

**SIGNATURE PAGE**

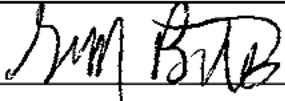
**P-37-2022**

To the Monmouth County Board of County Commissioners:


**THE UNDERSIGNED HEREBY DECLARES THAT  
I (WE) HAVE CAREFULLY EXAMINED THE SPECIFICATIONS.  
I (WE) HEREBY CERTIFY PRICES QUOTED ARE IN ACCORDANCE  
WITH YOUR REQUIREMENTS.**

Company Name: Traffic Planning and Design, Inc.

Preparer's Name: Gregory Bitsko, PE, PP, (PRINT)  
New Jersey Regional Office Manager/Structures Leader  
(PRINT)

Signature:  October 11, 2022  
(DATE)


Address: 303 West Main Street, Suite 330  
Freehold, NJ 07728

Telephone No.: Office: 848.444.6105 Direct: 848.208.3428 Cell: 

Fax No.: 610.326.9410

E-Mail Address: GBitsko@TrafficPD.com  
**\*\*\* (This should be the email where Contracts would be sent) \*\*\***

Contact Person: Gregory Bitsko, PE, PP

FEIN: 

(Federal Employee ID)  
 BRC: 0812128

(Business Registration Certificate)

(Revised 2/2017)



PROJECT COST AND WORK HOUR PROPOSAL FORM  
**DETAILED BREAKDOWN OF TASKS AND HOURS**



PROFESSIONAL ENGINEERING SERVICES REGARDING THE DESIGN FOR THE REPLACEMENT OF BRIDGE A-38  
 ON COUNTY ROUTE 54 (PHALANX ROAD) OVER SWIMMING RIVER RESERVOIR IN THE TOWNSHIP OF COLTS NECK AND THE TOWNSHIP OF MIDDLETOWN  
 MONMOUTH COUNTY, NEW JERSEY



Task	Description	PVII (Sr. Project Manager)	PVI (Project Manager)	PV (Technical Manager)	PIV (Project Engineer)	PIII (Engineer)	PII (Junior Engineer)	ET5 (Senior Technician)	ET4 (Technician)	ET3 (Junior Technician)	Tech Sec (Admin.)		Labor Cost By Task
1	Field Survey (Bancs)	0	0	0	0	0	0	0	0	0	0	0	\$0.00
2	Deed Research & ROW Documents (Bancs)	0	0	0	0	0	0	0	0	0	0	0	\$0.00
3	Geotechnical Services (DPA)	0	0	0	0	0	0	0	0	0	0	0	\$0.00
4	Hydrologic and Hydraulic Analysis (SWN)	0	0	0	0	0	0	0	0	0	0	0	\$0.00
5	Environmental Study & Permits	0	0	0	0	32	24	0	0	0	0	0	\$5,870.40
	1. Wetland delineation		1				24					25	\$2,995.20
	2. Individual Freshwater Wetland and Open Water Permit		1				60					61	\$7,207.20
	3. Individual Flood Hazard Permit		2				60					62	\$7,394.40
	4. BMP Measures		4				40					44	\$5,428.80
	5. Permit Plans		2		32							34	\$4,534.40
	6. Coordination with County/NJDEP		2				8					10	\$1,310.40
6	Alternatives Analysis	0	0	0	60	0	0	0	0	0	0	66	\$9,032.00
	Concept Roadway Design												
	1. Roadway Design Alternatives				12							12	\$1,716.00
	2. Cost Estimates & Narrative Report		2		12							14	\$2,090.40
	Concept Bridge Design												
	1. Bridge Alternatives Analysis & Narrative Report		2		12							14	\$2,090.40
	2. Bridge Geometric Sketches				12							12	\$1,716.00
	3. Bridge Cost Estimates		2		12							14	\$2,090.40



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7	<b>Bridge Design &amp; Contract Documents</b>	8	0	106	0	304	0	0	0	0	0	423	\$60,508.00
	<b>Interim Design</b>												
	1. General Plan and Elevation			4		10						14	\$1,976.00
	2. Demolition Plan			2		6						8	\$1,118.00
	3. Bridge Section and Working Points			2		8						10	\$1,378.00
	4. Bridge Staging Sections			4		10						14	\$1,976.00
	5. Pile Design			4		8						12	\$1,716.00
	6. Pile Plans			4		10						14	\$1,976.00
	7. Footing Design			4		8						12	\$1,716.00
	8. Footing Plans			4		12						16	\$2,236.00
	9. Abutment Design			4		14						18	\$2,496.00
	10. Abutment Plans			4		12						16	\$2,236.00
	11. Bearing Design			4		8						12	\$1,716.00
	12. Bearing Plans			4		8						12	\$1,716.00
	13. Beam Design			4		16						20	\$2,756.00
	14. Beam Plans			4		14						18	\$2,496.00
	15. Wingwall Design			4		10						14	\$1,976.00
	16. Wingwall Plans			4		12						16	\$2,236.00
	17. Parapet / Railing Details			4		10						14	\$1,976.00
	18. Miscellaneous Details			2		10						12	\$1,638.00
	19. Quantities			6		26						32	\$4,394.00
	20. Sheetting Wall Design			4		8						12	\$1,716.00
	21. Sheetting Wall Plans			3		12						15	\$2,067.00
	<b>Final Design</b>												
	1. General Plan and Elevation			2		6						8	\$1,118.00
	2. Demolition Plan			1		4						5	\$689.00
	3. Bridge Section and Working Points			2		6						8	\$1,118.00
	4. Bridge Staging Sections			2		6						8	\$1,118.00
	5. Pile Plans			2		6						8	\$1,118.00
	6. Footing Plans			2		6						8	\$1,118.00
	7. Abutment Plans			2		6						8	\$1,118.00
	8. Bearing Plans			2		6						8	\$1,118.00
	9. Beam Plans			2		6						8	\$1,118.00
	10. Wingwall Plans			2		6						8	\$1,118.00
	11. Parapet / Railing Details			2		6						8	\$1,118.00
	12. Miscellaneous Details			2		6						8	\$1,118.00
	13. Quantities			2		6						8	\$1,118.00
	14. Sheetting Wall Plans			2		6						8	\$1,118.00
	15. Quality Assurance	8										8	\$1,664.00

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<b>8</b>	<b>Highway Design &amp; Contract Documents</b>	<b>32</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>0</b>	<b>329</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>507</b>	<b>\$50,977.40</b>
	Interim Design												
	1. Key Sheet					2		3				5	\$533.00
	2. Typical Section (1" = 5")		1			2		16				19	\$1,903.20
	3. Plan Sheet Layout - Including Survey ties		1			3		10				14	\$1,487.20
	4. Construction Plan		1			8		24				33	\$3,411.20
	5. Horizontal and Vertical Design		6			20						26	\$3,723.20
	6. Profile plan		1			3		10				14	\$1,487.20
	7. Guide Rail Design		1			2		8				11	\$1,175.20
	8. Grading Plans		1			6		24				31	\$3,151.20
	9. Signing & Striping Plan		1			2		16				19	\$1,903.20
	10. Staging Plans		2			4		24				30	\$3,078.40
	11. SESC Plans		4			6		30				40	\$4,258.80
	12. Cross Sections		4			8		40				52	\$5,428.80
	13. Construction Details					2		8				10	\$988.00
	14. Quantities		1			6		24				31	\$3,151.20
	15. Engineer's Estimate		1			3		8				12	\$1,305.20
	16. Specifications	4										4	\$332.00
	Final Design												
	1. Key Sheet		1			1		1				3	\$408.20
	2. Typical Section (1" = 5")		1			2		4				7	\$811.20
	3. Plan Sheet Layout - Including Survey ties		1			2		2				5	\$629.20
	4. Construction Plan		2			2		8				12	\$1,362.40
	5. Profile		1			2		6				9	\$993.20
	6. Grading Plan		1			2		6				9	\$993.20
	7. Signing & Striping Plan		1			2		4				7	\$811.20
	8. Staging Plans		2			4		16				22	\$2,350.40
	9. SESC Plans		2			2		16				20	\$2,090.40
	10. Cross Sections		2			2		10				14	\$1,544.40
	11. Construction Details		1			2		2				5	\$629.20
	12. Quantities		1			2		6				9	\$993.20
	13. Engineer's Estimate		1			2		3				6	\$720.20
	14. Specifications	20										20	\$4,160.00
	15. Quality Assurance	8										8	\$1,664.00



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<b>0</b>	<b>Traffic Design &amp; Contract Documents</b>	0	8	0	4	0	50	0	0	0	0	62	\$7,910.60
	1. Coordination with Local Authorities		2				2					4	\$608.40
	2. Alternating Temporary Traffic Signal Design		4		4		44					52	\$6,468.80
	3. Evaluate traffic detour as an alternative		2				4					6	\$842.40
<b>10</b>	<b>Utility Coordination &amp; Contract Documents</b>	0	0	14	0	0	26	0	0	0	0	40	\$5,408.00
	1. Prepare and Maintain Contact List			2			4					6	\$806.00
	2. Verify Existing Facilities			2			4					6	\$806.00
	3. Utility Coordination & Field Meeting			4			6					10	\$1,378.00
	4. Evaluate Utility Relocations			2			4					6	\$806.00
	5. Prepare Utility Relocation Plans			2			4					6	\$806.00
	6. Document Utility Relocation/Coordination			2			4					6	\$806.00
<b>11</b>	<b>Meetings &amp; Community Involvement</b>	0	14	4	14	0	0	0	0	0	0	32	\$5,328.00
	1. Kick-off Meeting		2	2								4	\$712.40
	2. Meeting with Municipal Traffic Safety Officer			2	2							4	\$624.00
	3. Meetings w/ Stake Holders (assume 2)		6		6							12	\$1,981.20
	4. Pre-Application Meeting		2		2							4	\$660.40
	5. Project Status/Submission Meetings		4		4							8	\$1,320.80
<b>12</b>	<b>Project Management</b>	4	28	0	0	0	0	0	0	0	0	32	\$6,074.60
	1. Progress Reports (12)		8									8	\$1,497.60
	2. Project Coordination		14									14	\$2,620.80
	3. Organize Correspondence		6									6	\$1,123.20
	4. Quality Assurance	4										4	\$832.00
<b>13</b>	<b>Construction Support</b>	0	0	14	0	0	40	0	0	0	0	54	\$7,046.00
	1. Shop Drawings			6			40					46	\$5,694.00
	2. Requests for Information (RFIs)			6								6	\$1,014.00
	3. Substitutions			2								2	\$338.00
	Man-Hours	44	110	138	78	450	308	329	0	0	0	1,457	
	Direct Salary Rate (See Note 1)	\$80.00	\$72.00	\$65.00	\$55.00	\$50.00	\$45.00	\$35.00	\$30.00	\$28.00	\$25.00		
	Multiplier (See Note 2)	2.60											
	<b>TOTAL LABOR COST</b>	<b>\$9,152.00</b>	<b>\$20,592.00</b>	<b>\$23,322.00</b>	<b>\$11,154.00</b>	<b>\$58,500.00</b>	<b>\$36,036.00</b>	<b>\$29,939.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		<b>\$188,695.00</b>