



Mini Design Concept Report
Crawford Street Pavement Project
Construction Phase

STATE OF ARIZONA
 DEPARTMENT OF TRANSPORTATION
 INTERMODAL TRANSPORTATION DIVISION
 PROJECT PLANS

2 23
ADOT

CRAWFORD STREET
MCNAB DRIVE TO SONOITA AVENUE

Constructed by: _____
 Contractor Company: _____
 Completion Date: _____
Red-Lines by: _____
 Construction Administration Name & Company: _____
 Completion Date: _____
As-Built by: _____
 As-Built Designer Name & Company: _____
 Completion Date: _____

CRAWFORD STREET
 PROJECT NO. 0000 SC NOG SZ035 01C
 FEDERAL AID NO. STP-NOG-0(201)T

ARIZONA DEPARTMENT OF TRANSPORTATION
 INTERMODAL TRANSPORTATION DIVISION
 JENNIFER TUTT, P.E., STATE ENGINEER

AS BUILT SHEET 1 OF _____



City of Nogales Public Works
 1450 N. Hohokam Drive
 Nogales, AZ 85621
 (520) 285-5753

September 8, 2014



LOCAL GOVERNMENT FIVE-YEAR HIGHWAY CONSTRUCTION PROGRAM PROJECT NOMINATION SHEET AND MINI DESIGN CONCEPT REPORT

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A. INTRODUCTION

Crawford Street is classified as an urban collector with an AADT 2013 count of 854. Crawford Street connects to the main routes within our City such as Grand Avenue, I-19, and Western Ave. This project is needed because of the ageing asphaltic surface road. This project is “shovel ready” for construction as soon as funding is available.

B. BACKGROUND

Most of the houses located along Crawford Street were registered in 1984 in the national inventory of historic districts. Some of the houses were built between the end of the 19th century and the early 20th century. The existing 8” sanitary sewer was rehabilitated in 1998 with a grant from the Environmental Protection Agency and matching funds of the City of Nogales.

C. PROJECT SCOPE

This project consists in spot sidewalk repairs and the total pavement reconstruction. The length of the road is approximately 1,930 lineal feet with an average width of 39 feet. The projected paving area is approximate 76,183 square feet. The estimated total cost of construction is \$484,583.

D. PROJECT DEVELOPMENT CONSIDERATIONS

1. Environmental requirements

▪ Potential Hazardous Waste Sites

It is anticipated that no hazardous materials will be identified onsite based on the characteristics of the neighborhood site. However, the contractor will cease all the activities if suspected hazardous materials are encountered during construction and proper assessment, treatment and disposal of those materials will be conducted.

▪ 404 Permit Requirements

None anticipated.

▪ Section 4(f) Lands

Not applicable.

▪ Floodplain Encroachment

Not applicable.



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- **Wetlands**

Not applicable.

- **Scenic Route or Historic Route**

Not applicable.

- **Archaeological Clearance**

It is anticipated that no archaeological clearance will be needed for the work to be performed on the road. However, if unidentified cultural resources are encountered during the construction phase, the contractor will cease all the activities and shall take all the necessary steps to secure the preservation of the encountered resources and contact ADOT Environmental Planning Group, Historic Preservation Team at 602-712-7767.

- **Social or Economic Impacts**

Crawford Street is classified as an urban collector road within a residential area that connects three of our main routes which are Grand Avenue (SR82), Interstate Route 19 (I-19) and Western Avenue. There a couple of established businesses close to the intersection with Sonoita Street. No residential or commercial displacements will be required as part of the road improvements. This street is typically invaded by tourists that use the street sides to park their vehicles and cross the border to visit Mexico. Spot sidewalk repairs are included as part of the enhancements to address ADA deficiencies.

2. Critical Outside Agency Involvement

The only expected agencies involved will be the City of Nogales, ADOT and SEAGO.

3. Right-Of-Way Requirements

Crawford Street is a public road and there is no anticipated Right-Of-Way acquisition to execute this project.

4. Utility Relocation Requirements

There is no need for any utility relocation in the area. There are no records of issues with existing utilities (water leaks, sanitary sewer overflows or gas leaks). However,



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if the City identifies a funding source before the road reconstruction, the water main will be replaced just to guarantee a longer pavement project life.

5. Seasonal Considerations

A field survey was performed from curb to curb. Additional survey mapping was required for the preparation of plans to define the street right-of-way.

6. Traffic Requirements

A traffic control plan is anticipated to mitigate the construction site disturbance and guide motorized vehicles properly to avoid accidents.

7. Design Concept Report Requirements

The approved plans include new ADA ramps at some of the intersections.

8. Design Criteria

The roadway pavement thickness has been designed according to AASHTO criteria. The street cross-section is typical crown and will remain the same. The existing drainage conditions will not be altered as part of this project. Although some of the existing driveways are in good shape, they are not in compliance with ADA requirement due to sloping of existing driveways.

E. OTHER REQUIREMENTS

None.

F. ESTIMATED COST

See attached estimation cost prepared PSOMAS Engineering on page 5.



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G. ITEMIZED ESTIMATE

Arizona Department of Transportation
Estimated Engineering Construction Cost
Current User Project Cost Estimate

Track Number: SZ035 01C Type of Estimate: Stage IV Version: 0 Segment: 0 Alternative: 0 User:

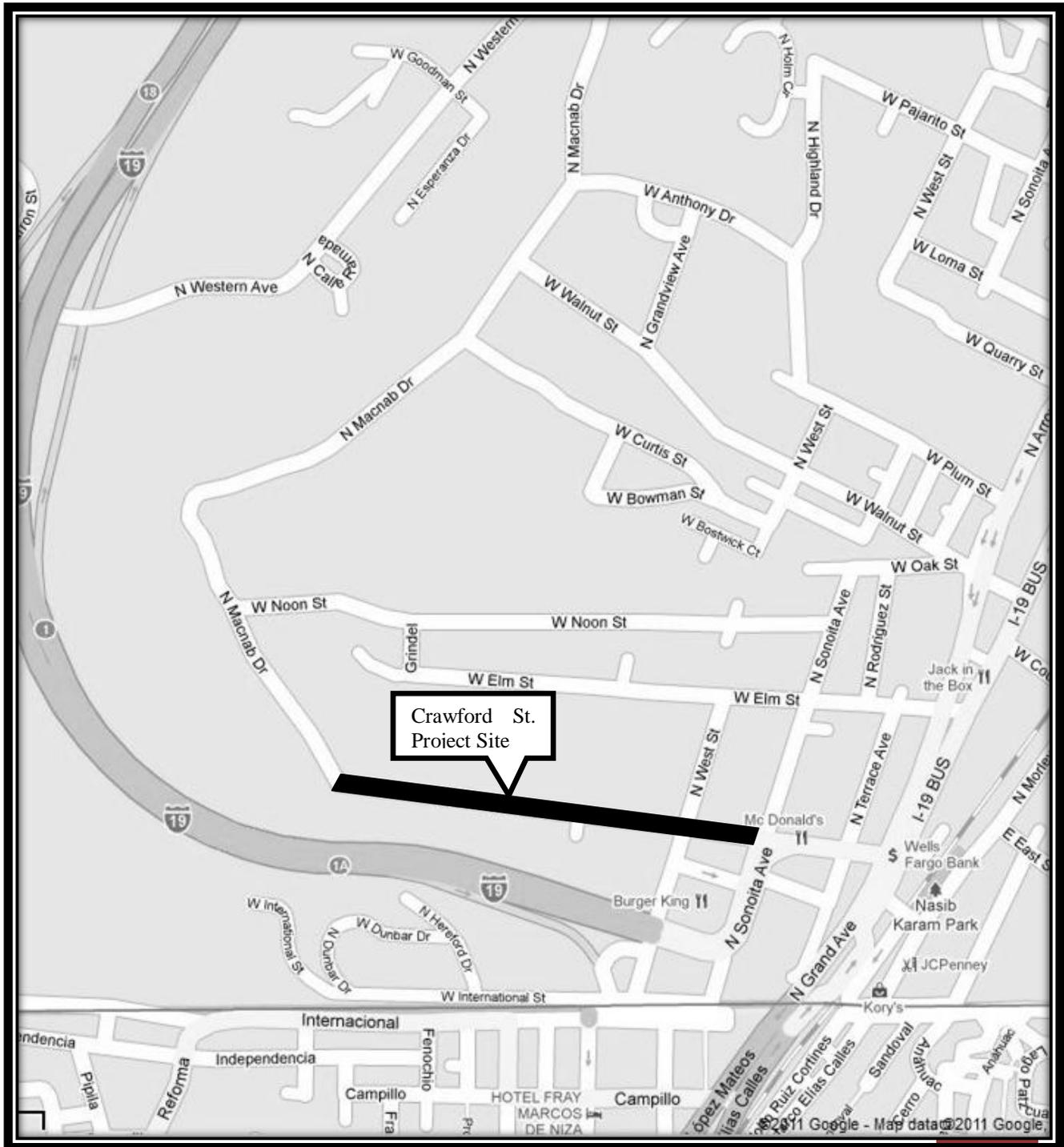
SECTION: 1		FHWA: 04		DESCRIPTION: ROADWAY	
ITEM NUMBER	ITEM DESCRIPTION	UNIT OF	QUANTITY	UNIT PRICE	TOTAL
2020001	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.SUM	1	5,000.00	5,000.00
2020153	REMOVE SIGNS, STRUCTURES, OBSTRUCTIONS, AND POSTS)	L.SUM	1	1,000.00	1,000.00
2020029	REMOVAL OF ASPHALTIC CONCRETE PAVEMENT	SQ.YD.	8,341	8.00	66,728.00
2030301	ROADWAY EXCAVATION	CU.YD.	450	10.00	4,500.00
2090005	FURNISH WATER	M.GAL.	90	10.00	900.00
3030022	AGGREGATE BASE, CLASS 2	CU.YD.	1,159	50.00	57,950.00
4090003	ASPHALTIC CONCRETE (MISCELLANEOUS STRUCTURAL)	TON	1,158	105.00	121,590.00
5050201	RESET FRAME AND COVER FOR MANHOLE	EACH	7	750.00	5,250.00
6070054	SIGN POST (PERFORATED)(2 S)	L.F.T.	200	7.00	1,400.00
6070080	FOUNDATION FOR SIGN POST (CONCRETE)	EACH	16	125.00	2,000.00
6080005	WARNING, MARKER, OR REGULATORY SIGN PANEL	SQ.F.T.	120	25.00	3,000.00
7015032	OBSTRUCTION - PAVEMENT MARKING	L.F.T.	120	1.00	120.00
7016030	BARRICADE (TYPE II, VERTICAL PANEL)	EACH-DAY	13,500	0.50	6,750.00
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREE)	EACH-DAY	540	0.75	405.00
7016033	PORTABLE SIGN STAND (SPRING TYPE)	EACH-DAY	1,530	1.50	2,295.00
7016035	WARNING LIGHT (TYPE A)	EACH-DAY	15,570	0.30	4,671.00
7016051	TEMPORARY SIGN (LESS THAN 10 SQ.FT.)	EACH-DAY	2,160	1.00	2,160.00
7016052	TEMPORARY SIGN (AT LEAST 10 SQ. FT.)	EACH-DAY	180	1.50	270.00
7040005	PAVEMENT MARKING (WHITE EXTRUDED THERMOPLASTIC)(0.090")	L.F.T.	1,260	0.50	630.00
7040006	PAVEMENT MARKING (YELLOW EXTRUDED THERMOPLASTIC)	L.F.T.	4,000	0.50	2,000.00
7060015	PAVEMENT MARKER, RAISED, TYPE D	EACH	30	4.00	120.00
7080001	STANDARD REFLECTORIZED TRAFFIC PAINT - WHITE	L.F.T.	1,260	0.20	252.00
7080011	STANDARD REFLECTORIZED TRAFFIC PAINT - YELLOW	L.F.T.	4,000	z	800.00
8101013	EROSION CONTROL / POLLUTION PREVENTION	L.SUM	1	e	6,000.00
8080046	RESET FRAME AND COVER FOR VALVE BOX	EACH	10	500.00	5,000.00
9080242	CONCRETE SIDEWALK	SQ.FT.	170	6.00	1,020.00
9020296	CONCRETE SIDEWALK RAMP	EACH	7	2,500.00	17,500.00
9240050	MISCELLANEOUS WORK (SPEED TABLE AND SPEED HUMPS)	L.SUM	1	15,000.00	15,000.00
9240111	MISCELLANEOUS WORK (CONCRETE GUTTER REMOVAL)	L.F.T.	3,800	2.50	9,500.00
				Subtotal:	343,811.00
9010001	MOBILIZATION	L.SUM	1	35,000.00	35,000.00
9240170	CONTRACTOR QUALITY CONTROL	L.SUM	1	7,500.00	7,500.00
9250001	CONSTRUCTION SURVEYING AND LAYOUT	L.SUM	1	15,000.00	15,000.00
				Construction Subtotal:	401,311.00
	DESIGN CONTINGENCY UNIDENTIFIED ITEMS	COST	5.00%		20,065.55
				Construction Total:	421,376.55
	CONSTRUCTION ENGINEERING	COST	10.00%		42,137.66
	CONSTRUCTION CONTINGENCIES	COST	5.00%		21,068.83
				GRAND TOTAL:	484,583.03



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H. FIGURES AND PICTURES

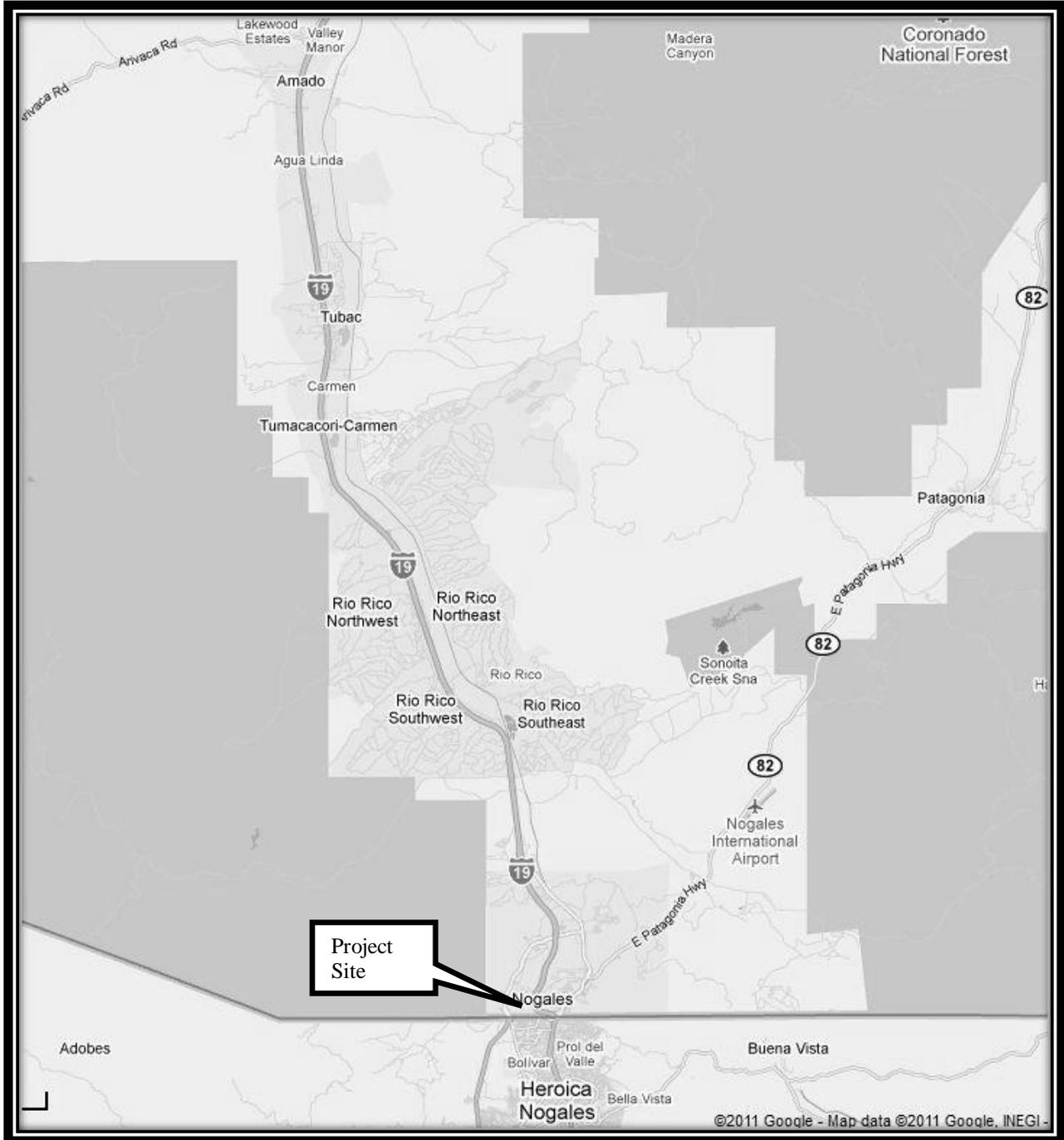
1. Location Map





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2. Vicinity Map





**LOCAL GOVERNMENT FIVE-YEAR
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3. 100% complete plans and approved by ADOT.

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NOGALES
MEXICO

PAVEMENT RECONSTRUCTION
AND PEDESTRIAN IMPROVEMENTS

ADOT

2 23

CONSTRUCTION BYZ
CONTRACTOR COMPANY
CONTRACT NO.
Red-Lines BYZ
CONTRACTOR ADDRESS AND PHONE NO. & COMPANY
CONTRACT DATE
AS-BUILT BYZ
DATE DESIGN WORK & COMPANY
CONTRACT NO.

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
DESIGN ENGINEER: [Signature]
DATE: [Date]

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4. Pictures



Looking west



Looking east