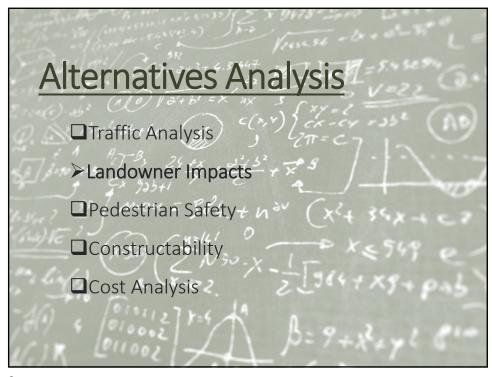
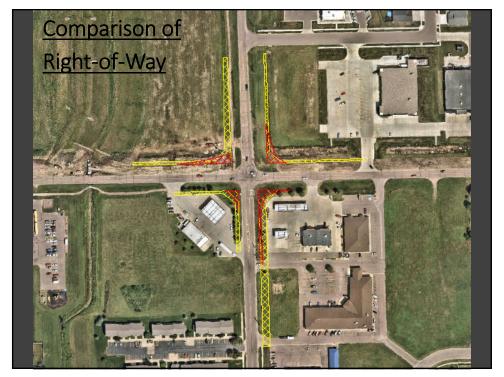


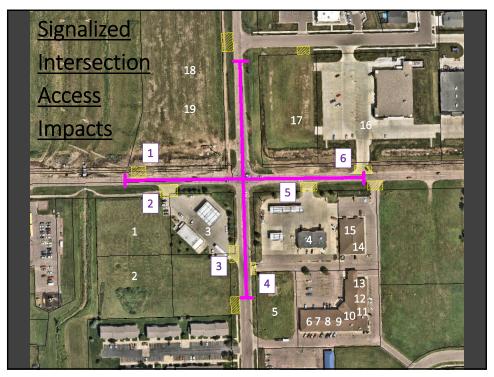
Alternatives Analysis

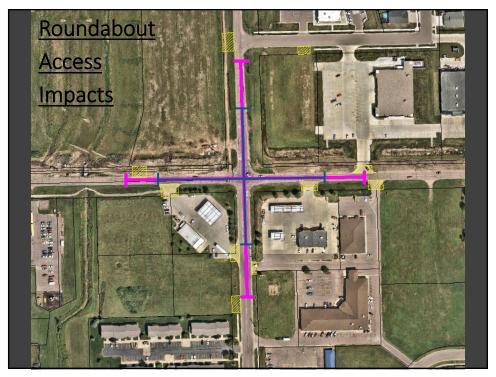
Traffic Analysis	Signalized Intersection	Roundabout
Intersection Type Applicable to Location	Yes	Yes
Traffic Pattern Applicable	Yes	Yes
Impacts to Adjacent Intersections	Minimal	Minimal
Integrates with Surrounding Future Traffic Improvements	Yes	Yes
Traffic Capacity	15,000 Veh/day	15,000 Veh/day
Traffic Capacity Life Span	20 to 25 Years	20 to 25 Years
Traffic Conflict Points	More than 150	16
Angle Crash Points	More than 100	0
School Proximity Applicable	Yes	Yes
Truck Navigable	Yes	Yes
U-Turn Available for Vehicles	Some	Yes
Average Delays in Peak Times (Opening Day)	10 Seconds	10 Seconds
Average Delays in Peak Times (2040)	35 Seconds	25 Seconds
Delays in Off Peak Times (2040)	Up to 35 Seconds	Less than 10 Second
Landscaping/Aesthetic Opportunities	No	Yes
Inline with Harrisburg's 'Low Impact' Goals	No	Yes

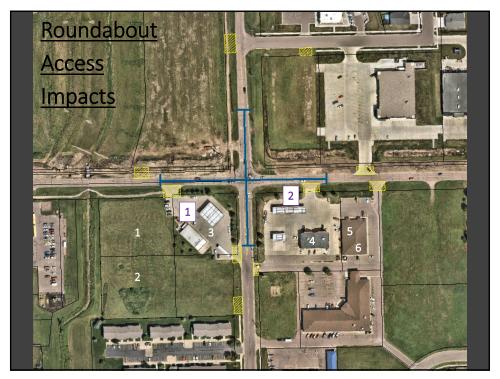
* Data is based on 30% design and is subject to adjustment in the design process.

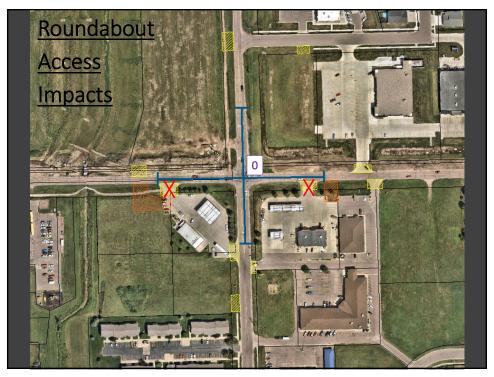


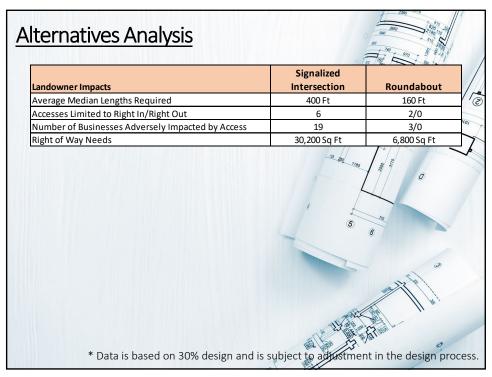








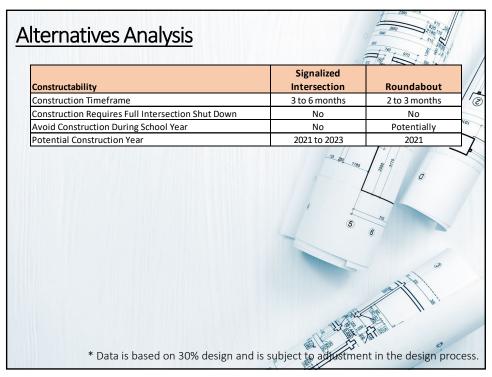


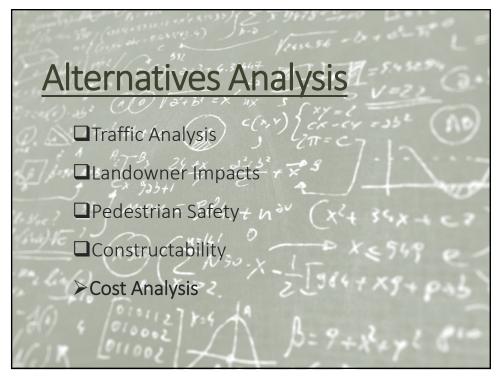


Alternatives Analysis
☐ Traffic Analysis
□ Landowner Impacts + 🛒
>Pedestrian Safety + ν → (χ²+ 34)
☐ Constructability
☐Cost Analysis
B=9+x+42 81-

Pedestrian & Bicycle Safety	Signalized Intersection	Roundabout
Average Crossing Total Leg Length	97 Ft	44 Ft
Lanes per Crossing	6	4
Refuge Island Provided	No	Yes
Total Pedestrian/Vehicle Conflict Points	36	16
Vehicle Speed in Intersection	25 mph (or more)	Less than 20 mph
Bicycle Navigable	Yes	Yes
	•	6
		(a)

Alternatives Analysis
☐ Traffic Analysis
☐ Landowner Impacts + 🛒
□Pedestrian Safety+ ν ~ (χ-
➤ Constructability
☐Cost Analysis <
B=9+x2+161-





Cost Analysis	Signalized Intersection	Roundabout
Construction Cost (2021 dollars)	\$3.5 Million	\$2.0 Million
Sufficient Funding Secured	Partly	Yes
Funding Impacts on Other Corridor Improvements	Yes	No
Pavement Amounts	40,500 Sq Yds	20,600 Sq Yds
Drainage Impacts	4,400 Sq Ft	2,400 Sq Ft
Right of Way Needs	Est. \$100,000	Est. \$20,000
Average Annual Maintenance Costs	\$5,800	\$2,900
Equivalent Life Cycle Cost	\$88,000	\$49,900
	S	6

Community & Stakeholder Input

- ➤ City Planning & Zoning Commission
- > City Disability Awareness Board
- ➤ Harrisburg Chamber of Commerce/HEDC Board
- Harrisburg School District
- > Recent developers near the intersection
- > Adjacent landowners requiring ROW