

DEF-15/18-12.04/22.30 ROUNDABOUT

Project Description: Construct a 3-leg roundabout to replace the overhead flasher at the intersection of SR-15 and SR-18.

Crash Modification Factors:

Safety benefits of the roundabout include eliminating conflict points, reducing the number and severity of crashes due to lower speeds with providing a second intersection with lighting.

The following CMF were utilized for this alternative:

- Convert intersection with minor road stop control to modern roundabout – CMF = 0.13/0.29
- Install right turn lane – CMF = 0.99
- Install intersection lighting – CMF = 0.792
- Relocate fixed objects outside of clear zone – CMF = 0.62

Alternative	Meets Purpose and Need	Traffic Operations	Safety Benefits	ROW Impacts	Utility Impacts	Construction Cost	Overall
No Build	○	◐	○	●	●	◐	◐
Realignment	●	◐	◐	◐	◐	◐	◐
3-Leg Roundabout	●	●	●	◐	◐	◐	◐
4-Leg Roundabout	●	●	●	◐	◐	◐	◐

Next Steps:

- Apply for TSMO Funds for FY28 Construction
- Add detailed design to the FY25 Programmatic
- Apply for Safety Funding



Cost Estimate

Category	3-Leg Roundabout
Roadway	\$205,800.00
Erosion Control	\$55,000.00
Drainage	\$67,375.00
Pavement	\$860,975.00
Traffic Control	\$77,000.00
Lighting	\$245,000.00
MOT	\$106,000.00
Incidentals	\$152,000.00
Contingency	\$485,145.00
Inflation (16.1%)	\$362,942.00
Total	\$2,617,237.00
Benefit-Cost Ratio	0.37

