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# Findlay Toyota OHV Park

December 9th, 2016  
CENE 476

Presented By the 4Runners:  
Miranda Aakre  
Abdulmalik Alajlan  
William Gil  
Trandon Struck

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In Partnership With:



# Project Background



5130 N. Test Dr  
Flagstaff, AZ



—Location

—Purpose

- Attract Clients
- Demonstrate Toyota off-road vehicle capabilities
- Make Findlay Toyota stand out from other dealerships in Flagstaff, AZ

The Findlay Toyota OHV Park will be the first of its kind in Flagstaff, AZ

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# Stakeholders

- Findlay Toyota
- Flagstaff Auto Park
- NAU Department of CECMEE
- Capstone Team
- Findlay Toyota Clients



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# Design Considerations

- Budget
- Durability
- Year-Round Usability
- Feature Versatility
- Aesthetics



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# Scope of Services

- Task 1.0 Site Analysis
- Task 2.0 Code Review
- Task 3.0 Geotechnical Analysis
- Task 4.0 Drainage Analysis
- Task 5.0 Project Site Design
- Task 6.0 Track Features Design
- Task 7.0 Deliverables & Project Management



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# Exclusions

1. Utility Plan
2. Traffic Impact Analysis
3. Building/Facilities Plan
4. Park Maintenance Plan
5. Landscaping



# Scheduling

Task Name	Duration	Start	Finish	Team Lead	2016				2017					
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
1.0 Site Analysis	120 days	9/1/2016	12/30/2016	Malik	Site Analysis									
2.0 Code Review	11 days	1/23/2017	2/20/2017	Trandon					Code Review					
3.0 Geotechnical Testing/Analysis	19 days	1/16/2017	2/3/2017	Miranda					Geotechnical Testing/Analysis					
4.0 Drainage Analysis	32 days	1/20/2017	2/20/2017	William					Drainage Analysis					
5.0 Project Site Design	113 days	11/14/2016	3/6/2017	Miranda	Project Site Design									
6.0 Park Feature Design	46 days	1/20/2017	3/6/2017	Trandon					Park Feature Design					
7.0 Deliverables & Project Management	254 days	9/1/2016	5/12/2016	William	Deliverables/PM									

# Staffing

Classification	Code
Senior Engineer	SENG
Engineer	ENG
Engineering Intern	INT
Project Manager	PM

Task	SENG Hours	ENG Hours	INT Hours	PM Hours	Total
1.0 Site Analysis	8	8	20	5	41
2.0 Code Review	20	10	10	4	44
3.0 Geotechnical Testing & Analysis	8	20	20	6	54
4.0 Drainage Analysis	10	20	20	6	56
5.0 Project Site Design	40	80	80	30	230
6.0 Park Feature Design	40	70	70	30	210
7.0 Deliverables & Project Management	20	20	20	40	100
<b>Total</b>	<b>146</b>	<b>228</b>	<b>240</b>	<b>121</b>	<b>735</b>



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# Project Cost

Item	Classification	Hours	Rate (\$/Hr)	Cost
<b>1.0 Personnel</b>	SENG	146	167	\$24,382
	ENG	228	106	\$24,168
	INT	240	51	\$12,240
	PM	121	83	\$10,043
	Total			\$70,833
<b>2.0 Equipment</b>	Rental/Lab	10	100	\$1,000
<b>3.0 TOTAL</b>				<b>\$71,833</b>

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**End**