

SIERRA VISTA – NORTH GARDEN AVENUE PRE-SCOPING

MPD 006-16

PRE-SCOPING DOCUMENT

SEPTEMBER 2015

Prepared For:



**ARIZONA DEPARTMENT OF TRANSPORTATION
MULTIMODAL PLANNING DIVISION**

Prepared By



A. INTRODUCTION

The project (ADOT MPD 006-16) is located in Cochise County within the City of Sierra Vista. It is located on North Garden Avenue between Buffalo Soldier Trail (BST) and Fry Boulevard. The City's desire is to create a bicycle and pedestrian friendly corridor as well as to incorporate green infrastructure to improve stormwater runoff quantity and quality. As such, the City desires to put North Garden Avenue on a "road diet" by reducing the current roadway width and adding landscape, bicycle, pedestrian, and water harvesting features.

B. BACKGROUND DATA

North Garden Ave is functionally classified as a collector road and lies on rolling terrain. The posted speed along the roadway is 35 mph. The main gate to the Fort Huachuca Army Base is located immediately adjacent to the project at the intersection of BST and Fry Boulevard. North Garden Ave has experienced some recent development including the construction of new office and hotel projects. Additional development projects have been planned along this route.

Numerous property owners are present along North Garden Avenue (see attached property ownership graphic).

Soldier Creek crosses beneath North Garden Avenue via a 4-10'x12' concrete box culvert (CBC). Road runoff is currently directed in gutters or roadside swales toward Soldier Creek. There are no known storm drains in the project area. Scuppers exist north and south of Soldier Creek along the west side of North Garden Ave to direct road runoff toward Soldier Creek (see attached photos).

Traffic volumes for both North Garden Ave and Fry Boulevard are relatively low (traffic count data is attached). Further, Fort Huachuca intends to move its main gate to the east gate of the army base. This move is anticipated to further reduce traffic and commercial economic activity in the area.

The City has undertaken previous conceptual design and public relations efforts in association with the proposed narrowing of North Garden Avenue and the public has favorably received the idea.

Two channelized right turn lanes are present at the intersection of North Garden Avenue and Fry Boulevard. The southbound-to-westbound movement is under a yield condition and the westbound-to-northbound movement is a free right movement (i.e. under no stop or yield conditions). These channelized lanes create two median "pork chop" islands at the intersection and street runoff ponds against these median islands.

According to the Arizona Department of Environmental Quality (ADEQ) eMaps website, two underground storage tank (UST) sites are located along North Garden Avenue.

C. PROJECT SCOPE

The improvements associated with this project are anticipated to include the following:

- Symmetrical narrowing of the roadway from a width of 64' to 47' (face-of-curb to face-of-curb) between Fry Boulevard and the CBC crossing of Soldier Creek. The proposed width is based on an anticipated cross section of 2-12' travel lanes, a 12' center turn lane, and 5.5' wide bike lanes. The narrowing will be accomplished by sawcutting and removing existing pavement.
- Removal of the center turn lane at the Soldier Creek 4-10'x12' CBC crossing to accommodate sidewalks across the CBC.

- Preservation of existing Americans with Disabilities Act (ADA) compliant and operable sidewalk where feasible.
- Construction of new curb, gutter, and 6' wide detached sidewalk in locations which do not currently have sidewalk or where it is not feasible to preserve the existing sidewalk. Then new curb and gutter, in conjunction with the narrowed roadway, will provide reduced crossing distance for pedestrians.
- Construction of new ADA sidewalk ramps.
- Construction of new driveways and sidewalk scuppers.
- Removal of the existing channelized right turn lanes at the Fry Boulevard/North Garden Avenue intersection.
- Removal of the existing median 'pork chop' islands at the Fry Boulevard/North Garden Avenue intersection.
- Signal warrant analyses at the Fry Boulevard/North Garden Avenue intersection.
- Relocation of traffic signal poles and/or reconfiguration of traffic signal (as needed to accommodate the proposed improvements) at the Fry Boulevard/North Garden Avenue intersection.
- Construction of a new ADA compliant shared-use path from the existing path along the east side of BST to Gateway Park.
- Construction of a new ADA compliant shared-use path from the proposed sidewalk along the east side of North Garden Ave sidewalk to the existing shared-use path in Solider Creek Park.
- Construction of an at-grade crossing of North Garden Avenue to connect Gateway Park and Soldier Creek Park.
- Identification and construction of features to capture and harvest stormwater from the roadway. Earthwork is anticipated in conjunction with any stormwater retention/detention areas.
- Installation of new street lighting north of Taylor Drive in areas where it does not currently exist.
- Installation of landscape elements along the roadway including new trees and other vegetation along with benches and other pedestrian features.
- Application of a pavement seal coat on the entire final roadway surface.
- Installation of new striping/signing as needed to accompany the proposed improvements.
- Public meetings at conceptual and final design stages.

D. DEVELOPMENT CONSIDERATIONS

Utilities:

There are numerous utilities within the project corridor. A Bluestake listing of utility providers is provided below:

Member Name	Facility Types	Contact Name	Phone Number	Emergency Phone
Arizona Dept. of Transportation-Safford*	CULVERT, ELECTRIC	Jim Reindl	(520) 720 - 4751	(520) 507 - 7326
Bella Vista Water Co. dba Liberty Utilities	WATER	Debbie Willard - Liberty H2o	(520) 458 - 5470 x240	(520) 458 - 5470
City of Sierra Vista Public Works and Parks	SEWER, TRAFFIC SIGNALS, WATER	Keith Perry	(520) 458 - 5775 x238	(520) 227 - 4867

Cox Communications - Sierra Vista	CATV, FIBER	Joe Parker (Graycliff)	(520) 488 - 8970	(520) 262 - 2570
CTLQL - CenturyLink	COAXIAL, FIBER	ELM Locating Recalls and Unknowns: East	(623) 780 - 3350	(800) 283 - 4237
Southwest Gas- Main Office- Sierra Vista	GAS	KANDI ALLRED	(520) 452 - 4127	(800) 722 - 4277
Sulphur Springs Valley Electric Co-Op WILLCOX	ELECTRIC	Mark Roll	(520) 686 - 5405	(800) 422 - 3275
Westwood Village Apartments	EXCAV NOTIFY BY CERTIFIED MAIL	Regina Swan-Mgr,	(520) 458-0480	

*Note: Effective October 1, 2015 Sierra Vista will be part of the ADOT Tucson District.

Utility relocations are expected to be minor in association with the proposed improvements due to the road being narrowed within the existing pavement. Potential relocations include valve and manhole adjustments.

Precaution should be taken near the overhead electric lines that cross North Garden Avenue north of Taylor Drive.

Consideration may be given during final design to the removal of the Fry Boulevard/North Garden Avenue traffic signal, provided alternative means for facilitating pedestrian crossings can be provided.

Roadway:

The North Garden Ave and BST intersection is expected to remain largely unchanged by the proposed improvements. This is due to the sharp intersection skew angle at BST and the right-of-way requirements that would be associated with correcting this skew. Sidewalks are expected to terminate south of this intersection for two reasons. First, there are no continued pedestrian movements along BST north of North Garden Ave. Second, the roadway slopes at the intersection are too steep to meet ADA requirements.

The posted speed on North Garden Avenue is expected to be reduced from 35 mph to 30 mph.

During final design, locations where existing sidewalk will require replacement will need to be identified. One such location is in front of Daisy Mae's Stakehouse.

The existing roadway striping appears to consist of thermoplastic pavement markings with raised pavement markers.

Environmental:

It is anticipated that federal funding from the Federal Highway Administration (FHWA), combined with local funding, would be used for construction and, therefore, the project would require compliance with the National Environmental Policy Act (NEPA) and would be expected to qualify as a Categorical Exclusion. Environmental clearance would be granted by the Arizona Department of Transportation (ADOT) and the FHWA. Associated technical reports would be prepared in accordance with the guidelines and formats required by ADOT and the FHWA.

The following sections summarize the environmental issues identified to date and the additional analysis and documentation that would be undertaken if federal construction funding is to be used.

Cultural Resources:

A search of the AZSITE database and the National Register of Historic Places (NRHP) identified one known cultural resource in the study area—a historic railroad grade. The City of Sierra Vista representatives identified the alignment of the historic railroad grade, evidence of which is no longer visible in the immediate project area. During the field review, two historic-age buildings were also noted along the project corridor: 332 N. Garden Avenue (most recently, Daisy Mae’s Steakhouse—currently vacant), and 301 N. Garden Avenue (currently, a realty office). These buildings have not been formally assessed to determine if they would be eligible for the NRHP; however, Nancy Krieski, Curator, Henry F. Hauser Museum in Sierra Vista, noted in a phone conversation (August 11, 2015) that these buildings are of local importance.

A cultural resource field survey would be conducted, as applicable, and an associated report would be prepared during the NEPA clearance process. An ADOT Historic Preservation Team Consultation Initiation Form and draft cultural consultation letters would be prepared. At this time, it is assumed that an assessment of eligibility of the buildings at 301 and 332 North Garden Avenue would also be required; however, the need for such assessments should be verified with ADOT at the start of the environmental analysis and documentation process.

Section 4(f) of the US Department of Transportation Act:

Section 4(f) of the US Department of Transportation Act of 1966 states that the Secretary of Transportation:

“...may approve a transportation program or project...requiring the use of publicly owned land of a public park, recreation area, or wildlife and waterfowl refuge of national, state, or local significance, or land of an historic site of national, state, or local significance (as determined by the federal, state, or local officials having jurisdiction over the park, area, refuge, or site) only if ...there is no prudent and feasible alternative to using that land and the program or project includes all possible planning to minimize harm to the park, recreation area, wildlife and waterfowl refuge, or historic site resulting from the use” (49 United States Code [U.S.C.] 303[c]).

A “use” of a Section 4(f) resource, as defined in Code of Federal Regulations Title 23, Part 771.135(p) occurs:

- a) when property is permanently incorporated into a transportation facility;
- b) when there is a temporary occupancy of land that is adverse in terms of the statute’s preservation purpose; or
- c) when there is a constructive use of a Section 4(f) property.

Properties within and along the project corridor that have the potential to be protected under Section 4(f) of the US Department of Transportation Act include two publicly owned parks: Gateway Park and Soldier Creek Park. The City noted that they may want to construct a pedestrian path from North Garden Avenue down the embankment to Soldier Creek Park to improve pedestrian access to the park. The construction of the path within the park boundary will require compliance with Section 4(f) if US Department of Transportation funding is used. Various exceptions to the requirement for Section 4(f) approval are outlined in 23 Code of Federal Regulations 774.13 Exceptions. The construction of a path from the roadway into Soldier Creek Park may qualify for Exception (g)—*Transportation enhancement projects and mitigation activities*, where the use of the

Section 4(f) property is solely for the purpose of preserving or enhancing an activity, feature, or attribute that qualifies the property for Section 4(f) protection; and the official(s) with jurisdiction over the Section 4(f) resource agrees in writing to paragraph (g)(1) of this section.

Cultural resources listed on the NRHP, eligible for listing on the NRHP, or of local importance have the potential to be protected under Section 4(f) if they are valued for preservation in place (typically these are the properties eligible for listing on the NRHP under Criteria A, B, or C). The buildings at 301 and 332 N. Garden Avenue may be protected under Section 4(f), requiring compliance with the act. The project, as planned, however, is not expected to result in a Section 4(f) use of either of these two buildings, nor result in a constructive use (e.g., auditory or visual impact).

Section 6(f) of the Land and Water Conservation Fund Act:

The Land and Water Conservation Fund Act (LWCFA) of 1965 regulates user fees at certain recreational areas and establishes a fund in the US Department of the Treasury to subsidize governmental acquisition of lands and waters for recreational and conservation purposes (16 U.S.C. 460l-4 et seq.). Under Section 6(f) of the LWCFA, any conversion to nonrecreational uses for recreational lands and waters that used LWCFA funds during facility acquisition, establishment, or improvements requires the prior approval of the National Park Service and Arizona State Parks. A review of the National Park Service-LWCF website did not indicate any Section 6(f) funded projects within 0.25 mile of the project corridor. Any recreational facilities that would be impacted by project construction would be evaluated to determine whether LWCFA funds were used at the facilities.

Floodplain Encroachment:

A review of the Federal Emergency Management Agency Flood Insurance Rate Maps (Map number: 04003C2141F) indicated that a 100-year floodplain crosses the project alignment along Soldier Creek. Coordination with the Floodplain Administrator will be required.

Sections 404 and 401 of the Clean Water Act:

Soldier Creek is a Waters of the US and falls under the jurisdiction of the US Army Corps of Engineers. Any work within the jurisdictional limits of Soldier Creek would require compliance with the Clean Water Act, Sections 404 and 401; however, the current scope does not include work within the creek.

Section 402 of the Clean Water Act/Arizona Pollutant Discharge Elimination System:

It is expected that project construction would disturb one or more acres of land; therefore, a Clean Water Act Section 402 Stormwater Pollution Prevention Plan and Arizona Pollutant Discharge Elimination System construction general permit would be required.

Biological Resources:

The US Fish and Wildlife Service (USFWS) Information, Planning, and Conservation System (IPaC) website was accessed on July 21, 2015, to determine whether sensitive species and/or habitats potentially occur in the project area and to obtain an unofficial list of federally protected species with the potential to occur within the project limits. Recent aerial photography was also reviewed. There are no concerns related to federally listed threatened or endangered species. If the project requires the removal of any trees or other vegetation suitable for use by breeding birds, compliance with the Migratory Bird Treaty Act would be required during construction.

A biological technical document would be prepared. The biological investigation would include a review and evaluation of the AGFD On-line Environmental Review Tool and USFWS IPaC website, a site visit conducted by a qualified biologist, and agency coordination. Biological mitigation measures, if needed, would be identified and incorporated into the environmental clearance, as appropriate. It is expected that species-specific protocol surveys and Endangered Species Act Section 7 consultation with the US Fish and Wildlife Service would not be required for this project.

Wetlands and Riparian Areas:

A review of recent aerial photography identified no wetlands or riparian areas are in the project area.

Potential Contaminants:

Archaeological Consulting Services, Ltd. (ACS) conducted an assessment of online regulatory resources (listed below) to preliminarily determine the presence or likely presence of hazardous materials impacts located within the project corridor. The ADEQ eMaps website (accessed July 30, 2015) identified two underground storage tank UST sites located along North Garden Avenue. An additional UST site was identified near the North Garden Avenue and Fry Boulevard intersection. Each of the UST sites indicate a release; however, the facilities' leaking UST (LUST) cases have been closed. Although the potential for residual contamination exists, ACS does not believe that the LUST sites should impact the project based on the initial project scope.

A dry cleaner/laundry facility (Martin Cleaners) is located southwest of the North Garden Avenue and Fry Boulevard intersection. No indication of a release from this facility is listed. Therefore, the site is not anticipated to impact the project based on the initial project scope (see below for additional information on Martin Cleaners).

The ADEQ eMaps tool also identified Fort Huachuca, which surrounds the project area, as a Department of Defense (DOD) Superfund site. Based on the development in the project area and likely distance from the affected portions of Fort Huachuca, it is unlikely that the DOD Superfund listing will impact the project based on the initial project scope.

The U.S. Environmental Protection Agency (EPA) NEPAassist website (accessed July 31, 2015) identified Martin Cleaners as a Resource Conservation and Recovery Act (RCRA) small quantity generator of hazardous waste. No violations were found during the most recent 2009 RCRA inspection. This site is not anticipated to impact the project based on the initial project scope.

The EPA Enforcement and Compliance History Online (ECHO) website (accessed July 30, 2015) identified Martin Cleaners, which is described above, as well as a site with previous Safe Drinking Water Act violations. Based on the current scope and type of facility (community water system), this site is not anticipated to impact the project as currently scoped.

ACS recommends that painted surfaces, including roadway striping, curbs, and cattle guards, be sampled for lead-based paint if any of these features will be impacted by project construction. If suspected hazardous materials (surface or subsurface) are encountered during construction, especially in the vicinity of the LUST sites, work should cease at that location and the ADOT Project Engineer should be notified so arrangements can be made to properly assess the material.

A Preliminary Initial Site Assessment (PISA) would be conducted for the project. The PISA would include a site visit by a qualified hazardous materials specialist and a review of the results of a hazardous materials database record search. During design, the project plans and current asbestos and lead-based paint testing requirements would be reviewed to determine whether sampling and

testing for these contaminants would be required. If testing is required, the results would be summarized in a separate report.

Social and/or Economic Impacts:

Title VI of the Civil Rights Act of 1964 and related statutes assure that individuals are not excluded from participation in, denied the benefit of, or subjected to discrimination under any program or activity receiving federal financial assistance on the basis of race, color, national origin, age, sex, and disability. Executive Order 12898 on environmental justice (EJ), dated February 11, 1994, directs that programs, policies, and activities not have a disproportionately high and adverse human health or environmental effect on minority and low-income populations.

The project is in a fully developed urban area with residential, commercial, and industrial development. In accordance with current ADOT guidance, the presence of Title VI/EJ populations may not need to be determined because the project would have no new effects on these residents or on the surrounding area. The need for additional analysis would be evaluated during the environmental clearance process.

Scenic or Historic Road:

No scenic or historic roads are within the project limits.

Land Use:

The project limits are within a fully developed urban area. Land uses include multi-family residences, retail commercial developments, office/business parks, hotels and restaurants, industrial office space, outdoor recreation areas, and open space.

Air Quality and Noise:

Air quality regulations are based on the National Ambient Air Quality Standards (NAAQS). The concentrations of criteria pollutants in the project area are below the levels established by the NAAQS and, therefore, the project area is considered in “attainment” of air quality standards. Sensitive air quality and noise receptors, including multi-family residences, are within 1,000 feet of the project limits. However, the project would not modify the existing roadway alignment or increase roadway traffic capacity; therefore, no quantitative air quality or noise analyses would be required for the project. Qualitative air quality and noise analyses would be conducted as part of the environmental clearance process.

Sole Source Aquifers:

Based on recent EPA mapping, the project is not within the boundaries of a sole source aquifer.

Prime and Unique Farmland:

Based on a review of aerial photography and field investigation, no agricultural land is in the project area.

Survey/Right-of-Way:

It is anticipated that most of the construction will be confined within the right-of-way boundaries. However, construction of the shared-use paths may require new right-of-way or temporary construction easements.

There may be existing Survey Monuments and/or Section Corner Monuments located within the project limits. The monument locations will be investigated during design. Provisions should be made to avoid disturbing the monuments during construction.

E. SCHEDULE

An anticipated project schedule is attached to this document. At the beginning of the design phase (within three weeks of the design kick-off meeting), the project manager in consultation with the design team shall develop a customized project schedule that will reflect the full scope of work. Upon request, ADOT's Program and Project Management Section will provide the technical support to the project team in this effort.

F. ESTIMATED CONSTRUCTION COST

Roadway	\$1,141,885
Design, contingency, review costs, etc.	\$604,267
Total Construction Cost	\$1,746,152

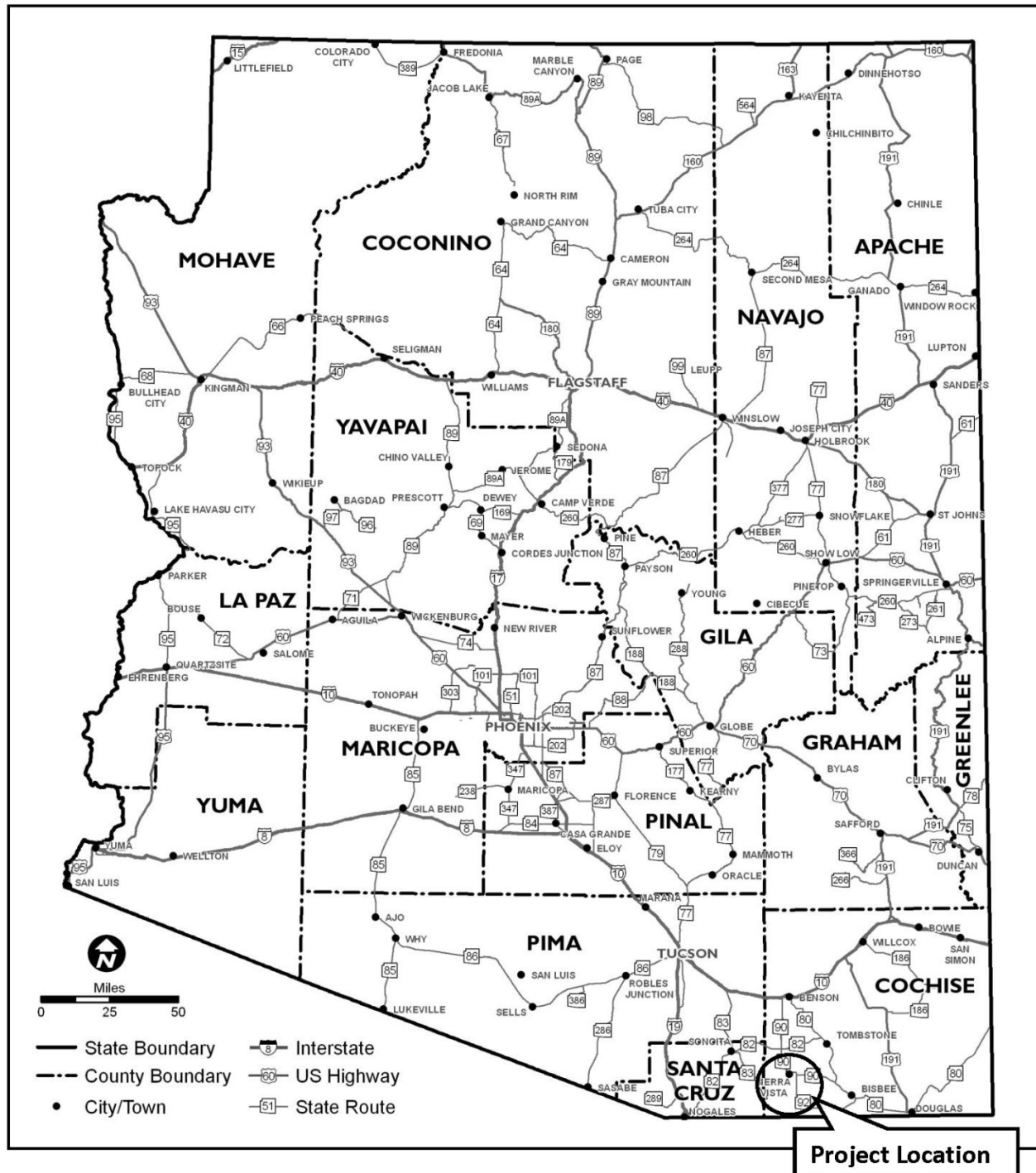
Landscape costs are based on typical streetscape cost per square foot. Pavement costs are based on historic bid results for similar projects and similar pavement sections.

The estimated unit costs for other items are based upon current unit prices obtained from ADOT's "Construction Costs Data Base".

Sierra Vista: N. Garden Avenue
Estimated Engineering Construction Cost

Item Number	Item Description	Unit	Quantity	Unit Price	Amount
2010001	Clearing and Grubbing	Lsum	1	\$1,000.00	\$1,000
2020021	Removal Of Concrete Curb And Gutter	LF	4825	\$6.00	\$28,950
2020201	Saw Cutting	LF	5400	\$1.00	\$5,400
2020025	Removal Of Concrete Sidewalk	SF	10348	\$4.00	\$41,392
2020036	Removal Of Asphaltic Concrete Pavement	SY	5207	\$5.00	\$26,035
2030401	Drainage Excavation	CY	350	\$8.50	\$2,975
2030901	Borrow	CY	1000	\$9.00	\$9,000
4160002	Miscellaneous Paving (5" AC on 10" AB)	SY	918	\$40.00	\$36,720
4040156	Slurry Seal	SY	12500	\$3.00	\$37,500
6080101	Miscellaneous Work (Signs)	Lsum	1	\$12,000.00	\$12,000
7041501	Pavement Markings	Lsum	1	\$5,000.00	\$5,000
7060015	Pavement Marker, Raised, Type D	EA	300	\$4.00	\$1,200
7330560	Relocate Traffic Signals	Lsum	1	\$100,000.00	\$100,000
7360104	Luminaire	EA	12	\$5,000.00	\$60,000
80100XX	Landscaping	SF	35320	\$2.25	\$79,470
8030096	Bike Path (Shared Use Path to Soldiers Creek Park)	SF	3500	\$2.00	\$7,000
9080081	Concrete Curb and Gutter (C-05.10) (Type G)	LF	4745	\$11.00	\$52,195
9080133	Concrete Valley Gutter and Apron	SF	4950	\$7.00	\$34,650
9080201	Concrete Sidewalk (C-05.20)	SF	16637	\$5.00	\$83,185
9080296	Concrete Sidewalk Ramp (C-5.30, Type A)	EA	20	\$2,000.00	\$40,000
9080298	Concrete Sidewalk Ramp (C-5.30, Type E)	EA	4	\$2,000.00	\$8,000
9080301	Commercial Concrete Driveway	SF	7150	\$5.00	\$35,750
9080512	Scupper	EA	10	\$2,750.00	\$27,500
SUBTOTAL =					\$734,922
Miscellaneous Work		Cost	25%		\$183,731
SUBTOTAL =					\$918,653
Construction Surveying & Layout		Cost	2%		\$18,373
Erosion Control & Pollution Prevention		Cost	1%		\$9,187
Contractor Quality Control		Cost	2%		\$18,373
Dust Palliative		Cost	2%		\$18,373
Maintenance & Protection of Traffic		Cost	6%		\$55,119
SUBTOTAL =					\$1,038,077
Mobilization		Cost	10%		\$103,808
SUBTOTAL =					\$1,141,885
Design		Cost	9%		\$102,770
Construction Engineering		Cost	15%		\$171,283
Utility Relocation		Cost	2%		\$22,838
Contingency		Cost	20%		\$228,377
Environmental Clearance		Lsum	1	\$49,000.00	\$49,000
ADOT Design Review		Lsum	1	\$30,000.00	\$30,000
PROJECT TOTAL =					\$1,746,152

Project Location Map





PROJECT PHOTOS



Ponding at Fry Blvd Intersection “pork chop” Median – Looking East



Scupper South of Soldier Creek



Soldier Creek 4 Cell 10'x12' CBC – Looking Southwest



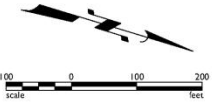
Daisy Mae's Steak House



North Garden and Fry Blvd Intersection – Looking South



Soldier Creek Park – Potential Shared-Use Path Alignment – Looking East



Conceptual Roadway Improvements Exhibit

Street Name & Location I.D. #	Counter Location	Week ending	Dir	A.D.T.	A.D.T.	85%	Both Directions	0		Peak Day		Peak Hour
	Between			5 Day	7 Day		5 day ADT	85th%	7 Day ADT	Total	Day	AM/PM

Fry Blvd # 1

1 - A - 1	Buffalo Soldiers Trail & Carmichael Ave	4/24/2012	E/B	6450	6096	38.3	10,579	9,484	39.4	6,857	FRI	1100-1600
1 - A - 2			W/B	4129	3388	40.5						

Buffalo Soldiers Trail # 15

15 - A - 3	Hiway 90 By-Pass & Kayetan Dr.	6/4/2012	N/B	4829	4408	60.4	10,105	9,249	58.1	5,838	FRI	1100-1500
15 - A - 4		6/4/2012	S/B	5276	4841	55.7						

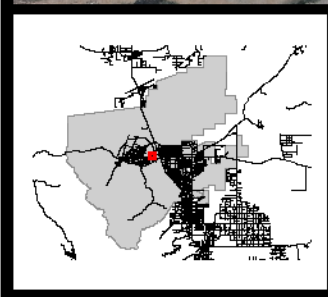
15 - B - 3	Kayetan Dr. & Fry Blvd.	6/4/2012	N/B	4393	3601	56.8	9,516	8,192	55.4	5,683	FRI	1100-1500
15 - B - 4			S/B	5123	4591	53.9						

15 - C - 3	Fry Blvd - Wilcox	6/4/2012	N/B	6177	4838	44.1	13,197	11,190	42.1	7,800	WED	1100-1600
15 - C - 4			S/B	7020	6352	40						

North Garden Ave. # 16

16 - A - 3	Buffalo Soldier Trail & Taylor	6/13/2012	N/B	1558	1368	44.3	2,657	2,315	40.6	1,798	fri	1100-1200
16 - A - 4		6/13/2012	S/B	1099	947	36.9						

16 - B - 3	Fry Blvd & Taylor	6/13/2012	N/B	1721	1334	40.7	3,213	2,666	37.7	2,042	fri	1100-1200
16 - B - 4		6/13/2012	S/B	1492	1332	34.7						



North Garden Avenue Property Owners

This map is a product of the
City of Sierra Vista GIS

0' 300'

N. Garden Avenue

Anticipated Project Schedule

Task	Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Notice to Proceed		*																
Kickoff Meeting/ Field Review with ADOT Staff		*																
Initial Stakeholders/ Scoping Meeting(s)			*															
Survey - R/W - Utility Research																		
Scoping Document / Stage I Plans (15%)																		
Stage II Plans (30%)																		
Stage III Plans (60%)																		
Stage IV Plans (95% & PS&E)																		
Stage V Plans (100%)																		
Agency Reviews																		
Agency/ Stakeholder Coordination																		
Public Involvement																		
Utility Coordination/Relocation (if necessary)																		
Right-of-way Clearance																		
Utility Clearance																		
Bid Ready Date																		
Bid Advertisement Date																		
Agency Scoping/Technical Documents																		
Cultural Consultation																		
Geotechnical Investigation Clearance																		
Section 4(f) Coordination																		
Environmental Clearance																		

*** Critical Path Items

* Approval

Environmental Clearance is required prior to submission of Stage IV (95%) Plans.

Meeting Minutes

Sierra Vista: N. Garden Avenue Pre-Scoping
Kickoff Meeting/ Field Review
MPD 006-16
July 22, 2015
Sierra Vista Public Works Offices

Attendees:

Name	Organization	Phone	Email
Kathryn Hammond*	ADOT Predesign	602-712-7343	khammond@azdot.gov
Paul David*	ADOT Safford District	928-651-5800	pdavid@azdot.gov
Bill Harmon	ADOT Safford District	928-651-1763	bharmon@azdot.gov
Mark Hoffman*	ADOT MPD	602-712-7454	mhoffman@azdot.gov
Dan Gabiou*	ADOT MPD	602-712-7025	dgabiou@azdot.gov
Sharon Flissar*	City of Sierra Vista	520-458-5775	Sharon.flissar@sierravistaaz.gov
Irene Zuniga*	City of Sierra Vista	520-458-5775	Irene.zuniga@sierravistaaz.gov
Daniel Coxworth*	Sierra Vista MPO	520-439-2178	Dan.coxworth@sierravistaaz.gov
Elijah Williams*	EPS Group Inc.	480-503-2250	elijah.williams@epsgroupinc.com
Leslie Stafford*	EcoPlan	480-733-6666	Lstafford@ecoplanaz.com

*Participated in Field Review following the meeting.

The meeting began with introductions of the attendees. An agenda was distributed to everyone present.

Background:

Sharon Flissar provided the background of the project. The project is located on North Garden Avenue between Buffalo Soldier Trail (BST) and Fry Boulevard (see attached project map). N. Garden Ave is functionally classified as a collector road and has a posted speed of 35 mph. The main gate to the Fort Huachuca Army Base is located immediately adjacent to the project at the intersection of BST and Fry Blvd. Sharon indicated that this portion of N. Garden Ave has experienced some recent development including the construction of new office and hotel projects. Additional development projects have been planned or discussed along this route. The City's desire is to put this

portion of N. Garden Ave on a 'road diet' by reducing the current 5 lane roadway to 3 lanes and adding various landscape, bicycle, and pedestrian features.

Dan Coxworth explained that the City had undertaken previous conceptual design and public relations efforts in association the proposed N. Garden Ave 'road diet'. These consisted of developing a rendering of potential raised and landscaping medians with widened sidewalks and landscape/planter boxes. This concept plan only extended from Fry Blvd to Soldier Creek Park. He stated that the public had favorably received the idea of a 'road diet'. The current City approach to the 'road diet' will not include medians and will extend from Fry Blvd to BST.

Project Scope:

Elijah explained the Pre-scoping effort associated with N. Garden Ave. Primary deliverables include a pre-scoping document, schedule, and high level cost estimate. These items will be delivered in an accelerated fashion (~6 weeks) and are intended to assist the City in pursuing adequate funding and project development.

Project scope elements include the following:

Roadway: North Garden Ave north of Fry Blvd will be symmetrically narrowed from a face-of-curb to face-of-curb width of 64' to 47'. The proposed width is based on an anticipated cross section of 2-12' travel lanes, a 12' center turn lane, and 5.5' wide bike lanes. The posted speed is expected to be reduced to 30 mph. New/Improved sidewalks are also proposed. Several sidewalk options were discussed with City staff including detached sidewalks and 10' wide sidewalks with planter boxes. The City stated that they would discuss the sidewalk options and decide on a desired approach.

On street parking was discussed and was deemed undesirable due to potential bicycle "dooring" safety concerns and the presence of adequate onsite parking for the majority of the businesses along N. Garden Ave.

The proposed N. Garden Ave center turn lane will be dropped at the Soldier Creek crossing as the existing 4 cell 10'x12' concrete box culvert does not provide sufficient width for the proposed lanes (~60' total culvert length but only a 51' roadway clear width due to skew). Sidewalks will be provided across the box culvert but may be narrowed as needed to avoid extending the box. This will result in 5'-6' wide sidewalks across the box culvert.

The free right-turn lanes and associated 'pork-chop' medians at Fry Blvd will be removed. The proposed center turn lane will be constructed to Fry Blvd and no additional right-turn lanes are anticipated. These intersection improvements will impact the existing traffic signal. Sharon explained that traffic volumes for both N. Garden Ave and Fry Blvd are relatively low and that a recently completed signal warrant study indicated that a signal was not required at this intersection (Irene Zuniga agreed to provide whatever traffic data the City had to the project team). Further, Fort Huachuca intends to move its main gate to the other side of the army base within the next month. This move is anticipated to further reduce traffic at this intersection. At minimum, the N. Garden Ave and Fry Blvd traffic signal will need to be relocated to accommodate the proposed improvements. However, consideration should also be given in final design to the removal of the signal - provided alternative means for facilitating pedestrian crossings can be provided.

The N. Garden Ave and BST intersection is expected to remain largely unchanged by the proposed improvements. This is due to the sharp intersection skew angle at BST and the right-of-way requirements that would be associated with correcting this skew. Sidewalks are expected to terminate south of this intersection for two reasons. First, there are no continued pedestrian movements along BST north of N. Garden Ave. Second, the roadway slopes at the intersection are too steep to meet Americans with Disabilities Act (ADA) requirements.

Pedestrian/Bike: In addition to new/improved sidewalks and bike lanes, this project will construct a new shared-use path from the east N. Garden Ave sidewalk to Solider Creek Park. This shared-use path will need to meet ADA requirements and, due to the elevation difference between the park and the road, may need to be elongated to provide a 5% maximum slope. Various locations were considered to minimize the path slope.

A shared-use pathway exists along the east side of BST south of N. Garden Ave. This asphalt pathway terminates prior to the N. Garden Ave intersection. This project may realign this path through Gateway Park to N. Garden Ave in an alignment that could facilitate continued access across N. Garden Ave to Soldier Creek Park. The possibility of putting the shared-use pathway under N. Garden Ave via the existing box culvert was discussed. It was felt that the reduced road width and posted speed would accommodate an at-grade crossing.

Drainage: Drainage patterns will be largely maintained with the proposed improvements. Road runoff is currently directed in gutters or roadside swales toward Soldier Creek. There are no known storm drains in the project area. Scuppers exist

north and south of Soldier Creek along the west side of N. Garden Ave to direct road runoff toward Soldier Creek.

The proposed improvements will implement water harvesting features. These features are likely curb cuts that will pull street runoff into new or existing landscape areas. Specific locations for these features will be identified with final design. Kathryn Hammond noted that ponding occurs against the existing “pork-chop” medians at Fry Blvd. It appears that when the proposed improvements remove these medians as part of the Fry Blvd Intersection modifications the ponding issue will be resolved. The removal of the free right-turn lanes at this intersection may free up some space to accommodate water harvesting in this area to capture the ponding water.

Street Lighting: New street lighting will be provided north of Taylor Drive in areas where it does not currently exist.

Utilities: There are numerous utilities within the project corridor. A Bluestake listing of utility providers is provided below:

Member Name	Facility Types	Contact Name	Phone Number	Emergency Phone
Arizona Dept. of Transportation-Safford	CULVERT, ELECTRIC	Jim Reindl	(520) 720 - 4751	(520) 507 - 7326
Bella Vista Water Co. dba Liberty Utilities	WATER	Debbie Willard - Liberty H2o	(520) 458 - 5470 x240	(520) 458 - 5470
City of Sierra Vista Public Works and Parks	SEWER, TRAFFIC SIGNALS, WATER	Keith Perry	(520) 458 - 5775 x238	(520) 227 - 4867
Cox Communications - Sierra Vista	CATV, FIBER	Joe Parker (Graycliff)	(520) 488 - 8970	(520) 262 - 2570
CTLQL - CenturyLink	COAXIAL, FIBER	ELM Locating Recalls and Unknowns: East	(623) 780 - 3350	(800) 283 - 4237
Southwest Gas-Main Office- Sierra Vista	GAS	KANDI ALLRED	(520) 452 - 4127	(800) 722 - 4277
Sulphur Springs Valley Electric Co-Op WILLCOX	ELECTRIC	Mark Roll	(520) 686 - 5405	(800) 422 - 3275
Westwood Village Apartments	EXCAV NOTIFY BY CERTIFIED MAIL	Regina Swan-Mgr,	(520) 458-0480	

Utility relocations are expected to be minor in association with the proposed improvements due to the road being narrowed within the existing pavement. Potential relocations include valve and manhole adjustments.

Landscaping: Landscape elements will be provided. These include new trees and other vegetation along with benches and other pedestrian features. The exact scope and nature of these improvements will be defined in final design.

Environmental Considerations:

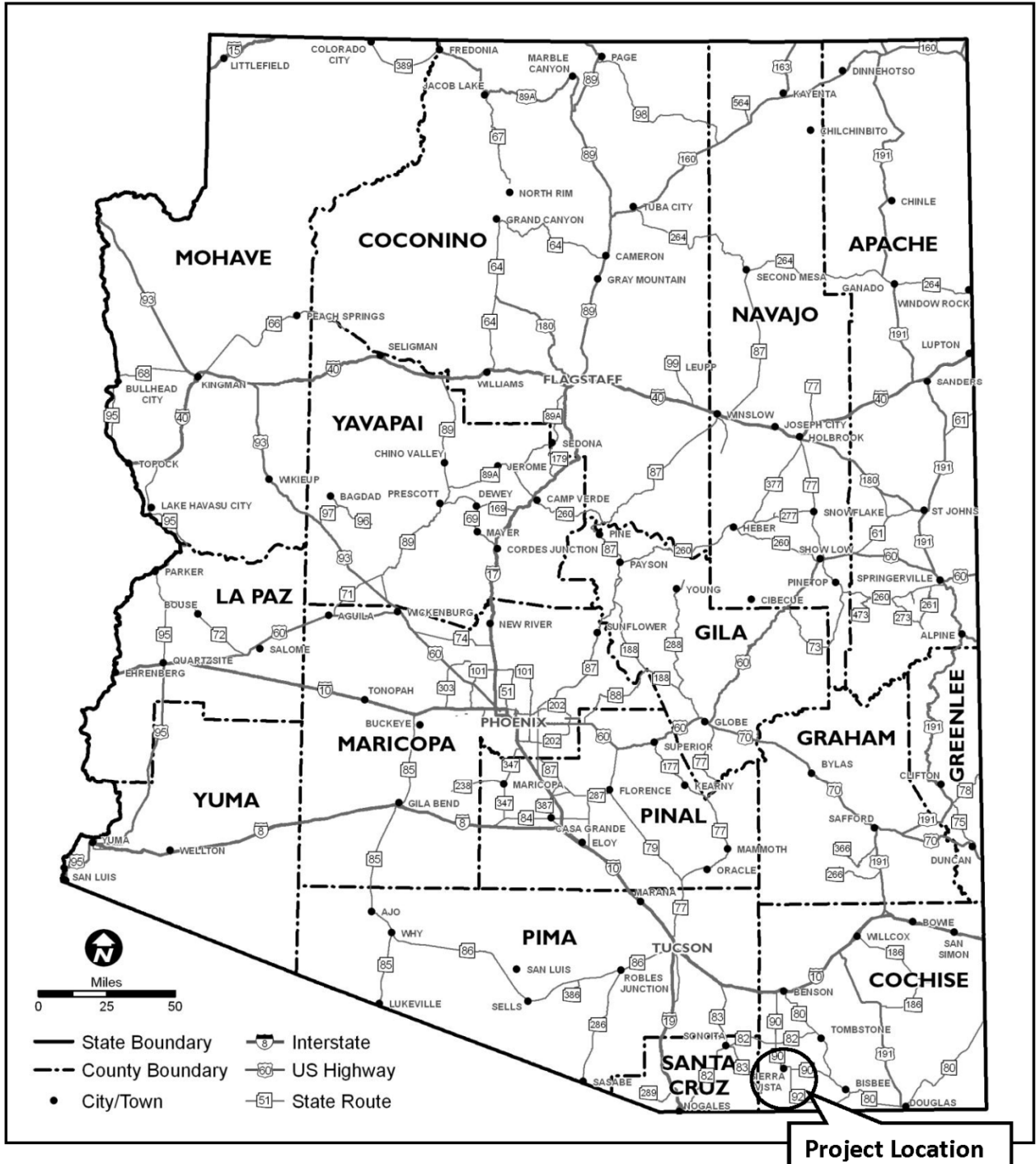
Cultural Resources: A pre-meeting search of the AZSITE database and the National Register of Historic Places (NRHP) identified one known cultural resource in the study area—an historic railroad grade. City representatives identified the alignment of the historic railroad grade, evidence of which is no longer visible in the immediate project area. During the field review, two historic-age buildings were also noted: 332 N. Garden Avenue (most recently, Daisy Mae’s Steakhouse), and 301 N. Garden Avenue (currently, a realty office). It is currently unknown whether these buildings would be eligible for the NRHP.

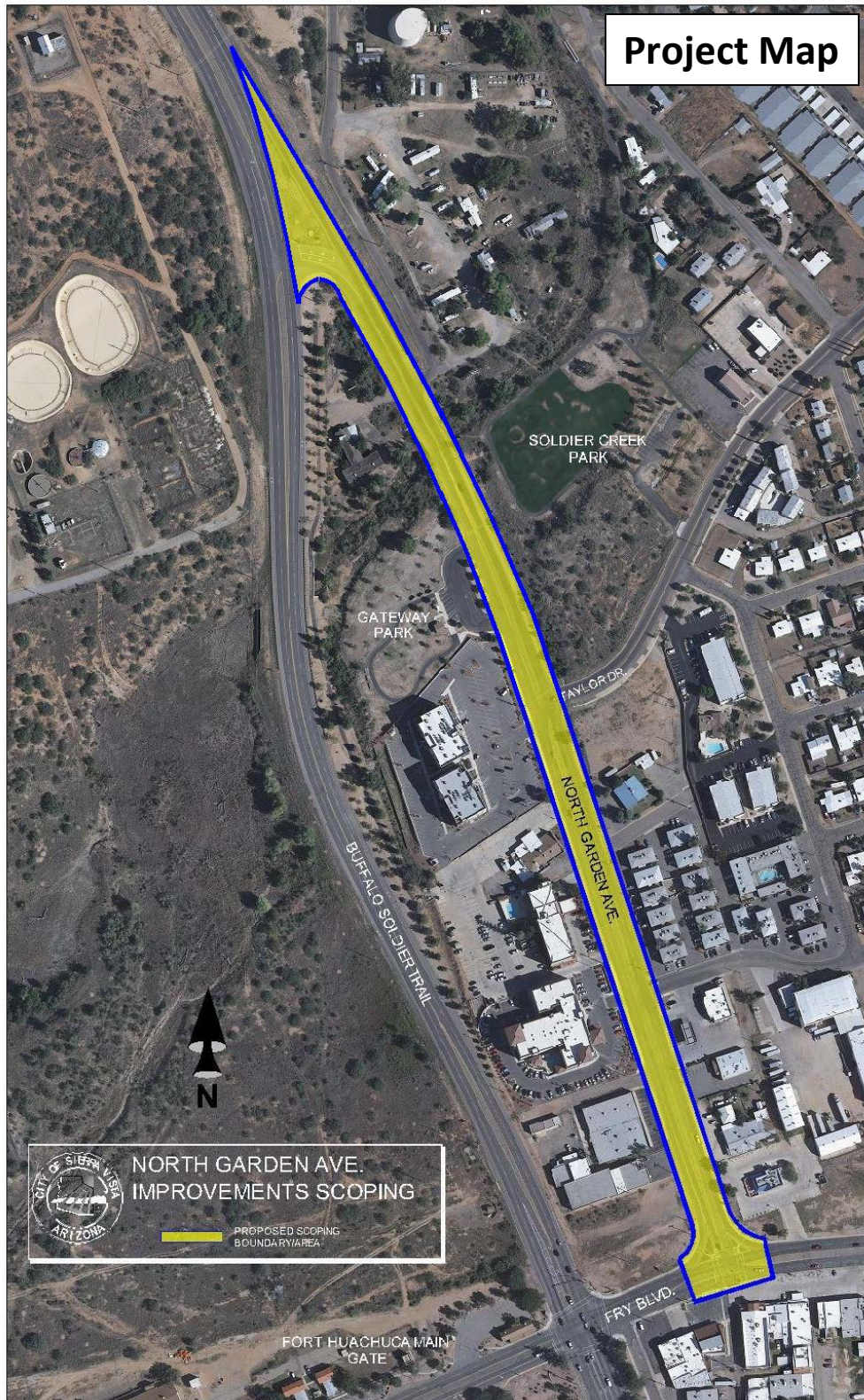
Section 4(f) of the US Department of Transportation Act: Properties that have the potential to be protected under Section 4(f) of the US Department of Transportation Act were discussed in the kickoff meeting. Two of these are publicly owned parks: Gateway Park and Soldier Creek Park. The City noted that they may want to construct a pedestrian path from North Garden Avenue down the embankment to Soldier Creek Park to improve pedestrian access to the park. The City will provide maps for each park that depict the official park boundaries. Note that cultural resources listed on the NRHP or eligible for listing have the potential to be protected under Section 4(f) if they are valued for preservation in place (typically these are the properties eligible for listing under Criteria A, B, or C).

Floodplain and Clean Water Act: The 100-year floodplain crosses the project alignment along Soldier Creek. Soldier Creek is a *Waters of the US* and falls under the jurisdiction of the US Army Corps of Engineers. Work within Soldier Creek would require compliance with the Clean Water Act, Sections 404 and 401.

Biological Resources: There are no concerns related to federally listed threatened or endangered species. If the project requires the removal of any trees or other vegetation suitable for use by breeding birds, compliance with the Migratory Bird Treaty Act would be required during construction.

Project Location Map





City of Sierra Vista
North Garden Avenue
PARA Pre-Scoping Kick-Off and Field Review
July 22, 2015 10:00am

	Name	Organization	Phone	Email
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5	Leslie Stafford	EcoPlan Assoc.	480-738-6666	1381stafford@ecoplanaz.com
6	SHARON FLISSAR	COSV	(520) 458-5775	sharon.flissar@sierravistaaz.gov
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10	Bill Harmon	ADOT STAFFORD	928-651-1763	bharmon@azdot.gov
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PROJECT PHOTOS



Ponding at Fry Blvd Intersection “pork chop” Median – Looking East



Scupper South of Soldier Creek



Soldier Creek 4 Cell 10'x12' CBC – Looking Southwest



Daisy Mae's Steak House



N. Garden and Fry Blvd Intersection – Looking South



Soldier Creek Park – Potential Shared-Use Path Alignment – Looking East