14-09 MOVABLE CONSTRUCTION BARRIER

14-09.1 Warrants

The following guidelines are to be used to establish the warrants for using Precast Concrete Curb, Construction Barrier, Moveable (CBM) to achieve an efficient and effective Traffic Control Plan. CBM will provide additional traffic capacity lanes for accommodation of both AM and PM peak traffic, a safe and expeditious means of expanding the Contractor's work area (all work is done using positive separation), or the opportunity to stage projects in a more efficient method.

CBM's should be a type that can be quickly moved laterally from 4 feet to 18 feet in one continuous operation and at speeds of about 5 mph. The decision to use a CBM system should be made by the designer with capacity, safety and economics as the guidelines and should include the following considerations:

1. Additional traffic lane capacity can be gained during peak hour traffic periods.

2. Additional contractor working area can be gained during off peak hours and substantially reduce construction time.

3. Construction time can be shortened either through staging or increased productivity by the contractor.

4. Timing required to set up staging can be kept to a minimum.

5. Construction sites with limited work zones in urban or restricted areas where frequent day or nighttime lane closures will be required.

6. Their use will provide a greater degree of safety for motorists.

7. Projects which are located in non-attainment areas and Clean Air Issues require a reduction in emissions.

Input for justification should be obtained from Traffic Signal and Safety Engineering and Regional Construction.

14-09.2 Applications

When developing the Traffic Control Plan, the use of these CBM systems should be limited to projects where a greater benefit can be attained than if standard methods and equipment were used. Listed below are types of projects where it would be a viable option for use.

1. Widening or reconstruction projects on highways or expressways with high peak hour traffic volumes (i.e. 50,000 AADT and greater for four lane facilities and 90,000 AADT and greater for 6 lane facilities).