ARTICLE XI

OFF - STREET PARKING AND ACCESS CONTROL REGULATIONS

In all zones, off-street parking facilities for use by occupants, employees, and patrons of the building hereafter erected, altered, or extended, and all uses of the land after the effective date of this ordinance, shall be provided and maintained as herein prescribed. However, where a building permit has been issued prior to the date of adoption of this ordinance, and provided that construction has not begun within ninety (90) consecutive calendar days of such effective date, off-street parking facilities in the amounts required by this ordinance shall prevail.

SECTION 11.0 GENERAL REQUIREMENTS

A. COMPUTATION OF PARKING SPACES: In determining the number of required off-street parking spaces required, if such spaces result in fractional parts thereof, the number of said required spaces shall be construed to be the next highest whole number.

B. ADDITIONAL PARKING SPACES TO BE PROVIDED: Whenever the intensity of use of any building, structure, or premises shall be increased through addition of dwelling units, gross floor area, seating capacity, change of use, or other units of measurement specified herein, additional parking spaces shall be provided in the amounts hereafter specified for that use, if the existing off-street parking area is inadequate to serve such increase in intensity of use.

C. LOCATION OF OFF - STREET PARKING FACILITIES

1. Off-street parking facilities shall be located as follows:

a. Single-Family Residential Zones:

(1) Off-street parking may be permitted in driveways in the front, side, and rear yards of permitted uses in these zones, provided all requirements of this ordinance are met. Additionally, off-street parking located in the rear yard shall be set back a minimum of ten (10) feet from the rear lot line. No off-street parking area, for permitted uses, located in the front yard in a single-family residential zone, may exceed four hundred (400) square feet (two parking spaces) except, however, the zoning administrator may allow additional off-street parking spaces to be located thereon, provided that the additional parking spaces will not cause the ratio of
unpaved area to paved area (parking and driveway areas) in the front yard to be less than 3:1.

(2) Off-street parking may be permitted in the side and rear yards of conditional uses in these zones, provided all requirements of this ordinance are met. Additionally, off-street parking, located in the rear yard, shall be set back a minimum of ten (10) feet from the rear lot line. Off-street parking may be permitted in the front yard, only if approved by the Board of Adjustment.

b. Multi-Family Residential Zones:

(1) Off-street parking may be permitted in the side and rear yards of permitted uses in these zones, provided all requirements of this ordinance are met. Additionally, off-street parking located in the rear yard shall be set back a minimum of ten (10) feet from the rear lot line. Off-street parking may be permitted in front yards, only if approved according to an approved development plan.

(2) Off-street parking may be permitted in the side and rear yards of conditional uses in these zones, provided all requirements of this ordinance are met. Additionally, off-street parking, located in the rear yard, shall be set back a minimum of ten (10) feet from the rear lot line. Off-street parking may be permitted in the front yard, only if approved by the Board of Adjustment.

c. Special Development Zones - Off-street parking shall be located as designated on the approved plan.

2. All off-street parking facilities shall be located on the same lot as the building served, except for the following:

a. Permitted uses within multi-family zones may supply off-street parking within three hundred (300) feet from such lot served, upon approval of the zoning administrator, provided that such off-street parking facilities are unable to be provided on the same lot, or contiguous to the same lot, as the building being served. In addition, said off-street parking shall be located in the same zone as the use being served.

b. Existing single, two, or multi-family dwellings, which are permitted uses herein and occupy a lot of such size that off-street parking
could not be provided on the same lot as the use being served, said off-street parking may be permitted to locate within three hundred (300) feet from said dwelling or dwellings, upon approval of the zoning administrator. In addition, said off-street parking lot shall be located in the same zone as the use being served.

c. Off-street parking, as required for a conditional use, may be permitted to locate on a lot other than the lot on which the building or use being served is located, when approved by the Board of Adjustment, provided that said off-street parking is located at the most convenient and visible area nearest to the use or building being served and available at all times without restrictions for said purposes, except as provided for under Section 11.0, E. of this ordinance.

D. COLLECTIVE PARKING PROVISION: Collective off-street parking facilities may be provided, however, the area for such parking facilities shall not be less than would otherwise be individually required.

E. DRIVEWAYS NOT COMPUTED AS PART OF REQUIRED PARKING AREA: Entrances, exits, or driveways shall not be computed as any part of a required off-street parking area, except in the case of single-family residential zones, where access driveways may be used for parking.

F. OFF-STREET PARKING SPACE TO BE USED FOR PARKING ONLY: Any vehicle parking space shall be used for parking only. Any other use of such space, including repair work or servicing of any kind, other than in an emergency, or the requirement of any payment for the use of such space, shall be deemed to constitute a separate commercial, use in violation of the provisions of this ordinance.

G. NO BUILDING TO BE ERECTED IN OFF-STREET PARKING SPACE: No building of any kind shall be erected in any off-street parking area except a parking garage containing parking spaces equal to the requirements set forth in this section of the ordinance or a shelter house/booth for a parking attendant, provided the number of required spaces are not reduced.

H. PARKING PLAN APPROVAL REQUIRED: Plans for all off-street parking facilities, including parking garages, shall be submitted to the zoning administrator for review and for compliance with the provisions of this ordinance and such other pertinent ordinances of the city. Such plans shall show the number of spaces and arrangements of parking aisles, location of access points onto adjacent streets, provisions for vehicular and pedestrian circulation, location of sidewalks and curbs on or adjacent to the property, utilities, location of shelters for parking attendant, locations of signs, typical cross-sections of pavement,
including base and sub-base, proposed grade of parking lot, storm drainage facilities, location and type of lighting facilities, and such other information or plans as the circumstances may warrant. Where such parking plans include provisions for access points to adjacent streets, then said plans shall also be prepared in accordance with the requirements of Section 11.3 of this ordinance.

I. Off-Street Parking Space Shall Not Be Reduced - The required parking spaces as set forth and designated in this ordinance shall not be reduced.

SECTION 11.1 DESIGN AND LAYOUT OF OFF-STREET PARKING AREAS

A. SIZE OF OFF-STREET PARKING SPACES: For the purposes of this ordinance, one (1) off-street parking space shall be a minimum of ten (10) feet in width and twenty (20) feet in length, exclusive of access drives or aisles. Such parking space shall have a vertical clearance of at least seven (7) feet.

B. WIDTH OF ACCESS DRIVES

1. All off-street parking areas shall be laid out with the following minimum aisle or access drive widths:
   a. Ninety (90) degrees (perpendicular) parking -- Twenty-four (24) feet (either one or two way circulation)
   b. Sixty (60) degree (angle) parking -- Eighteen (18) feet (one way circulation only)
   c. Forty-five (45) degree (angle) parking -- Thirteen (13) feet (one way circulation only)
   d. Thirty (30) degree (angle) parking -- Eleven (11) feet (one way circulation only)
   e. Zero degree (parallel) parking -- Twelve (12) feet (one way circulation only)

2. Except as herein provided, the minimum width of access drives or aisles, as provided for in Section 11.1, B., 1. of this ordinance, shall be required whether the access drive or aisle provides access to an off-street parking area or individual off-street parking spaces.

3. When any combination of these types of parking is used (facing the same aisle) the most restricted aisle or access drive width requirements shall prevail. In addition, a two (2) foot overhang may be permitted on the external sides of a parking area.

C. ACCESS TO OFF-STREET PARKING SPACES: Each required off-street parking space shall be connected with a deeded public right-of-way by means of aisles or access drives. The off-street parking area shall be so designed to
ensure that all maneuvering into and out of each off-street parking space shall take place entirely within property lines of lots, garages, and/or storage areas.

D. OFF-STREET PARKING AREAS IN MULTI-FAMILY ZONES: All such off-street parking areas shall have a protective wall and/or bumper blocks around the perimeter of said off-street parking area and shall be so designed that all vehicles leaving the facility will be traveling forward to approaching traffic. All off-street parking areas shall be effectively screened on each side adjoining or fronting on any property situated in a zone permitting single-family residential dwellings, by a solid wall, fence, or densely planted compact hedge, as regulated by Section 9.15 of this ordinance. Ground cover shrubs and trees shall be located and maintained so as to not interfere with vehicular and pedestrian traffic on the property or with sight distance clearance at entrances and exits.

E. LIGHTING: Any lighting used to illuminate off-street parking areas shall not glare upon any right-of-way or adjacent property.

F. PAVING OF NEW OFF-STREET PARKING AREAS

1. All new off-street parking areas shall be paved with asphalt concrete or Portland Cement concrete and shall be designed and constructed in accordance with Appendix A of this ordinance. The zoning administrator may, however, allow parking lots to be paved with gravel for a period of up to one (1) year to allow settling when such lot is constructed on a former building site, or when weather conditions prevent immediate paving with a hard surface. Under no circumstances shall an off-street parking area used for more than one (1) year without being paved in accordance with the above requirements.
SECTION 11.2 SPECIFIC OFF-STREET PARKING REQUIREMENTS: The amount of required off-street parking for uses, buildings, or additions, and changes in intensity of uses thereto, shall be determined according to the following requirements, and the space, so required, shall be stated in the application for a zoning and building permit and shall be reserved for such use. Where more than one use is located in the same building, each individual use shall be in accordance with the off-street parking requirements of this section of the ordinance.

<table>
<thead>
<tr>
<th>TYPES OF USES</th>
<th>REQUIRED NUMBER OF SPACES</th>
</tr>
</thead>
<tbody>
<tr>
<td>City and/or county government facilities</td>
<td>One (1) parking space for each two hundred (200) square feet of gross floor area.</td>
</tr>
<tr>
<td>Congregate housing and orphanages</td>
<td>One (1) parking space for each bed, plus one (1) parking space for each two (2) employees or staff members, including, nurses, on shift of largest employment, plus one (1) parking space per doctor.</td>
</tr>
<tr>
<td>Dwellings: One-Family</td>
<td>Two (2) parking spaces. Four (4) parking spaces, with individual access for each dwelling unit, or a joint access in which no parking is permitted on the access drive.</td>
</tr>
<tr>
<td>Dwellings: Two-Family</td>
<td></td>
</tr>
<tr>
<td>Dwellings: Multi-Family</td>
<td>Two (2) parking spaces for each dwelling unit</td>
</tr>
<tr>
<td>Fire stations</td>
<td>One (1) parking space for each person on duty on largest shift.</td>
</tr>
<tr>
<td>Post offices</td>
<td>One parking space for each two hundred (200) square feet of gross floor area, plus one (1) parking space for each two (2) employees on shift of largest employment, plus one (1) parking space for each vehicle operating from the premises.</td>
</tr>
<tr>
<td>TYPES OF USES</td>
<td>REQUIRED NUMBER OF SPACES</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Schools - elementary, junior high, and equivalent, private or parochial</td>
<td>One (1) parking space per teacher and administrator, or one (1) parking space for each four (4) seats in the auditorium, stadium, and other places of assembly or facilities available to the public, based on maximum seating capacity, whichever is greater.</td>
</tr>
<tr>
<td>Schools - senior high, trade and vocational, colleges and universities, and equivalent, private or parochial</td>
<td>Six (6) parking spaces for each room to be used for class instruction or administrative offices, or one (1) parking space for each four (4) seats in the auditorium, stadium, and other places of assembly or facilities available to the public, based on maximum seating capacity, whichever is greater.</td>
</tr>
<tr>
<td>Churches and places of assembly with fixed seats</td>
<td>One (1) parking space for each four (4) seats, based on maximum seating capacity, plus one parking space for each two (2) employees on shift of largest employment.</td>
</tr>
<tr>
<td>Churches, and place of assembly without fixed seats</td>
<td>One (1) parking space per four (4) people in designated capacity of the building, or one (1) parking space per one hundred (100) square feet in main auditorium or assembly area, whichever is greater, plus one (1) parking space for each two (2) employees on shift of largest employment.</td>
</tr>
</tbody>
</table>
SECTION 11.3 ACCESS CONTROL REGULATIONS

A. PURPOSE: In order to promote greater safety of passage between streets and land, improve the convenience and ease of movement of travelers on streets, permit reasonable speeds and economy of travel, and increase and protect the capacity of streets, the location and design of access points shall be in accordance with the following access control regulations. These regulations shall apply to all arterial and collector type streets, as identified in the adopted comprehensive plan.

B. PROVISION OF RESERVED TURNING LANES: At those access points where vehicles turning to and from arterial and collector streets will substantially affect the roadway capacity, reserved turn lanes shall be constructed by the developer.

C. PROVISION OF FRONTAGE ROAD: Where possible, provision for the construction of a frontage road shall be made. However, access to arterial or collector streets via an intersecting street or a common driveway shall be investigated if such a design is not reasonable.

D. COORDINATION OF ACCESS POINTS: Access points on opposite sides of arterial and collector streets shall be located opposite each other, otherwise turning movement restrictions may be imposed by the planning commission, or its duly authorized representative, or the zoning administrator, whichever is applicable. In addition, in order to maximize the efficient utilization of access points, access drives shall be designed, located, and constructed in a manner to provide and make possible the coordination of access with, and between, adjacent properties developed (present or future) for similar uses. As a condition of approval for construction, use, or reuse of any access road, the zoning administrator may require that unobstructed and unencumbered access, in accordance with the provisions of this ordinance, be provided from any such access point to adjacent properties.

E. SPACING RESTRICTIONS FOR SIGNALIZED ACCESS POINTS: Except when approved by the Kentucky Transportation Cabinet, access points which will warrant signalization shall be spaced a minimum distance of one quarter (1/4) mile apart. The exact location of the signal light shall be determined by a traffic engineering study which shall at least account for the following variables:

1. Speed
2. Traffic signal phasing
3. Traffic signal cycle length
4. Roadway geometrics
5. Accident experience
Provision for all turning movements to maintain the design capacity of the roadway shall be required.

F. **SIGHT DISTANCE:** The location of access points shall comply with safe sight distance requirements, as provided for in Table 1 of this ordinance. The centerline of all access points shall intersect as nearly at a ninety (90) degree angle as possible, but in no case shall the angle of intersection be less than seventy-five (75) degrees or greater than one hundred five (105) degrees, unless approved by the planning commission, or its duly authorized representative, or the zoning administrator, whichever is applicable, due to certain exceptional conditions.

G. **LOCATION OF UNSIGNALIZED ACCESS POINTS**

1. **Arterial Streets**

   a. Unsignalized access points shall be spaced a minimum distance of six hundred (600) feet apart, measured from point of curb return to point of curb return. Turning restrictions and/or reserved lanes may be required.

   b. One (1) access point per tract will be permitted. However, if the spacing requirements for a direct access point onto an arterial street, as provided for in Section 11.3, G., 1., a. of this ordinance, cannot be met, then an access point may be located on a frontage road, on an intersecting local street, or share a common driveway that meets the spacing requirements. In order for the intersecting local street or frontage road to function properly, access onto them shall be controlled as follows:

      (1) Access points onto local streets which intersect an arterial street shall be spaced a minimum distance of one hundred (100) feet, measured from point of curb return to point of curb return, from the arterial street.

      (2) In areas zoned to permit commercial, industrial, or multi-family residential uses, access points from adjacent properties onto frontage roads, shall be spaced a minimum distance of one hundred (100) feet, measured from point of curb return to point of curb return, from intersections of the frontage road with local or collector streets.

   c. Where the frontage of a tract is greater than five hundred (500) feet an additional access point may be permitted. However, the type of
access will depend on the spacing requirements as provided for in Section 11.3, G., 1., a. of this ordinance.

(1) If the frontage of the tract is long enough, then at least one (1) of the access points may have direct access onto the arterial street, provided the spacing meets the requirements of Section 11.3, G., 1., a. of this ordinance, and all other requirements of this section of the ordinance. In the case where the frontage allows only one (1) point of direct access, due to spacing restrictions as provided for herein, the second access point shall be via a frontage road, an intersecting local street, or share a common driveway that meets the spacing restrictions, as provided for herein.

d. If a tract of land has no means of access that would meet the requirements of this section of the ordinance, one (1) access point shall be permitted. However, all such access points shall be considered temporary and may be terminated, reduced, limited to certain turning movements, or caused to be relocated by the zoning administrator at such time as the particular use served by the access point changes and/or the property is otherwise provided an alternate means of access via a frontage road, an intersecting local street, or sharing of a common driveway. Provisions for the construction of a frontage road, restricted turning movements, or other improvements, may be required, as a condition to approval, in order to minimize the number of access points and congestion to the adjacent street. In all cases where said access points are classified as temporary, such designation shall be noted on the development plan or site plan submitted for a zoning permit and also upon the deed of the property in question.

2. Collector Streets

a. On two - lane roadways, one (1) access point per tract will be allowed. However, if the frontage is greater than five hundred (500) feet, an additional access point may be permitted. Furthermore, the minimum spacing between adjacent access points on this type of facility shall be one hundred (100) feet, measured from point of curb return to point of curb return, except in the case where the street intersects another collector street or arterial street, then said access points shall be spaced a minimum of three hundred (300) feet, measured from point of curb return to point of curb return, from the intersection.
b. On multi-lane roadways, the spacing is dependent on whether or not a barrier median exists (prohibiting left-turn movements). If a barrier median exists, access points may be spaced as close as three hundred (300) feet apart, measured from point of curb return to point of curb return. However, certain turning movements may be prohibited. If a barrier median does not exist, then the minimum spacing of access points shall be six hundred (600) feet apart, measured from point of curb return to point of curb return. However, certain turning movements may be prohibited.

c. One (1) access point per tract will be permitted. However, if the spacing requirements for a direct access point onto a collector street, as provided for in Section 11.3, G., 2., a. of this ordinance, cannot be met, then an access point may be located on a frontage road, on an intersecting street, or share a common driveway that meets the spacing requirements.

d. If a tract of land has no means of access that would meet the requirements of this section of the ordinance, one (1) access point shall be permitted. However, all such access points shall be considered temporary and may be terminated, reduced, limited to certain turning movements, or caused to be relocated by the zoning administrator at such time as the particular use served by the access point changes and/or the property is otherwise provided an alternate means of access via a frontage road, an intersecting local street, or sharing of a common driveway. Provisions for the construction of a frontage road, restricted turning movements, or other improvements, may be required, as a condition to approval, in order to minimize the number of access points and congestion to the adjacent street. In all cases where said access points are classified as temporary, such designation shall be noted on the development plan or site plan submitted for a zoning permit and also upon the deed of the property in question.

3. Local Streets

a. All tracts of land located along local streets shall be permitted to have one access point. However, if a tract of land located along a local street contains road frontage that is greater than or equal to 100 feet, an additional access point may be permitted. Furthermore, the minimum spacing between adjacent access points on this type of facility shall be 60 feet, measured from point of curb return to point of curb return. In no case shall the impervious surface ratio exceed the requirements of Section 11.0, C., 1., a., (1).
H. WIDTH OF ACCESS POINTS

1. In single-family residential zones, no access point width shall be less than nine (9) feet nor more than twenty (20) feet. In all other zones, access points shall not be less than twelve (12) feet nor more than forty-eight (48) feet in width. The width shall be measured from the point of curb return to point of curb return, or edge of pavement if no curb exists, excluding the curb radius.

2. The zoning administrator may enlarge up to twenty (20) percent the width to provide for a more efficient and safe channelization and/or flow of traffic. Any further enlargement or reduction must be approved by the legislative body.

I. EXCEPTIONS TO ACCESS POINT REQUIREMENTS: Where situations develop that may require special treatment, the requirements as provided for in Section 11.3., B. - H. of this ordinance may be varied, provided that a traffic engineering report is prepared by a qualified traffic engineer, establishing that the special treatment will have no adverse effects on the roadway safety and capacity.

J. ACCESS POINT PROBLEM AREAS: If, after special study, it is determined that the type of use or activity proposed would have an adverse effect on the safety and capacity of the adjacent roadway, the access point spacing requirements, as contained in this section of the ordinance, may be increased in order to adequately solve the traffic movement.

K. APPROVAL OF ACCESS POINTS REQUIRED: Plans for all access points, and modifications thereto (including plans to use existing access points where a change of use for any tract of land would generate more traffic than the previous use, thus producing an adverse effect on the adjacent roadway), shall be submitted to the zoning administrator and Planning and Development Services of Kenton County staff, at a scale not less than 1 inch = 100 feet. No action of approving or rejecting these plans by the zoning administrator shall be taken until a review and recommendation of said plans has been made by Planning and Development Services of Kenton County staff. Such plans shall show the location of all access points on the site in question, and access points on the same side of the street as the site in question within six hundred (600) feet in either direction. The proposed access point shall include typical cross-sections of pavement, the base and sub-base, proposed grade, storm drainage, and such other information or plans as the circumstances may warrant. If such access points are being located in conjunction with off-street parking and/or loading and unloading facilities, then said plans shall also include off-street parking and off-
street loading and/or unloading plans, in accordance with Sections 11.0 and 12.0 of this ordinance.

L. APPROVAL OF ACCESS POINTS ALONG STATE MAINTAINED ROUTES BY KENTUCKY DEPARTMENT OF TRANSPORTATION: Plans for all access points to be constructed along a state maintained route shall be submitted to the Kentucky Department of Transportation for review and approval during the same time as plans are submitted to the zoning administrator, as provided for in Section 11.3, K. of this ordinance. No access point plans shall be approved, or permits issued, for construction by the zoning administrator, until said access point plans have been approved by the Kentucky Department of Transportation.
TABLE 1A

SIGHT DISTANCE FOR VEHICLES EXITING FROM ACCESS POINTS ONTO ADJACENT ROADS
see Figure 1A

<table>
<thead>
<tr>
<th>VEHICLE TYPE</th>
<th>20 MPH</th>
<th>30 MPH</th>
<th>40 MPH</th>
<th>50 MPH</th>
<th>60 MPH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 lane</td>
<td>4 or 6 lane</td>
<td>2 lane</td>
<td>4 or 6 lane</td>
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<tr>
<td>DL</td>
<td>DR</td>
<td>DL</td>
<td>DR</td>
<td>DL</td>
<td>DR</td>
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<tr>
<td>Passenger Car</td>
<td>150</td>
<td>130</td>
<td>130</td>
<td>260</td>
<td>220</td>
</tr>
<tr>
<td>Truck</td>
<td>300</td>
<td>200</td>
<td>200</td>
<td>500</td>
<td>400</td>
</tr>
</tbody>
</table>

Notes:

D=Distance along major road from access point to allow vehicle to enter safely.

Figures given are measured from a vehicle ten (10) feet back of the pavement edge.

Figures given are in feet.

Values are for urban conditions. On rural streets, distances are to be increased by ten (10) percent to allow for greater reaction time.

The sight distances apply when street grades are zero (0) percent to three (3) percent, either up or down. When an upgrade is steeper than three (3) percent, adjustments are to be made to compensate for the longer time required to reach the speed of highway traffic. The time is less than shown when the highway is descending. Adjustment factors apply to grades only in that portion of the road between the access points and the downstream point at which a vehicle emerging from the access points has been able to accelerate to within ten (10) miles per hour of the route speed.

When the street, in the section to be used for acceleration after leaving the access point, ascends at three (3) percent to four (4) percent, then sight distances in the direction of approaching ascending traffic are to be increased by a factor of 1.4. When the access point ascends at five (5) percent to six (6) percent, sight distances should be increased by a factor of 1.7.

When the street, in the section to be used for acceleration after leaving the access point, descends at three (3) percent to four (4) percent, then sight distances in the direction of approaching descending traffic are to be reduced by a factor of 0.6. If the road descends at five (5) percent to six (6) percent, sight distances should be reduced by a factor of 0.5.

When the criteria for sight distances to the right cannot be met, the need can be eliminated by prohibiting left turns by exiting vehicles.
TABLE 1B
LEFT TURN SIGHT DISTANCE FOR VEHICLES ENTERING ACCESS POINTS
see Figure 1B

<table>
<thead>
<tr>
<th>VEHICLE TYPE</th>
<th>20 MPH</th>
<th>30 MPH</th>
<th>40 MPH</th>
<th>50 MPH</th>
<th>60 MPH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 Lane</td>
<td>4 Lane</td>
<td>6 Lane</td>
<td>2 Lane</td>
<td>4 Lane</td>
</tr>
<tr>
<td>Passenger Car</td>
<td>150</td>
<td>160</td>
<td>170</td>
<td>230</td>
<td>250</td>
</tr>
<tr>
<td>Truck</td>
<td>260</td>
<td>260</td>
<td>300</td>
<td>400</td>
<td>400</td>
</tr>
</tbody>
</table>

Notes:

S=Sight distance along major route to safely turn left into access point.

Figures given are measured from a vehicle ten (10) feet back of the pavement edge.

Figures given are in feet.

Values are for urban conditions. On rural streets, distances are to be increased by ten (10) percent to allow for greater reaction time.

The sight distances apply when street grades are zero (0) percent to three (3) percent, either up or down. When an upgrade is steeper than three (3) percent, adjustments are to be made to compensate for the longer time required to reach the speed of highway traffic. The time is less than shown when the highway is descending. Adjustment factors apply to grades only in that portion of the road between the access points and the downstream point at which a vehicle emerging from the access points has been able to accelerate to within ten (10) miles per hour of the route speed.

When the street, in the section to be used for acceleration after leaving the access point, ascends at three (3) percent to four (4) percent, then sight distances in the direction of approaching ascending traffic are to be increased by a factor of 1.4. When the access point ascends at five (5) percent to six (6) percent, sight distances should be increased by a factor of 1.7.

When the street, in the section to be used for acceleration after leaving the access point, descends at three (3) percent to four (4) percent, then sight distances in the direction of approaching descending traffic are to be reduced by a factor of 0.6. If the road descends at five (5) percent to six (6) percent, sight distances should be reduced by a factor of 0.5.

When the criteria for sight distances to the right cannot be met, the need can be eliminated by prohibiting left turns by exiting vehicles.
FIGURE 1A

SIGHT DISTANCE FOR VEHICLES EXITING FROM ACCESS POINTS
refer to Table 1A

FIGURE 1B

LEFT TURN SIGHT DISTANCE FOR VEHICLES ENTERING ACCESS POINTS
refer to Table 1B