

**RESOLUTION #17-0501-08**

**Approve Resurfacing Contract through Delaware County Engineer's Office**

**WHEREAS**, Liberty Township received bids for resurfacing of streets as approved in Resolution #17-0117-10 from the Delaware County Engineer's Office, and

**WHEREAS**, the Delaware County Engineer's Office has submitted its bids and contracts to be approved by the Board of Trustees in order that work may begin by the county's designated vendor, The Shelly Company, and,

**WHEREAS**, the attached documents show the total cost for the 2017 resurfacing project to be \$1,016,848.81, which includes \$92,440.80 in contingency and the Road Department has an adequate funding available in the approved budget for the 2017 road improvements, and

**WHEREAS**, the contract between the Township and The Shelly Company and the Memorandum of Understanding between the Township and the Delaware County Engineer must be approved by the Board of Trustees, and

**NOW, THEREFORE BE IT RESOLVED, BY THE LIBERTY TOWNSHIP BOARD OF TRUSTEES, DELAWARE COUNTY, OHIO**, that the contract with The Shelly Company for the 2017 resurfacing project awarded for the amount of \$1,016,848.84 be approved, and **BE IT FURTHER RESOLVED** that the Memorandum of Understanding between the Township and the Delaware County Engineer regarding the 2017 resurfacing project be approved.

Motion made by Leneghan and seconded by Eichhorn.

**Vote:** Yes Mrs. Eichhorn Yes Mrs. Leneghan N/P Dr. Mitchell

This Resolution shall be in force and become effective immediately upon its execution.

5-1-2017  
Date

Melanie Leneghan  
Melanie Leneghan, Trustee

CERTIFIED BY:

Nancy Denutte  
Nancy Denutte, Fiscal Officer

-- not present --  
Dr. Thomas Mitchell, Trustee  
Shyra Eichhorn  
Shyra Eichhorn, Trustee

**CONTRACT**

**AGREEMENT**, made and entered into this 1<sup>st</sup> day of May 2017 by and between the **LIBERTY TOWNSHIP TRUSTEES**, Delaware County, Ohio, and hereinafter designated as **FIRST PARTY**, and **THE SHELLY COMPANY**, hereinafter designated as **SECOND PARTY**.

**WITNESSETH**, that said **SECOND PARTY**, for and in consideration of the sum of **ONE MILLION SIXTEEN THOUSAND EIGHT HUNDRED FORTY-EIGHT DOLLARS AND EIGHTY-ONE CENTS (\$1,016,848.81)**, based on unit prices on the attached **Bid Blank**, to be paid as hereinafter specified, hereby agrees to furnish unto said **FIRST PARTY**, all necessary material, labor and equipment required to complete the project known as **2017 DEL-COUNTY ROAD IMPROVEMENT PROGRAM, Delaware County, Ohio**, in accordance with plans, drawings, general specifications, Invitation to Bid for same hereto attached; which plans, drawings, general specifications and Invitation to Bid are hereby declared to be a part of this **Contract**.

**SAID SECOND PARTY** further agrees to furnish said materials and to do the said work and labor promptly, in a good, substantial and workmanship manner, under the direction of the **Liberty Township Trustees**. Work is to be completed on or before **September 8, 2017**.

**THE SECOND PARTY** hereby agrees to hold **Liberty Township** free and harmless from any and all claims for damages, costs, expenses, judgments or decrees, resulting from any operations of said **SECOND PARTY**, his sub-contractors, agents or employees.

**SECOND PARTY** further agrees to pay the **Prevailing Wage Rate** in accordance with **Section 4115 of the Ohio Revised Code** and to furnish the **Liberty Township Trustees** a certified copy of the Contractor's payroll. Contractor is also responsible for providing any changes in the Prevailing Wage rates as furnished by the Delaware County Engineer during the course of this project to any and all Subcontractors employed by the Contractor.

**WITNESS**, our hands the day and year first above written.

**SIGNED N DUPLICATE IN THE PRESENCE OF:**

_____	<u>Mr. Fealala</u>
_____	<u>Melanie Kenehan</u>
_____	<u>Thomas Mitchell - not present</u>
	<b>LIBERTY TOWNSHIP TRUSTEES</b>

\_\_\_\_\_  
**WITNESS**

\_\_\_\_\_  
**CONTRACTOR**

\_\_\_\_\_  
**ADDRESS**

## CONTRACT

**AGREEMENT**, made and entered into this 15 day of May 2017 by and between the **LIBERTY TOWNSHIP TRUSTEES**, Delaware County, Ohio, and hereinafter designated as **FIRST PARTY**, and **THE SHELLY COMPANY**, hereinafter designated as **SECOND PARTY**.

**WITNESSETH**, that said **SECOND PARTY**, for and in consideration of the sum of **ONE MILLION SIXTEEN THOUSAND EIGHT HUNDRED FORTY-EIGHT DOLLARS AND EIGHTY-ONE CENTS (\$1,016,848.81)**, based on unit prices on the attached **Bid Blank**, to be paid as hereinafter specified, hereby agrees to furnish unto said **FIRST PARTY**, all necessary material, labor and equipment required to complete the project known as **2017 DEL-COUNTY ROAD IMPROVEMENT PROGRAM, Delaware County, Ohio**, in accordance with plans, drawings, general specifications, Invitation to Bid for same hereto attached; which plans, drawings, general specifications and Invitation to Bid are hereby declared to be a part of this **Contract**.

***SAID SECOND PARTY*** further agrees to furnish said materials and to do the said work and labor promptly, in a good, substantial and workmanship manner, under the direction of the **Liberty Township Trustees**. Work is to be completed on or before **September 8, 2017**.

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**WITNESS**, our hands the day and year first above written.

**SIGNED IN DUPLICATE IN THE PRESENCE OF:**

LIBERTY TOWNSHIP TRUSTEES

**WITNESS**

## CONTRACTOR

## ADDRESS

2017 ROAD IMPROVEMENT PROGRAM  
ROAD SUMMARY  
LIBERTY TOWNSHIP - 2

APRIL 17, 2017

ROAD	FROM	TO	MILES	ESTIMATE	AWARDED	WIP
DURHAM PLACE (TWP 552)	STRATFORD RD	CUL DE SAC	0.083	\$50,550.43	\$49,392.64	
ABBINGTON PLACE (TWP 550)	STRATFORD RD	CUL DE SAC	0.083	\$50,550.43	\$49,392.64	
RUTHERFORD RD LIBERTY			0.500	\$50,756.90	\$49,602.60	
RUTHERFORD RD CITY			0.500	\$74,014.90	\$71,079.60	

**TOTAL(S)**      **1.167**      \$225,872.66      **\$219,467.48**  
**PROJECT CONTINGENC**    **10%**      \$22,587.27      **\$21,946.75**

**PROJECT TOTAL COST:**      \$248,459.93      **\$241,414.23**

Estimate reviewed and approved in the amount of total listed above:

Melanie Kenesha      5.1.2017  
X, Township Trustee      date

John Stankiewicz      5.1.2017  
X, Township Trustee      date

Thomas Mitchell - not present      5-1-2017 CB  
X, Township Trustee      date

APRIL 17, 2017

ROAD DATA	
BEGIN LIMIT	STRATFORD RD
END LIMIT	CUL DE SAC
LENGTH	440 FEET
EXISTING WIDTH	24.0 FEET
PROPOSED WIDTH	24.0 FEET
TOTAL SY IMPROVED	1,123 SY
TOTAL SF IMPROVED	10,560 SF
TOTAL MILES IMPROVED	0.083 MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.50	5.0%
448 LEVELING	1.50	5.0%
448 INTERMEDIATE		
301 BASE	3.00	5.0%

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	2
STOP LINE (# OF INTS)	1	644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC		per mile

FULL DEPTH 7"

## APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	STRATFORD RD	
END LIMIT	CUL DE SAC	
LENGTH	440	FEET
EXISTING WIDTH	24.0	FEET
PROPOSED WIDTH	24.0	FEET
TOTAL SF IMPROVED	1,173	SY
TOTAL SF IMPROVED	10,560	SF
TOTAL MILES IMPROVED	0.083	MILES

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	2
STOP LINE (# OF INTS)	1	644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC		per mile

LIBERTY - 2

## APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT		
END LIMIT		
LENGTH		FEET
EXISTING WIDTH		FEET
PROPOSED WIDTH		FEET
TOTAL SY IMPROVED	5,000	SY
TOTAL SF IMPROVED	45,000	SF
TOTAL MILES IMPROVED	0.500	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.25	5.0%
448 LEVELING	0.75	5.0%
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)	2.00	1
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE	X	644C
EDGE LINE	X	644E
MAINTAINING TRAFFIC	X	per mile

[illegible]

**\$74,014,90**

**\$71,079.60**

**5000 SQYARDS**

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT		
END LIMIT		
LENGTH		FEET
EXISTING WIDTH		FEET
PROPOSED WIDTH		FEET
TOTAL SY IMPROVED	3,700	SY
TOTAL SF IMPROVED	33,300	SF
TOTAL MILES IMPROVED	0.500	MILES

OPTIONS		
BERM (DEPTH/WIDTH)	2.00	1
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE	X	644C
EDGE LINE	X	644E
MAINTAINING TRAFFIC	X	per mile

[illegible]

**\$50,756.90**

**\$49,602.60**

**4370 SQYARDS**



2017 ROAD IMPROVEMENT PROGRAM  
ROAD SUMMARY  
LIBERTY TOWNSHIP

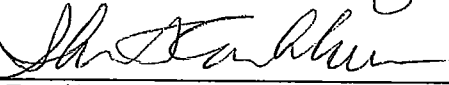
APRIL 17, 2017

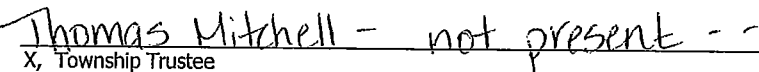
ROAD	FROM	TO	MILES	ESTIMATE	AWARDED	WIP
BIG BEAR AVE (TWP 676)	SAWMILL PKWY	POWELL RD	0.890	\$7,480.00	\$7,947.50	
WAYNE BROWN DR (TWP 680)	SELDOM SEEN RD	BIG BEAR AVE	0.483	\$3,960.00	\$4,207.50	
WAYNE BROWN DR - 2 (TWP 681)	BIG BEAR AVE	BIG BEAR AVE	0.254	\$2,640.00	\$2,805.00	
HAMPSHIRE AVE (TWP 681)	BIG BEAR AVE	WAYNE BROWN DR	0.360	\$2,240.00	\$2,380.00	
FARMINGTON AVE (TWP 784)	HAMPSHIRE AVE	POWELL RD	0.193	\$1,280.00	\$1,360.00	
STOCKTON CT (TWP 555)	STRATFORD RD	CUL DE SAC	0.145	\$33,813.40	\$30,191.22	
BRADFORD CT (TWP 607)	SAWMILL PKWY	SAWMILL RD	0.076	\$19,668.92	\$18,448.83	
RUTHERFORD RD (TWP 122)	LIBERTY RD	RR TRACKS	0.511	\$100,325.25	\$98,253.20	
RUTHERFORD RD - 2 (TWP 122)	900' W OF SAWMILL	ST RT 257	1.383	\$268,265.38	\$262,404.27	
DAVENTRY LN (TWP 684)	ST RT 315	CUL DE SAC	0.663	\$83,599.02	\$82,604.52	
BRITTINGHAM LN (TWP 687)	DAVENTRY LN	DAVENTRY LN	0.218	\$26,100.89	\$25,905.62	
CLARINGTON CT (TWP 686)	DAVENTRY LN	CUL DE SAC	0.133	\$16,586.68	\$16,456.48	
BERKLEY CT (TWP 868)	CLARINGTON CT	CUL DE SAC	0.189	\$22,622.56	\$22,461.19	
DAVENTRY CT (TWP 685)	DAVENTRY LN	CUL DE SAC	0.119	\$14,270.00	\$14,165.20	
BACIRCAY LN (TWP 1274)	END OF CORP	RUTHERFORD RD	0.405	\$34,404.68	\$34,194.20	
MENDERES DR (TWP 1354)	BACIRCAY LN	THE PRESERVE	0.398	\$31,626.00	\$31,528.20	
FELIZ LN (TWP 472)	MENDERES DR	GEDIZ DR	0.398	\$31,626.00	\$31,528.20	
GEDIZ DR (TWP 1273)	BACIRCAY LN	FELIZ LN	0.227	\$18,168.00	\$18,099.40	
Special Items						

**TOTAL(S)**      **7.045**      \$718,676.78      **\$704,940.53**  
**PROJECT CONTINGENC**    **10%**      \$71,867.68      **\$70,494.05**  
  
**PROJECT TOTAL COST:**      \$790,544.46      **\$775,434.58**

Estimate reviewed and approved in the amount of total listed above:


5-1-2017  
 X, Township Trustee date


5-1-2017  
 X, Township Trustee date


5-1-2017 CB  
 X, Township Trustee date

APRIL 17, 2017

[illegible]

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	SELDOM SEEN RD	
END LIMIT	BIG BEAR AVE	
LENGTH	2550	FEET
EXISTING WIDTH	30.0	FEET
PROPOSED WIDTH	30.0	FEET
TOTAL SF IMPROVED	8,500	SF
TOTAL SF IMPROVED	76,500	SF
TOTAL MILES IMPROVED	0.483	MILES

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)		
STOP LINE (# OF INTS)		644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC		per mile

LIBERTY

APRIL 17, 2017

ROAD DATA			PLAN		ESTIMATE		AWARDED		WORK IN PLACE			
BEGIN LIMIT	BIG BEAR AVE		ITEM	DESCRIPTION	UNIT	QTY	UNIT \$	EXTENDED \$	UNIT \$	EXTENDED \$	QTY	EXTENDED \$
END LIMIT	BIG BEAR AVE		301B	ASPHALT CONCRETE BASE, AS PER PLAN	TON		\$60.00					
LENGTH	1340	FEET	4482I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	TON		\$60.00		\$57.00			
EXISTING WIDTH	30.0	FEET	4481I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	TON		\$73.00		\$68.00			
PROPOSED WIDTH	30.0	FEET	4481S	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	TON		\$68.00		\$67.00			
TOTAL SY IMPROVED	4,467	SY	407	TACK COAT	GAL		\$2.00		\$1.85			
TOTAL SF IMPROVED	40,200	SF	614L	ONE LANE CLOSURE ON TWO LANE HIGHWAY	MI		\$4,000.00		\$5,000.00			
TOTAL MILES IMPROVED	0.254	MILES	617	COMPACTED AGGREGATE, TYPE A	TON		\$30.00		\$30.00			
			642C	CENTERLINE, TYPE 1	MI		\$1,200.00					
			642E	EDGE LINE, TYPE 1	MI		\$630.00					
			644S	STOP LINE	LF		\$7.00		\$6.00			
			SPEC	DURAPATCH	FT	660	\$4.00	\$2,640.00	\$4.25	\$2,805.00		

## APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	BIG BEAR AVE	
END LIMIT	WAYNE BROWN DR	
LENGTH	1900	FEET
EXISTING WIDTH	28.0	FEET
PROPOSED WIDTH	28.0	FEET
TOTAL SY IMPROVED	5,911	SY
TOTAL SF IMPROVED	53,200	SF
TOTAL MILES IMPROVED	0.360	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE		
448 LEVELING		
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)		
STOP LINE (# OF INTS)		644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC		per mile

LIBERTY

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	HAMPSHIRE AVE	
END LIMIT	POWELL RD	
LENGTH	1020	FEET
EXISTING WIDTH	32.0	FEET
PROPOSED WIDTH	32.0	FEET
TOTAL SF IMPROVED	3,627	SY
TOTAL SF IMPROVED	32,640	SF
TOTAL MILES IMPROVED	0.193	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE		
448 LEVELING		
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)		
STOP LINE (# OF INTS)		644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC		per mile

LIBERTY

APRIL 17, 2017

ROAD DATA			PLAN				ESTIMATE		AWARDED		WORK IN PLACE	
ITEM	DESCRIPTION	UNIT	QTY	UNIT \$	EXTENDED \$	UNIT \$	EXTENDED \$	QTY	EXTENDED \$			
BEGIN LIMIT	STRATFORD RD											
END LIMIT	CUL DE SAC											
LENGTH	765 FEET											
EXISTING WIDTH	24.0 FEET											
PROPOSED WIDTH	24.0 FEET											
TOTAL SY IMPROVED	2,540 SY											
TOTAL SF IMPROVED	18,360 SF											
TOTAL MILES IMPROVED	0.145 MILES											
ASPHALT INCHES YLD %												
446 SURFACE (DENSITY)												
448 SURFACE	1.25	5.0%										
448 LEVELING	0.75	5.0%										
448 INTERMEDIATE												
301 BASE												
OPTIONS												
BERM (DEPTH/WIDTH)												
TACK (RATE/COURSES)	0.08	1										
STOP LINE (# OF INTS)		644S										
CENTERLINE		644C										
EDGE LINE		644E										
MAINTAINING TRAFFIC	X	per mile										
TOTAL(S)						\$33,813.40		\$30,191.22				

LIBERTY

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	SAWMILL PKWY	
END LIMIT	SAWMILL RD	
LENGTH	400	FEET
EXISTING WIDTH	35.0	FEET
PROPOSED WIDTH	35.0	FEET
TOTAL SY IMPROVED	1,556	SY
TOTAL SF IMPROVED	14,000	SF
TOTAL MILES IMPROVED	0.076	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.25	5.0%
448 LEVELING	0.75	5.0%
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE	X	644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

[illegible]

LIBERTY



APRIL 17, 2017

LIBERTY

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	LIBERTY RD	
END LIMIT	RR TRACKS	
LENGTH	2700	FEET
EXISTING WIDTH	23.0	FEET
PROPOSED WIDTH	23.0	FEET
TOTAL SY IMPROVED	6,900	SY
TOTAL SF IMPROVED	62,100	SF
TOTAL MILES IMPROVED	0.511	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.25	5.0%
448 LEVELING	0.75	5.0%
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)	2.00	1
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE	X	644C
EDGE LINE	X	644E
MAINTAINING TRAFFIC	X	per mile

<b>PLAN</b>				<b>ESTIMATE</b>		<b>AWARDED</b>		<b>WORK IN PLACE</b>	
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT \$</b>	<b>EXTENDED \$</b>	<b>UNIT \$</b>	<b>EXTENDED \$</b>	<b>QTY</b>	<b>EXTENDED \$</b>
301B	ASPHALT CONCRETE BASE, AS PER PLAN	TON		\$60.00					
4482I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	TON		\$60.00		\$57.00			
4481I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	TON	302	\$73.00	\$22,046.00	\$68.00	\$20,536.00		
4481S	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	TON	503	\$68.00	\$34,204.00	\$67.00	\$33,701.00		
407	TACK COAT	GAL.	552	\$2.00	\$1,104.00	\$1.85	\$1,021.20		
614L	ONE LANE CLOSURE ON TWO LANE HIGHWAY	MI	0.51	\$4,000.00	\$2,040.00	\$5,000.00	\$2,550.00		
617	COMPACTED AGGREGATE, TYPE A	TON	66.67	\$30.00	\$2,000.00	\$30.00	\$2,000.00		
644C	CENTERLINE	MI	0.51	\$4,990.00	\$2,551.70	\$4,240.00	\$2,168.18		
644E	EDGE LINE	MI	1.02	\$2,400.00	\$2,454.55	\$2,280.00	\$2,331.82		
642S	STOP LINE, TYPE 1	LF		\$3.20					
422I	SINGLE CHIP SEAL W/O POLYMER BINDER, INTERMEDIATE	SY	6900	\$1.50	\$10,350.00	\$1.65	\$11,385.00		
254	PAVEMENT PLANING, AS PER PLAN	SY	500	\$4.00	\$2,000.00	\$2.05	\$1,025.00		
644RR	R/R SYMBOL MARKING	EA	1	\$575.00	\$575.00	\$535.00	\$535.00		
253	PAVEMENT REPAIR, AS PER PLAN	CY	70	\$300.00	\$21,000.00	\$300.00	\$21,000.00		
<b>TOTAL(S)</b>					<b>\$100,325.25</b>		<b>\$98,253.20</b>		

LIBERTY

## APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	900' W OF SAWMILL	
END LIMIT	ST RT 257	
LENGTH	7,300	FEET
EXISTING WIDTH	20.0	FEET
PROPOSED WIDTH	20.0	FEET
TOTAL SY IMPROVED	16,222	SY
TOTAL SF IMPROVED	146,000	SF
TOTAL MILES IMPROVED	1.383	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.25	5.0%
448 LEVELING		
448 INTERMEDIATE	1.75	5.0%
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)	2.00	1
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		6445
CENTERLINE	X	644C
EDGE LINE	X	644E
MAINTAINING TRAFFIC	X	per mile

LIBERTY

APRIL 17, 2017

DAVENTRY LN (TWP 684)

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)	1	644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

PLAN				ESTIMATE		AWARDED		WORK IN PLACE	
ITEM	DESCRIPTION	UNIT	QTY	UNIT \$	EXTENDED \$	UNIT \$	EXTENDED \$	QTY	EXTENDED \$
301B	ASPHALT CONCRETE BASE, AS PER PLAN	TON		\$60.00					
4482I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	TON		\$60.00		\$57.00			
4481I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	TON	357	\$73.00	\$26,061.00	\$68.00	\$24,276.00		
4481S	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	TON	595	\$68.00	\$40,460.00	\$67.00	\$39,865.00		
407	TACK COAT	GAL	653	\$2.00	\$1,306.67	\$1.85	\$1,208.67		
614L	ONE LANE CLOSURE ON TWO LANE HIGHWAY	MI	1	\$4,000.00	\$2,640.00	\$5,000.00	\$3,300.00		
617	COMPACTED AGGREGATE, TYPE A	TON		\$30.00		\$30.00			
642C	CENTERLINE, TYPE 1	MI		\$1,200.00					
642E	EDGE LINE, TYPE 1	MI		\$630.00					
644S	STOP LINE	LF	11.55	\$7.00	\$80.85	\$6.00	\$69.30		
254	PAVEMENT SEALING, AS PER PLAN	SY	200	\$4.00	\$800.00	\$2.05	\$410.00		
422I	SINGLE CHIP SEAL W/O POLYMER BINDER, INTERMEDIATE	SY	8167	\$1.50	\$12,250.50	\$1.65	\$13,475.55		
<b>TOTAL(S)</b>					<b>\$83,599.02</b>		<b>\$82,604.52</b>		

## APRIL 17, 2017

ROAD DATA	
BEGIN LIMIT	DAVENTRY LN
END LIMIT	DAVENTRY LN
LENGTH	1150 FEET
EXISTING WIDTH	20.0 FEET
PROPOSED WIDTH	20.0 FEET
TOTAL SY IMPROVED	2,556 SY
TOTAL SF IMPROVED	23,000 SF
TOTAL MILES IMPROVED	0.218 MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.25	5.0%
448 LEVELING	0.75	5.0%
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)	2	644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

[illegible]

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	DAVENTRY LN	
END LIMIT	CUL DE SAC	
LENGTH	700	FEET
EXISTING WIDTH	21.0	FEET
PROPOSED WIDTH	21.0	FEET
TOTAL SF IMPROVED	1,633	SY
TOTAL SF IMPROVED	14,700	SF
TOTAL MILES IMPROVED	0.133	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.25	5.0%
448 LEVELING	0.75	5.0%
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)	1	644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

LIBERTY

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	CLARINGTON CT	
END LIMIT	CUL DE SAC	
LENGTH	1000	FEET
EXISTING WIDTH	20.0	FEET
PROPOSED WIDTH	20.0	FEET
TOTAL SF IMPROVED	2,222	SY
TOTAL SF IMPROVED	20,000	SF
TOTAL MILES IMPROVED	0.189	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.25	5.0%
448 LEVELING	0.75	5.0%
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)	1	644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

LIBERTY

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	DAVENTRY LN	
END LIMIT	CUL DE SAC	
LENGTH	630	FEET
EXISTING WIDTH	20.0	FEET
PROPOSED WIDTH	20.0	FEET
TOTAL SY IMPROVED	1,400	SY
TOTAL SF IMPROVED	12,600	SF
TOTAL MILES IMPROVED	0.119	MILES

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)	1	6445
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

LIBERTY



APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	END OF CORP	
END LIMIT	RUTHERFORD RD	
LENGTH	2140	FEET
EXISTING WIDTH	22.0	FEET
PROPOSED WIDTH	22.0	FEET
TOTAL SY IMPROVED	5,231	SY
TOTAL SF IMPROVED	47,080	SF
TOTAL MILES IMPROVED	0.405	MILES

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

LIBERTY

APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	BACIRCAY LN	
END LIMIT	THE PRESERVE	
LENGTH	2100	FEET
EXISTING WIDTH	21.0	FEET
PROPOSED WIDTH	21.0	FEET
TOTAL SY IMPROVED	4,900	SY
TOTAL SF IMPROVED	44,100	SF
TOTAL MILES IMPROVED	0.398	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.50	5.0%
448 LEVELING		
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

PLAN				ESTIMATE		AWARDED		WORK IN PLACE	
ITEM	DESCRIPTION	UNIT	QTY	UNIT \$	EXTENDED \$	UNIT \$	EXTENDED \$	QTY	EXTENDED \$
301B	ASPHALT CONCRETE BASE, AS PER PLAN	TON		\$60.00					
4482I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	TON		\$60.00		\$57.00			
4481I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	TON		\$73.00		\$68.00			
4481S	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	TON	429	\$68.00	\$29,172.00	\$67.00	\$28,743.00		
407	TACK COAT	GAL	392	\$2.00	\$784.00	\$1.85	\$725.20		
614L	ONE LANE CLOSURE ON TWO LANE HIGHWAY	MI	0.40	\$4,000.00	\$1,600.00	\$5,000.00	\$2,000.00		
617	COMPACTED AGGREGATE, TYPE A	TON		\$30.00		\$30.00			
642C	CENTERLINE, TYPE 1	MI		\$1,200.00					
642E	EDGE LINE, TYPE 1	MI		\$630.00					
644S	STOP LINE	LF	10.00	\$7.00	\$70.00	\$6.00	\$60.00		
<b>TOTAL(S)</b>					<b>\$31,626.00</b>		<b>\$31,528.20</b>		

LIBERTY

## APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	MENDERES DR	
END LIMIT	GEDIZ DR	
LENGTH	2100	FEET
EXISTING WIDTH	21.0	FEET
PROPOSED WIDTH	21.0	FEET
TOTAL SY IMPROVED	4,900	SY
TOTAL SF IMPROVED	44,100	SF
TOTAL MILES IMPROVED	0.398	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.50	5.0%
448 LEVELING		
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

PLAN				ESTIMATE		AWARDED		WORK IN PLACE	
ITEM	DESCRIPTION	UNIT	QTY	UNIT \$	EXTENDED \$	UNIT \$	EXTENDED \$	QTY	EXTENDED \$
301B	ASPHALT CONCRETE BASE, AS PER PLAN	TON		\$60.00					
4482I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	TON		\$60.00		\$57.00			
4481I	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	TON		\$73.00		\$68.00			
4481S	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	TON	429	\$68.00	\$29,172.00	\$67.00	\$28,743.00		
407	TACK COAT	GAL	392	\$2.00	\$784.00	\$1.85	\$725.20		
614L	ONE LANE CLOSURE ON TWO LANE HIGHWAY	MI	0.40	\$4,000.00	\$1,600.00	\$5,000.00	\$2,000.00		
617	COMPACTED AGGREGATE, TYPE A	TON		\$30.00		\$30.00			
642C	CENTERLINE, TYPE 1	MI		\$1,200.00					
642E	EDGE LINE, TYPE 1	MI		\$630.00					
644S	STOP LINE	LF	10.00	\$7.00	\$70.00	\$6.00	\$60.00		
<b>TOTAL(S)</b>					<b>\$31,626.00</b>		<b>\$31,528.20</b>		

## APRIL 17, 2017

ROAD DATA		
BEGIN LIMIT	BACIRCAY LN	
END LIMIT	FELIZ LN	
LENGTH	1200	FEET
EXISTING WIDTH	21.0	FEET
PROPOSED WIDTH	21.0	FEET
TOTAL SY IMPROVED	2,800	SY
TOTAL SF IMPROVED	25,200	SF
TOTAL MILES IMPROVED	0.227	MILES

ASPHALT	INCHES	YLD %
446 SURFACE (DENSITY)		
448 SURFACE	1.50	5.0%
448 LEVELING		
448 INTERMEDIATE		
301 BASE		

OPTIONS		
BERM (DEPTH/WIDTH)		
TACK (RATE/COURSES)	0.08	1
STOP LINE (# OF INTS)		644S
CENTERLINE		644C
EDGE LINE		644E
MAINTAINING TRAFFIC	X	per mile

LIBERTY