JEROME MARKING, PARKING, AND SIGNAGE MODIFICATIONS

NORTHERN ARIZONA UNIVERSITY

K.A.S.T. ENGINEERING

2016

K.A.S.T. ENGINEERING TEAM

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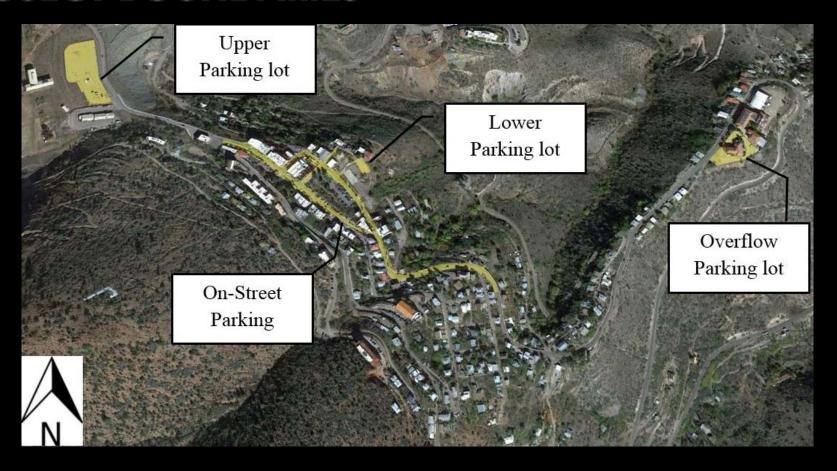
From left: Saud, Bethany, Cristian, & Hashim [Photo taken by Ron Chilston]

PROJECT BACKGROUND

- LOCATION: JEROME, AZ
- Existing Conditions:
 - FADED STRIPING & PAVEMENT MARKINGS
 - MINIMAL DIRECTIONAL SIGNAGE
 - DAMAGED PARKING LOT
 - UNDEFINED ON-STREET PARKING



PROJECT BOUNDARIES



PROJECT PURPOSE

- OPTIMIZE PARKING CONDITIONS IN JEROME
 - RE-DESIGN EXISTING PARKING LOT AND ON-STREET PARKING STRIPING
 - IMPLEMENT SIGNAGE
 - IMPROVE PAVEMENT MARKINGS
- ENHANCE TRAFFIC FLOW
- ENHANCE PARKING CAPACITY



POTENTIAL CHALLENGES

- ACCESS
 - SITE VISITS, DATA COLLECTION, & MEETINGS
- TOPOGRAPHY
 - SLOPE STABILITY
- HISTORICAL ASPECTS OF CITY
 - ENSURING DESIGN DOES NOT INTERFERE WITH THE HISTORICAL LANDSCAPE



STAKEHOLDERS

- CLIENT: ALBERT SENGSTOCK
- TECHNICAL ADVISOR: DR. EDWARD SMAGLIK
- Town of Jerome
 - GOVERNMENT
 - LOCAL RESIDENTS, BUSINESSES, AND TOURISTS
 - JEROME FIRE DEPARTMENT
 - JEROME POLICE DEPARTMENT
- ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT)





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PROJECT SCOPE

- TASKS 1.0 FIELD EVALUATION
 - 1.1 Parking
 - 1.2 SIGNAGE
 - 1.3 STRIPING & PAVEMENT MARKINGS

- TASK 2.0 SURVEYING
 - 2.1 PARKING AREA
 - 2.2 SIGNAGE
 - 2.3 STRIPING
 - 2.4 DATA UPLOAD& ANALYSIS

- TASK 3.0 PARKING USE SURVEY/STUDY
 - 3.1 DATA UPLOAD& ANALYSIS

PROJECT SCOPE

- TASK 4.0 DESIGN
 - 4.1 Existing Conditions
 - 4.2 PARKING
 - 4.3 SIGNAGE,
 STRIPING, &
 MARKING
 - 4.4 STANDARDS& CODES

TASK 5.0 PROJECT MANAGEMENT

- 5.1 50%Submittal
- 5.2 Final Design Report
- 5.3 Final Presentation
- 5.4 Website

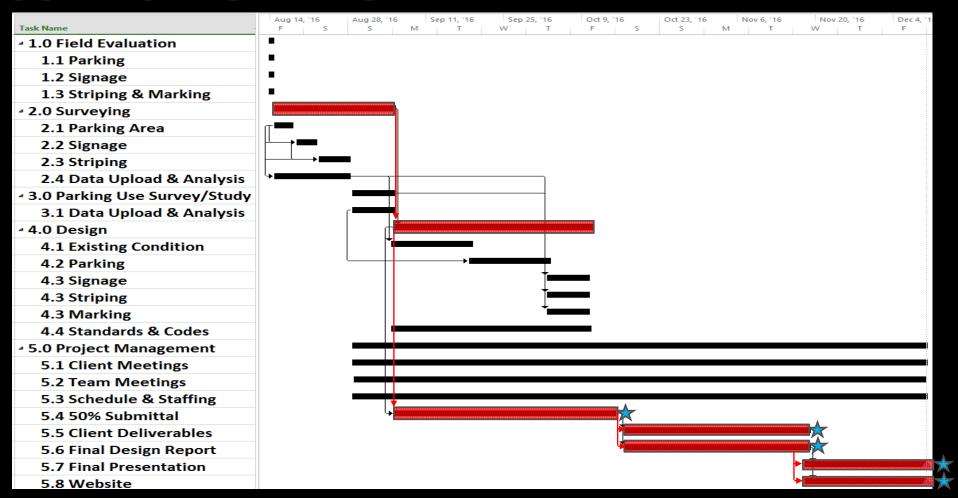
- 5.5 Client Meetings
- 5.6 Team Meetings
- 5.7 Schedule & Staffing management
- 5.8 Client
 Deliverables

EXCLUSIONS

- GEOTECHNICAL TESTING
- PARKING LOT PAVEMENT DESIGN
- VERTICAL CLEARANCE FOR VEHICLES
- APPROVED PLANS & PERMITS
- STRUCTURAL SUPPORT
- RESIDENTIAL STREET PARKING/STRIPING
- ALL INCLUSIVE SURVEY



SCHEDULE-GANTT CHART



STAFFING & COST

- STAFFING PLAN
 - SENIOR ENGINEER (SENG)
 - ENGINEER (ENG)
 - ENGINEER IN TRAINING (EIT)
 - INTERN (INT)
 - ADMINISTRATIVE ASSISTANT (AA)

Table 1: Hourly Breakdown of Tasks for SENG, ENG, EIT, INT, & AA

	SENG	ENG	E.I.T.	INT	AA
Task	Hours	Hours	Hours	Hours	Hours
1.0 Field Evaluation	12	12	12	12	-
2.0 Surveying	-	8	44	119	-
3.0 Parking Use					
Survey/Study	-	8	36	42	-
4.0 Design	-	70	152	-	-
5.0 Project					
Management	59	47	74	5	11
Sum of Hours By					
Position	71	145	318	178	11
Total Hours	723				

STAFFING & COST

Table 2: Cost of Engineering Services

			Rate,	
1.0 Personnel	Classification	Hours	\$/Hr	Cost
	SENG	71	\$200	\$14,200
	ENG	145	\$75	\$10,875
	E.I.T.	318	\$50	\$15,900
	INT	178	\$20	\$3,560
	AA	11	\$55	\$605
	Total Personnel			\$45,140
	14 site visits @ 152			
2.0 Travel	miles/visit	\$0.54/mile	\$82/visit	\$1,149
3.0 Total				\$46,289

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QUESTIONS?

