Transportation Engineering-1

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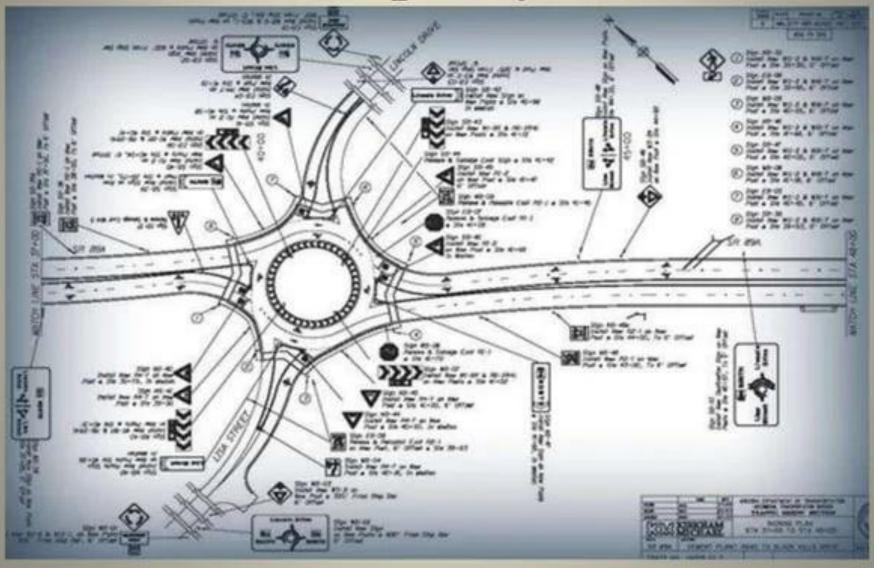
Traffic flow study is useful as following

- This is useful in geometric design features such as volume, number of lanes, width of carriageway etc.
- To decide traffic regulatory measures like one way movement.
- It is used in design of traffic control measures and devices.
- It is used for accident rate analysis and to determine measures to reduce and avoid accident.
- To decide speed trends and traffic patterns.
- To decide the priority for improvement and expansion.
- It is used for planning and control of existing facilities and routes.
- It is used for planning and designing the new facilities, To suggest improvement and expansion.
- It is used for planning of pedestrian facilities like sidewalks, crosswalks, subways and pedestrian signals.
- It is used for planning signal timing.
- It is used for structural design of pavement.
- To compute roadway capacity.
- To plan mass transit facilities.

Traffic Capacity Studies:

- Traffic Capacity Studies: Traffic Capacity is the ability of a roadway to accommodate traffic volume.
- C = 1000 V/ S
- V= Speed, KMPH
- S= Average centre to centre spacing of vehicles in m
- C= Capacity of a single lane vehicle per hr.

Traffic Capacity Studies



Parking Survey

- Parking survey is the work of data collection related to space available for parking of vehicles and number and type of vehicles demand for parking.
- · Types of Parking
- Kerb parking
- · Off street
- Kerb parking: vehicles are parked on the kerb or on the side of street or road.
- Types of Kerb Parking:
- Parallel Parking
- 30 ° angle parking
- 60 ⁰ angle parking
- 45 angle parking
- 90 ⁰ angle parking
- Angle parking is more convenient for the motorists than the parallel parking.
- Out of various angle parking, 45 of angle parking is the best and most convenient.
- Off street parking:
- When parking facility is provided at a separate place away from the kerb it is known as off-street parking.
- · Types of offstreet parking:
- Surface parking lots
- Multi floor parking garages