100 % AUTO CALC ENGINEERS COST ESTIMATE FORM FOR SUBMISSION TO BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION

PROJECT NAME City of Pompano Beach Fire Station #114

IMPROVEMENT Development of a vacant lot to construct a Fire Station

PREPARED BY Omar Rodriguez

DATE August 12, 2020

NOTE : THE UNIT PRICES SHOWN ON THIS FORM ARE VALID FOR ONE YEAR FROM OCTOBER 1, 2014.

ROADWAY CONSTRUCTION	Quantity	Unit Measure	x	Unit Price	= $	
Excavation	263.56	C.Y.	x	$8.65	=	$2,279.79
Embankment(Fill)		C.Y.	x	$21.70	=	
Type B Stabilization		S.Y.	x	$3.50	=	
Stabilized Subgrade	351.5349889	S.Y.	x	$1.20	=	$421.84
RipRap		C.Y.	x	$147.00	=	
8 Inch Limerock Base		S.Y.	x	$9.11	=	
12 Inch Limerock Base	351.5349889	S.Y.	x	$13.60	=	$4,780.88
3/4 Inch Asphalt		S.Y.	x	$5.77	=	
1 Inch Asphalt		S.Y.	x	$7.66	=	
1 1/4 Inches Asphalt	351.5349889	S.Y.	x	$9.60	=	$3,374.74
2 Inches Asphalt		S.Y.	x	$15.41	=	
5/8 Inch FC2 Asph Conc Friction Course		S.Y.	x	$4.79	=	
1 Inch FC3 Asph Conc Friction Course	351.5349889	S.Y.	x	$7.66	=	$2,692.76
Mill Existing Asph (3/4"Avg Depth)	56.40222222	S.Y.	x	$2.66	=	$150.03
Pavement Removal	364.19	S.Y.	x	$20.76	=	$7,560.58
Truing and Leveling		TONS	x	$152.00	=	
Pavement Restoration	139.5853111	S.Y.	x	$53.23	=	$7,430.13
Temporary Concrete Barrier		L.F.	x	$1.20	=	
Type F Curb and Gutter	8.5	L.F.	x	$16.09	=	$136.77
Type F Curb and Gutter Removal	8.5	L.F.	x	$5.09	=	$43.27
Type D Curb		L.F.	x	$16.42	=	
Valley Gutter	218	L.F.	x	$18.09	=	$3,943.62
Conc. Traffic Separator IV 2'		L.F.	x	$25.61	=	
Conc. Traffic Separator IV 4'		L.F.	x	$32.92	=	
Conc. Traffic Separator IV 6'		L.F.	x	$47.52	=	
Conc. Traffic Separator IV VW		L.F.	x	$73.92	=	
Guardrail		L.F.	x	$15.58	=	
Removal of existing Guardrail		L.F.	x	$2.23	=	
Reset Guardrail		L.F.	x	$17.65	=	
Pipe Handrail (Aluminium)		L.F.	x	$33.43	=	
End Anchorage Assembly Type II		E.A.	x	$1,620.00	=	
End Anchorage Assembly Type IV		E.A.	x	$660.00	=	
Tree Removal		E.A.	x	$1,082.00	=	
Topsoil (4 Inches)		S.Y.	x	$2.76	=	
Seed and Mulch		S.Y.	x	$1.08	=	
Sodding	126.5	S.Y.	x	$3.71	=	$469.32
Directional Drilling		L.F.	x	$29.00	=	

Roadway Construction Total $33,283.71

DRAINAGE CONSTRUCTION	Quantity	Unit Measure	x	Unit Price	= $
Inlets (Curb) (Type P-5) (<10)		E.A.	x	$3,524.00	=
Inlets (Curb) (Type P-5) (Part)		E.A.	x	$2,776.00	=
Inlets (Curb) (Type P-5) (>10)		E.A.	x	$3,805.73	=
Inlets (Curb) (Type P-6) (<10)		E.A.	x	$4,748.00	=
Inlets (Curb) (Type P-6) (Part)		E.A.	x	$4,933.00	=
Inlets (Curb) (Type J-5) (<10)		E.A.	x	$5,326.00	=
Inlets (Curb) (Type J-6) (<10)		E.A.	x	$4,866.00	=
Inlets (Ditch Bot) (Type B) (<10)		E.A.	x	$2,777.00	=
Inlets (Ditch Bot) (Type C) (<10)		E.A.	x	$2,530.00	=
Inlets (Ditch Bot) (TypeC) (JBot<10)		E.A.	x	$2,520.00	=
Inlets (Ditch Bot) (TypeC) (PBot<10)		E.A.	x	$1,680.00	=
Inlets (Ditch Bot) (TypeC Mod) (<10)		E.A.	x	$4,731.00	=
Inlets (Ditch Bot) (Type F) (<10)		E.A.	x	$3,438.00	=
Overflow/Retardent Baffle 30In		L.F.	x	$258.00	=
Overflow/Retardent Baffle 36In		L.F.	x	$276.00	=
Overflow/Retardent Baffle 60In		L.F.	x	$516.00	=
Conflict Structure		E.A.	x	$6,454.00	=

Drainage Construction Continued on Page 2

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DRAINAGE CONSTRUCTION (cont'd)	Quantity	Unit Measure	x	Unit Price	= $
Manholes (Type P-7T) (<10)		E.A.	x	$3,881.00	=
Manholes (Type P-7T) (>10)		E.A.	x	$4,358.00	=
Manholes (Type P-7T) (Partial)		E.A.	x	$2,711.00	=
Manholes (P-7) (Conflict)		E.A.	x	$3,600.00	=
Manholes (J-7T) (<10')		E.A.	x	$5,311.00	=
Manholes (J-7T) (>10')		E.A.	x	$8,114.00	=
Manholes (J-7) (Conflict)		E.A.	x	$4,902.00	=
Adjusting Inlets		E.A.	x	$2,442.00	=
Adjusting Manholes		E.A.	x	$8,400.00	=
Pollution Control Str. (Type W)		E.A.	x	$5,160.00	=
Pollution Control Str. (Type M)		E.A.	x	$4,800.00	=
Junction Box (P-7) (Partial)		E.A.	x	$3,840.00	=
Junction Box (J-7T) (>10)		E.A.	x	$3,744.00	=
Junction Box (J-7NT) (Partial)		E.A.	x	$2,984.00	=
Conc Pipe Culvert (15 In.SS)		L.F.	x	$41.76	=
Conc Pipe Culvert (18 In.SS)		L.F.	x	$65.64	=
Conc Pipe Culvert (24 In.SS)		L.F.	x	$67.54	=
Conc Pipe Culvert (30 In.SS)		L.F.	x	$82.50	=
Conc Pipe Culvert (36 In.SS)		L.F.	x	$96.00	=
Conc Pipe Culvert (42 In.SS)		L.F.	x	$144.00	=
Conc Pipe Culvert (48 In.SS)		L.F.	x	$184.00	=
Conc Pipe Culvert (54 In.SS)		L.F.	x	$204.00	=
Conc Pipe Culvert (60 In.SS)		L.F.	x	$224.00	=
Conc Pipe Culvert (66 In.SS)		L.F.	x	$250.00	=
Conc Pipe Culvert (72 In.SS)		L.F.	x	$300.00	=
Conc Pipe Culvert (78 In.SS)		L.F.	x	$400.00	=
Conc Pipe Culvert (84 In.SS)		L.F.	x	$450.00	=
Conc Pipe Culvert (96 In.SS)		L.F.	x	$480.00	=
Class I Conc (Endwall)		C.Y.	x	$600.00	=
Class I Conc (Retaining Wall)		C.Y.	x	$468.00	=
Class II Conc (Endwall)		C.Y.	x	$634.00	=
Class II Conc (Retaining Wall)		C.Y.	x	$480.00	=
Class II Conc (Gravity Wall)		C.Y.	x	$125.00	=
French Drain (15 In)		L.F.	x	$200.00	=
French Drain (18 In)		L.F.	x	$225.00	=
French Drain (24 In)		L.F.	x	$250.00	=
French Drain (30 In)		L.F.	x	$265.00	=
French Drain (36 In)		L.F.	x	$390.00	=
French Drain (42 In)		L.F.	x	$410.00	=
Riprap (Sand-Cement) (Roadway)		C.Y.	x	$406.00	=
Riprap (Sand-Cement) (Bridge)		C.Y.	x	$487.00	=
Riprap Fabric Formed		S.Y.	x	$68.25	=

Drainage Construction Total	(SUM WILL BE PLACED HERE AND ON PAGE 4 AUTOMATICALLY)	$0.00

SIDEWALK CONSTRUCTION	Quantity	Unit Measure	x	Unit Price	= $	
Concrete Sidewalk (4 in)		S.Y.	x	$32.34	=	
Concrete Sidewalk (6 in)		S.Y.	x	$43.28	=	
5 Ft. Concrete Sidewalk (4 in)		L.F.	x	$17.97	=	
6 Ft. Concrete Sidewalk (4 in)		L.F.	x	$21.56	=	
7 Ft. Concrete Sidewalk (4 in)		L.F.	x	$25.11	=	
5 Ft. Concrete Sidewalk (6 in)	233	L.F.	x	$24.04	=	$5,601.32
6 Ft. Concrete Sidewalk (6 in)	81	L.F.	x	$28.85	=	$2,336.85
7 Ft. Concrete Sidewalk (6 in)		L.F.	x	$33.66	=	
5 Ft. Asphalt Sidewalk		L.F.	x	$16.81	=	
6 Ft. Asphalt Sidewalk		L.F.	x	$20.17	=	
7 Ft. Asphalt Sidewalk		L.F.	x	$23.53	=	
5 Ft. Concrete Sidewalk Rem'l	314	L.F.	x	$6.00	=	$1,884.00
6 Ft. Concrete Sidewalk Rem'l		L.F.	x	$7.20	=	
7 Ft. Concrete Sidewalk Rem'l		L.F.	x	$8.40	=	
ADA Ramps Single	6	E.A.	x	$1,600.00	=	$9,600.00
ADA Ramps Double		E.A.	x	$1,900.00	=	

Sidewalk Construction Total	(SUM WILL BE PLACED HERE AND ON PAGE 4 AUTOMATICALLY)	$19,422.17

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BRIDGE CONSTRUCTION	Quantity	Unit Measure	x	Unit Price	= $
Conc Class II (Superstructure)		C.Y.	x	$990.00	=
Conc Class IV (Substructure)		C.Y.	x	$1,200.00	=
Handrail Conc (Parapet Type)		L.F.	x	$84.00	=
Bridge Floor Grooving		S.Y.	x	$4.80	=
Composite Neoprene Pads		C.F.	x	$510.00	=
Traffic Railing (F&I) (Barrier)		L.F.	x	$139.00	=
Reinf Steel (Superstructure)		LB.	x	$2.09	=
Reinf Steel (Substructure)		LB.	x	$1.86	=
Prestress Beam (Type III)		L.F.	x	$246.00	=
Pre Slab Unit Tran Post Tns 18		S.F.	x	$52.74	=
Piling Furn (Prest Conc) (18" sq)		L.F.	x	$81.62	=
Piling Drive (Prest Conc) (18" sq)		L.F.	x	$1.20	=
Test Piles Unloaded (18" sq)		L.F.	x	$108.00	=
Test Piles Furnished (18" sq)		L.F.	x	$197.00	=
Test Piles Driven (18" sq)		L.F.	x	$1.20	=
Pile Splices (18")		E.A.	x	$1,296.00	=
Pile Redrive		E.A.	x	$480.00	=
Exp Joint Seal (Strip Elast)		L.F.	x	$228.00	=
Riprap (Fabric Formed Conc)		S.Y.	x	$68.25	=

Bridge Construction Total (SUM WILL BE PLACED HERE AND ON PAGE 4 AUTOMATICALLY) $0.00

LIGHTING CONSTRUCTION	Quantity	Unit Measure	x	Unit Price	= $
Grounding Electrode (F & I)		L.F.	x	$13.72	=
Conductors (F&I/Insulated/No 6)		L.F.	x	$2.18	=
Conductors (F&I/Insulated/No 2)		L.F.	x	$2.40	=
Conductors (F&I/Bare/No 6)		L.F.	x	$0.84	=
Conduit (F&I Underground/PVC S40 2")		L.F.	x	$9.67	=
Conduit (F&I Underground/Rigid G 2")		L.F.	x	$2.06	=
Conduit (F&I Underpavement/PVC S40 2")		L.F.	x	$10.80	=
Conduit (Underpavement - Rigid) 2"		L.F.	x	$27.06	=
Conduit (F&I SF MT/Rigid G 3/4")		L.F.	x	$10.92	=
Conduit (F&I SF MT/Rigid G 2")		L.F.	x	$12.84	=
Load Center (F&I/Second Volt)		E.A.	x	$10,568.00	=
Luminaire (F&I/Underdeck WL MT)		E.A.	x	$803.00	=
Pull Box (F&I) (Roadside)		E.A.	x	$576.00	=
Pull Box (F&I) (Sidewalk)		E.A.	x	$584.00	=
Photo Elect Control Assembly (F&I)		E.A.	x	$50.40	=
Lighting Pole Complete		E.A.	x	$3,895.00	=
Light Pole Cmp (F&I/SGL CNC 50)		E.A.	x	$3,250.00	=
Light Pole Cmp (F&I/SGL ALM 50)		E.A.	x	$5,019.00	=
Light Pole C (RE\P TOP MT CONC)		E.A.	x	$600.00	=

Lighting Construction Total (SUM WILL BE PLACED HERE AND ON PAGE 4 AUTOMATICALLY) $0.00

SIGNALIZATION INSTALLATION	Quantity	Unit Measure	x	Unit Price	= $
Conduit (F&I open trench)		L.F.	x	$5.04	=
Conduit (F&I Directional Drill)		L.F.	x	$29.00	=
Signal Cable (F&I New Intersection)		P.I.	x	$4,787.00	=
Pull & Splice Box (F&I 13"x24" cover size)		E.A.	x	$576.00	=
Electrical Power Service (F&I Underground)(Meter Purchased by Contractor)		A.S.	x	$1,455.00	=
Electrical Service Wire (F&I)		L.F.	x	$1.77	=
Prestressed Concrete Pole (F&I) (Type P-11 12' Service Pole)		E.A.	x	$1,511.00	=
Aluminum Signal Pole (F&I Pedestal)		E.A.	x	$1,051.00	=
Mast Arm (Install)		E.A.	x	$28,190.00	=
Traffic Signal (F&I 3 Section 1 way, Aluminum)		A.S.	x	$931.00	=
Traffic Signal (F&I 5 Section 1 way, Aluminum)		A.S.	x	$1,324.00	=
Pedestrian Signal (F&I LED Countdown 1 Direction)		A.S.	x	$630.00	=
Pedestrian Signal (F&I LED Countdown 2 Direction)		A.S.	x	$1,228.00	=
Vehicle Detection System (Video F&I Cabinet Equipment)		E.A.	x	$5,577.00	=
Vehicle Detection System (Video F&I Aboveground Equipment)		E.A.	x	$6,465.00	=
Vehicle Detection Assemblies (F&I Emergency Preemption)		E.A.	x	$6,345.00	=
Pedestrian Detector (F&I Pole Mounted Detector Station & sign)		E.A.	x	$230.00	=
Internal Illuminated Sign (F&I LED Street name)		E.A.	x	$2,472.00	=
Traffic Controller Assembly (F&I Special One Preemption Plan)		A.S.	x	$31,586.00	=

Signalization Installation Construction Total (SUM WILL BE PLACED HERE AND ON PAGE 4 AUTOMATICALLY) $0.00

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Roadway Construction Total from Page 1 * Use this figure for Pavement Marking and Signing Calculations			=	$33,283.71
Drainage Construction Total from Page 2			=	$0.00
Sidewalk Construction Total from Page 2			=	$19,422.17
Bridge Construction Total from Page 3			=	$0.00
Lighting Construction Total from Page 3			=	$0.00
Signalization Installation Construction Total from Page 3			=	$0.00
Sum of Roadway, Drainage, Sidewalk, Bridge, Lighting, & Signalization Installation Construction Costs this page			=	$52,705.88
Clearing and Grubbing	**	3%	=	$1,581.18
Mobilization	**	9%	=	$4,743.53
Maintenance of Traffic	**	7%	=	$3,689.41
Testing & Miscellaneous	**	2%	=	$1,054.12
Utility Relocation	L.S.		=	$20,000.00
* Pavement Marking & Signing Amount. * Amount calculated automatically using Roadway Construction Total listed above.			=	$4,598.51
Total Estimated Improvement Amount (Sum of Roadway, Drainage, Sidewalk, Bridge, Lighting, Signalization Installation, Clearing and Grubbing, Mobilization, Maintenance of Traffic, Testing & Miscellaneous Construction, Utility Relocation and Pavement Marking and Signing from this page.)			=	$88,372.63

** This form automatically multiplies the sum of the Roadway, Drainage, Sidewalk, Bridge, Lighting, & Signalization Installation Construction Costs listed above by the percentage to the right of the asterisks.

TOTAL ESTIMATED IMPROVEMENT AMOUNT ROUNDED TO THE NEAREST DOLLAR **$88,373.00**

Security Release Fees will be calculated based on each security submitted to this office.

Registered Professional Engineer

Date

Seal