

DATE 10/30/2024

CITY OF PHOENIX
TRAFFIC SERVICES DIVISION

COST ESTIMATE FOR
3140 W Buckeye Rd / HAWK

Materials	\$	66,576.54
Labor	\$	43,368.00
Utility Service & Traffic Control	\$	16,000.00
Sub-Contracted Underground	\$	25,000.00
Sub-Contracted Flat Work	\$	30,000.00
Sub-Total	\$	180,944.54
5% Contingency	\$	9,055.46
TOTAL- City of Phoenix Costs for Project	\$	190,000.00

PREPARED BY

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Traffic Signal Supervisor
CITY OF PHOENIX
TRAFFIC SERVICES DIVISION
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MATERIAL COST ESTIMATE

FOR

3140 W Buckeye Rd / HAWK

MATERIAL DESCRIPTION	QUANTITY	PRICE EA.	TOTAL
2017 STANDARDS POLES - New Inven+56:112tory			
PB Pole - 48"		\$ 264.00	
A Pole - 15'		\$ 505.00	
A Pole - 20'		\$ 609.00	
LM Pole		\$ 2,086.00	
SM Pole		\$ 3,774.00	
SR Pole		\$ 4,943.00	
SQ Pole		\$ 5,302.00	
CAGES & BOLTS			
PB Cage		\$ 214.00	
A Pole Cage (15' or 20')		\$ 586.00	
LM & G Pole Cage		\$ 707.00	
SM Pole Cage		\$ 1,347.00	
SR Pole Cage		\$ 1,982.00	
SQ Pole Cage		\$ 2,023.00	
2017 STANDARDS MAST ARMS & EXTENSIONS - New Price			
SM - SR 14" Mast Arm Extension		\$ 91.00	
SM - SR 5' Mast Arm Extension		\$ 238.00	
SM - SR 10' Mast Arm Extension		\$ 355.00	
SM - SR 15' Mast Arm Extension		\$ 1,972.00	
SM - SR 25' Primary Mast Arm		\$ 2,445.00	
SR - 40' Primary Mast Arm		\$ 4,481.00	
SQ - 15' Mast Arm Extension		\$ 613.00	
SQ - 20' Mast Arm Extension		\$ 973.00	
SQ - 40' Primary Mast Arm		\$ 6,183.00	
2017 STANDARDS RISERS for LM, SM, SR, SQ			
1' Riser		\$ 307.00	
5' Riser		\$ 402.00	
10' Riser		\$ 521.00	
20' Riser		\$ 964.00	
2020 STANDARDS POLES - BP, AP-15, AP-20, LP, GP, P45, DP45, P70, DP70			
BP Pole - 48"		\$ 650.00	
AP Pole - 15'		\$ 1,475.00	
AP Pole- 20'		\$ 1,761.00	
LP Pole		\$ 2,548.00	
GP Pole		\$ 2,584.00	
P45 Pole Shaft		\$ 9,172.00	
DP45 Pole Shaft		\$ 12,360.00	
P70 Pole Shaft		\$ 13,116.00	
DP70 Pole Shaft		\$ 16,278.00	
CAGES & BOLTS			
BP Pole Cage		\$ 616.00	
AP Pole Cage	1	\$ 879.00	\$ 889.00
LP Pole Cage		\$ 1,572.00	
GP Pole Cage		\$ 905.00	
P45 & DP 45 Pole Cage		\$ 2,838.00	
P70 & DP 70 Pole Cage	1	\$ 4,954.00	\$ 4,964.00
MAST ARMS & EXTENSIONS			
Luminaire Mast Arm	1	\$ 270.00	\$ 270.00
P45 & DP45 15' Primary Signal Mast Arm		\$ 4,968.00	
P45 & DP45 30' Primary Signal Mast Arm		\$ 6,638.00	
P70 & DP70 15' Primary Signal Mast Arm		\$ 4,875.00	

P70 & DP70 30' Primary Signal Mast Arm		\$	7,740.00	
P70 & DP70 40' Primary Signal Mast Arm		\$	11,165.00	
P70 & DP70 55' Primary Signal Mast Arm	1	\$	16,228.00	\$ 16,228.00
E1 - 1' Mast Arm Extension for P45 & P70	1	\$	459.00	\$ 459.00
E5 - 5' Mast Arm Extension for P45 & P70		\$	695.00	
E10 - 10' Mast Arm Extension for P45 & P70		\$	900.00	
E15 - 15' Mast Arm Extension for P45 & P70		\$	1,139.00	
Pole Exstentions/ Risers for AP, LP, P45, DP45, P70. DP70				
1' - Riser - 1 Luminaire Shoe		\$	438.00	
1' - Riser - 2 Luminaire Shoes @ 90 degrees		\$	525.00	
1' - Riser - 2 Luminaire Shoes @ 180 degrees		\$	525.00	
5' - Riser - 1 Luminaire Shoe		\$	695.00	
5' - Riser - 2 Luminaire Shoes @ 90 degrees		\$	764.00	
5' - Riser - 2 Luminaire Shoes @ 180 degrees		\$	764.00	
10' - Riser - 1 Luminaire Shoe		\$	970.00	
10' - Riser - 2 Luminaire Shoes @ 90 degrees		\$	1,041.00	
10' - Riser - 2 Luminaire Shoes @ 180 degrees		\$	1,041.00	
20' - Riser - 1 Luminaire Shoe	1	\$	1,511.00	\$ 1,511.00
20' - Riser - 2 Luminaire Shoes @ 90 degrees		\$	1,557.00	
20' - Riser - 2 Luminaire Shoes @ 180 degrees		\$	1,557.00	
Mast Arm Damper	1	\$	1,881.00	\$ 1,881.00
SIGNAL HEADS				
12" 3 Section Head Type F - B-Mount		\$	346.00	
12" 3 Section Head, Type F1 w/plumbizer	5	\$	444.00	\$ 2,220.00
12" 3 Section Head Type T HAWK Head B-Mount	2	\$	465.00	\$ 930.00
12" 3 Section Head Type T1 HAWK Head w/plumbizer		\$	562.00	
12" 5 Section Head Head Type Q (In-line) - B-Mount		\$	589.00	
12" 5 Section Head Type Q2 (doghouse) w/plumbizer		\$	813.00	
12" 3 Section Arrow Head Type R - B-Mount		\$	357.00	
12" 3 Section Arrow Head Type R1 w/plumbizer		\$	455.00	
12" 4 Section Head Green Arrow Type G - B-Mount		\$	385.05	
12" 4 Section Head Green Arrow Type G1 w/plumbizer		\$	558.05	
12" 4 Section Head Flashing Yellow Arrow Type FA - B-Mount		\$	461.00	
12" 4 Section Head Flashing Yelow Arrow Type FA1 w/plumbizer		\$	557.00	
Pedestrian Signal Head	2	\$	236.00	\$ 472.00
Pedestrian Module & B-Mount Mounting Arms (Pair)	4	\$	68.00	\$ 272.00
Astro Brackets	5	\$	100.00	\$ 500.00
POWER SERVICE PEDESTALS				
TYPE "A" Power Service Pedestal	1	\$	2,500.00	\$ 2,500.00
TYPE "B" Power Service Pedestal w/Battery Back-up		\$	9,062.00	
TYPE "B-2" Power Service Pedestal w/Battery Back-up		\$	16,190.00	
VEHICLE & PEDESTRIAN DETECTION				
Non-Invasive Detection Sensor (One Approach)		\$	5,741.00	
Non-Invasive Detection Processor (up to four approaches)		\$	3,000.00	
Non-Invasive Detection Detector Mounting Bracket (Per Approach)		\$	53.10	
TCT Expander Module (Used for Detection Leads > 300')		\$	865.00	
Bullnose Pedestrian Pushbuttons (Special Case)				
Audible Pedestrian Pushbutton	2	\$	600.00	\$ 1,200.00
CCTV, LUMINAIRES, ILLUMINATED STREET NAME SIGNS, & EVP				
Observation Camara (PTZ CCTV)	1	\$	1,833.26	\$ 1,833.26
Luminaire Head w/Photo Cell & Lamp	2	\$	425.00	\$ 850.00
Illuminated Street Name Sign		\$	4,379.00	
EVP Detector (Dual w/Confirmation Light) 4090-22-ST-IC		\$	672.42	
EVP Processor		\$	2,118.96	
BLANKOUT SIGNS				
Dynamic Message Sign (DMS)		\$	3,950.00	
Blank-Out Sign (NTCIP) 30" X 30"		\$	5,220.00	
Static Displays / Blank-Out Sign		\$	2,064.10	
Blank-Out Sign (Full Matrix) 24" X 30"		\$	3,317.00	
Blank-Out Sign (Full Matrix) 30" X 30"		\$	4,326.48	

B-Mount Mounting Arms (Pair)		\$	68.00	
Astro Brackets (For Mast Arm Mounted)		\$	100.00	
WIRE				
CFB OR HAWK Wire & Cable	1	\$	1,000.00	\$ 1,000.00
Minor /Minor Intersection Wire & Cable		\$	2,500.00	
Minor /Major Intersection Wire & Cable		\$	3,500.00	
Major /Major Intersection Wire & Cable		\$	5,000.00	
CONTROL & COMMUNICATION EQUIPMENT				
Wireless Mesh Radio	1	\$	5,779.00	\$ 5,779.00
Network Switch / Router - 12 Port	1	\$	1,600.00	\$ 1,600.00
HAWK Complete Cabinet	1	\$	19,718.28	\$ 19,718.28
4-Phase Complete Cabinet		\$	15,953.24	
8-Phase Complete Cabinet		\$	27,511.04	
MISCELLANEOUS MATERIALS				
Field Materials	1	\$	1,500.00	\$ 1,500.00
MATERIAL COST				\$ 66,576.54

LABOR COST ESTIMATE

				RATE	UNIT
CREW LABOR RATE				\$ 260.00	Hr.
LABOR DESCRIPTION	QTY ITEMS	CREW SIZE	CREW HRS	HOURLY RT	COST
LM-POLE FOUNDATION		3	8	\$ 780.00	\$ -
A-POLE FOUNDATION		3	8	\$ 780.00	\$ -
SM POLE FOUNDATION		3	8	\$ 780.00	\$ -
SR POLE FOUNDATION		3	8	\$ 780.00	\$ -
#3.5 J-BOX		2	3	\$ 520.00	\$ -
#5 J-BOX		2	3	\$ 520.00	\$ -
#7 J-BOX		2	3	\$ 520.00	\$ -
INSPECTION	QTY ITEMS	CREW SIZE	CREW HRS	HOURLY RT	COST
TS CONSTRUCTION	0.5	1	40	\$ 260.00	\$ 5,200.00
SMALL CELL		1	10	\$ 260.00	\$ -
POLE CONSTRUCTION / INSTALLATION	QTY ITEMS	CREW SIZE	CREW HRS	HOURLY RT	COST
DRESS P70 POLE	1	4	6	\$ 1,040.00	\$ 6,240.00
DRESS DP70 POLE		4	8	\$ 1,040.00	\$ -
DRESS P45 POLE		4	6	\$ 1,040.00	\$ -
DRESS DP45 POLE		4	8	\$ 1,040.00	\$ -
DRESS GP POLE		4	4	\$ 1,040.00	\$ -
DRESS LP POLE		4	4	\$ 1,040.00	\$ -
DRESS AP POLE	1	3	4	\$ 780.00	\$ 3,120.00
DRESS SR POLE		4	6	\$ 1,040.00	\$ -
DRESS SM POLE		4	6	\$ 1,040.00	\$ -
DRESS SQ-POLE		4	6	\$ 1,040.00	\$ -
DRESS LM -POLE		4	4	\$ 1,040.00	\$ -
DRESS A-POLE		2	4	\$ 520.00	\$ -
DRESS MULTI- USE- POLE		3	6	\$ 780.00	\$ -
PSP CABINET INSTALLATION TYPE-A	1	2	3	\$ 520.00	\$ 1,560.00
PSP CABINET INSTALLATION TYPE-B		3	3	\$ 780.00	\$ -
CONTROLLER CAB. INSTALL	1	3	4	\$ 780.00	\$ 3,120.00
FIELD WIRE	0.3	4	14	\$ 1,040.00	\$ 4,368.00
CONCRETE A-POLE		2	8	\$ 520.00	\$ -
CONCRETE LM-POLE		2	8	\$ 520.00	\$ -
CONCRETE SM-POLE		2	8	\$ 520.00	\$ -
CONCRETE SR -POLE		2	8	\$ 520.00	\$ -
GROUTING	0.5	2	4	\$ 520.00	\$ 1,040.00
CONCRETE CONTROLLER		2	8	\$ 520.00	\$ -
CONCRETE POWER PED.		2	8	\$ 520.00	\$ -
CONCRETE DEMOLITION		4	12	\$ 1,040.00	\$ -
ELEC SERVICE INSPECTION / COORDINATION	1	1	8	\$ 260.00	\$ 2,080.00
RELOCATE EXIST. SMART SIGNS		3	2	\$ 780.00	\$ -
TECHNICIAN SHOP & FIELD LABOR	1	2	30	\$ 520.00	\$ 15,600.00
ACTIVATION CONST LABOR COST NEW INT.	0.5	2	4	\$ 520.00	\$ 1,040.00
ACTIVATION CONST LABOR COST OLD INT.		4	6	\$ 1,040.00	\$ -
MISCELLANEOUS REWORK		3	8	\$ 780.00	\$ -
DISCONNECTING & REMOVAL OF EQUIPMENT	QTY ITEMS	CREW SIZE	CREW HRS	HOURLY RT	COST
ELECTRICIAN LABOR (PER CORNER)		4	0	\$ 1,040.00	\$ -
TECHNICIAN LABOR (PER CORNER)		2	2	\$ 520.00	\$ -
CITY FORCES LABOR				\$	43,368.00
TRAFFIC CONTROL & UTILITY SERVICE	QTY ITEMS	CREW SIZE	CREW HRS	HOURLY RT	COST
TRAFFIC CONTROL OFFICERS	0.5	2	40	\$ 100.00	\$ 4,000.00
BARRICADES	0.75			\$ 10,000.00	\$ 7,500.00
UTILITY SERVICE FEE	1			\$ 4,500.00	\$ 4,500.00
MISCELLANEOUS TOTAL				\$	16,000.00