



CITY of NOVI CITY COUNCIL

Agenda Item M
September 15, 2014

SUBJECT: Approval to award an amendment to the engineering services agreement with Spalding DeDecker Associates for additional design services for the 2014 Neighborhood Road Program--Contract 3 in the amount of \$65,424.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division ^{RM} BTC

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$ 65,424
AMOUNT BUDGETED	\$ 185,897
LINE ITEM NUMBER	203-203.00-805.434

BACKGROUND INFORMATION:

The approved construction budget for the 2014 Neighborhood Road Program is \$2,229,000, of which approximately \$1,829,000 has been awarded to date, leaving \$400,000 available for additional construction. Two separate contracts have been awarded for the 2014 program: one for concrete streets and one for asphalt streets. Staff is proposing to award design for a third contract using the available budgeted funds. This third contract involves rehabilitation and partial reconstruction of White Pines Drive from Beck Road to Arden Glen Ct. – a nearly half-mile distance. The section of White Pines has required a significant amount of maintenance over the past few years, and continues to deteriorate further. This project will utilize the remaining funds from the 2014 Neighborhood Road Program and funds currently budgeted for the 2015 Neighborhood Road Program.

SDA will be assisting the Engineering Division with the design and construction engineering services for this project. The design fees for the project are based on the fixed fee schedule established in the Agreement for Professional Engineering Services for Public Projects for the City's three pre-qualified engineering consultants. The design fees for this project will be \$65,424.00 (7.75% of the estimated cost of \$645,753 for the reconstruction portion, plus 8.50% of the estimated cost of \$180,916 for the rehabilitation portion). The construction phase engineering fees will be awarded at the time of construction award and will be based on the contractor's bid and the fee percentage in the Agreement for Professional Engineering Services for Public Projects. A draft of the Supplemental Professional Engineering Services Agreement for this project is enclosed.

Contract 3 would be designed over the winter months with construction of this project expected to commence in spring 2015.

RECOMMENDED ACTION: Approval to award an amendment to the engineering services agreement with Spalding DeDecker Associates for additional design services for the 2014 Neighborhood Road Program--Contract 3 in the amount of \$65,424.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Fischer				

	1	2	Y	N
Council Member Markham				
Council Member Mutch				
Council Member Wrobel				

2014 NEIGHBORHOOD ROAD PROGRAM

Contract 3 - White Pines

June 2014



Map Author: Croy
Date: 9/8/14
Project: 2014 NRP
Version #: v3.0

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.



1 inch = 550 feet



City of Novi
Engineering Division
Department of Public Services
26300 Lee BeGole Drive
Novi, MI 48375
cityofnovi.org

**SECOND AMENDMENT TO THE
SUPPLEMENTAL PROFESSIONAL ENGINEERING SERVICES AGREEMENT**

**2014 NEIGHBORHOOD ROAD PROGRAM
Contract 3 - White Pines**

Second Amended Agreement between the City of Novi, 45175 W. Ten Mile Road, Novi, MI 48375-3024, hereafter, "City," and Spalding DeDecker Associates, Inc., whose address is 905 South Boulevard East, Rochester Hills, MI 48307, hereafter, "Consultant," relating to modifications of the fee basis for engineering services. The following sections of the Supplemental Professional Engineering Services Agreement, as made and entered into on September 30, 2013 shall be amended as follows:

Section 2. Payment for Professional Engineering Services, The following Paragraphs shall be amended as follows:

1. Basic Fee.
 - a. *Unchanged.*
 - b. *Unchanged.*
 - c. Design Phase Services (Contract 3): The Consultant shall complete the design phase services as described herein for a lump sum fee of \$65,424, which is 7.75% of the estimated \$645,753 reconstruction cost plus 8.50% of the estimated \$180,916 rehabilitation cost, as indicated on the design and construction engineering fee curve provided in Exhibit B of the Agreement for Professional Engineering Services for Public Projects.

2. *Unchanged*

Except as specifically set forth in this First Amendment, the Supplemental Professional Engineering Services Agreement remains in full force and effect.

WITNESSES

Spalding DeDecker Associates, Inc.

By:
Its:

The foregoing _____ was acknowledged before me this ____ day of _____,
20____, by _____ on behalf of _____.

Notary Public
_____ County, Michigan
My Commission Expires: _____

WITNESSES

CITY OF NOVI

By:
Its:

The foregoing _____ was acknowledged before me this ____ day of _____,
20____, by _____ on behalf of the City of Novi.

Notary Public
Oakland County, Michigan
My Commission Expires: _____



City of Novi

White Pines Drive Reconstruction and Rehabilitation (Beck Road to 180' East of Arden Glen)

Project Scope

September 4, 2014

Project Overview and Understanding of Requested Services

Spalding DeDecker Associates, Inc. (SDA) proposes to design the reconstruction and rehabilitation of White Pines Drive from Beck Road to 180' East of Arden Glen. The EB lane will be reconstructed from Beck Road to 300' east of Whitehall Drive, and will receive concrete pavement repairs and joint repairs from 300' east of Whitehall Drive to 300' west of Burlington Court. The WB lane will receive concrete pavement repairs and joint repairs from Beck Road to 300' west of Burlington Court. The entire roadway will be reconstructed from 300' west of Burlington Court to 180' east of Arden Glen Court. Pavement repairs on Burlington Court, Denby Court and Arden Glen Court will also be included in the project.

Proposed Scope of Services

SDA's scope will include:

- SDA will perform a topographic survey of the reconstruction areas from Beck Road to 180' East of Arden Glen. This survey will include all features including the drain crossings and existing utilities. Trees 8" and larger in diameter will also be surveyed.
- Soil borings and geotechnical investigation will be required as part of this project. Soil borings and geotechnical investigation are not included in our estimate and will be paid for separately by the City. It is estimated that 4 borings will be needed for the project.
- ADA ramps will be surveyed and upgraded to current standards, if necessary, at Argyle Street, Whitehall Drive, Burlington Court, Denby Court and Arden Glen Court.
- SDA will prepare 30% plans for the City to review.
- SDA will prepare 90% plans and specifications and submit to the City for final review.
- SDA will prepare a 100% Bid Package for Advertising
- SDA will assist the City during the bidding process as needed.

Construction Cost Estimate and Proposed Fees

Based on our pre-qualification status with the City, engineering design fees are based on a percentage of the pre-design construction cost estimate. The fee percentage used depends on the type of services to be provided based on the proposed work. The fees for this project will be based on the attached Opinion of Probable Construction Costs and will follow the "Road Construction" and the "Road Rehabilitation" rates in the fee table.

<u>Project</u>	<u>Construction Budget</u>	<u>Design Fee Rate</u>	<u>Proposed Design Fee</u>
White Pines Reconstruction	\$645,753.00	7.75%	\$50,046.00
White Pines Rehabilitation	\$180,916.00	8.50%	\$15,378.00
TOTAL:			\$65,424.00

Project Schedule

The following summarizes the anticipated schedule for the project:

<u>Milestone</u>	<u>Completed By</u>
Design Project Award	9/16/2014
Initial Meetings and Site Visits	9/19/2014
Geotechnical and Survey Field Work	10/17/2014
30% Preliminary Plans	11/24/2014
90% Final Plans	1/20/2015
100% Bid Package & Advertising	2/3/2015
Bid Opening	3/10/2015
Award by Council	3/23/2015
Construction Start	04/15/2015
Construction Completion	08/15/2015

Thank you for your selection of SDA to provide design services for the White Pines Drive Reconstruction and Rehabilitation project. Please don't hesitate to contact me if you have any questions or comments regarding this submittal.

SPALDING DEDECKER ASSOCIATES, INC.



Edward Strada, P.E.

Project Manager



SPALDING DEDECKER ASSOCIATES, INC.

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

WHITE PINES DRIVE

Pre-Construction Engineer's Estimate

Project: White Pines Drive

Date: 9/4/2014

Location: Beck Rd to Taft Rd

Project No. _____

Work: Concrete Inlay on EB from Beck to 300' east of Whitehall

By: EAS

Rehabilitate EB from 300' east of Whitehall to 300' west of Burlington

Rehabilitate WB from Beck to 300' west of Burlington

Reconstruct from 300' west of Burlington to 180' East of Arden Glenn

Total Existing Roadway Length (FT): 1970

Reconstruct

Item No.	Item Description	Est. Quantity	Unit	Unit Price (\$)	Total Cost (\$)
	<u>General Items</u>				
	Mobilization (5% max.)	1	LS	\$28,000.00	\$28,000.00
	Pre-Construction Video Review	1	LS	\$2,120.00	\$2,120.00
	Soil Erosion & Sedimentation Control	1	LS	\$1,130.00	\$1,130.00
	Maintaining Traffic	1	LS	\$3,950.00	\$3,950.00
	9" Concrete Pavement with Integral Curb	6162	SYD	\$53.00	\$326,586.00
	Aggregate Base, 6 inch	6162	SYD	\$6.00	\$36,972.00
	Pavt, Rem	6162	SYD	\$7.00	\$43,134.00
	Excavation, Earth	2398	CYD	\$12.00	\$28,776.00
	Subbase, CIP	1391	CYD	\$16.00	\$22,256.00
	Geogrid	6162	SYD	\$2.50	\$15,405.00
	Driveway, Rem	330	SYD	\$9.00	\$2,970.00
	Driveway, Nonreinf Conc, 6 inch	330	SYD	\$42.00	\$13,860.00
	Tree Protection	675	FT	\$2.00	\$1,350.00
	Underdrain, Pipe, Open-Graded, 6 inch	2520	FT	\$8.00	\$20,160.00
	Sidewalk, Rem	190	SYD	\$8.00	\$1,520.00
	Sidewalk, Conc, 4 inch	700	SFT	\$4.00	\$2,800.00
	ADA Ramp, Conc, 6 inch	1050	SFT	\$7.00	\$7,350.00
	ADA Dectable Warning Plate	140	SFT	\$25.00	\$3,500.00
	15 Inch Culvert	88	FT	\$35.00	\$3,080.00
	Reconstruct Structure	15	EA	\$600.00	\$9,000.00
	18" C-76 CLIV Pipe	33	FT	\$44.00	\$1,452.00
	12" C-76 CLIV Pipe	83	FT	\$39.00	\$3,237.00

	Restoration	1	LS	\$3,000.00	\$3,000.00
	Permanent Pavement Markings	1	LS	\$4,940.00	\$4,940.00
	Permit Allowance (RCOC)	500	DLR	\$1.00	\$500.00
	Inspection Crew Days		DAY	\$640.00	\$0.00
				Subtotal:	\$587,048.00
				Contingency (10%):	\$58,705.00
	Total Segment Construction Cost Estimate:				\$645,753.00

Total Existing Roadway Length (FT): 2240

Rehabilitate

Item No.	Item Description	Est. Quantity	Unit	Unit Price (\$)	Total Cost (\$)
	<u>General Items</u>				
	Mobilization (5% max.)	1	LS	\$7,900.00	\$7,900.00
	Pre-Construction Video Review	1	LS	\$2,520.00	\$2,520.00
	Soil Erosion & Sedimentation Control	1	LS	\$1,350.00	\$1,350.00
	Maintaining Traffic	1	LS	\$4,710.00	\$4,710.00
	Tree Protection	225	FT	\$2.00	\$450.00
	Pavt Repr, Rem, Modified	2099	SYD	\$14.00	\$29,386.00
	Pavt Repr, Nonreinf Conc, 10 Inch, Modified	1062	SYD	\$43.00	\$45,666.00
	Pavt Repr, Nonreinf Conc, Longit Joint, 10 inch	320	SYD	\$56.00	\$17,920.00
	Pavt Repr, Nonreinf Conc, Transv Joint, 10 inch	717	SYD	\$56.00	\$40,152.00
	Saw and Seal Joints in Good Condition	5220	FT	\$1.75	\$9,135.00
	Restoration	1	LS	\$2,000.00	\$2,000.00
	Permanent Pavement Markings	1	LS	\$2,780.00	\$2,780.00
	Permit Allowance (RCOC)	500	DLR	\$1.00	\$500.00
	Inspection Crew Days		DAY	\$640.00	\$0.00
				Subtotal:	\$164,469.00
				Contingency (10%):	\$16,447.00
	Total Segment Construction Cost Estimate:				\$180,916.00

Total Project Construction Cost Estimate: \$826,669.00