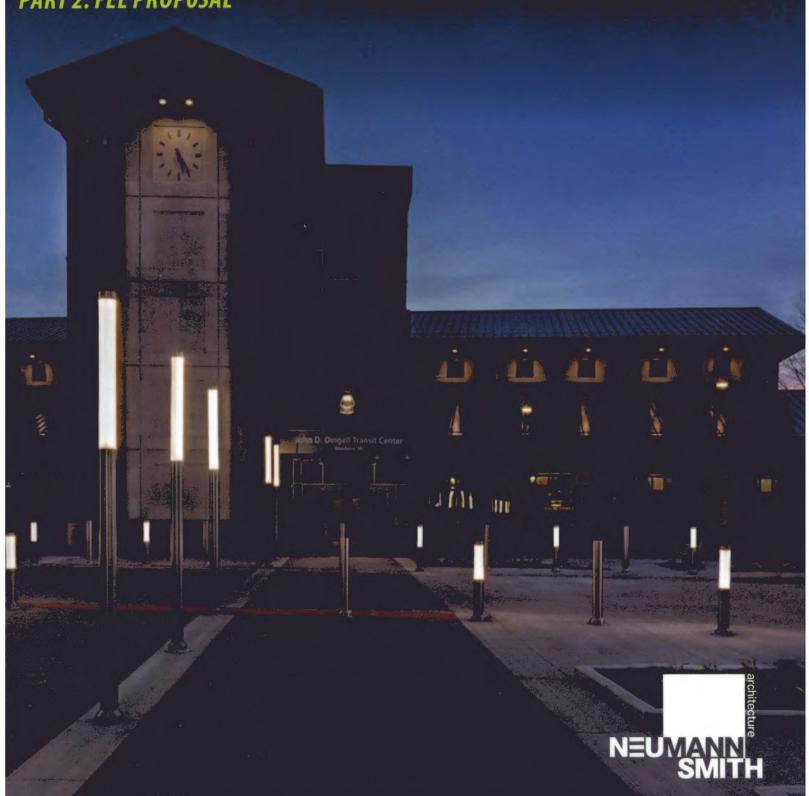


PART 2: FEE PROPOSAL



# ATTACHMENT A THE CITY OF ANN ARBOR AND THE STATE OF MICHIGAN

#### NEUMANN/SMITH ARCHITECTURE

The estimated cost breakdown for the Ann Arbor Station Preliminary Engineering project:

DELIVERABLE	COST ESTIMATE
Task 1: Project Initiation	\$35,000.00
Task 2: Public Participation	\$150,000.00
Task 3: Preliminary Engineering	\$2,081,987.02
Task 4: Project Management	\$100,000.00

**TOTAL FEES & DIRECT COSTS** 

\$2,366,987.02

NOTE: These fees and respective scope of work are based on receiving a single site selection, completed NEPA studies and a Notice to Proceed from the City of Ann Arbor at the start of our work engagement on November 1st, 2016. If the City of Ann Arbor or MDOT receives a time extension beyond June 30, 2017 for submission of the Preliminary Engineering studies we respectfully request the ability to revise our proposed fees for the extension period.

### **MASTER DERIVATION OF COST PROPOSAL**

CONTROL SECTION(S) - JOB NUMBER	(S)	PROJECT DESCRIP	PTION				
		Ann Arbor Stati	on Preli	minary En	gineering	Serv	/ices
PRIME CONSULTANT NAME							
Neumann/Smith Architecture							
DIRECT LABOR:							
CLASSIFICATION		Hours	X	Hourly Rate	=		Labor Cost
Principal Architect in Charge		250	,	\$ 72.13		\$	18,032.5
Project Manager		720		\$ 60.84		\$	43,804.8
Project Designer		720		\$ 50.93		\$	36,669.6
Project Architect		1000		\$ 50.10		\$	50,100.0
Fechnical Spec Writer		130		\$ 45.81		\$	5,955.3
Architectural Illustrator		320		\$ 44.73		\$	14,313.6
nterior Designer		130		\$ 38.94		\$	5,062.2
CAD Drafter		1200		\$ 35.00		\$	42,000.0
SAB Branoi	Total Hours	4470			Total Labor	\$	215,938.0
OVERHEAD OVERHEAD Rate 170.00%	Total Labor x Overhead Rate	\$ 367,094.60		Tota	al Overhead	\$	367,094.6
FACILITIES CAPITAL COST OF		<b>c</b>		Tota	al F.C.C.M.	\$	
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$ -		100	ai i .O.O.ivi.	Ψ_	
DIRECT EXPENSES: List by item	n at Actual Cost - NO MARKU	JP					
,		•					
•	Unit		×	Rate	=		Direct Cost
TYPE OF EXPENSE		Quantity 5,500	Х	Rate \$0.54	=	\$	
TYPE OF EXPENSE Mileage	Unit	Quantity	Х	\$0.54	=	\$	2,970.0
TYPE OF EXPENSE Mileage 3D Renderings	Unit Miles each	Quantity 5,500	X	\$0.54 \$2,500	=	\$ \$	2,970.0 25,000.0
TYPE OF EXPENSE Mileage 3D Renderings Reproduction	Unit Miles	Quantity 5,500 10	X	\$0.54 \$2,500 \$25,000	-	\$ \$ \$	2,970.0 25,000.0 25,000.0
TYPE OF EXPENSE Mileage 3D Renderings Reproduction Express Mail	Unit Miles each allowance allowance	Quantity 5,500 10 1	X	\$0.54 \$2,500 \$25,000 \$14,000	-	\$ \$	2,970.0 25,000.0 25,000.0 14,000.0
TYPE OF EXPENSE Mileage 3D Renderings Reproduction	Unit Miles each allowance	Quantity 5,500 10 1	X	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000	= al Direct	\$ \$ \$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0
TYPE OF EXPENSE  Mileage  3D Renderings Reproduction Express Mail Misc	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0
Mileage 3D Renderings Reproduction Express Mail Misc	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ <b>\$</b>	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0 <b>71,970.</b> 0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0 <b>71,970.</b> 0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0 <b>71,970.</b> 0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0 <b>71,970.</b> 0 337,877.8 240,060.0 402,988.2
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.8 240,060.0 402,988.2 165,684.6
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.0 240,060.0 402,988.0 165,684.0 38,989.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.0 240,060.0 402,988.1 165,684.0 38,989.0 63,332.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.0 240,060.0 402,988.1 165,684.0 38,989.0 63,332.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.8 240,060.0 402,988.3 165,684.0 38,989.0 63,332.0 147,590.0 52,334.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.</b> 337,877.8 240,060.0 402,988.2 165,684.6 38,989.3 63,332.8 147,590.9 52,334.0 85,286.8
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK FTCH	Unit Miles each allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.8 240,060.0 402,988.2 165,684.6 38,989.3 63,332.8 147,590.8 52,334.0 85,286.8 89,996.2
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK FTCH Somat	Unit Miles each allowance allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000	al Direct	\$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.8 240,060.0 402,988.2 165,684.6 38,989.7 63,332.8 147,590.9 52,334.0 85,286.8 89,996.2 23,710.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK FTCH Somat Mark Allan	Unit Miles each allowance allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000		\$	2,970.0 25,000.0 25,000.0 14,000.0 5,000.0 71,970.0 337,877.8 240,060.0 402,988.2 165,684.6 38,989.7 63,332.8 147,590.9 52,334.0 85,286.8 89,996.2 23,710.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK FTCH Somat Mark Allan	Unit Miles each allowance allowance allowance	Quantity 5,500 10 1	x	\$0.54 \$2,500 \$25,000 \$14,000 \$5,000	al Direct	\$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.8 240,060.0 402,988.2 165,684.6 38,989.7 63,332.8 147,590.9 52,334.0 85,286.8 89,996.2 23,710.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK FTCH Somat Mark Allan Acoustics By Design	Unit Miles each allowance allowance allowance	Quantity 5,500 10 1		\$0.54 \$2,500 \$25,000 \$14,000 \$5,000 Total	al Direct	\$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.8 240,060.0 402,988.2 165,684.6 38,989.3 147,590.9 52,334.0 85,286.8 89,996.2 23,710.0
Mileage 3D Renderings Reproduction Express Mail Misc  SUBCONSULTANT COSTS: SmithGroupJJR Mitchell Mouat Quandel Rich Assoc Desai Nasr Peter Basso Assoc LTK FTCH Somat Mark Allan Acoustics By Design	Unit Miles each allowance allowance allowance	Quantity 5,500 10 1 1 1		\$0.54 \$2,500 \$25,000 \$14,000 \$5,000 Total	al Direct	\$	2,970.0 25,000.0 14,000.0 5,000.0 <b>71,970.0</b> 337,877.8 240,060.0 402,988.3 165,684.0 38,989.6 63,332.3 147,590.9 52,334.0 85,286.0 89,996.3 23,710.0

CONTROL SECTION(S) - JOB NUMBER	(S)	PRC	JECT DESCRI	PTION				
		AN	N ARBOR S	TATION	PR	ELIMINARY ENG	AINE	ERING
SUBCONSULTANT NAME								
Rich & Associates, Inc. Parking	Consultants							
DIRECT LABOR:								
CLASSIFICATION Principal Parking Consultant Senior Parking Consultant Senior Structural Engineer Senior Associate / Project Manager Associate Structural Engineer CADD / Drafting Technicians Clerical	Total Hours		Hours  24  80  140  280  200  480  40	X	H \$ \$ \$ \$ \$ \$ \$ \$	rurly Rate = 72.00 63.00 63.00 63.00 45.00 29.00 18.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Labor Cost 1,728.00 5,040.00 8,820.00 17,640.00 9,000.00 13,920.00 720.00
OVERHEAD								
OVERHEAD Rate164.00%	Total Labor x Overhead Rate	\$	93,263.52			Total Overhead	<b>\$</b>	93,263.52
FACILITIES CAPITAL COST OF	MONEY:							
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$				Total F.C.C.M.	\$	-
DIRECT EXPENSES: List by item	n at Actual Cost - NO MARKU	JP						
TYPE OF EXPENSE Travel (Ann Arbor) Printing / Copies	Unit		Quantity  8 1 0 0	X	\$ \$ \$ \$ \$	Rate = 30.00 300.00 Total Direct	\$ \$ \$ \$ \$ <b>\$</b>	Direct Cost 240.00 300.00
SUBCONSULTANT COSTS:								
						Total Subconsultant	\$ \$ _\$	-
FIXED FEE FOR PROFIT:								
	(Total Labor +	- Tota	l Overhead) x	10%		Total Fixed Fee	\$\$	15,013.15
						TOTAL COSTS	s <u>\$</u>	165,684.67

CONTROL SECTION(S) - JOB NUMBI	ER(S)	PROJECT DESCRIPT	TION		
		ANN ARBOR ST	ATION PF	RELIMINARY ENGI	NEERING
SUBCONSULTANT NAME					
MARK ALLAN & ASSOCIATE	S, LLC				
DIRECT LABOR:					
CLASSIFICATION SR ESTIMATOR	Total Hours	Hours 488 0 0 0 0 0 0 0 488	× Ho \$ \$ \$ \$ \$	· ·	Labor Cost \$ 38,434.88 \$ - \$ - \$ - \$ - \$ 38,434.88
OVERHEAD					
OVERHEAD Rate103.00%	Total Labor x Overhead Rate	\$ 39,587.93		Total Overhead	\$ 39,587.93
FACILITIES CAPITAL COST	OF MONEY:				
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$ -		Total F.C.C.M.	\$ -
DIRECT EXPENSES: List by it	em at Actual Cost - NO MARKUF	o			
TYPE OF EXPENSE MILEAGE	Unit MILES	Quantity 500 0 0 0 0	× \$ \$ \$ \$ \$ \$	-	Direct Cost \$ 270.00 \$ - \$ - \$ - \$ 270.00
SUBCONSULTANT COSTS:					
•				Total Subconsultant	\$ - \$ - \$ -
FIXED FEE FOR PROFIT:					
	(Total La	bor + Total Overhe <mark>ad)</mark>	) x 15% =	Total Fixed Fee	\$ 11,703.42
				TOTAL COSTS	\$ 89,996.23

CONTROL SECTION(S) - JOB NUMBE	ER(S)	PROJECT	DESCRI	PTION			
		ANN ARI	BOR S	TATION	PRELIMINARY ENG	NEE	RING
SUBCONSULTANT NAME							
Acoustics By Design	, agency.						
DIRECT LABOR:							
CLASSIFICATION Department Manager/Senior Const	ultant	Hour	60 0 0 0 0	x	Hourly Rate = \$ 175.00 \$ - \$ - \$ - \$ - \$ \$ - \$ \$ - \$	\$ \$ \$ \$ \$ \$	Labor Cost 10,500.00 - - - - -
	Total Hours		60		Total Labor		10,500.00
OVERHEAD							
OVERHEAD Rate100.00%	Total Labor x Overhead Rate	\$ 10,50	00.00		Total Overhead	\$	10,500.00
FACILITIES CAPITAL COST C	F MONEY:						
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$	-		Total F.C.C.M.	\$	-
DIRECT EXPENSES: List by ite	em at Actual Cost - NO MARKI	UP					
TYPE OF EXPENSE Ann Arbor Site Visits	Unit	Quant	2 0 0 0	x	Rate = \$ 200.00 \$ - \$ - \$ - \$ - Total Direct	\$ \$ \$ \$ \$ \$ \$	Direct Cost 400.00 - - - - - 400.00
SUBCONSULTANT COSTS:							
					Total Subconsultant	\$ \$ \$	-
FIXED FEE FOR PROFIT:							
	(Total L	₋abor + Total	Overhea	d) x 11% =	: Total Fixed Fee	\$	2,310.00
					TOTAL COSTS	\$	23,710.00

CONTROL SECT	ION(S) - JOB NUMBE	ER(S)	PROJECT DESCRIP	PTION			
			Ann Arbor Station	on Pre	liminary Engineering	Ser	vices
SUBCONSULTAN	NT NAME						
Quandel Con	sultants, LLC						***
DIRECT LAB	OR:						
CLASSIFICATION PIC/QC PM-RR RR Ops PE-4 PE-3 PE-2 PE-1	N	Total Hours	Hours 40 432 40 944 280 360 680 2776	×	Hourly Rate = \$ 120.00 \$ 100.00 \$ 70.00 \$ 55.00 \$ 44.00 \$ 35.00 \$ 31.00	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4,800.00 43,200.00 2,800.00 51,920.00 12,320.00 12,600.00 21,080.00 <b>148,720.00</b>
OVERHEAD							
OVERHEAD Rate	e <u>134.55%</u>	Total Labor x Overhead Rate	\$ 200,102.76		Total Overhead	_\$_	200,102.76
FACILITIES C	CAPITAL COST C	OF MONEY:					
F.C.C.M. Rate	-	Total Labor x F.C.C.M. Rate	\$ -		Total F.C.C.M.	_\$_	•
DIRECT EXP	ENSES: List by ite	em at Actual Cost - NO MARKU	JP				
TYPE OF EXPEN	NSE Auto Rental Fuel Hotel Per Diem Misc	Unit Trip Trip Night Day Day	Quantity 39 39 39 78 39	x	Rate = \$100 \$120 \$85 \$45 \$10 Total Direct	\$ \$ \$ \$ \$ <b>\$</b>	Direct Cost 3,900.00 4,680.00 3,315.00 3,510.00 390.00 <b>15,795.00</b>
SUBCONSUL	TANT COSTS:						
•					Total Subconsultant	\$ \$ \$	-
FIXED FEE F	OR PROFIT:						
		(Total L	abor + Total Overhe <mark>ac</mark>	d) x 11%	Total Fixed Fee	_\$_	38,370.50
					TOTAL COSTS	\$	402,988.26

CONTROL SECTION(S) - JOB NUMBER	R(S)	PROJECT DESCRIP	TION			
Preliminary Design		Ann Arbor Statio	on			
SUBCONSULTANT NAME						
Mitchell and Mouat Architects,	Inc.		.,,,,,			
DIRECT LABOR:						
CLASSIFICATION Principal Project Manager Senior Architect Associate Architect	Total Hours	Hours 480 240 720 360 0 0	X	Hourly Rate = \$ 60.00 \$ 55.00 \$ 55.00 \$ 40.00 \$ - \$ - \$ Total Labor	\$ \$ \$ \$ \$ \$ \$ \$	Labor Cost 28,800.00 13,200.00 39,600.00 14,400.00
OVERHEAD						
OVERHEAD Rate125.00%	Total Labor x Overhead Rate	\$ 120,000.00		Total Overhead	\$	120,000.00
FACILITIES CAPITAL COST OF	F MONEY:					
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$ -		Total F.C.C.M.	\$	•
DIRECT EXPENSES: List by iter	m at Actual Cost - NO MARKL	JP				
TYPE OF EXPENSE Trips outside of Ann Arbor	Unit	Quantity  10 0 0 0 0	X	Rate = \$ 30.00 \$ - \$ - \$ - \$ - \$ - Total Direct	\$ \$ \$ \$ \$ <b>\$</b>	Direct Cost 300.00 - - - - - - 300.00
SUBCONSULTANT COSTS:						
1				Total Subconsultant	\$ \$ \$	-
FIXED FEE FOR PROFIT:						
	(Total L	abor + Total Overhe <mark>ad</mark>	) x 11% =	Total Fixed Fee	\$	23,760.00
				TOTAL COSTS	\$	240,060.00

CONTROL SECTION(S) - JOB NUMBER(S	8)	PROJECT DESCRI	PTION		
RFP No. 981		Ann Arbor Stat	ion Prelim	inary Engineering	Services
SUBCONSULTANT NAME					
LTK Engineeering Services					
DIRECT LABOR:					
CLASSIFICATION Engineer CADD	Total Hours	Hours 596 120 0 0 0 0 716	× H \$ \$ \$ \$ \$	32.41 - - -	Labor Cost \$ 49,080.60 \$ 3,889.20 \$ - \$ - \$ - \$ 52,969.80
OVERHEAD					
OVERHEAD Rate	Total Labor x Overhead Rate	\$ 78,850.84		Total Overhead	\$ 78,850.84
FACILITIES CAPITAL COST OF	MONEY:				
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$ -		Total F.C.C.M.	\$ -
DIRECT EXPENSES: List by item a	at Actual Cost - NO MARKI	JP			
TYPE OF EXPENSE Reproduction/Mailing Travel		Quantity  1 1 1 2 0 0 0	× \$ \$	6 485.00 6 - 6 -	Direct Cost \$ 300.00 \$ 970.00 \$ - \$ - \$ 1,270.00
SUBCONSULTANT COSTS:					
				Total Subconsultant	\$ - \$ - <b>\$</b>
FIXED FEE FOR PROFIT:					
	(Total L	_abor + Total Overhea	ad) x 11% =	Total Fixed Fee	\$ 14,500.27
				TOTAL COSTS	\$ 147,590.91

CONTROL SECTION(S) - JOB NUMBE	R(S)	PROJECT DESCRI	PTION			
		Ann Arbor Stat	ion (Task	3.6 Transportation	Stu	ıdy)
SUBCONSULTANT NAME						
FTCH			-	-		
DIRECT LABOR:						
CLASSIFICATION Chris Wall, PE, PTP, PTOE Kristen Pawlowski, PE Todd Jacobs Angel Gengler Valerie Rice Christine Price	Total Hours	Hours 60 152 160 70 70 32 <b>544</b>		Hourly Rate = \$ 53.58 \$ 33.75 \$ 26.25 \$ 17.50 \$ 21.50 \$ 22.50 Total Labor	\$ \$ \$ \$ \$ \$ \$	Abor Cost 3,214.80 5,130.00 4,200.00 1,225.00 1,505.00 720.00 15,994.80
OVERHEAD						
OVERHEAD Rate190.77%	Total Labor x Overhead Rate	\$ 30,513.28		Total Overhead	\$	30,513.28
FACILITIES CAPITAL COST O	F MONEY:					
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$ 81.57		Total F.C.C.M.	_\$_	81.57
DIRECT EXPENSES: List by ite	m at Actual Cost - NO MARKI	JP				
TYPE OF EXPENSE Travel - Personal Vehicle Travel - Company Vehicle Count Gear	Unit Mile Mile LS	Quantity 150 50 1		Rate = \$ 0.54 \$ 0.95 \$ 500.00 Total Direct	\$ \$ \$ <b>\$</b>	Direct Cost 81.00 47.50 500.00 <b>628.50</b>
SUBCONSULTANT COSTS:						
NA				Total Subconsultant	\$ \$ \$	
FIXED FEE FOR PROFIT:						
	(Total L	abor + Total Overhea	d) x 11% =	Total Fixed Fee	_\$_	5,115.89
				TOTAL COSTS	\$	52,334.04

CONTROL SECTION(S) - JOB NUMBER(S)	PROJECT DESCRIPTION
	ANN ARBOR STATION PRELIMINARY ENGINEERING
SUBCONSULTANT NAME	
Peter Basso Associates, Inc.	
DIRECT LABOR:	
CLASSIFICATION Principal, Senior Engineer Project Manager Senior Engineer Engineer Design Coordinator Associate Architect Mechanical HVAC Engineer Electrical Engineer Plumbing and Fire Protection Engineer Cadd Operator/Associate Architect Administrator	Hours x Hourly Rate = Labor Cost   8 \$ 58.00 \$ 464.00   18 \$ 58.00 \$ 1,044.00   65 \$ 58.00 \$ 3,770.00   0 \$ 48.00 \$ -   6 \$ 40.00 \$ 240.00   0 \$ 28.00 \$ 7,056.00   147 \$ 48.00 \$ 7,152.00   48 \$ 48.00 \$ 2,304.00   34 \$ 20.00 \$ 680.00   0 \$ 20.00 \$ -   475 Total Labor \$ 22,710.00
OVERHEAD	
OVERHEAD Rate148.00% Total Labor x Overhead Ra	ate \$ 33,610.80 Total Overhead \$ 33,610.80
FACILITIES CAPITAL COST OF MONEY:	
F.C.C.M. Rate Total Labor x F.C.C.M. Ra	te <b>\$ -</b> Total F.C.C.M. <b>\$ -</b>
DIRECT EXPENSES: List by item at Actual Cost - NO MAR	RKUP
TYPE OF EXPENSE Unit Mileage to AA mtgs	Quantity       x       Rate       =       Direct Cost         1512       \$ 0.54       \$ 816.48         0       \$ -       \$ -         0       \$ -       \$ -         0       \$ -       \$ -         0       \$ -       \$ -         0       \$ -       \$ -         Total Direct       \$ 816.48
SUBCONSULTANT COSTS:	
	Total Subconsultant \$ -
FIXED FEE FOR PROFIT: (Tot	tal Labor + Total Overhead) x 11% = Total Fixed Fee \$ 6,195.29
	TOTAL COSTS \$ 63,332.57

CONTROL SECTION(S) - JOB NUMBE	R(S)	PROJECT DESCRIP	TION			
DNCE Project No. 9907		Ann Arbor Train S	tation/1	Task 3-Preliminary Eng	gineer	ing (PE) 30%*
SUBCONSULTANT NAME						
Desai/Nasr Consulting Engineers	, Inc.					
DIRECT LABOR:						
CLASSIFICATION Principal Structural Engineer Senior Structural Engineer Intermediate Structural Engineer CAD	Total Hours	Hours 36 108 120 96 0	×	Hourly Rate = \$ 62.50 \$ 47.35 \$ 37.88 \$ 28.40 \$ - \$ - Total Labor	\$ \$ \$ \$ \$ \$ \$ \$	2,250.00 5,113.80 4,545.60 2,726.40
OVERHEAD						
OVERHEAD Rate	Total Labor x Overhead Rate	\$ 20,490.12		Total Overhead	\$	20,490.12
FACILITIES CAPITAL COST O	F MONEY:					
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$ -		Total F.C.C.M.	\$	-
DIRECT EXPENSES: List by ite	m at Actual Cost - NO MARKL	JP				
TYPE OF EXPENSE	Unit	Quantity  0 0 0 0 0 0	x	Rate =  \$ - \$ - \$ - \$ - \$ - Total Direct	\$ \$ \$ \$ \$ \$ \$	Direct Cost
SUBCONSULTANT COSTS:					•	
				Total Subconsultant	\$ \$ _	-
FIXED FEE FOR PROFIT:						
	(Total La	abor + Total Overhe <mark>ad) &gt;</mark>	c 11% =	Total Fixed Fee	_\$_	3,863.85
*Cost Estimating not included				TOTAL COSTS	\$	38,989.77

<sup>\*</sup>No involvement in Tasks 1, 2 & 4

CONTROL SECTION(S) - JOB NUMBER(S)		PROJECT DESCRIP	TION			-		
NA		Ann Arbor Stati	on Pre	limir	nary Engir	neering S	ervi	ces
SUBCONSULTANT NAME								
SmithGroupJJR 9.22.16								
DIRECT LABOR:								
CLASSIFICATION		Hours	X		ourly Rate	=		Labor Cost
Sr. Landscape Architect I		220		\$	46.76		\$	10,287.20
Sr. Landscape Architect II		340		\$	38.90		\$	13,226.00
Landscape Architect I		510		\$	22.03		\$	11,235.30
Landscape Architect II		0		\$	-		\$	-
Sr. Civil Engineer I		240		\$	76.50		\$	18,360.00
Civil Engineer I		510		\$	31.07		\$	15,845.70
Environmental		80		\$	32.77		\$	2,621.60
Survey I		218		\$	44.90		\$	9,788.20
Survey II		434		\$	31.70		\$	13,757.80
CAD/Technical		200		\$	31.07		\$	6,214.00
Clerical		120		\$	21.97		\$	2,636.40
	Total Hours	2872			•	Total Labor	\$	103,972.20
F.C.C.M. Rate 0.00% Total Lal	<b>/:</b> bor x F.C.C.M. Rate	\$ -			Total i	E.C.C.M.	\$	-
F.C.C.M. Rate 0.00% Total Lal	bor x F.C.C.M. Rate				Total F	F.C.C.M.	\$	-
F.C.C.M. Rate 0.00% Total Lal	bor x F.C.C.M. Rate	JP	X		Total f	F.C.C.M.	\$	- Direct Cost
F.C.C.M. Rate 0.00% Total Lal DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE	bor x F.C.C.M. Rate Il Cost - NO MARKI		x	\$			<b>\$</b>	
F.C.C.M. Rate 0.00% Total Lal	bor x F.C.C.M. Rate Il Cost - NO MARKI Unit	JP Quantity	x	\$ \$	Rate		\$	100.00
F.C.C.M. Rate 0.00% Total Lal  DIRECT EXPENSES: List by item at Actua  TYPE OF EXPENSE  Milage	oor x F.C.C.M. Rate Il Cost - NO MARKU Unit mile	JP Quantity 200	x	\$ \$	Rate 0.50		\$ \$	100.00 3,000.00 400.00
F.C.C.M. Rate 0.00% Total Lal  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots)	oor x F.C.C.M. Rate Il Cost - NO MARKI Unit mile 24x36	JP Quantity 200 200	x	\$ \$ \$	Rate 0.50 15.00 1.00 300.00		\$ \$ \$	100.00 3,000.00 400.00 300.00
F.C.C.M. Rate 0.00% Total Lat  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400	X	\$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00		\$ \$ \$ \$	100.00 3,000.00 400.00 300.00 20,000.00
F.C.C.M. Rate 0.00% Total Lat  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research	oor x F.C.C.M. Rate  Il Cost - NO MARKI  Unit  mile  24x36  81/2x11  lump sum	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00		\$ \$ \$ \$ \$ \$	100.00 3,000.00 400.00 300.00 20,000.00
F.C.C.M. Rate 0.00% Total Lat  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20	X	\$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00 2,000.00		\$ \$ \$ \$ \$ \$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
F.C.C.M. Rate 0.00% Total Lal  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00		\$ \$ \$ \$ \$ \$	100.00 3,000.00 400.00 300.00 20,000.00
F.C.C.M. Rate 0.00% Total Lat  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00 2,000.00		\$ \$ \$ \$ \$ \$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
F.C.C.M. Rate 0.00% Total Late  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE  Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00 2,000.00		\$ \$ \$ \$ \$ \$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
F.C.C.M. Rate 0.00% Total Late  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE  Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00 2,000.00		\$\$\$\$\$\$\$\$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
F.C.C.M. Rate 0.00% Total Lal  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00 2,000.00 - Total	= Direct	\$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
F.C.C.M. Rate 0.00% Total Lal  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00 2,000.00	= Direct	\$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
F.C.C.M. Rate 0.00% Total Lal  DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)	oor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days	Quantity 200 200 400 1 20 1	X	\$ \$ \$ \$	Rate 0.50 15.00 1.00 300.00 1,000.00 2,000.00 - Total	= Direct	\$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)  SUBCONSULTANT COSTS:	bor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days lump sum	Quantity 200 200 400 1 20 1		\$ \$ \$ \$ \$	Rate	= Direct	\$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00
DIRECT EXPENSES: List by item at Actual TYPE OF EXPENSE Milage Printing (plots) Printing (handouts) Survey Research Rail Coordination (flagman) Misc (room charges, ads, supplies, meals)  SUBCONSULTANT COSTS:	bor x F.C.C.M. Rate  Unit mile 24x36 81/2x11 lump sum days lump sum	Quantity 200 200 400 1 20 1 0		\$ \$ \$ \$ \$	Rate	= Direct	\$\$\$\$\$\$\$\$\$\$\$\$\$	100.00 3,000.00 400.00 300.00 20,000.00 2,000.00

CONTROL SECTION(S) - JOB NUMBER(S)		PROJECT DESCRIPTION				
		ANN ARBOR STATION PRELIMINARY ENGINEERING SERVICES GEOTECHNICAL SERVICES				
SUBCONSULTANT NAME						
SOMAT ENGINEERING, INC						
DIRECT LABOR:						
CLASSIFICATION		Hours	X	Hourly Rate =		Labor Cost
SR. PROJECT MANAGER		10		\$ 60.10	\$	601.00
PROJECT MANAGER		36		\$ 43.00	\$	1,548.00
PROJECT ENGINEER		80		\$ 31.00	\$	2,480.00
STAFF GEOLOGIST		8		\$ 28.00	\$	224.00
LABORATORY SUPERVISOR		34		\$ 19.50	\$	663.00
FIELD ENGINEER		126		\$ 21.00	\$	2,646.00
FIELD TECHNICIAN		56		\$ 18.50	\$	1,036.00
CLERICAL		10		\$ 19.50	\$	195.00
	Total Hours	360		Total Labor	_\$	9,393.00
OVERHEAD						
OVERHEAD Rate 172.90%	Total Labor x Overhead Rate	\$ 16,240.50		Total Overhead	_\$	16,240.50
FACILITIES CAPITAL COST O	F MONEY:					
F.C.C.M. Rate	Total Labor x F.C.C.M. Rate	\$ -		Total F.C.C.M.	\$	-
DIRECT EXPENSES: List by ite	em at Actual Cost - NO MARKU	P				
TYPE OF EXPENSE	Unit	Quantity	Х	Rate =		Direct Cost
Mileage	per mile	550		\$ 0.56	\$	308.00
Pavement Coring	each	10		\$ 75.00	\$	750.00
E-Rail training	Lump sum	1		\$ 500.00	\$	500.00
Sample Jars	each	100		\$ 20.00	\$	2,000.00
		0		\$	\$	-
SUBCONSULTANT COSTS:				Total Direct		3,558.00
SUBCONSULTANT COSTS:						
Drilling subcontractor					\$	24,750.00
Railroad Flagger					\$	20,000.00
Tree Clearing					\$	7,500.00
· ·				Total Subconsultant	\$	52,250.00
FIXED FEE FOR PROFIT:						
	(Total La	abor + Total Overhead	d) x 15% =	Total Fixed Fee	\$	3,845.02
				TOTAL COSTS	\$	85,286.52