



# City of Flagstaff, Arizona

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**Capital Improvements Project: 925300/ST3058  
West Street & Arrowhead Avenue Improvements Phase III  
100% Design GMP  
April 7, 2015**

## **CONSTRUCTION MANAGER AT RISK**

### **CONSTRUCTION SERVICES**

03-120020

Agreement \_\_\_\_\_

#### **MAYOR**

*Jerry Nabours*

#### **VICE MAYOR**

*Celia Barotz*

#### **CITY COUNCIL**

*Jeff Oravitz  
Scott Overton  
Coral Evans*

*Celia Barotz  
Mark Woodson  
Eva Putzova  
Karla Brewster*

#### **CITY MANAGEMENT**

**Interim, City Manager**  
*Jeff Meilbeck*

**Utilities Director**  
*Brad Hill*

**Community Development Director**  
*Mark G. Landsiedel*

**Public Works Director**  
*Erik Solberg*

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## 1. Scope of Work:

The following Guaranteed Maximum Price (GMP) document provides for Construction Manager at Risk (CMAR) services to perform asphalt removal and replacement, which also includes a roundabout at the intersection of West St and Arrowhead Ave., installation of new curb & gutter, sidewalk removal and replacement, driveway removal and replacement, storm drain pipe, storm drain catch basins, water system improvements, new traffic signal at Arrowhead Ave and Route 66, some APS work, signage, striping, phase two repairs and associated improvements.

The West Street & Arrowhead Avenue Improvements Phase III Project is located off of Route 66 and includes Arrowhead Avenue from Route 66 to West St and also a portion of West St. from Arrowhead Ave to Johnson Ave. Minor work will also be done on East St and Center St at Arrowhead Ave.

## 2. GMP Summary

**West St. & Arrowhead Ave. Improvements Phase 3 - Summary**

**City of Flagstaff**

**PROJECT # 925300**

**PREPARED BY: HUNTER CONTRACTING CO.**

**4/7/2015**

			<b>AMOUNT</b>
<b>GMP TOTAL</b>			<b>Arrowhead</b>
A.	Cost of Work (Labor, Materials, Equipment, Warranty)	TOTAL	\$1,218,059.38
INDIRECT COST			
B.	CM @ Risk Contingency	0.00%	\$0.00
C.	Construction Fee	9.00%	\$145,181.21
D.	General Conditions	8.67%	\$147,855.52
	D1 Payment & Performance Bonds	\$ 12,393.27	0.77%
	D2 Insurance	\$ 16,131.25	1.00%
E.	Sales Tax (5.81815%)	5.82%	\$87,917.84
<b>F.</b>	<b>TOTAL GMP</b>		<b>\$1,599,013.95</b>
	Owner's Contingency (Items 152 - 156)	6.21%	\$105,949.00
<b>GRAND TOTAL</b>			<b>\$1,704,962.95</b>

- A. Direct Cost of Work (Schedule of Values items, less contingency items)
- B. CM@Risk Contingency (Contingent items of work to be approved by the City)
- C. Construction Fee: Percent based on F "Total GMP" (B/F)
- D. General Conditions: Percent based on F "Total GMP" (D/F)
- D1. Payment & Performance Bond (portion of D) - see General Conditions Detail
- D2. Insurance (portion of D) - see General Conditions Detail
- E. Sales Tax: Percent based on F "Total GMP" (E/F)

### 3. Schedule of Values

Prepared by: Steven Brinkerhoff

4/7/2015

**West St. & Arrowhead Ave. Improvements Phase 3 -General Conditions**

**City of Flagstaff**

**PROJECT # 925300**

**B-GENERAL CONDITIONS**

	Contract Duration		4 MO	120 CALENDAR DAYS	
<b>Fixed Costs</b>					
YARD/CLEAN UP	1	LS	\$	4,957.00	\$ 4,957.00
					<b>\$ 4,957.00</b>
<b>Duration Driven Costs</b>					
OFFICE FACILITY RENT	4	MO	\$	395.00	\$ 1,580.00
OFFICE SUPPLIES	4	MO	\$	355.00	\$ 1,420.00
PORTO JOHNS	8	MO	\$	95.00	\$ 760.00
YARD RENTAL	4	MO	\$	1,000.00	\$ 4,000.00
SITE FACILITY LOCKUP/DUMPSTER	4	MO	\$	700.00	\$ 2,800.00
CONSTRUCTION WATER	4	MO	\$	2,556.00	\$ 10,224.00
EQUIPMENT SERVICE	4	MO	\$	3,006.00	\$ 12,024.00
					<b>\$ 32,808.00</b>
<b>Supervision</b>					
PROJECT SPONSOR - Terry Snyder	1.0	MO	\$	12,914.00	\$ 12,914.00
PROJECT MANAGER - Mike Ploeger	1.0	MO	\$	9,480.00	\$ 9,480.00
PROJECT SUPERINTENDENT - Rich O'Brien	4.0	MO	\$	11,493.00	\$ 45,972.00
PICK UP TRUCKS (TOTAL SUPERVISOR/MO)	6.0	MO	\$	2,200.00	\$ 13,200.00
					<b>\$ 81,566.00</b>
<b>Bond</b>	1.0	LS		12,393.27	<b>\$12,393.27</b>
<b>Insurance</b>	1.0	LS		16,131.25	<b>\$16,131.25</b>
					<b>\$ 147,855.52</b>
<b>B- General Conditions (Less Insurance &amp; Bond)</b>				<b>\$</b>	<b>147,855.52</b>

ITEM #	Description	Your Quantity	Unit	Unit Price (HCC-Cost)	Total (HCC-Cost)
<b>West St. &amp; Arrowhead Ave. Improvements: Phase 3</b>					
1	REMOVE AND DISPOSE ACP	6676	SY	\$3.26	\$21,763.76
2	REMOVE AND DISPOSE PCC	6030	SF	\$1.85	\$11,155.50
3	REMOVE AND DISPOSE CURB AND GUTTER	494	LF	\$2.89	\$1,427.66
4	REMOVE AND DISPOSE SINGLE CURB	63	LF	\$2.91	\$183.33
5	REMOVE AND DISPOSE MAILBOX AND POST(S)	34	EA	\$24.93	\$847.62
6	REMOVE AND SALVAGE BRICKS, PALLETIZE	31	SF	\$4.26	\$132.06
7	REMOVE AND SALVAGE BOLLARD	2	EA	\$66.10	\$132.20
8	REMOVE AND DISPOSE SCUPPER	1	EA	\$98.06	\$98.06
9	REMOVE AND SALVAGE HYDRANT	3	EA	\$418.56	\$1,255.68
10	REMOVE AND DISPOSE WATER SERVICE, SALVAGE WATER METER	19	EA	\$198.05	\$3,762.95
11	CUT, CAP, AND ABANDON WATERLINE	5	EA	\$881.05	\$4,405.25
12	REMOVE AND DISPOSE WATERLINE	29	LF	\$55.32	\$1,604.28
13	REMOVE AND DISPOSE MANHOLE	2	EA	\$1,116.15	\$2,232.30
14	REMOVE AND SALVAGE MAST ARM, AND LUMINAIRE	2	EA	\$671.00	\$1,342.00
15	CLEAR AND GRUB	1	LS	\$1,758.09	\$1,758.09
16	REMOVE AND DISPOSE TREE AND STUMP >12" DIA.	5	EA	\$418.15	\$2,090.75
17	ADJUST WATER VALVE	19	EA	\$185.00	\$3,515.00
18	ADJUST MANHOLE	16	EA	\$215.00	\$3,440.00
19	ADJUST MISC APPURTENANCE	4	EA	\$215.00	\$860.00
20	ADJUST IRRIGATION VALVE	1	EA	\$185.00	\$185.00
21	REMOVE AND SALVAGE STREET SIGN	8	EA	\$75.00	\$600.00
22	6" AC / 6" ABC PAVEMENT	4920	SY	\$52.28	\$257,217.60
23	6" AC / 8" ABC PAVEMENT	649	SY	\$52.22	\$33,890.78
24	14" AC PAVEMENT SECTION*	74	SY	\$97.03	\$7,180.22
25	MAG TYPE A VERTICAL CURB & GUTTER	2778	LF	\$16.77	\$46,587.06
26	ADOT TYPE G CURB & GUTTER	186	LF	\$18.18	\$3,381.48
27	MAG TYPE A SINGLE CURB	66	LF	\$16.04	\$1,058.64
28	4' CURB TERMINATION	4	EA	\$78.18	\$312.72
29	ADOT TYPE 6 CURB TRANSITION	4	EA	\$90.81	\$363.24
30	MAG 4" PCC / 3" ABC SIDEWALK	10689	SF	\$3.51	\$37,518.39
31	ADOT 4" PCC / 3" ABC SIDEWALK	902	SF	\$3.52	\$3,175.04
32	COF SIDEWALK RAMP, SINGLE, LIMITED R/W	6	EA	\$1,113.74	\$6,682.44
33	COF SIDEWALK RAMP, SINGLE, 7-FT DEPTH	3	EA	\$1,291.79	\$3,875.37
34	ADOT TYPE A SIDEWALK RAMP, SINGLE	1	EA	\$1,066.51	\$1,066.51
35	ADOT TYPE A SIDEWALK RAMP, DOUBLE	1	EA	\$1,014.50	\$1,014.50
36	SIDEWALK RAMP 1 @ ROUNDABOUT	1	EA	\$849.95	\$849.95
37	SIDEWALK RAMP 2 @ ROUNDABOUT	1	EA	\$768.85	\$768.85
38	BICYCLE RAMP @ ROUNDABOUT	4	EA	\$345.60	\$1,382.40
39	ADOT TYPE E SIDEWALK RAMP, SINGLE	2	EA	\$378.54	\$757.08
40	SINGLE MAILBOX	5	EA	\$282.42	\$1,412.10
41	MULTIPLE MAILBOX	4	EA	\$807.42	\$3,229.68
42	SINGLE MAILBOX @ BACK OF DW	5	EA	\$282.42	\$1,412.10
43	RECONSTRUCT CUSTOM MAILBOX	1	EA	\$799.67	\$799.67
44	8" PCC / 3" ABC COMMERCIAL DRIVEWAY	2290	SF	\$5.22	\$11,953.80
45	6" PCC / 3" ABC RESIDENTIAL DRIVEWAY	2431	SF	\$4.54	\$11,036.74
46	8" PCC / 3" ABC COMMERCIAL DRIVEWAY, 5' DROPPED	392	SF	\$5.22	\$2,046.24
47	6" PCC / 3" ABC RESIDENTIAL DRIVEWAY & PED RAMP	499	SF	\$4.55	\$2,270.45
48	6" PCC / 3" ABC DRIVEWAY MATCH-UP	1862	SF	\$4.54	\$8,453.48
49	4" ABC DRIVEWAY MATCH-UP	391	SF	\$1.73	\$676.43
50	3" AC / 6" ABC DRIVEWAY MATCH-UP	599	SY	\$30.49	\$18,263.51
51	VALLEY GUTTER	756	SF	\$12.87	\$9,729.72
52	SCUPPER	2	EA	\$825.49	\$1,650.98
53	BERM AND RIPRAP	2	EA	\$259.29	\$518.58
54	ROUNDABOUT CENTRAL ISLAND	1	EA	\$6,847.02	\$6,847.02
55	ROUNDABOUT SPLITTER ISLAND	3	EA	\$3,342.73	\$10,028.19
56	ILLUMINATED BOLLARD	3	EA	\$5,694.09	\$17,082.27
57	NEW POLES, LUMINARE, BALLAST, AND MAST ARM	4	EA	\$5,460.00	\$21,840.00
58	SURVEY MONUMENT	3	EA	\$250.00	\$750.00
59	PCC STAIRS < 3 STEPS	6	EA	\$1,442.49	\$8,654.94
60	RETAINING WALL AND HANDRAIL 1520 WEST	1	LS	\$18,424.43	\$18,424.43
61	8" CLASS 350 DIP WATERLINE	517	LF	\$66.77	\$34,520.09
62	8" VALVE, BOX, AND COVER	10	EA	\$834.06	\$8,340.60
63	FIRE HYDRANT RUN	3	EA	\$4,962.60	\$14,887.80
64	3/4" WATER SERVICE, REINSTALL EXISTING METER	12	EA	\$1,334.95	\$16,019.40
65	3/4" WATER SERVICE, TERMINATE AT CURB STOP WITH BRICK AND WIRE	1	EA	\$7,073.28	\$7,073.28
66	2" WATER SERVICE (MANIFOLD), TERMINATE AT BRICK AND WIRE	1	EA	\$7,073.28	\$7,073.28
67	2" WATER SERVICE (MANIFOLD), REINSTALL EXISTING METERS	3	EA	\$2,899.95	\$8,699.85
68	2" WATER SERVICE, REINSTALL EXISTING METER	2	EA	\$3,943.28	\$7,886.56
69	TRAFFIC RATED LID AND COLLAR	1	EA	\$465.00	\$465.00
70	1.5" WATER SERVICE, REINSTALL EXISTING METER	1	EA	\$7,073.28	\$7,073.28
71	CONNECT TO EXISTING WATERLINE	6	EA	\$1,535.25	\$9,211.50
72	WATER/SEWER EXTRA PROTECTION	1	EA	\$901.36	\$901.36
73	FULL VERTICAL REALIGNMENT	2	EA	\$3,849.72	\$7,699.44

ITEM #	Description	Your Quantity	Unit	Unit Price (HCC-Cost)	Total (HCC-Cost)
74	48" DIA. MANHOLE	2	EA	\$4,629.71	\$9,259.42
75	SIGN AND POST	56	EA	\$325.00	\$18,200.00
76	COF STOP BAR	1	LS	\$1,690.50	\$1,690.50
77	COF CROSS WALK	1	LS	\$598.00	\$598.00
78	ADOT CROSS WALK	1	LS	\$828.00	\$828.00
79	COF PAVEMENT MARKINGS	1	LS	\$6,100.00	\$6,100.00
80	ROUNDABOUT ARROW	1	LS	\$810.00	\$810.00
81	6" WHITE LANE STRIPE	1	LS	\$2,625.00	\$2,625.00
82	4" WHITE LANE STRIPE	1	LS	\$42.50	\$42.50
83	4" DOUBLE YELLOW CENTERLINE	1	LS	\$1,768.00	\$1,768.00
84	NEW SHALLOW 60" STORMDRAIN	5	EA	\$4,510.66	\$22,553.30
85	NEW STORMDRAIN LATERAL CONNECTION	5	EA	\$323.17	\$1,615.85
86	NEW SLOTTED DRAIN	54	LF	\$144.47	\$7,801.38
87	NEW 14ga. 18" SRP STORMDRAIN	599	LF	\$43.82	\$26,248.18
88	NEW 14ga. 24" SRP STORMDRAIN	340	LF	\$48.09	\$16,350.60
89	NEW DOUBLE MAG TYPE "E" CATCH BASIN	6	EA	\$2,522.18	\$15,133.08
90	NEW ADOT TYPE "3" CATCH BASIN w/ 11.5' WING	2	EA	\$2,967.14	\$5,934.28
91	NEW ADOT TYPE "3" CATCH BASIN w/ 19.5' WING	4	EA	\$3,701.92	\$14,807.68
92	NEW MAG TYPE "D" CATCH BASIN	1	EA	\$3,566.14	\$3,566.14
93	NEW MODIFIED ADOT TYPE "3" CATCH BASIN w/ 3.5' WING	1	EA	\$2,230.31	\$2,230.31
94	NEW MODIFIED ADOT TYPE "3" CATCH BASIN w/ 11.5' WING	2	EA	\$2,967.14	\$5,934.28
95	NEW MAG DOUBLE TYPE "G" CATCH BASIN	1	EA	\$3,055.27	\$3,055.27
96	REMOVE AND DISPOSE ACP (WATER & STORM DRAIN TRENCHES)	221	SY	\$4.49	\$992.29
97	REMOVE AND DISPOSE MANHOLE	1	EA	\$1,341.15	\$1,341.15
98	REMOVE AND DISPOSE OF EXISTING CATCH BASIN	1	EA	\$519.28	\$519.28
99	REMOVE AND DISPOSE OF EXISTING STORMDRAIN	73	LF	\$25.93	\$1,892.89
100	NEW MAG TYPE A VERTICAL CURB AND GUTTER	10	LF	\$24.71	\$247.10
101	RECONSTRUCT DRIVEWAY	15	SF	\$11.94	\$179.10
102	SWPPP	1	LS	\$6,522.05	\$6,522.05
103	ROUTE 66 TRAFFIC SIGNAL	1	LS	\$78,214.00	\$78,214.00
104	AS BUILT PLANS	1	LS	\$7,000.00	\$7,000.00
105	MOBILIZATION	1	LS	\$32,023.94	\$32,023.94
106	TRAFFIC CONTROL	1	LS	\$17,216.00	\$17,216.00
107	ROUTE 66 2" MILL	1020	SY	\$10.42	\$10,628.40
108	ROUTE 66 2" OVERLAY	1020	SY	\$20.41	\$20,818.20
109	APS Work	1	LS	\$8,726.00	\$8,726.00
110	REMOVE AND DISPOSE OF FENCE	28	LF	\$1.88	\$52.64
111	REMOVE AND DISPOSE OF FENCE	63	LF	\$10.03	\$631.89
112	RELOCATE FENCE	62	LF	\$13.88	\$860.56
113	RELOCATE WALL	16	LF	\$115.72	\$1,851.52
114	RELOCATE IRRIGATION PIPE & VALVE	76	LF	\$47.66	\$3,622.16
115	REMOVE AND REPLACE SEWER SERVICE	2	EA	\$2,617.11	\$5,234.22
<b>West St. &amp; Arrowhead Ave. Improvements: Phase 3 - Route 66 Turn Lane</b>					
116	CLEAR AND GRUB	1	LS	\$500.00	\$500.00
117	REMOVE AND DISPOSE ACP, 14"	144	SY	\$10.31	\$1,484.86
118	REMOVE AND DISPOSE PCC	1490	SF	\$1.85	\$2,754.16
119	REMOVE AND DISPOSE CURB AND GUTTER	323	LF	\$2.89	\$932.74
120	REMOVE AND DISPOSE 3/4" Waterline	1	EA	\$200.00	\$200.00
121	14" AC PAVEMENT	284	SY	\$97.02	\$27,553.68
122	ADOT TYPE G CURB & GUTTER	318	LF	\$18.18	\$5,780.39
123	ADOT TYPE 6 CURB TRANSITION	1	EA	\$91.00	\$91.00
124	ADOT 4" PCC / 3" ABC SIDEWALK	1590	SF	\$3.52	\$5,594.24
125	SURVEY MONUMENTS	2	EA	\$250.00	\$500.00
126	PCC STAIRS < 3 STEPS	1	EA	\$1,443.00	\$1,443.00
127	NEW STORMDRAIN LATERAL CONNECTION	1	EA	\$323.00	\$323.00
128	NEW 14ga. 18" SRP STORMDRAIN	90	LF	\$43.82	\$3,943.80
129	NEW 14ga. 24" SRP STORMDRAIN	5	LF	\$48.08	\$240.40
130	NEW ADOT TYPE "3" CATCH BASIN w/ 19.5' WING	3	EA	\$3,702.00	\$11,106.00
131	SIGN AND POST	1	EA	\$325.00	\$325.00
132	STRIPING	1	LS	\$2,000.00	\$2,000.00
133	TRAFFIC CONTROL	1	LS	\$5,885.00	\$5,885.00
134	POLE RELOCATION AT KFC CATCH BASIN	1	LS	\$2,850.00	\$2,850.00
135	OFF DUTY POLICE	80	HR	\$49.00	\$3,920.00
136	SURVEY	1	LS	\$453.09	\$453.09
<b>West St. &amp; Arrowhead Ave. Improvements: Phase 2</b>					
137	NEW CURB & GUTTER	20	LF	\$18.19	\$363.82
138	NEW DRIVEWAY	121	SF	\$6.47	\$782.48
139	MASONRY GARDEN WALL, NO FOOTING	36	LF	\$8.00	\$287.82
140	PATCH CURB OR SIDEWALK	4	EA	\$60.98	\$243.91
141	REMOVE AND REPLACE CURB (17 EA)	289	LF	\$21.08	\$6,091.78
142	REMOVE AND REPLACE Driveway	86	SF	\$7.37	\$634.18
143	REMOVE AND REPLACE RIPRAP	443	SF	\$10.89	\$4,823.07
144	REMOVE AND REPLACE SIDEWALK	73	SF	\$6.06	\$442.21
145	REMOVE AND REPLACE CONCRETE STEPS	33	SF	\$45.60	\$1,504.80
146	REMOVE AND REPLACE WATER SERVICE	1	EA	\$553.58	\$553.58
147	REMOVE CHAIN LINK FENCE, REPLACE WITH RAILING	20	LF	\$51.88	\$1,037.60
148	LOCATE SEWER CLEANOUTS	1	LS	\$770.54	\$770.54

**West St. & Arrowhead Ave. Improvements Phase 3 - Schedule of Values**

**4/7/2015**

ITEM #	Description	Your Quantity	Unit	Unit Price (HCC-Cost)	Total (HCC-Cost)
149	REMOVE PLASTIC EXPANSION MATERIAL (SIDEWALK JOINTS)	1	LS	\$719.55	\$719.55
150	IRRIGATION REPAIR on ROUTE 66	1	LS	\$3,000.00	\$3,000.00
151	SALES TAX CREDIT - PIPE MATERIALS	1	LS	-\$3,607.00	-\$3,607.00

**TOTAL**

**\$1,218,059.38**

**West St. & Arrowhead Ave. Improvements Phase 3 - Owner's Contingency**

152	KEYSTONE RETAINING WALL	300	SF	\$26.09	\$7,827.00
153	ROCK TRENCHING	150	CY	\$63.72	\$9,558.00
154	UNSUITABLE MATERIAL	150	CY	\$34.11	\$5,116.50
155	SUBGRADE STABILIZATION (GEOGRID)	250	SY	\$1.79	\$447.50
156	OWNERS CONTINGENCY	1	LS	\$83,000.00	\$83,000.00

**TOTAL**

**\$105,949.00**

<b>GRAND TOTAL</b>					<b>\$1,324,008.38</b>
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#### **4. List of Plans and Specifications used for the GMP Proposal**

1. City of Flagstaff West St. & Arrowhead Ave. Improvements Phase 2 Plans by Peak Engineering, Inc., signed by Julie O. Leid dated February 14, 2013. GMP includes pricing based on the following pages: 1 – 30; 38 – 43; 50 – 51; 61 – 63, corresponding profile and electrical sheets.
2. City of Flagstaff West St. & Arrowhead Ave. Improvements Phase 2 Plans by Peak Engineering highlighted as “Work Completed”, which include sheets 15 – 18, 41
3. City of Flagstaff West St. & Arrowhead Ave. Improvements Phase 3 Route 66 Right Turn Lane Preliminary 90% Plans by Peak Engineering, Inc., dated February 2015. Plan Sheets C4.0 & C4.1
4. Arizona Department of Transportation Intermodal Transportation Division Traffic Signal Plan and Pole and Conductor Schedule Sheets 1&2 of 3, signed by David William Bruggeman dated February 25, 2015.
5. Exhibit B Special Provisions for the City of Flagstaff West St. & Arrowhead Ave. Improvements Phase 2” Prepared by Peak Engineering, Inc. City of Flagstaff Project No. 925300 dated February 14, 2013
6. Exhibit B – App A LED lights, - App B Illuminated Bollards, - App E Keystone Wall, - App F As built check list
7. Exhibit C Geotechnical Investigation dated December 20, 2011 by Gregg Alan Creaser.

## **5. Clarifications**

1. Materials Testing is not included in the GMP and is anticipated that to be provided by the City of Flagstaff.
2. No permits or fees are provided other than those listed.
3. No alterations to or additional traffic signals or traffic signal work is included in the cost for the proposed contingency alternate for the new right turn lane on Route 66.

## **6. Subcontractor List**

1. NJ Shaum & Son, Inc Electrical Contractors – Traffic Signal and Street Lighting
2. L.P.'s Excavating, Inc. General Contracting – Asphalt Paving
3. Olson Precast of Arizona – Manholes
4. Pavement Marking, Inc. – Striping
5. Hunter Guard Rail & Fence Inc. – Handrail & Signage
6. Action Barricade Co., LLC – Traffic Control