



TRANSPORTATION & STREET IMPROVEMENTS PROGRAM

Project: O’Neal Lane—Seg 1 (South Harrell’s Ferry Road to 1,250’ south of I-12)

Green Light Program ID: B
 Project Length (feet): 4,980
 Existing Typical Section: Three-lane asphalt roadway with 10’ asphalt shoulders and open ditch drainage adjacent to pavement for majority of the project. Improved five-lane concrete roadway at I-12.
 Proposed Typical Section: Four-lane curb and gutter boulevard with sidewalks.

Project Overview

This project will add two additional through lanes, sidewalks and a raised median from S. Harrell’s Ferry Road to 1,250’ south of Interstate 12. It will extend the adjacent improved section of O’Neal Lane (from George O’Neal Road to S. Harrell’s Ferry Road) and when combined with other projects in the Plan, will provide an improved north-south connection extending from Nicholson Drive to Hooper Road.

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ASSUMPTIONS

- Evans-Graves Engineers is the design consultant for previous work on this project (final preliminary plans were submitted to DOTD in 1999).
- Cost estimate assumes sidewalks will be added entire length of project.
- Improvements to the S. Harrell's Ferry Road intersection (additional turn lanes, signalization, etc.) are not included in this project's cost estimate.

UTILITIES

Possible Utilities	Existing	Adjust / Relocate
Underground Electric		
Overhead Electric	●	●
Overhead Electric Transmission		
Water	●	●
Sanitary Sewer	●	●
Telephone	●	●
CATV	●	●
Gas Distribution	●	●
Gas HP Pipeline		

HYDROLOGY / HYDRAULICS

- Drainage for this project will require a 60" diameter outfall pipe to discharge along S. Harrell's Ferry Road into Knox Creek.

TRAFFIC

- Projected Average Daily Traffic (ADT) for year 2030 is 55,935. The proposed project will provide a Level of Service (LOS) D for year 2030.



SIGNALIZED INTERSECTIONS

- Signalization required at S. Harrell's Ferry Road, Firewood, and Bristoe intersections and at the Wal-Mart entrance.
- For O'Neal Lane at S. Harrell's Ferry Road, one left turn lane and two through lanes will be constructed for northbound traffic. For southbound O'Neal traffic at the intersection, one left turn lane, one right turn lane and two through lanes will be constructed.
- For O'Neal Lane at Firewood Drive, a northbound left turn lane will be constructed for O'Neal traffic and two through lanes will be constructed for northbound and southbound O'Neal. The existing Firewood lanes will remain unchanged.
- For O'Neal Lane at Bristoe Avenue, a left turn lane and two through lanes will be constructed for northbound and southbound O'Neal traffic. The existing Bristoe lanes will remain unchanged.
- For O'Neal Lane at Wal-Mart, a right turn lane for O'Neal northbound traffic will be added. The other existing turn lane and through lanes at the intersection will be reconstructed to match the existing layout.

RIGHT OF WAY IMPACTS

- Existing right of way is approximately 80'.
- The required right of way width for the project is 100'.

ENVIRONMENTAL CONCERNS

- A half-acre of wetland in the open ditches will be impacted.
- Cost estimate includes potential issues related to dry cleaners on west side of project.

SOILS

- Soils in the project area are predominantly silty loam.



COST ESTIMATE

Project Description:	Four-lane curb and gutter boulevard with sidewalks		
Project Length:	4980 Feet (0.94 miles)		
	CONSTRUCTION COST		
Section 200 -	Earthwork	\$	496,999
Section 300 -	Base and Subbase Courses	\$	1,125,627
Section 400 -	Surface Courses	\$	-
Section 500 -	Pavements	\$	2,115,226
Section 600 -	Structures	\$	-
Section 700 -	Drainage Work	\$	1,732,250
Section 800 -	Sanitary Sewer Work	\$	537,000
Section 905 - 906	Pavement Markings & Signalization	\$	1,273,460
Section 907 - 911	Concrete Curbs & Sidewalks	\$	478,080
	SUBTOTAL CONSTRUCTION COST (2006 \$)	\$	7,758,641
MOBILIZATION		\$	620,691
	SUBTOTAL	\$	8,379,332
CONTINGENCY & UNFORESEEN CONDITIONS		\$	1,675,866
	SUBTOTAL	\$	10,055,199
	TOTAL CONSTRUCTION COST (2006 \$)	\$	10,055,199
UTILITY RELOCATIONS		\$	980,199
TESTING		\$	251,380
LIGHTING, LANDSCAPING, SEEDING		\$	402,208
ENVIRONMENTAL STUDY		\$	185,000
ENGINEERING		\$	1,005,520
ENVIRONMENTAL MITIGATION		\$	70,000
RIGHT-OF-WAY		\$	6,596,789
	SUBTOTAL	\$	19,546,295
PROGRAM & CONSTRUCTION MANAGEMENT		\$	977,315
	TOTAL PROJECT COST (2006 \$)	\$	20,523,610

Comments:

- Unit costs are assumed to include contractor overhead, profit and mark-ups
- Environmental mitigation will include environmental and protection of cultural resources
- Mobilization is expected to be 8% of construction cost
- Contingency and Unforeseen Conditions are expected to be 20% of construction cost
- Testing is expected to be 2.5% of construction cost
- Lighting, Landscaping, and Seeding is expected to be 4% of construction cost
- Note: Percent Cost is for the GLP Program Average and NOT project specific obligation
- Engineering is expected to be 10% of construction cost
- Program & Construction Management is expected to be 5% of project costs

