maintenance of Traffic General Notes	3 Sheets @ 12 MH	= 36 MH
Maintenance of Traffic Typical Section/Standard Details	1 Sheet @ 8 MH	= 8 MH
Maintenance of Traffic - Transitions at West Ridgewood/Snow Road/Brookpark Road	3 Sheets @ 12 MH	= 36 MH
General Summary	3 Sheets @ 12 MH	= 36 MH
Subsummary & Quantity Calculations	2 Sheets @ 12 MH	= 24 MH
Schematic Plans (1"=40' - County Topography Photos)	9 Sheets @ 8 MH	= 72 MH
Pavement Repair Details (Partial Depth/Full Depth/Intersection)	2 Sheets @ 8 MH	= 16 MH
Miscellaneous Details	3 Sheets @ 8 MH	= 24 MH
Pavement Marking Plans (1"=40' - County Topography Photos)	9 Sheets @ 5 MH	= 45 MH
Pavement Marking Subsummary/Calculations	1 Sheet @ 12 MH	= 12 MH
Cost Estimates		= 14 MH
Project Manual		= 30 MH
Plan Drawings		= 425 MH

Project Coordination

Stage 3 Plan Review Meeting with Parma Engineering and ODOT	= 6 MH
Public/Private Utility Coordination and ODOT Utility Exhibit "B"	= 8 MH
Project Coordination	= 14 MH

Supervision

= 24 MH

Deliverables

City of Parma and ODOT	= 6 MH
Private Utilities	= 12 MH
Deliverables	= 18 MH

STAGE 3 SUBMITTAL 627 MH

BROADVIEW ROAD RESURFACING: WEST RIDGEWOOD DRIVE TO BROOKPARK ROAD DETAILED ESTIMATED MANHOUR BREAKDOWN

PLANS, SPECIFICATIONS & ESTIMATES (P.S. & E.)

Survey/Field Work

Miscellaneous Survey/Field Work - As Required from Stage 3 Review Comments

	=	12 MH
Survey/Field Work	=	12 MH

Plan Drawings - Finalize

Title Sheet	=	2 MH
Typical Sections	=	8 MH
General Notes & Specifications	=	12 MH
Maintenance of Traffic General Notes	=	6 MH
Maintenance of Traffic Typical Section/Standard Details	=	4 MH
Maintenance of Traffic - Transitions at West Ridgewood/Snow Road/Brookpark Road	=	12 MH
General Summary	=	14 MH
Subsummary & Quantity Calculations	=	12 MH
Schematic Plans (1"=40' - County Topography Photos)	=	24 MH
Pavement Repair Details (Partial Depth/Full Depth/Intersection)	=	2 MH
Miscellaneous Details	=	4 MH
Pavement Marking Plans (1"=40' - County Topography Photos)	=	14 MH
Pavement Marking Subsummary/Calculations	=	4 MH
Cost Estimates	=	10 MH
Project Manual	=	8 MH
Plan Drawings - Finalize	=	136 MH

Project Coordination

P.S. & E. Plan Review Meeting with Parma Engineering and ODOT
Public/Private Utility Coordination and ODOT Utility Exhibit "B"

	=	4 MH
	=	4 MH
Project Coordination	=	8 MH

Supervision

	=	18 MH
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Deliverables

Stage 3 Compliance

City of Parma and ODOT	=	8 MH
P.S. & E. (Construction Plans)		
City of Parma and ODOT	=	10 MH
Private Utilities	=	8 MH
Deliverables	=	26 MH

PLANS, SPECIFICATIONS & ESTIMATES (P.S. & E.) 200 MH

CITY OF PARMA
ENGINEERING DEPARTMENT
PARMA, OHIO

PROPOSAL FEE SHEET

PROJECT: BROADVIEW ROAD RESURFACING: WEST RIDGEWOOD
DRIVE TO BROOKPARK ROAD
DATE: DECEMBER 5, 2017

STAGE 3 SUBMITTAL

Work Items/Tasks	Manhours	Weighted Avg. Rate	Cost
Existing Data Collection	10	\$ 30.50	\$ 305.00
Survey/Field Work	136	\$ 32.26	\$ 4,387.36
Plan Drawings	425	\$ 32.79	\$ 13,935.75
Project Coordination	14	\$ 39.00	\$ 546.00
Supervision	24	\$ 45.00	\$ 1,080.00
Deliverables	18	\$ 33.58	\$ 604.44
Total (Hours and Direct Labor Costs)	627		\$ 20,858.55
Overhead (154%)			\$ 32,122.17
Subtotal - 1			\$ 52,980.72
Net Fee (11%)			\$ 5,827.88
Subtotal - 2			\$ 58,808.60
** Allowable Direct Cost - Travel (estimated)		See Below	\$ 130.00
** Allowable Direct Cost - Printing (estimated)			\$ 150.00
*** Subconsultant's Costs		N/A	\$ -
TOTAL - STAGE 3 (HOURS AND COSTS)			\$ 59,088.60

** Provide Itemized List

*** Provide Separate Proposal (Services, Manhours and Costs)

**26 miles (RT) 10 trips 260 @ \$0.50/mile

**CITY OF PARMA
ENGINEERING DEPARTMENT
PARMA, OHIO**

PROPOSAL FEE SHEET

PROJECT: BROADVIEW ROAD RESURFACING: WEST RIDGEWOOD
DRIVE TO BROOKPARK ROAD
DATE: DECEMBER 5, 2017

PLANS, SPECIFICATIONS & ESTIMATES (P.S. & E.)

Work Items/Tasks	Manhours	Weighted Avg. Rate	Cost
Survey/Field Work	12	\$ 33.75	\$ 405.00
Plan Drawings - Finalize	136	\$ 34.67	\$ 4,715.12
Project Coordination	8	\$ 40.25	\$ 322.00
Supervision	18	\$ 45.00	\$ 810.00
Deliverables	26	\$ 34.63	\$ 900.38
Total (Hours and Direct Labor Costs)	200		\$ 7,152.50
Overhead (154%)			\$ 11,014.85
Subtotal - 1			\$ 18,167.35
Net Fee (11%)			\$ 1,998.41
Subtotal - 2			\$ 20,165.76
** Allowable Direct Cost - Travel (estimated)		See Below	\$ 40.00
** Allowable Direct Cost - Printing (estimated)			\$ 500.00
*** Subconsultant's Costs		N/A	\$ -
TOTAL - PS & E (HOURS AND COSTS)			\$ 20,705.76

** Provide Itemized List

*** Provide Separate Proposal (Services, Manhours and Costs)

**20 miles (RT) 4 trips 80 @ \$0.50/mile