

1. For the following intersection, the OD matrix was given as follows:

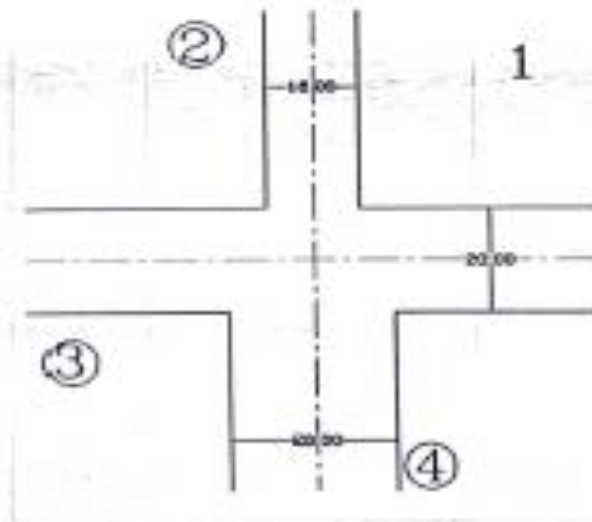
From / To	1	2	3	4
1	--	400	1100	300
2	320	--	400	700
3	750	350	--	160
4	140	1000	200	--

It is required to:

- Draw the traffic flow diagram with a reasonable scale
- Draw the given intersection using geometric design basics with scale 1:500 given the following,
  - Minimum curb radius is 12 m
  - Minimum sidewalk width is 2 m
  - Minimum median width is 2 m
  - Take into consideration pedestrian movement at the intersection
 Showing all the markings and pedestrian crossings on the roads

2. The traffic flow rates in PCU/hr of the intersection below is given in the following matrix:

From / To	1	2	3	4
1	--	370	550	130
2	--	--	--	--
3	450	250	--	350
4	110	1050	200	--

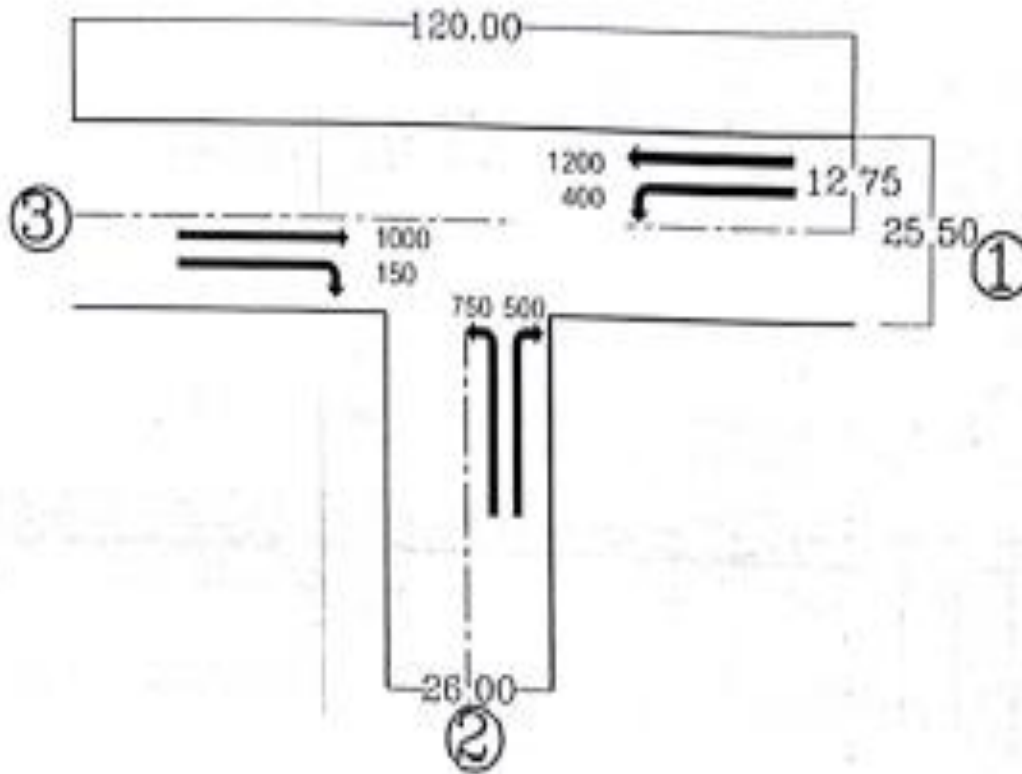


It is required to:

- Draw traffic flow diagram with reasonable scale
- Design the geometry of intersection with scale 1:500 considering that there's no pedestrians' movement, showing all the markings and dimensions.
- Choose medians, pavements, and road width taking in consideration the number of suggested lanes.

Approach	Number of Lanes
1	2
2	--
3	2
4	3

3. The figure shows the flows at an intersection:



It is required to draw the given intersection using geometric design basics with scale 1:500 given the followings:

- Start drawing from the given centerlines.
- Minimum curb radius is 8 m.
- Minimum sidewalk width is 4 m.
- Minimum median width is 2 m.
- Take into consideration pedestrian movement at the intersection.
- Show all the markings and pedestrian crossings on the roads.