

**CHAPTER II
PRELIMINARY DESIGN**

3R CONCEPTUAL STUDY REPORT

Rural (Non-freeway)

Urban (Non-freeway)

1. Project Information

- A. Job Number:
- B. County:
- C. Route:
- D. Functional Classification:
- E. Project Location (attach location sketch):
- F. Project Description:
- G. Project Length:
- H. Note any other projects scheduled in the MoDOT long range plan which would reconstruct or upgrade this section.

2. Traffic Data

- A. Construction Year (_____) ADT:
- B. Design 10-Year (_____) ADT:
- C. % Trucks:
- D. ESAL's - Flexible & Rigid:
- E. Design Speed:

3. Pavement Data

- A. Attach typical sections showing thickness of existing and proposed pavement and shoulder structure.
- B. Give the history of the existing pavement to include the type, thickness, date of original construction and any subsequent pavement rehabilitation, such as resurfacing.
- C. Attach the latest ARAN data.
- D. Summarize the type, extent or severity level, and if known, the cause of the pavement distress.
- E. Discuss the various methods of rehabilitation considered and provide a cost comparison of those methods. Give the estimated amount of pavement repair.
- F. Discuss how the proposed rehabilitation will correct the distress condition.

4. Geometric Data

- A. Identify geometrics of adjoining sections compared to project location.

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B. List roadside obstacles within the horizontal clearance limits (clear zone).

5. Accident Data, Safety Enhancements and Access Management

- A. Project accident rate:
- B. Statewide accident rate for highways of same functional classification:
- C. Attach data pertaining to the number, location, type and severity of accidents. (5 year accident by log mile)
- D. Indicate predominant type of accident and locations.
- E. Identify any locations within or adjacent to the project limits which are on the “High Accident Intersections” or “High Accident Range” lists in the TMS database.
- F. Is there a relationship between the accident rate and any design exception requested? Explain.
- G. Describe the measures being taken to enhance safety on this project.
- H. Does this section of highway meet current access management criteria? If not, can safety be enhanced by upgrading some or all of the access to the highway to meet criteria in the MoDOT Access Management Guidelines?
- I. Are bicycle/pedestrian facilities to be provided on this project? Explain.

6. Conceptual Cost Data (\$1,000's):

	<u>Right of Way</u>	<u>Construction</u>	<u>Total</u>
Current Estimate			

 Approved by: <Signature>
 <Name> , P.E.
 District Engineer

 <Date>