October 28, 2015

Town of Payson – Pre Scoping McLane/Longhorn Intersection (Construct New Round-about)

Submitted to

ADOT

Multimodal Planning Division

Prepared by

JACOBS

101 N 1st Ave
Suite 2600
Phoenix, AZ 85003

PRELIMINARY SCOPING REPORT

GENERAL PROJECT INFORMATION	
Date: October 2015	**ADOT Project Manager: Dan Gabiou**
Project Name: Payson McLane/Longhorn Round-about	
City/Town Name: Town of Payson	**County: Gila**
Primary Route/Street: McLane & Longhorn Intersection	
Beginning Limit: (Milepost / Cross Street)	
End Limit: (Milepost / Cross Street)	
Project Length: Intersection	
Right-of-Way Ownership(s) (where proposed project construction would occur)**:** *(Check all that apply)* ☒ City/Town**;** ☐ County; ☐ ADOT ; ☐ Private ; ☐ Federal; ☐ Tribal; ☒ Other: School	
Adjacent Land Ownership(s): *(Check all that apply)* ☐ City/Town; ☐ County; ☐ ADOT; ☒ Private; ☐ Federal; ☐ Tribal; ☒ Other: (School) *http://gis.azland.gov/webapps/parcel/*	

LOCAL PUBLIC AGENCY (LPA) or TRIBAL GOVERNMENT INFORMATION *(If applicable)*		
LPA/Tribal Name: Town of Payson		
LPA/Tribal Contact: Curtis Ward, Town Engineer		
Email Address: cward@paysonaz.gov	**Phone Number: 928-978-3514**	
Administration: ☒ ADOT Administered	☐ Self-Administered	☐ Certification Acceptance

PROJECT NEED

The project is located at the intersection of McLane and Longhorn roads in the town of Payson Arizona. The intersection is located near the Payson High School and experiences high traffic volumes especially at peak periods during the day (i.e. before school, lunch time and after school. The High School parking lot is located south of the intersection and cars back up while trying to exit. The intersection is currently controlled by a four-way stop. This configuration marginally functions under normal traffic volumes and struggles during the peak hours with long backups of vehicles making turns from all directions. The majority of the peak hour turns are for student ingress and egress from the adjacent school parking lot on McLane south of Longhorn.

PROJECT PURPOSE

What is the Primary Purpose of the Project?	Preservation ☐	Modernization ☒	Expansion ☐

The Town of Payson has constructed several round-abouts that have successfully improved similar intersection operational challenges. The purpose of this project is to replace the existing four-way stop intersection control with a new round-about. See preliminary design concept drawing that show the layout of the round-about, channelization of vehicles, pedestrian accommodation, larger diameter to accommodate school buses, and improved access control near the intersection. The main purpose is more efficient flow of traffic through the intersection, especially during peak periods.

PRELIMINARY SCOPING REPORT

PROJECT TYPE		
Pavement Preservation ☐	Roadway Widening ☐	System Enhancement ☐
Bridge Scour/Rehab ☐	Bridge Replacement ☐	Sign Replacement ☐
Other ☒ : Modernization – New Round-about		

PROJECT RISKS	
Check any risks identified that may impact the project's scope, schedule, or budget:	
☒ Access / Traffic Control / Detour Issues	☒ Right-of-Way
☐ Constructability / Construction Window Issues	☐ Environmental
☒ Stakeholder Issues	☒ Utilities
☐ Structures & Geotech	☐ Other:

Risk Description: *(If a box is checked above, briefly explain the risk)*

Traffic control during construction will be a challenge due to the high peak volumes and proximity to the High School. Close coordination with stakeholders will be required throughout project development and design; the town will utilize public involvement to keep stakeholders, students, parents and adjacent property owners involved. The project could include detours and minor closures during construction. The land exchange with the Forest Service needs to be completed prior to project initiation, the R/W will need to be obtained from the School District. Change in existing local business access; 1) Apartments on SW corner lose left turn access onto McLane, 2) the storage facility will have a relocated secondary access from current location (re-evaluate during final design) to the north 150' and will have right-in-right-out access only.

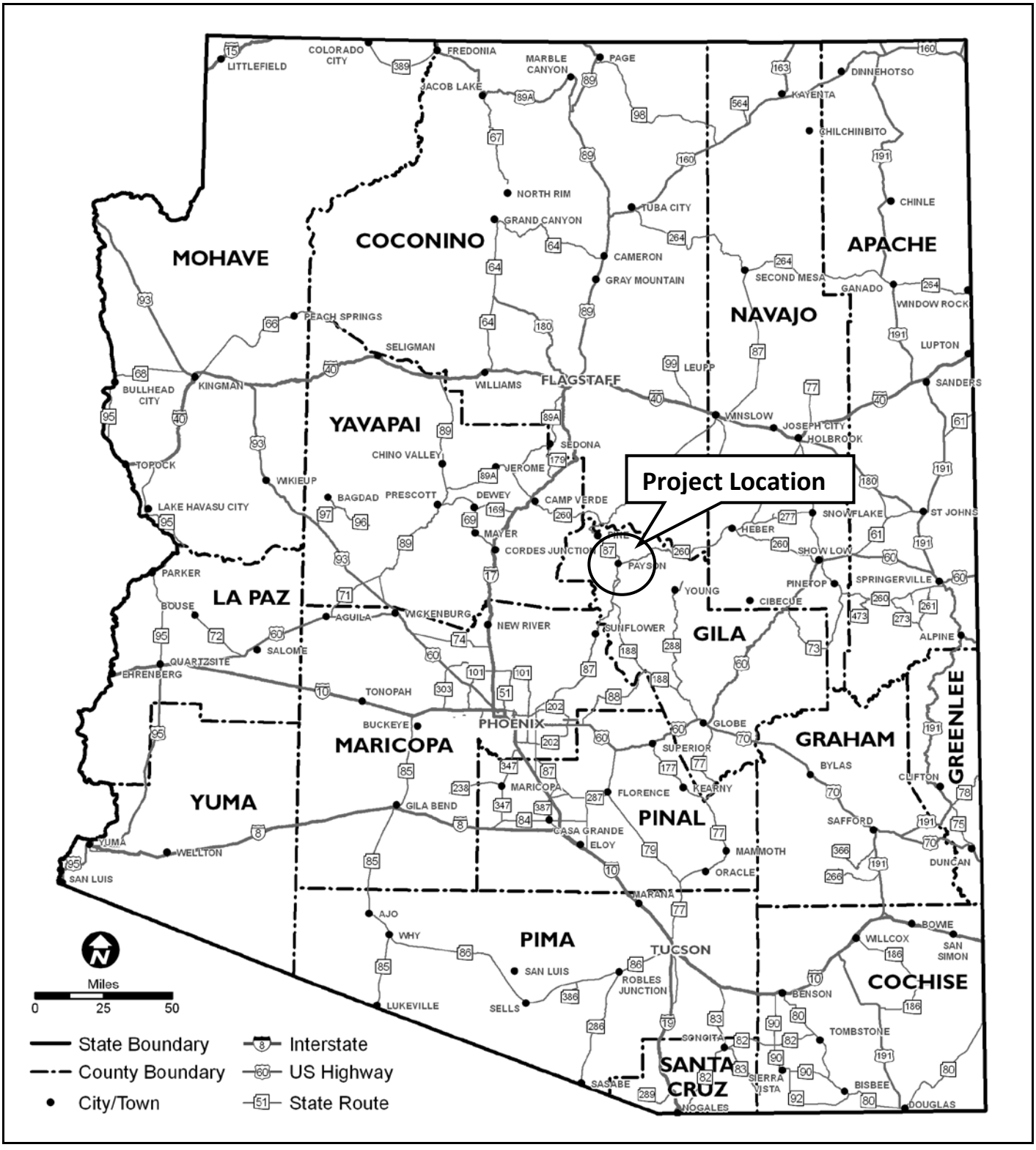
FUNDING SOURCE(S)				
Anticipated Project Design/Construction Funding Type: *(Check all that apply)*	☒ STP	☐ TAP	☐ HSIP	☐ State
	☒ Local	☐ Private	☐ Other:	

COST ESTIMATE				
Preliminary Engineering	Design	Right-of-Way	Construction	Total
	$180,000	$20,000	$952,811	$1,152,811

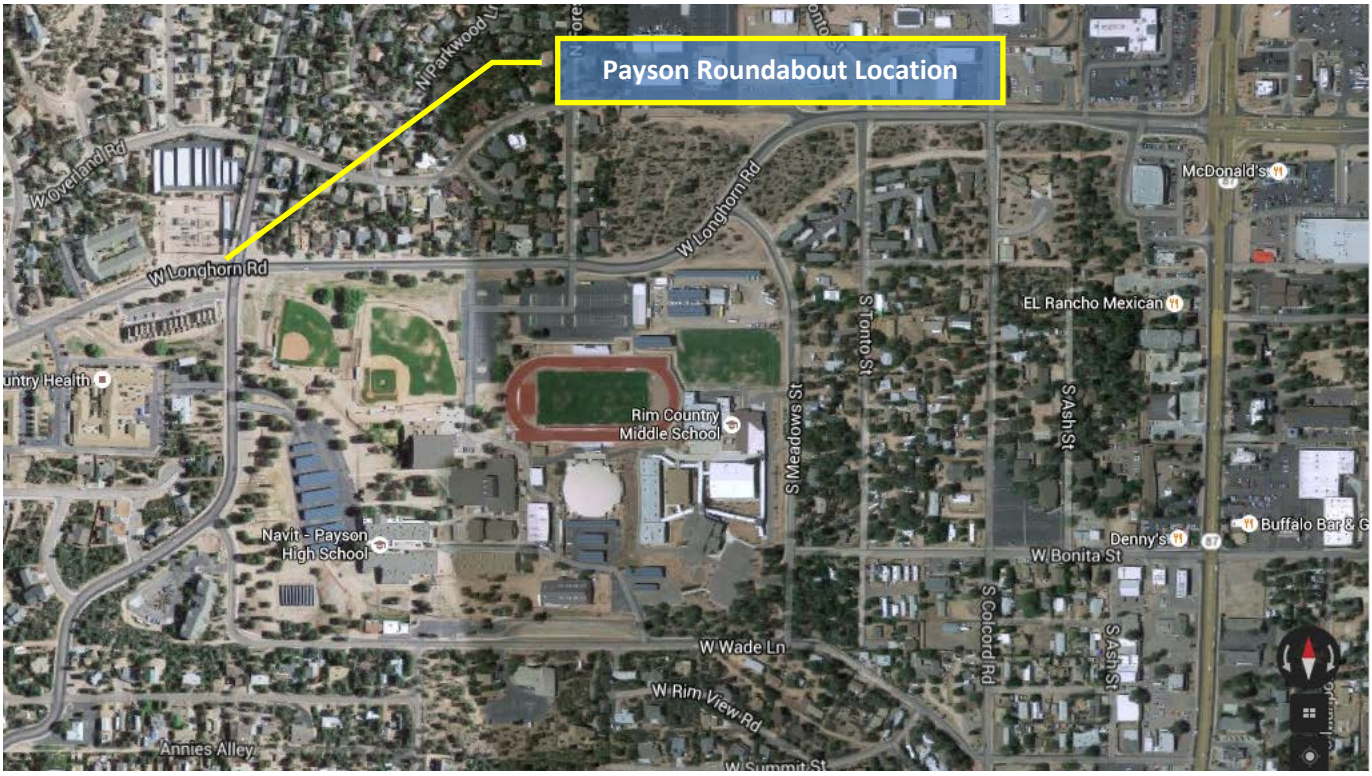
PROJECT DELIVERY
Delivery: ☒ Design-Bid-Build ☐ Design-Build ☐ Other:
Design Program Year: FY 2019
Construction Program Year: FY 2024, FY 2025

ATTACHMENTS
1) State Location Map 2) Project Vicinity Map 3) Project Scope of Work 4) Project Schedule 5) Itemized Cost Estimate 6) 15% Design Plan Sheet

ATTACHMENT 1 – PROJECT LOCATION MAP



ATTACHMENT 2 – PROJECT VICINITY MAP



This map should show the full limits of the project. Google Maps or a legible drawing with street names labeled will suffice.

Include and label the following details in your map *(if known)*:

See Preliminary Design Layout sheet (Attached)

ATTACHMENT 3 – SCOPE OF WORK

SCOPE OF WORK

(Provide a detailed breakdown of the project's scope of work using bullet format)

FINAL DESIGN

- Complete quick project verification (Stage I) review to assure the scope contained in this document is still valid.
- Select a design consultant familiar with round-abouts to complete final design.
- Complete the final design in close conformance to the schedule show below (actual durations may vary depending on workload and other factors and will be more accurately determined during final design.
- Refine the design and cost estimate.
- Prepare the project for bid advertisement, bid analysis and award.
- ADOT finalize contract and provide NTP to contractor to begin construction.
- Staging and stockpiling of vehicles and equipment will occur throughout the project limits.
- Public Involvement should be utilized throughout the project to keep everyone informed.
- Contractor staging area has not been identified and would be done during final design.
- Complete all clearances (environmental, materials, utilities) prior to completion of design
- Complete Right-of-Way (ROW) take prior to construction.
- Complete final design, bid and award project.

CONSTRUCTION

- Conduct partnering meeting and start construction mobilization.
- Contractor staking and layout. Utility relocation plan developed and implemented.
- Set up traffic control and any detours if need and determined by final design. Phasing plan may be required.
- Maintain access to adjacent properties.
- Complete the removal of existing AC pavement, curb, gutter, and sidewalk.
- Complete the minor excavation, grading and borrow placement.
- Complete the placement of new curb and gutter per staking plan developed in final design.
- Complete the placement of aggregate base material and final base preparation.
- Place new AC pavement
- Complete new mid-block access point to business along southbound McLane Rd.
- Replace sidewalk at access point with ADA-accessible parallel ramp.
- Construct new concrete driveways and sidewalks
- Install relocated street light and signs
- Place pavement markings and reflective markers.
- Install truncated dome unites as required by final plans.
- Install new ROW markers
- Complete seeding and landscaping activities.
- Complete final punch list and clean-up activities.
- Final acceptance by the Town of Payson.
- Ribbon cutting/opening ceremony.
- Place the new round-about into service.
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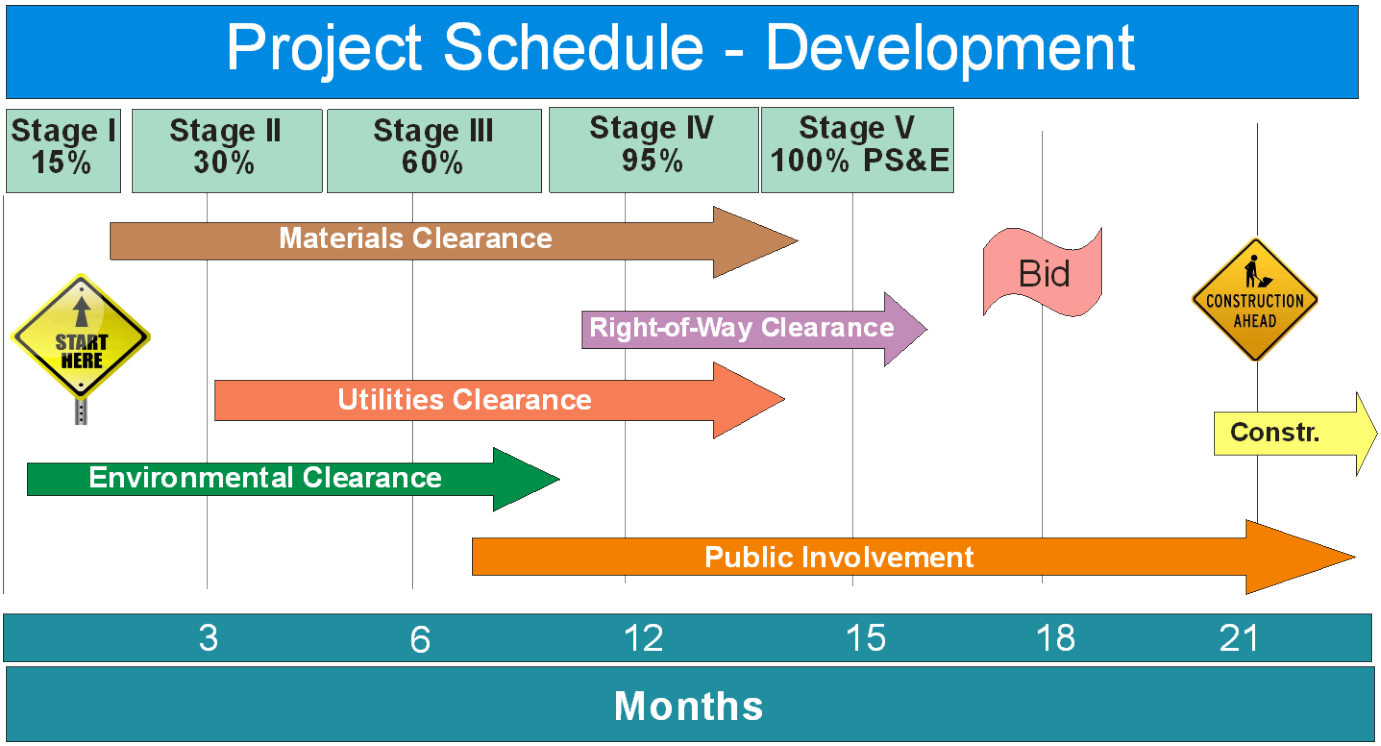
ATTACHMENT 4 – PROJECT SCHEDULE



Project Schedule Notes (for an average project):

1. Allow 3 months between each plan set (30%, 60%, 95%, and 100%)
2. Environmental Clearance is required prior to Final Design (typically 95% plans) for Single Step Federal Authorization projects, or at 30% design for Two Step Federal Authorization projects.
3. Right-of-Way (ROW) and Utility Clearances cannot be completed until after the Environmental Clearance is obtained.
4. Allow two months between the Bid Ready Date (BRD) and Bid Advertisement Date (BAD).
5. Additional time should be allotted for complex projects, projects with multiple alternatives, politically sensitive projects, ROW acquisition, Utility relocation,
6. All project schedules should be reviewed by all applicable ADOT Technical Groups and District Staff for accuracy.
7. Final Project Development Schedule will be developed by the designer at the start of the final design process.

ATTACHMENT 5 – ITEMIZED COST ESTIMATE

Arizona Department of Transportation

Town of Payson Round-about (Longhorn & McLane)

Estimated Engineering Construction Cost

Itemized Estimate

Project Number: TBD (Construct New Round-about)
Location: Intersection (Longhorn & McLane) Payson AZ
Version: PRE-SCOPING SUBMITTAL

Item No	Item Description	Unit	Quantity	Unit Price	Amount
2020021	REMOVAL OF CONCRETE CURB AND GUTTER	L.FT.	1329	$15.00	$19,935.00
2030900	BORROW (IN PLACE)	CU.YD.	160	$50.00	$8,000.00
2020025	REMOVAL OF CONCRETE SIDEWALKS, DRIVEWAYS AND SLABS	SQ.FT.	4380	$5.00	$21,900.00
2020029	REMOVAL OF ASPHALTIC CONCRETE PAVEMENT	SQ.YD.	3,942	$10.00	$39,420.00
3030022	AGGREGATE BASE, CLASS 2	CU.YD.	845	$65.00	$54,925.00
4040125	FOG COAT	TON	2	$1,500.00	$3,000.00
4040163	BLOTTER MATERIAL	TON	4	$250.00	$875.00
4090003	ASPHALTIC CONCRETE (MISCELLANEOUS STRUCTURAL)	TON	1,101	$150.00	$165,150.00
7360310	RECONSTRUCT ROADWAY LIGHTING	L.SUM	1	$3,500.00	$3,500.00
9080001	CONCRETE CURB (C-05.10) (TYPE A)	L.FT.	1,268	$30.00	$38,040.00
9080031	CONCRETE CURB (C-05.10) (TYPE G)	L.FT.	346	$30.00	$10,380.00
9080201	CONCRETE SIDEWALK (C-05.20)	SQ.FT.	3,750	$8.00	$30,000.00
9080101	CONCRETE CURB AND GUTTER, TYPE A (MAG DET. 220)	L.FT.	1,150	$20.00	$23,000.00
9080150	CONCRETE MEDIAN PAVEMENT	SQ.FT.	2,400	$10.00	$24,000.00
9080296	CONCRETE SIDEWALK RAMP (STD C-05.10, TYPE E)	EACH	8	$2,000.00	$16,000.00
9080297	CONCRETE SIDEWALK RAMP (STD C-05.10, TYPE A)	SQ.FT.	4	$1,000.00	$4,000.00
9080350	CONCRETE DRIVEWAY (MAG DET. 250)	SQ.FT.	730	$12.00	$8,760.00
9080511	SCUPPER (MAG DET. 203)	EACH	2	$2,400.00	$4,800.00
				ROADWAY SUBTOTAL	**$470,885.00**
	EROSION CONTROL AND POLLUTION PREVENTION (3%)	COST	3%		$14,126.55
	MOBILIZATION (10%)	COST	10%		$47,088.50
	TRAFFIC CONTROL (10%)	COST	10%		$47,088.50
	SIGNING & MARKING (5%)	COST	5%		$23,544.25
	LANDSCAPING (5%)	COST	5%		$23,544.25
	CONSTRUCTION SURVEY/LAYOUT (4%)	COST	4%		$18,835.40
	PUBLIC INVOLVEMENT (4%)	COST	4%		$18,835.40
				CONSTR. SUBTOTAL	**$663,947.85**
	CONSTRUCTION ENGINEERING AND CONTINGENCIES (30%)	COST	30%		$199,184.36
				SUBTOTAL	**$863,132.21**
	ICAP (10.39%)	COST	10.39%		$89,679.44
				SUBTOTAL	**$952,811.64**
				TOTAL CONSTRUCTION COST	**$952,811.64**
				Design Cost	$180,000.00
				R/W Cost	$20,000.00
				TOTAL PROJECT COST =	**$1,152,811.64**

94.3% Federal =	$1,087,101.38
5.7% Local Match =	$65,710.26
TOTAL =	**$1,152,811.64**

Project Budget Notes:

1. ADOT's Estimated Engineering Construction Cost E2C2 was used for unit cost determination.
2. Minor items that may have been omitted or are yet to be determined by final design are included in the Construction contingency.
3. This estimate is based on 2015 pricing. Quantities and unit prices may vary depending when the project is actually advertised. (Final quantities and unit prices will be determined during final design).

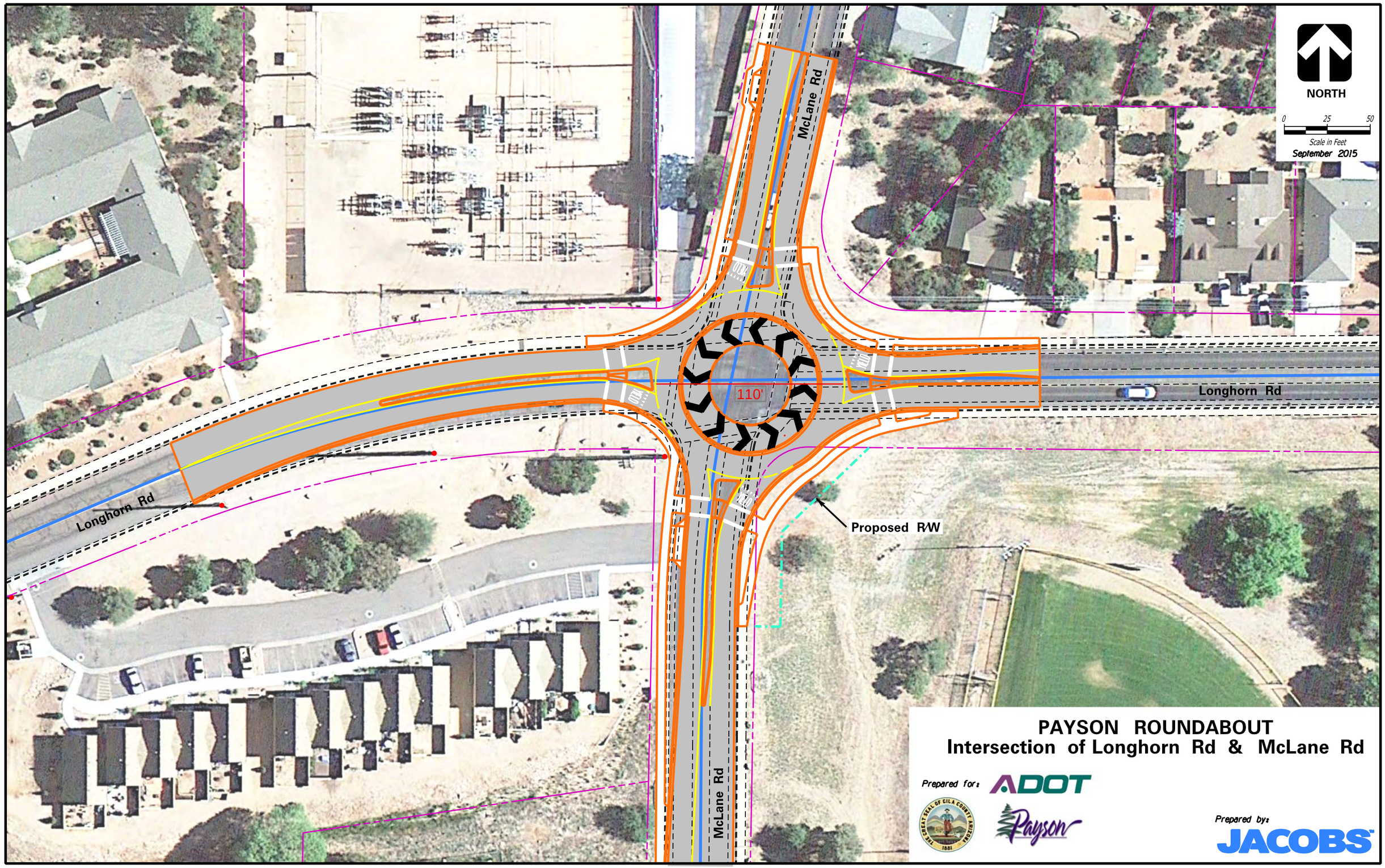
ATTACHMENT 5 – ITEMIZED COST ESTIMATE

Arizona Department of Transportation

Town of Payson Round-about (Longhorn & McLane)

Estimated Design Engineering/Development Cost

Item	Description	Est. Cost
Final Design	Preliminary and Final Engineering and Design	$95,000
ADOT PCMC	ADOT Design PMDR Review and Development Cost	$30,000
	Town of Payson Cost and Contingency	$25,000
Other Design	Environmental Document (Consultant)	$30,000
	Final Design Cost Estimate	**$180,000**
R/W	Right of Way Acquisition 0.10 Acre (Estimated)	**$20,000**



PAYSON ROUNDABOUT
Intersection of Longhorn Rd & McLane Rd

Prepared for: ADOT

Payson

Prepared by: JACOBS

PRE-SCOPING FIELD REVIEW REPORT
ROUNDABOUT (Longhorn & McLane) PAYSON

The purpose of Preliminary Scoping (Pre-Scoping) is to more accurately develop a project's Scope of Work (SOW), Schedule, and Itemized Cost Estimate prior to programming a project in a Transportation Improvement Program (TIP). This process will help to streamline project design by reducing upfront work, scope changes, project delays, and TIP Amendments.

The information gathered from the Pre-Scoping Field Review Report will be used to develop the project's SOW, Schedule, and Itemized Cost Estimate, which will be summarized in the Pre-Scoping Report.

Pre-Scoping Field Review Forms are to be completed by functional groups responsible for each area as needed (based on the project scope). Not all projects will require all Field Review Forms to be filled out.

Field Review Form	Name	Date Completed
Background Data	Rick Powers/Anthony Scolaro	
Local Government	Curtis Ward/LaRon Garrett/Sheila DeSchaaf	
Planning/PreDesign	Dan Gabiou, Jeff Davidson, Kevin Kozel	
Bridge – Design	N/A	
Bridge – Hydrology	N/A	
District – Constructability	Tom Goodman	
District – Maintenance	Randy Blake/Andy Roth	
Environmental	TBD	
Materials/Geotech	TBD	
Right-of-Way	Lou Malloque	
Roadway/Pavement	TBD	
Traffic	TBD	
APS	Scott Jones, Todd Wheeler	
FHWA	Kimberly Utley	
Payson High School	Brian Mabb, Greg Wyman, Brent Baily, Dale Barnes	
Utilities	Eric Stanford	

Project #: PAY 19-02D Name:New Roundabout Date:8/7/15
Project Limits: Longhorn/McLane

BACKGROUND DATA
(To be completed prior to KOM and Field Review)

ADOT Project Number	Begin Milepost / Cross Street	End Milepost / Cross Street	Length (miles)	As-Built Date	Description
TBD	Longhorn	McLane	0.5	1992 & 1995	Construct new roundabout

To 'check' boxes, double click and select 'checked' in the Default value box

ITEM	YES	NO	If Yes, Describe (or see below)	
Past Study Completed?	☐	☒	Findings:	
Project included in TIP?	☒	☐	Proposed Design FY: CAG 2019 ($200,424) Proposed Construction FY: CAG 2023 ($500,000)	
What's the AADT?			**Year**	**AADT** (Annual Average Daily Traffic)
			McLane (5/2013)	4523
			McLane (10/2014)	3825
			Longhorn (2008)	2767
			Longhorn (5/2013)	6060
Is crash data available?	☐	☒	If Yes, attach available crash data to this form	
Known Transit needs?	☐	☒	Unknown	
Known Freight needs?	☐	☒	N/A Local Street	
Known Railroad needs?	☐	☒	N/A	
Known Airport needs?	☐	☒	Not main access to airport	
Known Bike needs?	☒	☐	Near school, there are bike needs.	
Known Pedestrian / ADA needs?	☒	☐	Pedestrians use the sidewalks on a regular basis.	
Other needs?	☒	☐	Private property/High School/APS substation	

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

~~BRIDGE DESIGN FIELD REVIEW FORM~~

BRIDGE NO._____

To 'check' boxes, double click and select 'checked' in the Default value box

ITEM	ITEM NEEDED			NOTES (Quantity/Cost estimate and other comments)
	YES	NO	MAYBE	
Replace Bridge[b]	☐	☐	☐	**This Form Not Applicable for this project.**
Span Bridge	☐	☐	☐	
Box Culvert	☐	☐	☐	
Unique Structure	☐	☐	☐	
Replace Bridge Deck	☐	☐	☐	
Widen	☐	☐	☐	
Rail/Sidewalk Barrier	☐	☐	☐	
Corrosion Protection	☐	☐	☐	
Structural Repairs	☐	☐	☐	
Deck	☐	☐	☐	
Superstructure	☐	☐	☐	
Substructure	☐	☐	☐	
Concrete Wearing Course	☐	☐	☐	
Expansion Joints	☐	☐	☐	
Approach Panels	☐	☐	☐	
Erosion/Scour Protection	☐	☐	☐	
Painting	☐	☐	☐	
Over Water?	☐	☐		
Utility accommodation	☐	☐	☐	
Need Asbestos Assessed?	☐	☐	☐	
Removals	☐	☐	☐	
Br Inventory Sheet indicates that Accelerated Bridge Construction (ABC) should be considered?	☐ Yes ☐ No			If yes, Project Manager should complete Stage 2 ABC selection process.
Other[a]	☐	☐	☐	
Other[a]	☐	☐	☐	
Concur by C.O. Bridge	☐ Yes	☐ No	Date:	

([a] these items and any other out-of-the ordinary major quantity item needs a quantity and cost estimate) ([b] include bridge materials)

Note: For bridge projects, the District Bridge Engineer should forward this Scoping Worksheet to CO Regional Bridge Engineer for their comments.

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

~~BRIDGE HYDRAULICS FIELD REVIEW FORM~~

To 'check' in the check boxes, double click and click on 'checked' in the Default value box

ITEM	ITEM NEEDED			Struc. # If any	RP	NOTES (or see below) (Quantity/Cost estimate and other comments)
	YES	NO	MAYBE			
Mainline Culverts ☐ Repair ☐ Line ☐ Replace ☐ Extend	☐	☐	☐			**This Form Not Applicable for this project.**
Sideline Culverts ☐ Replace ☐ Extend	☐	☐	☐			
Tile	☐	☐	☐			
Storm Sewer	☐	☐	☐			
Erosion Repairs	☐	☐	☐			
Waterway analysis	☐	☐	☐			
Risk Assessment	☐	☐	☐			
Ditch Hearing	☐	☐	☐			
Special Structures	☐	☐	☐			
Weirs	☐	☐	☐			
Vortex	☐	☐	☐			
Fish Passage	☐	☐	☐			
Ponds	☐	☐	☐			
	☐	☐	☐			

Note: any out-of-the ordinary major quantity item needs a quantity and cost estimate

For projects that require waterway analysis, risk assessment or scour evaluation, the district hydraulics engineer should forward this scoping worksheet to Bridge Hydraulics for their comments.

Comments and Risk Identification:

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

DISTRICT - CONSTRUCTION FIELD REVIEW FORM

To 'check' boxes, double click and select 'checked' in the Default value box

ITEM	ITEM NEEDED			NOTES (or see below) (Quantity/Cost estimate and other comments)
	YES	NO	MAYBE	
Detour[a]	☐	☐	☒	Maybe for short periods of time
Temporary Construction[a]	☐	☒	☐	Build final roundabout
Staging[a]	☐	☐	☒	Not anticipated at this time
Stockpiling	☐	☐	☒	Not anticipated
Innovative Contracting	☐	☒	☐	Not anticipated
Other	☐	☐	☐	

([a] these items and any other out-of-the ordinary major quantity item needs a quantity and cost estimate)

Comments and Risk Identification:

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

DISTRICT – MAINTENANCE/Town of Payson FIELD REVIEW FORM

To 'check' boxes, double click and select 'checked' in the Default value box

ITEM	ITEM NEEDED			NOTES (or see below) (Location, Quantity/Cost estimate and other comments)
	YES	NO	MAYBE	
Striping	☒	☐	☐	
Signing	☒	☐	☐	
Lighting	☐	☐	☒	
Curb & Gutter	☒	☐	☐	
Low gravel shoulder correction	☐	☒	☐	
Guard Rail Repair	☐	☒	☐	
Fencing	☐	☒	☐	
Noisewall	☐	☒	☐	
Drainage Repair	☐	☐	☒	Minor regarding – maintain current drainage flows
Erosion Area Correction	☐	☒	☐	
Flooding Area Correction	☐	☒	☐	
Snow Trap, Storage, Icing Correction	☐	☒	☐	
RWIS	☐	☒	☐	
Anti-Icing System	☐	☒	☐	
Frost Heave Correction	☐	☒	☐	
Rest Area Work	☐	☒	☐	
Landscaping	☒	☐	☐	Will need seeding at a minimum
Millings needed	☐	☐	☒	Maybe for base material if available
Other salvage items	☐	☒	☐	
	☐	☐	☐	

any out-of-the ordinary major quantity item needs a quantity and cost estimate

Comments and Risk Identification:

Town of Payson Comments: Please increase roundabout diameter 10' to 110'. Please retain fire lane access to mini storage.
Consider shortening center divider medians and curb and sidewalk improvements, the speed limit is only 25mph, the less expensive this project is the easier it will be to initiate. Consider if the inner concrete chevron circle is necessary in this application. 2019 design $189k, 2023 construction $424k, 2024 construction $124k and we will propose $262k construction 2025. Is there an efficient method to make the construction funds available in a single year? Can a left out of condominiums be considered?

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

ENVIRONMENTAL FIELD REVIEW FORM

To 'check' boxes, double click and select 'checked' in the Default value box

ITEM	YES	NO	MAYBE	Comments	Schedule Impacts	Budget Impacts
4(f) / 6(f) sites	☐	☐	☒	Sidewalk near ball field—*de minimis*	Section 4(f) determination	
Extensive Cultural/Historical Work	☐	☒	☐	Minimal ground disturbance		
Title VI/Environmental Justice Populations	☐	☒	☐	Verified online		
Noise Concerns	☐	☒	☐	No increase in traffic		
Jurisdictional Waters or Wetlands	☐	☒	☐	No waters affected		
Floodplain	☐	☒	☐	Verified online		
State/Federal T&E Species	☐	☒	☐	No vegetation removal		
Hazmat or Contaminated site	☐	☐	☒	UST release at school; closed; tanks removed		
Prime or Unique Farmland	☐	☒	☐	Verified online		
Air Quality Nonattainment or Maintenance Area	☒	☐	☐	PM_{10} Maintenance	None	None
Noxious or Invasive Species	☐	☒	☐	No vegetation removal		
Visual Quality Concerns	☐	☒	☐	No change in visual		
Public Involvement Required	☐	☒	☐	No impacts expected		
Significant Environmental Impacts	☐	☒	☐	None		
Avoidance Areas	☐	☒	☐	None		
Other	☒	☐	☐	School Yard on Forest Service Land	Land exchange pending on impact	None

Anticipated NEPA Clearance Type	Categorical Exclusion (CE) ☒	Environmental Assessment (EA) ☐	Environmental Impact Statement (EIS) ☐

Anticipated Permits Needed	Section 404 Permit: Nationwide Permit ☐ Individual Permit ☐	Individual Section 401 Certification ☐	Section 402 Permit: AZPDES ☐ NPDES ☐

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

MATERIALS/ GEOTECH FIELD REVIEW FORM

To 'check' in the check boxes, double click and click on 'checked' in the Default value box

ITEM		ITEM NEEDED			Approx. RP		NOTES (or see below) (Quantity/Cost estimate and other comments)
		YES	NO	MAYBE	From	To	
Bituminous	Paving	☒	☐	☐			*As builts show Longhorn and McLane vary from 32-40'*
	Reclamation	☒	☐	☐			Existing AC will need to be removed.
	Pavement Milling	☐	☐	☒			May remove by milling of excavation.
	Millings re-use	☐	☐	☒			
		☐	☐	☐			
Concrete	Paving	☐	☒	☐			
	Joint Repairs	☐	☒	☐			
	Dowel Bars	☐	☒	☐			
	Planing	☐	☒	☐			
	Major CPR	☐	☒	☐			
	Minor CPR	☐	☒	☐			
		☐	☐	☐			
Sub-surface	Base Repairs	☐	☐	☒			
	Grading	☒	☐	☐			
	Muck, groundwater, rock	☐	☒	☐			
Shl-der	Shoulder Work	☐	☒	☐			*Sidewalks to be maintatined*
	Sidewalk/C & G	☐	☐	☐			
Edge Drains	Edge Drain Video Insp	☐	☐	☐			
	Edge Drain Flushing	☐	☐	☐			
	New Edge Drains	☐	☐	☐			
Are borings needed?		☒	☐	☐			Yes for final design
If yes, will a Geotech environmental clearance be required prior to the project clearance?		☒	☐	☐			

Comments and Risk Identification:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

RIGHT-OF-WAY FIELD REVIEW FORM

To 'check' boxes, double click and select 'checked' in the Default value box

Route	Existing ROW Width	Owner	Comments
	Varies		

List all adjacent land owners within the project limits	**Payson USD, APS, Mini Storage and private property**

ITEM	YES	NO	MAYBE	Comments / Location / Parcel #	Schedule Impacts	Budget Impacts
Potential Full-Parcel ROW Take	☐	☒	☐			
Potential Partial-Parcel ROW Take	☒	☐	☐	Partial take in SE quadrant		
Access Issues	☐	☐	☒			
Temporary Construction Easement (TCE) required	☐	☐	☒			
Plats needed	☐	☒	☐			
Other	☐	☒	☐			

Comments and Risk Identification:

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

ROADWAY/PAVEMENT FIELD REVIEW FORM

To 'check' boxes, double click and select 'checked' in the Default value box

ITEM	ITEM NEEDED			NOTES (or see below) (Location, Quantity/Cost estimate and other comments)
	YES	NO	MAYBE	
Design Exception	☐	☒	☐	No design exception anticipated.
CSS Design Flexibility	☒	☐	☐	CSS concepts will be developed during final design.
Hor. Curve Correction	☒	☐	☐	Slight horizontal adjustment needed for fit roundabout within site.
Vert. Curve Correction	☐	☒	☐	Maintain current grade only minor adjustments.
Crown Correction	☒	☐	☐	Only adjust within the roundabout.
Super Correction	☒	☐	☐	Only adjust within the roundabout.
Side Slope Correction	☐	☐	☒	Review during final design
Shlder slope correction	☐	☒	☐	Not anticipated.
Flatten Entrance Slopes	☐	☒	☐	
Sight-line Obstr. Correction	☐	☒	☐	
Guardrail	☐	☒	☐	
Curb & Gutter	☒	☐	☐	Curb and gutter will be designed to match existing outside of roundabout.
Ped. Ramps/Accomodation	☒	☐	☐	Will be designed to ADOT standard
Retaining Walls	☐	☒	☐	No retaining walls anticipated.
Municipal Agreements	☐	☐	☒	TCE or ROW
RR Agreements	☐	☒	☐	
Utilities Relocation	☐	☐	☒	Try to avoid major utility relocation.
69kV lines Steel Poles	☐	☐	☒	Check during field review
	☐	☐	☐	

Note: any out-of-the ordinary major quantity item needs a quantity and cost estimate

Comments and Risk Identification:

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

TRAFFIC SCOPING WORKSHEET

To 'check' in the check boxes, double click and click on 'checked' in the Default value box

ITEM	ITEM NEEDED			NOTES (or see below) (Location, Quantity/Cost estimate and other comments)
	YES	NO	MAYBE	
Horizontal Curve Correct	☒	☐	☐	Slight horizontal adjustment needed for fit roundabout within site.
Vertical Curve Correct	☐	☒	☐	Maintain current grade only minor adjustments.
Super Correction	☒	☐	☐	Only adjust within the roundabout.
Rumble Strips - Shoulder	☐	☒	☐	
Rumble Strips - Centerline	☐	☒	☐	
Guard Rail[a]	☐	☒	☐	
Striping	☒	☐	☐	
Median Barrier	☐	☒	☐	
Signing	☒	☐	☐	
Lighting	☒	☐	☐	Yes to current design standards.
Turn Lanes	☐	☒	☐	Space requirements will not allow for turn lanes.
Intersection Revision[a]	☐	☒	☐	
Traffic Signals	☐	☒	☐	
RR Crossing Work[a]	☐	☒	☐	
Path/Trail Crossing Work	☒	☐	☐	SW crossings will be provided in accordance with design standards.
Access Changes[a]	☒	☐	☐	Access to Storage units, Access to Apartments, (Concurred by FHWA)
Significant project under FHWA Final Rule for Safety and Mobility in Work Zones?	☐ Yes ☒ No			
Proposed Traffic Control	Construct round-about			
Road Safety Review	Any special concerns: Pedestrians, recommend a separate RSA for school pedestrian movements/recommendations			

([a] these items and any other out-of-the ordinary major quantity item needs a quantity and cost estimate)

Comments and Risk Identification:

The intersection exhibits operational challenges during peak traffic periods.

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

UTILITIES FIELD REVIEW FORM

Company	Utility	Phone Number
APS	Electric Service	(928) 474-2204
Town of Payson	Water	(928) 474-5242
Northern Gila County Sanitation District	Sanitary Sewer	(928) 474-5257
Gas Company	Propane Gas	

***Additional information to be included based on coordination with ADOT Utilities section.**

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15
Project Limits: Longhorn/McLane

UTILITIES
FIELD REVIEW FORM

(1) Info Source	(2) FACILITY OWNER (Company / Agency)	(3) FACILITY TYPE	(4) LOCATION	(5) Impact	(6) ROW /TCE	(7) REMARKS/ REASON FOR CONFLICT
B,C	APS	OH Power - Electric	Power poles – self-supporting high strength for 231 kV at NW and SW cor. Power Substation NW of Intersection.	N	N	No conflicts with pre-scoping roundabout footprint. Any adjustment to geometry should be to east.
B	CenturyLink	OH & UG Telephone	Pull boxes & risers located at SW corner appear to belong to CenturyLink, may also be some cable.	N	N	No conflict to OH telephone on APS poles. Probably no conflict to UG if no grade adjustments.
B,C	NPG Cable	OH & UG (?) Cable	May be on APS poles also.	N	N	No conflict to OH telephone on APS poles. Probably no conflict to UG if no grade adjustments.
C	Alliant Gas - Propane	UG gas line	May be UG gas line. Needs further investigation to assess.	?	N	Alliant provides propane to the Payson community. Town of Payson permits and Alliant should be contacted for further information.
C	SW Gas	Natural Gas	SW Gas is permitted by ADOT in SR 87 & SR 260. May also be located in Town of Payson.	?	N	Contact Town of Payson and SW Gas for gas line location in this intersection.
B.C	Town of Payson	Water, Sewer, Effluent	Town of Payson has UG water, sewer, effluent located in the intersection.	N	N	May not be in conflict if no grade adjustment is required for the roundabout.
GENERAL NOTE: For future design work, ADOT Utility & Rail Road utility coordination policies and procedures, and ,Part B – Dictionary of Standardized Work Tasks will apply.						

1) **Use A – Permit Log, B – Field Observation, C – Utility/Other**
2) **Note: this does not include drainage features located underground**
3) **Type and Size of facility**
4) **Use Milepost or Stationing. Last resort describe**
5) **Y – Likely to impact facility with project N – Not likely to impact facility**
6) **Y – If relocation, likely to need TCE or ROW N- No**
7) **Pertinent Information include potential relocation cost, schedule impacts, etc.**

RETURN FORM TO PROJECT MANAGER BY:

Project #: PAY 19-02D Name:Construct new Roundabout Date: 8/7/15

Project Limits: Longhorn/McLane

FHWA comment (Kimberly Utley) 8/17/15:
If possible, suggest moving secondary access here, to allow for better maneuvering in and out of the storage property. I believe this would also eliminate the Right-in/Right-out only since it would be beyond the proposed median. It also moves it further away from the roundabout.

RETURN FORM TO PROJECT MANAGER BY:

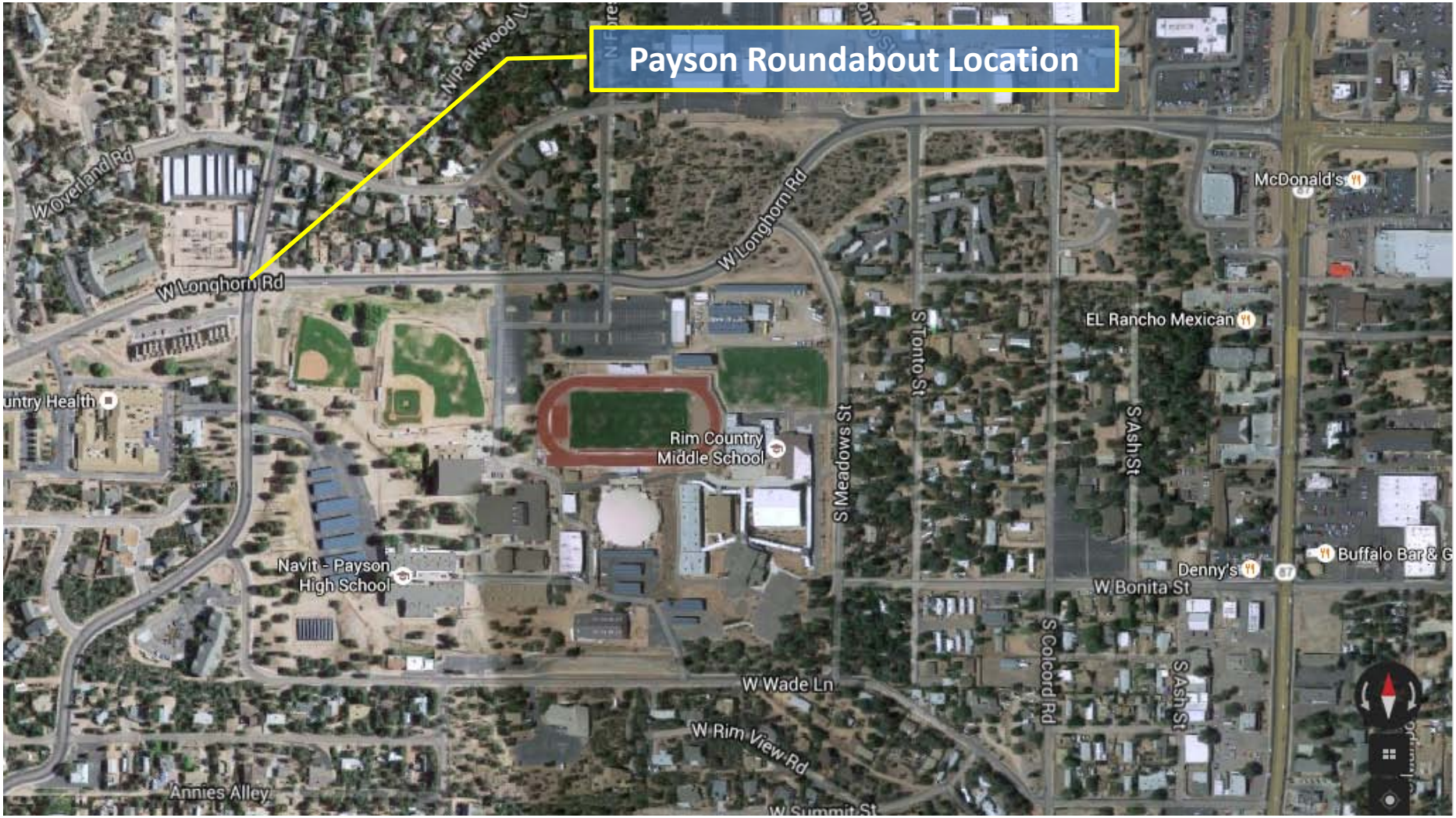
Accidents

McLane/Longhorn

address	Incident Entered Date	Incident ORI	Incident Type
S MCLANE RD W LONGHORN RD	01/22/2007 09:03:55	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	09/21/2007 09:09:05	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	11/17/2007 11:21:57	AZ0040600	Accident
S MCLANE RD W LONGHORN RD	02/26/2008 07:52:55	AZ0040600	Accident
S MCLANE RD W LONGHORN RD	07/31/2008 19:10:08	AZ0040600	Accident
800 W LONGHORN RD	11/01/2008 15:44:55	AZ0040600	Accident
806 W LONGHORN RD	03/02/2009 17:03:59	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	03/03/2009 12:55:10	AZ0040600	Accident
S MCLANE RD W LONGHORN RD	09/21/2009 13:18:32	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	05/19/2010 16:07:57	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	05/28/2010 14:08:56	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	12/31/2010 06:05:27	AZ0040600	Accident
100 N MCLANE RD	01/20/2011 16:48:43	AZ0040600	Accident
100 N MCLANE RD	04/03/2012 15:07:31	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	08/30/2012 08:59:13	AZ0040600	Accident
805 W LONGHORN RD	10/31/2012 15:56:15	AZ0040600	Accident
W LONGHORN RD S MCLANE RD	02/12/2013 07:38:37	AZ0040600	Accident
S MCLANE RD W LONGHORN RD	04/20/2009 18:31:49	AZ0040600	Accident, Hit & Run
S MCLANE RD W LONGHORN RD	12/16/2010 08:48:11	AZ0040600	Accident, Hit & Run
801 W LONGHORN RD	04/24/2009 15:40:38	AZ0040600	Accident, Injuries
W LONGHORN RD S MCLANE RD	11/16/2009 17:54:59	AZ0040600	Accident, Injuries
W LONGHORN RD S MCLANE RD	07/21/2010 10:43:46	AZ0040600	Accident, Injuries
W LONGHORN RD S MCLANE RD	05/09/2011 15:08:50	AZ0040600	Accident, Injuries
			: 23

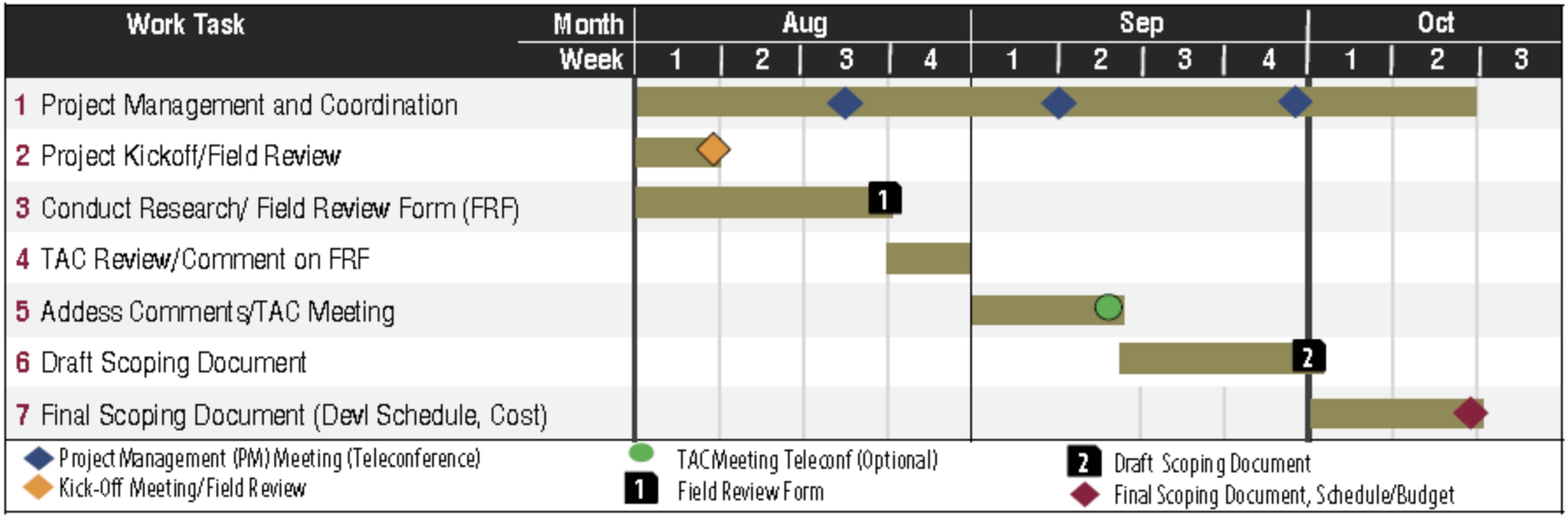
8/22/2013 2:21:07 PM

Project Overview



Project Schedule

Town of Payson Roundabout (Longhorn & McLane) - PreScoping Schedule.



W Longhorn (Looking west)

New ROW

S McLain (Looking north)

Relocate fire hydrant

New ROW

Avoid power pole and power lines

Relocate Light pole and electrical

N McLain (Looking south)

- Power Poles and overhead lines
- Sewer line and manhole in intersection
- Wastewater reuse line underground

W Longhorn (Looking east)

Address drainage

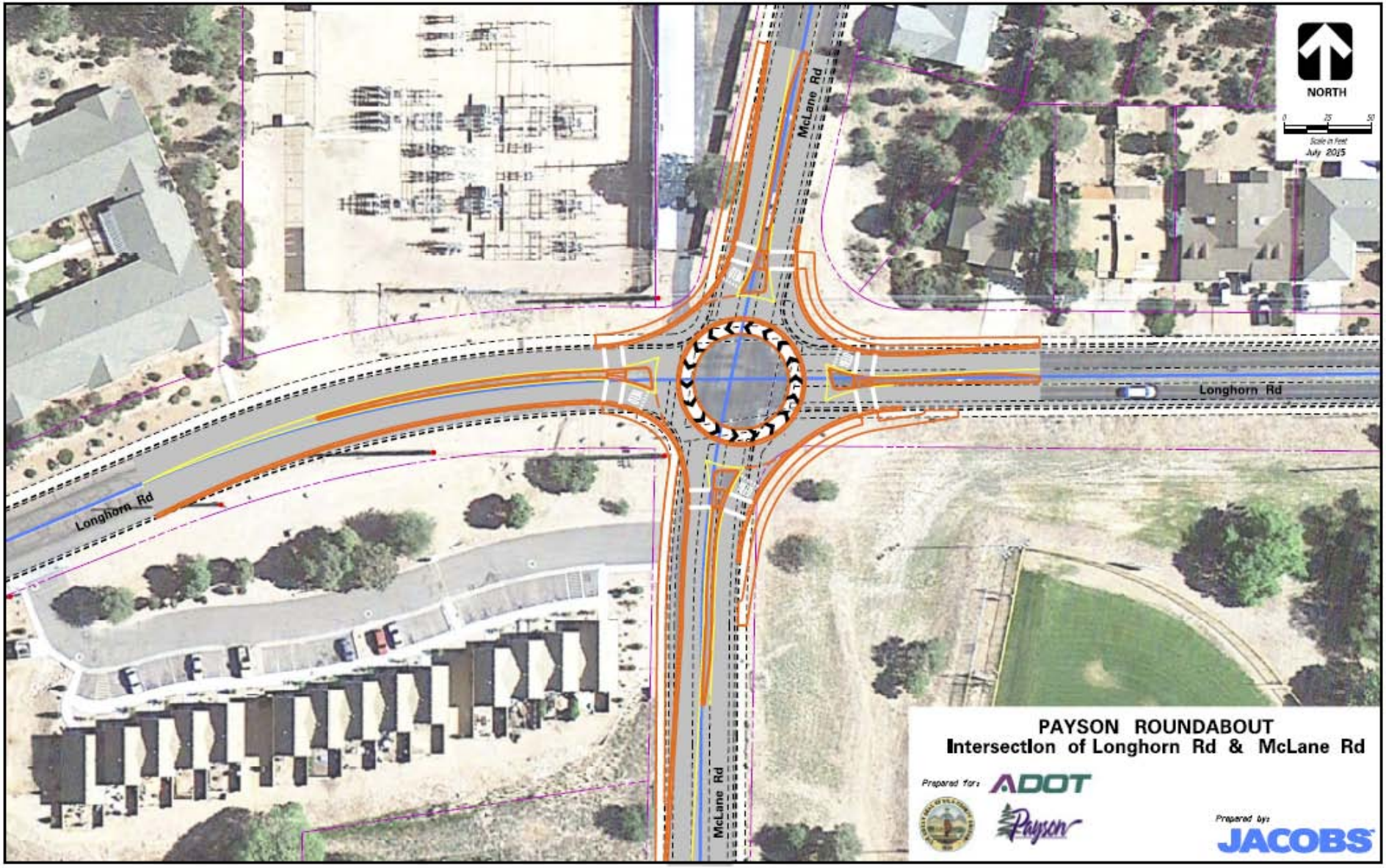
Power line clearance during construction

23 crashes

Intersection

4 resulted in injury
2 hit and run
17 Property damage only

	AADT	Peak	Avg Speed
Longhorn	6060	15:45 – 16:00	29 mph
McLane	4523	8:00 – 8:15	27 mph



Recommended Roundabout Alignment

Name	Agency	Email	Phone
Dan Gabiou	ADOT	dgabiou@azdot.gov	602-712-7025
Kevin Kozel	ADOT Prediesign	KJKozel@azdot.gov	602-712-772
Jeff Pawlson	ADOT SPM	jdawlson@azdot.gov	602.712.85
Eric Stanford	ADOT URP	estanford@azdot.gov	602-712-
Greg Wyman	PUSD	greg.wyman@pusd.com	480-472-5753
Brent Bailey	PUSD	brent.bailey@pusd.com	602-309-4025
Amy Lin	ADOT	alin@azdot.gov	602-712-7411
Joselyn Valero	ADOT	jvalero@azdot.gov	602-712-8034
Anthony Scolaro	Jacobs	anthony.scolaro@jacobs.com	602 530-1691
Todd Wheeler	APS	Jeffrey.wheeler@aps.com	928-474-7633
Andy Smith	CAG	asmith@cagaz.org	
Curtis Ward	Town of Payson	cward@paysonaz.gov	928978-3514
Dale Barnes	PUSD	DALE.BARNES@PUSD.com	928358247
LaRon Garrett	T.O.P.	lgarrett@paysonaz.gov	928-474-5242
Rick Powers	Jacobs	rick.powers@jacobs.com	
Andrew A Roth, Jr.	ADOT	aroth@azdot.gov	(928) 777-5869
Sheila DeSchaaf	T.O.P.	sdeschaaf@paysonaz.gov	928.474-5242 x354

8/07/2015 KOM & Field Review Notes