

Village of Minooka

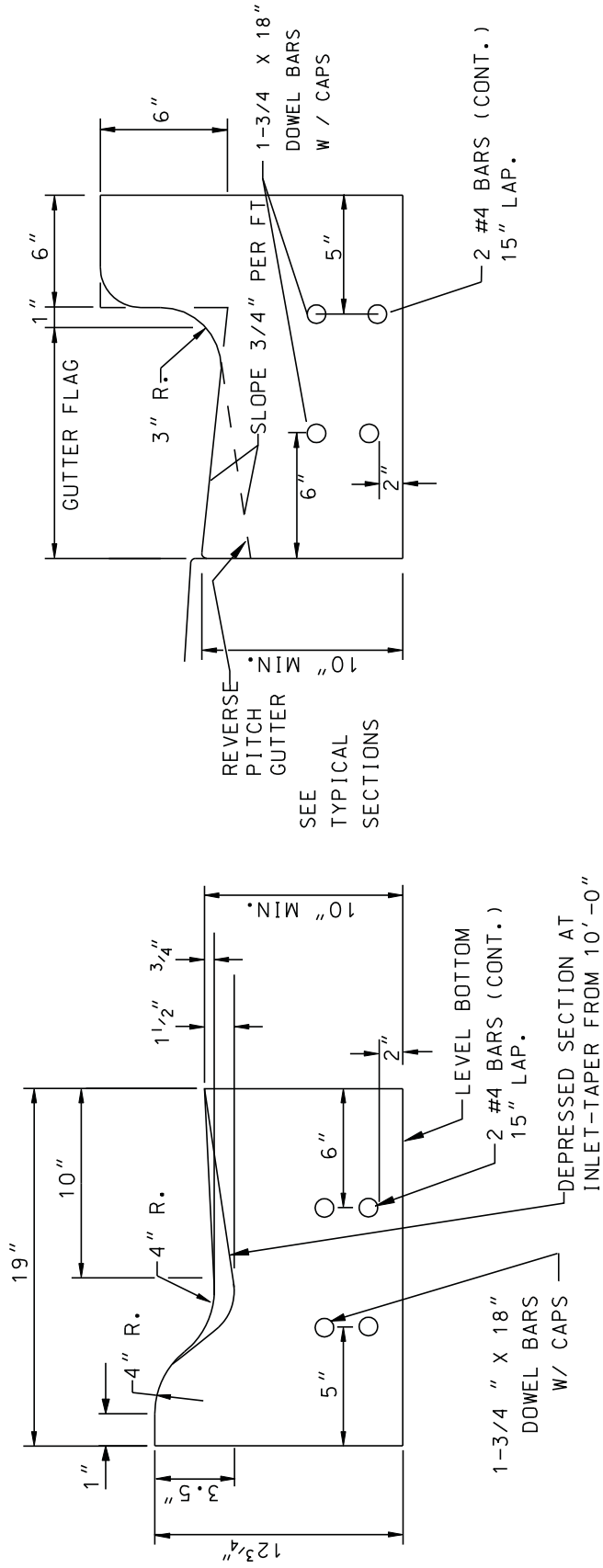
Construction Standards for Curb and Gutter

The curb shall be constructed in accordance with the requirements of the Standard Specifications for Road and Bridge Construction in Illinois, latest edition; all Federal and State statutes or regulations; Village of Minooka Subdivision Regulations; in addition, the following specifications shall apply. In case of discrepancy, the Village of Minooka Subdivision Regulations shall govern.

Concrete Curb Specifications

- Concrete Curb and Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
- Shall be barrier curb & gutter Concrete Curb Type B-6.12.
- Concrete shall be class Sl.
- The base course shall be a minimum of eight inches (4") thick of compacted CA-6. The aggregate base shall be compacted in no more than four inch (4") lifts and shall be included in the price bid for concrete curb.
- Form boards are required to be a minimum dimension of 2" x 10" front boards and 2" x 12" back boards
- Two number four (#4) re-bar shall be laid continuous throughout the curb, lapping fifteen inches (15") over the other bar and wire tied together.
- Two number six ¾" x 18" long dowel bars with caps between all new and existing connections.
- The surface shall be given a final finish by a brush drawn across the curb at right angles to the edge of the curb, producing a uniform slightly roughened surface with parallel brush marks.
- A control joint shall be saw cut every fifteen feet (15'), at right angles to the front and rear edge of the curb. These cuts shall extend to one quarter (1/4) the depth of the curb and shall be no less than one eighth inch (1/8") nor more than one quarter inch (1/4") in width.
- After the control joints are cut a rubberized caulk shall be applied to each control joint.
- One three-quarter-inch (3/4") full depth expansions joints consisting of preformed joint filler shall be placed between all connections between new and existing curb and gutter.
- One half-inch (1/2") full depth expansion joints consisting of preformed joint filler shall be placed between all connections between curb and ramps.
- An IDOT APPROVED 1600-WHITE membrane curing compound shall be used to protect the curb during curing.
- Handicap sidewalk ramps shall be constructed in accordance with section 424 of the Standard Specifications. The ramp shall be Type B and shall be required where ever sidewalks or bike paths meet curb and gutter Etc., railroad crossing etc.
- Cold weather protection shall be required if the ambient air temperatures drop below 32-degrees Fahrenheit and left on until an acceptable length time to allow for curing.

COMBINATION CONCRETE CURB & GUTTER



MOUNTABLE CURB & GUTTER (M-3.12) BARRIER CURB & GUTTER

FORMBOARD REQUIREMENT:
MINIMUM OF 2" X 10" FRONT, 2" X 12" BACK.

THE SURFACE OF THE CURB SHALL NOT BE EXCESSIVELY WETTED PRIOR TO OR DURING FINISHING.
THE CONTRACTOR SHALL DISCUSS WITH THE VILLAGE HIS FINISHING METHODS PRIOR TO CONSTRUCTION.

EXPANSION JOINTS SHALL BE A DISTANCE OF NOT LESS THAN EIGHT FEET NOR MORE THAN TWELVE FEET ON EITHER SIDE OF STORM STRUCTURES. EXPANSION JOINTS ARE NOT ALLOWED IN HANDICAP RAMPS.

SEE TYPICAL SECTIONS FOR ROADWAY TYPES WHICH REQUIRE GREATER THAN A 10" FLAG.

MINOOKA STANDARD

**Construction Standards and Specifications
For Pavement Markings**

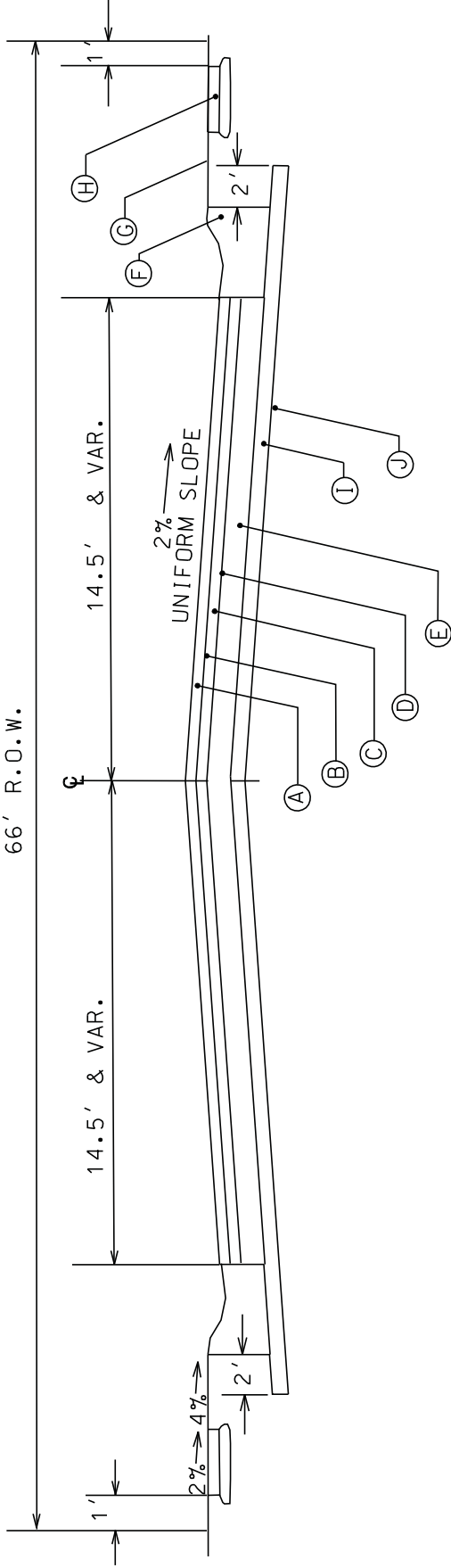
General Provisions

The pavement marking shall be used on PCC pavements.

TYPICAL SECTION LOCAL STREET

UP TO 1000 ADT

66' R.O.W.



- (A) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 1 1/2"
- (B) BITUMINOUS MATERIALS (TACK COAT)
- (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50, 3"
- (D) BITUMINOUS MATERIALS (PRIME COAT)
- (E) AGGREGATE BASE COURSE, TYPE B, 10"
- (F) MOUNTABLE CURB AND GUTTER, M.4-12
- (G) PARKWAY RESTORATION - SEE PARKWAY DETAIL
- (H) PCC SIDEWALK, 5", SEE DETAIL
- (I) AGGREGATE SUBBASE, TYPE B, 4"
- (J) LIME STABILIZED SUB GRADE

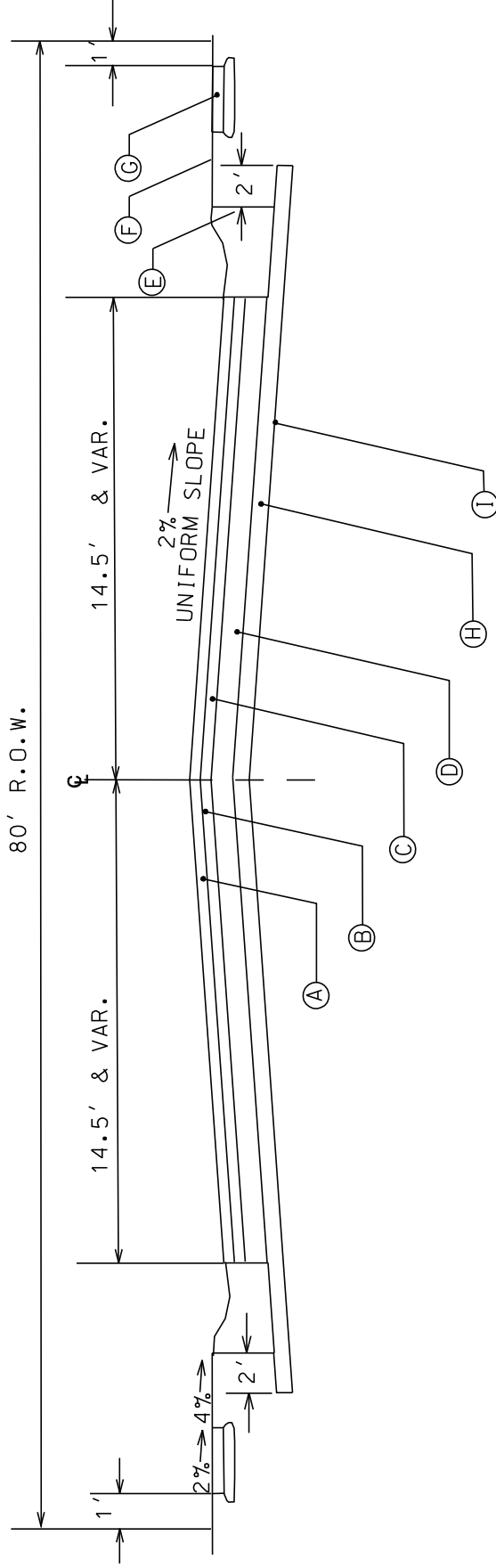
IN PLACE OF (A) - (E)
PORTLAND CEMENT CONCRETE PAVEMENT, 6" AND
AGGREGATE BASE COURSE, TYPE B, 4"

NOTES:
-MINIMUM DT = 3.1
-MINIMUM SUPERPAVE N30

MINOOKA STANDARD

TYPICAL SECTION NEIGHBORHOOD CONNECTOR

UP TO 2500 ADT



- (A) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 1 1/2"
- (B) BITUMINOUS MATERIALS (TACK COAT)
- (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50, 3"
- (D) BITUMINOUS BASE COURSE, TYPE B, 5"
- (E) MOUNTABLE CURB AND GUTTER, M.4-12
- (F) PARKWAY RESTORATION - SEE PARKWAY DETAIL
- (G) PCC SIDEWALK, 5", SEE DETAIL
- (H) AGGREGATE SUBBASE, TYPE B, 4"
- (I) LIME STABILIZED SUB GRADE

IN PLACE OF (A) - (E)
PORTLAND CEMENT CONCRETE PAVEMENT, 6" AND
AGGREGATE BASE COURSE, TYPE B, 4"

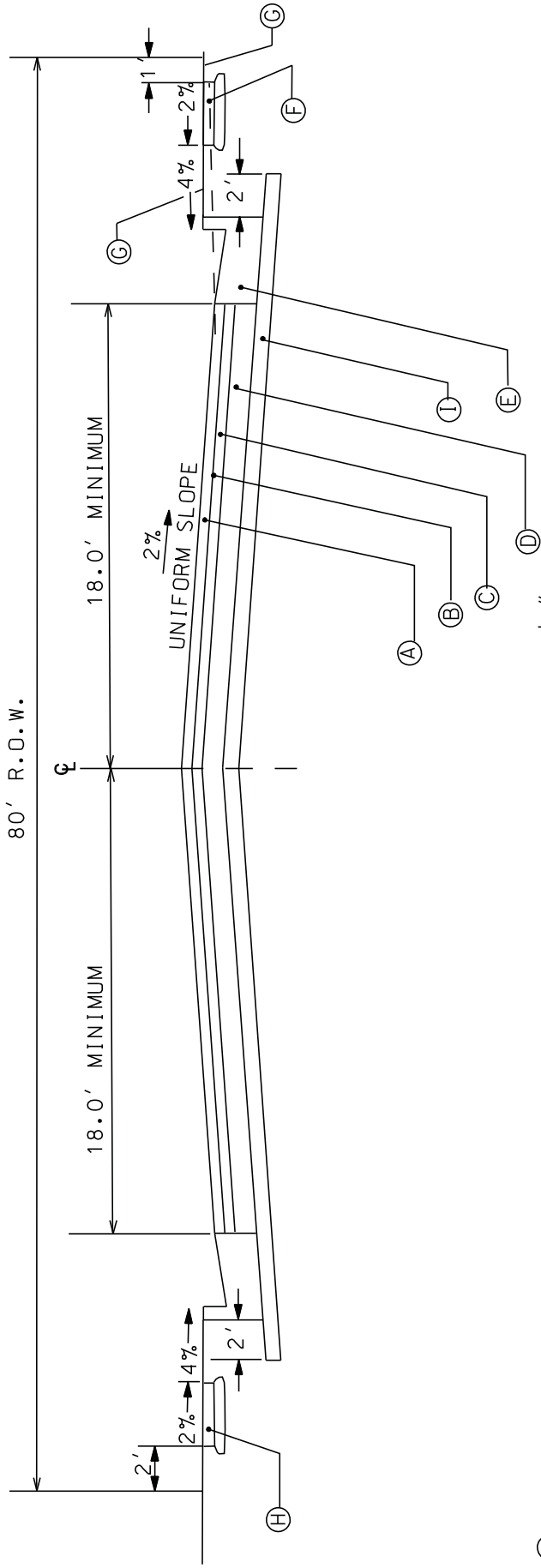
NOTES:

- MINIMUM DT = 3.45
- MINIMUM SUPERPAVE N50

MINOOKA STANDARD

TYPICAL SECTION MINOR COLLECTOR

5000 TO 15,000 ADT
80' R.O.W.



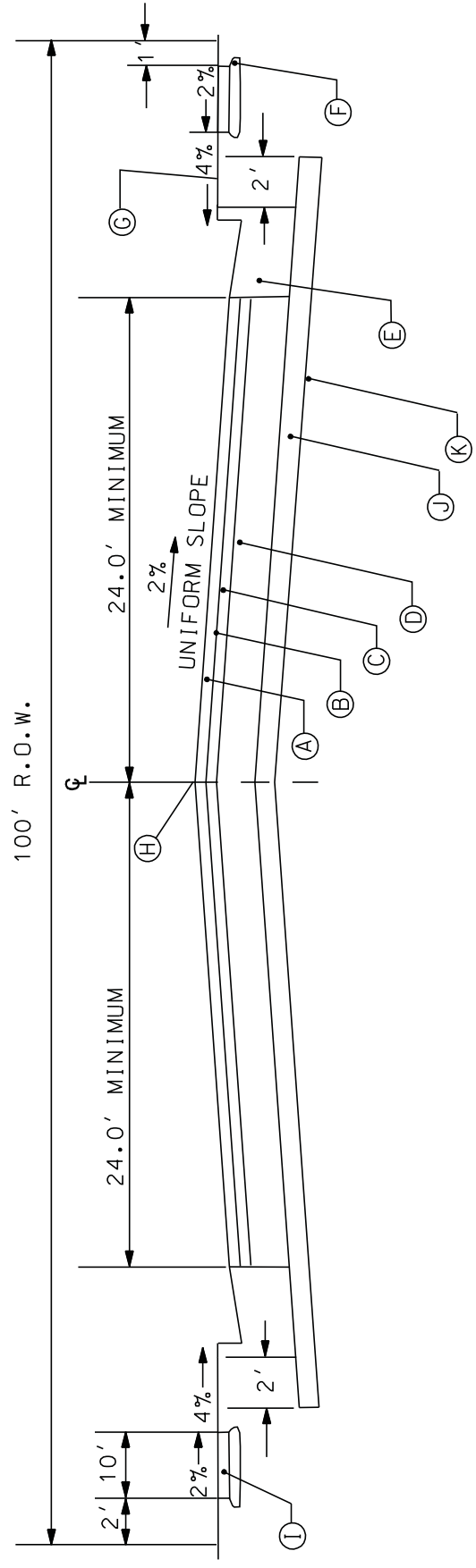
- (A) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 1 1/2"
 - (B) BITUMINOUS MATERIALS (TACK COAT)
 - (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50, 3"
 - (D) BITUMINOUS BASE COURSE, 6"
 - (E) MOUNTABLE CURB AND GUTTER, B.6-12
 - (F) PCC SIDEWALK, 5", SEE DETAIL
 - (G) PARKWAY RESTORATION - SEE PARKWAY RESTORATION DETAIL
 - (H) BITUMINOUS BIKEPATH 2", SEE DETAIL
 - (I) AGGREGATE SUBBASE, TYPE B, 4"
 - (J) LIME STABILIZED SUBGRADE
- IN PLACE OF (A) TO (D)
PORTLAND CEMENT CONCRETE PAVEMENT, 8"
AGGREGATE BASE COURSE, TYPE B, 4"

NOTES:
-MINIMUM D+ = 3.75
-MINIMUM SUPERPAVE N50

MINOOKA STANDARD

TYPICAL SECTION MAJOR COLLECTOR

15000 - 30000 ADT



- (A) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 1 1/2"
- (B) BITUMINOUS MATERIALS (PRIME COAT)
- (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50, 3"
- (D) BITUMINOUS BASE COURSE, 8"
- (E) BARRIER CURB AND GUTTER, B.6-12
- (F) PCC SIDEWALK, 5", SEE DETAIL
- (G) PARKWAY RESTORATION
- (H) STRIPING AND RAISED REFLECTIVE PAVEMENT MARKERS
- (I) BITUMINOUS BIKEPATH, 2", SEE DETAIL
- (J) AGGREGATE SUBBASE, TYPE B, 3 1/2"
- (K) LIME STABILIZED SUBGRADE

IN PLACE OF (A) TO (D)
PORTLAND CEMENT
CONCRETE PAVEMENT, 10"
AGGREGATE BASE COURSE,
TYPE B, 4"

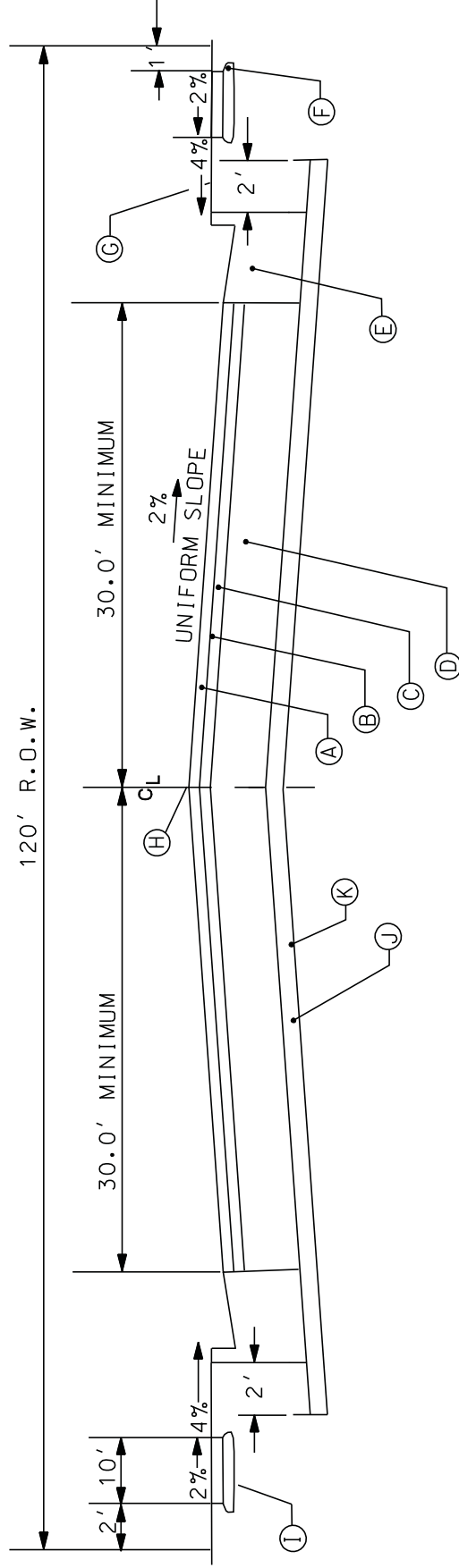
NOTES:
-MINIMUM Dt = 4.50
-MINIMUM SUPERPAVE N70

MINOOKA STANDARD

TYPICAL SECTION MINOR ARTERIAL

15000 - 30000 ADT

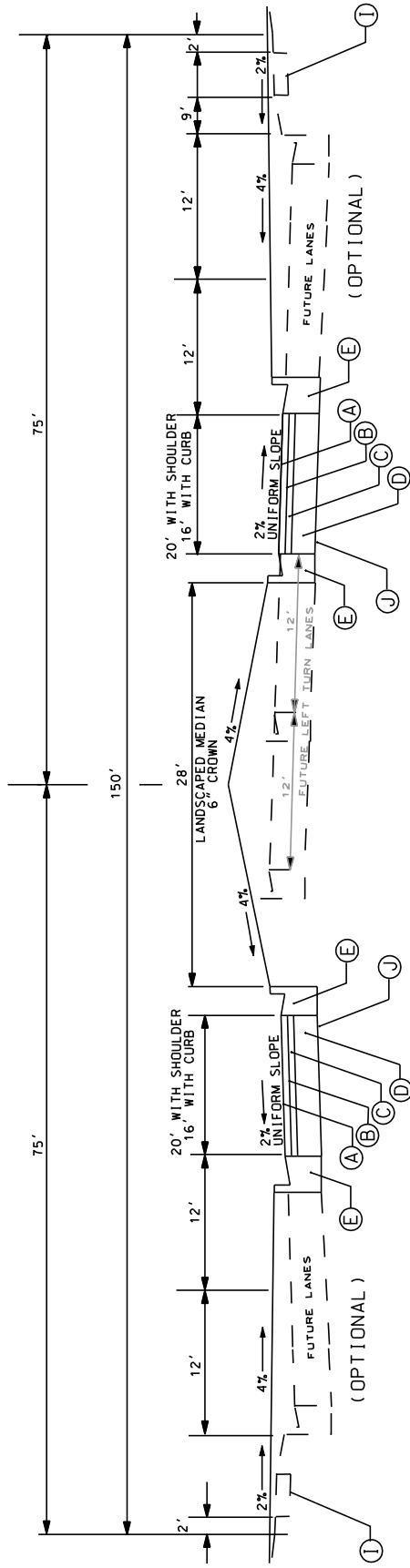
120' R.O.W.



- (A) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 1 1/2"
 - (B) BITUMINOUS MATERIALS (TACK COAT)
 - (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50, 3"
 - (D) BITUMINOUS BASE COURSE, 9"
 - (E) BARRIER CURB AND GUTTER, B.6-12
 - (F) PCC SIDEWALK, 5", SEE DETAIL
 - (G) PARKWAY RESTORATION
 - (H) STRIPING AND RAISED REFLECTIVE PAVEMENT MARKERS
 - (I) BIKEPATH, 2", SEE DETAIL
 - (J) AGGREGATE SUBBASE, TYPE B, 5 1/2"
 - (K) LIME STABILIZED SUB GRADE
- IN PLACE OF (A) TO (D)
PORTLAND CEMENT
CONCRETE PAVEMENT, 12"
AGGREGATE BASE COURSE,
TYPE B, 12"
- NOTES:
-MINIMUM D+ = 4.75
-MINIMUM SUPERPAVE N70

MINOOKA STANDARD

TYPICAL SECTION MAJOR ARTERIAL 15,000 TO 30,000 ADT



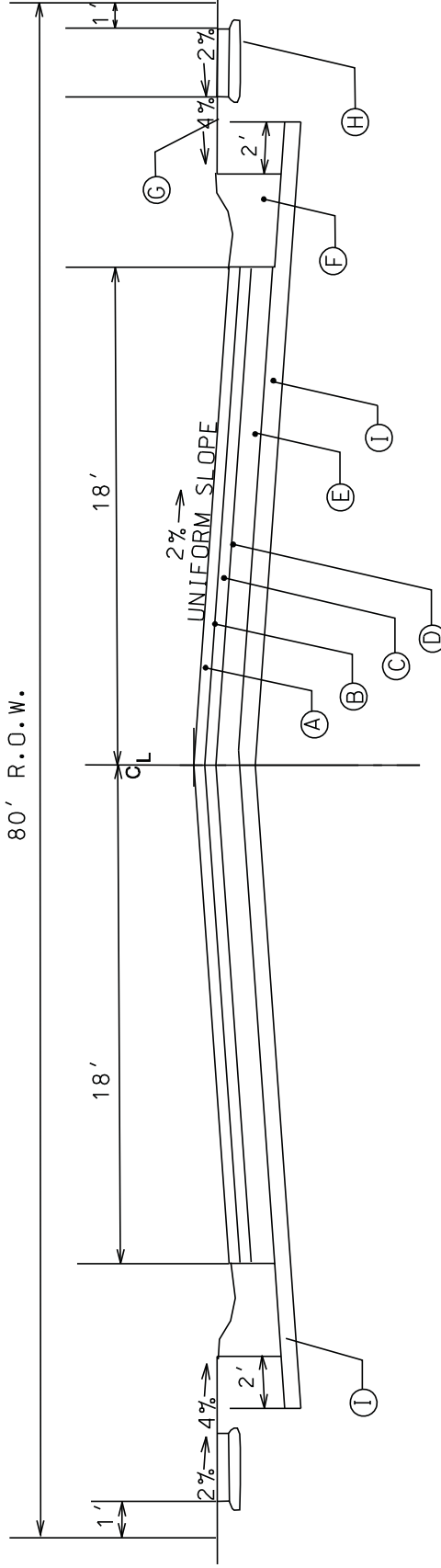
- (A) BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2"
- (B) BITUMINOUS MATERIALS (TACK COAT)
- (C) BITUMINOUS CONCRETE BINDER COURSE, 3"
- (D) BITUMINOUS BASE COURSE, 10"
- (E) BARRIER CURB AND GUTTER
- (F) SIDEWALK
- (G) PARKWAY RESTORATION
- (H) STRIPING
- (I) BIKEPATH
- (J) LIME STABILIZED SUB BASE

IN PLACE OF A.) TO D.)
 PORTLAND CEMENT
 CONCRETE PAVEMENT 12"
 AGGREGATE BASE COURSE,
 TYPE B 12"

-OR-

NOTES:
 -MINIMUM D+ = 5.1
 -MINIMUM SUPERPAVE N70

TYPICAL SECTION MULTI-FAMILY DEVELOPMENTS R-5 AND R-6 ZONING



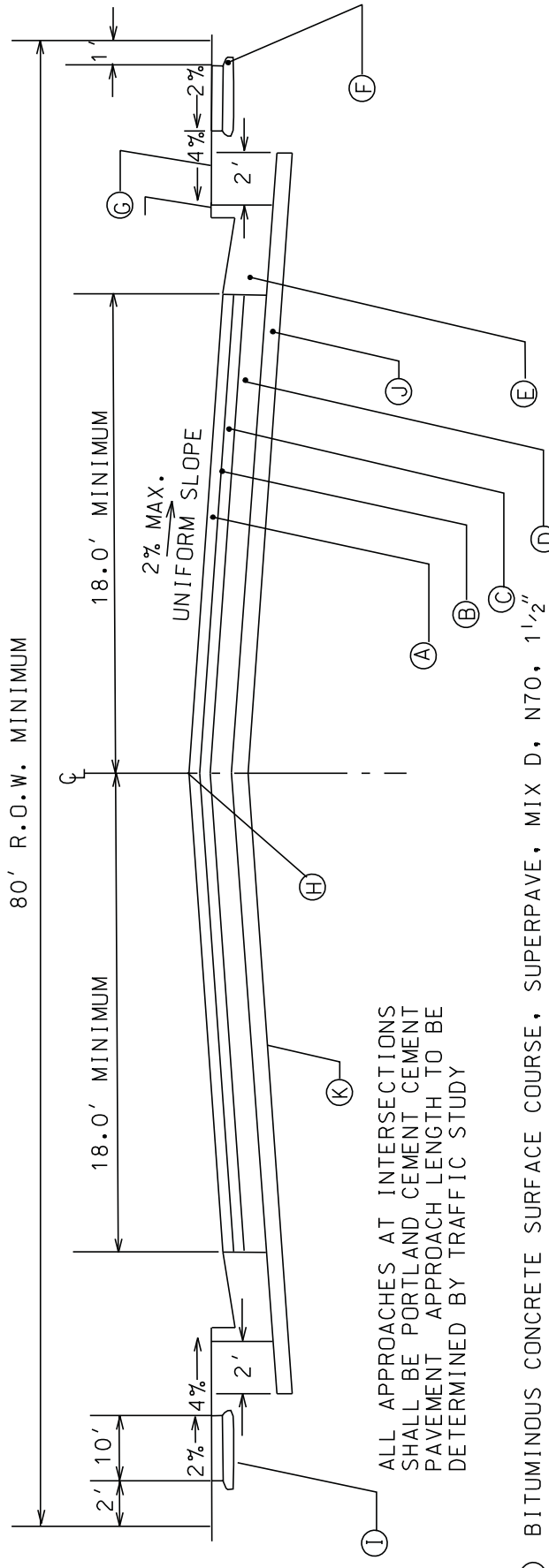
- Ⓐ BITUMINOUS CONCRETE SURFACE COURSE, 2 1/2"
- Ⓑ BITUMINOUS MATERIALS (TACK COAT)
- Ⓒ BITUMINOUS CONCRETE BINDER COURSE, 3 "
- Ⓓ BITUMINOUS MATERIALS (PRIME COAT)
- Ⓔ AGGREGATE BASE COURSE, TYPE B, 10"
- Ⓕ MOUNTABLE CURB AND GUTTER
- Ⓖ PARKWAY RESTORATION SIDEWALK
- Ⓗ AGGREGATE SUBBASE, TYPE B, 4 1/2"
- Ⓙ LIME STABILIZED SUBGRADE

IN PLACE OF Ⓐ TO Ⓔ
PORTLAND CEMENT
CONCRETE PAVEMENT, 6"
AGGREGATE BASE COURSE,
TYPE B, 4"

NOTES:

- MINIMUM DT = 3.1
- MINIMUM SUPERPAVE N=30

TYPICAL SECTION BUSINESS, MANUFACTURING, OFFICE



ALL APPROACHES AT INTERSECTIONS SHALL BE PORTLAND CEMENT PAVEMENT APPROACH LENGTH TO BE DETERMINED BY TRAFFIC STUDY

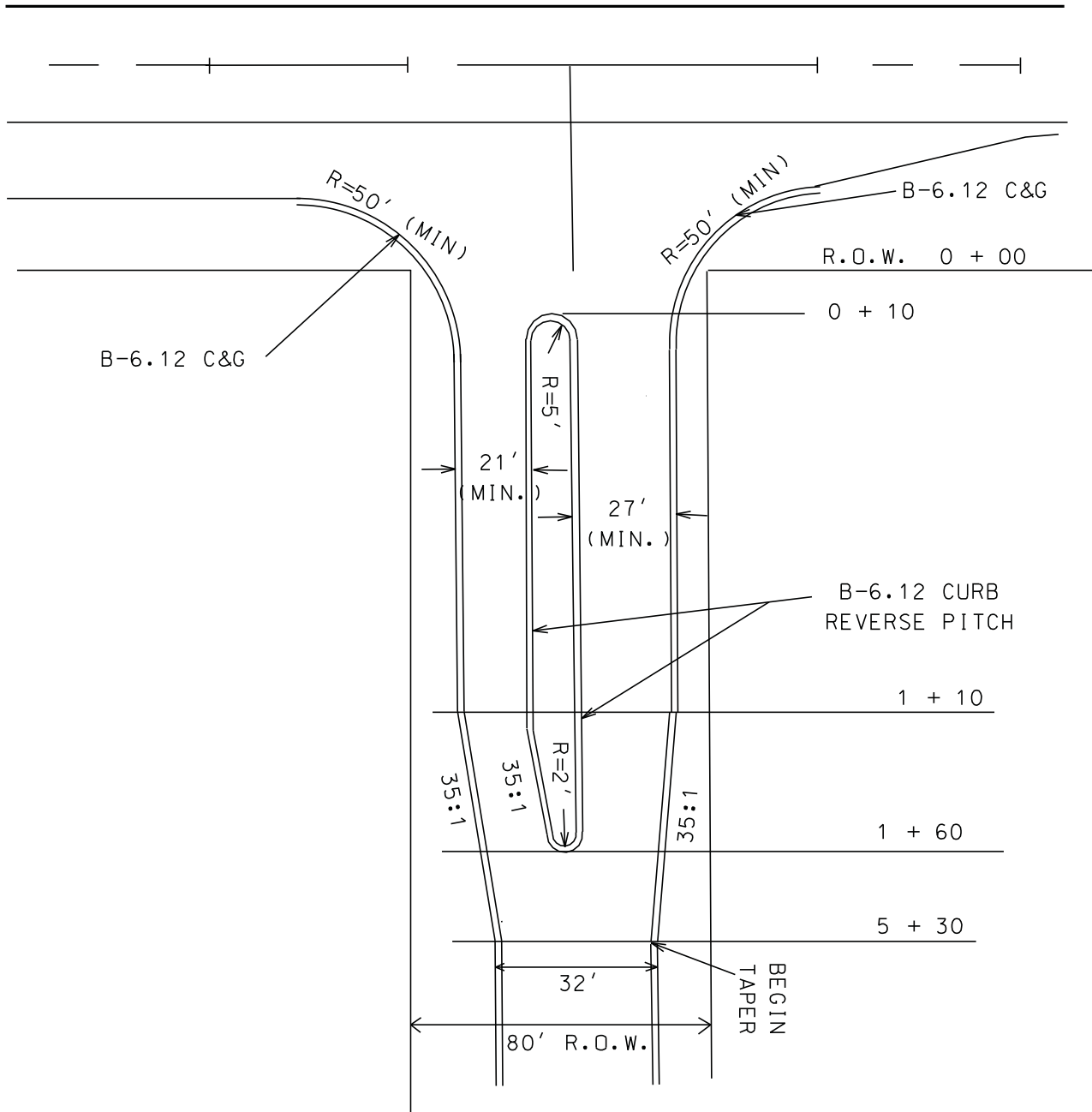
- (A) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1 1/2"
- (B) BITUMINOUS BINDER COURSE, SUPERPAVE, IL-19.0, N70, 3"
- (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70, 3"
- (D) BITUMINOUS BASE COURSE, 8"
- (E) BARRIER CURB AND GUTTER, B.6-12
- (F) PCC SIDEWALK, 5", SEE DETAIL
- (G) PARKWAY RESTORATION
- (H) STRIPING
- (I) BITUMINOUS BIKEPATH, 2", SEE DETAIL
- (J) 4" AGGREGATE SUBGRADE
- (K) LIME STABILIZED SUB BASE

IN PLACE OF A.) TO D.)
 PORTLAND CEMENT
 CONCRETE PAVEMENT, 10"
 AGGREGATE BASE COURSE,
 TYPE B, 12"

NOTES:
 -MINIMUM Dt = 4.5
 -MINIMUM SUPERPAVE N=70

MINOOKA STANDARD

BOULEVARD ENTRANCE NEIGHBORHOOD CONNECTOR

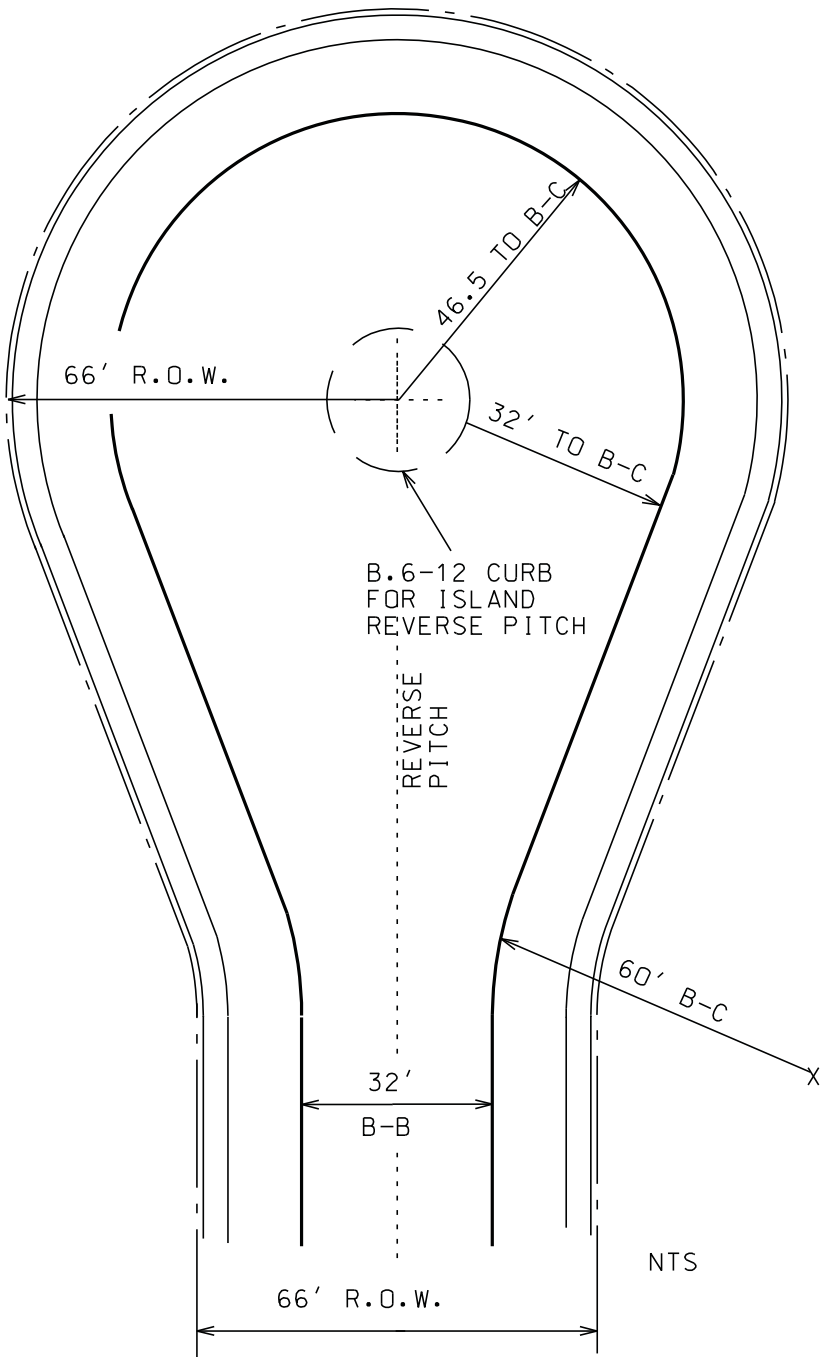


NOTE:
HORIZONTAL CURVES ARE NOT ALLOWED FROM STA 0+00 TO STA 5+30.

CUL-DE-SAC

NOTES:

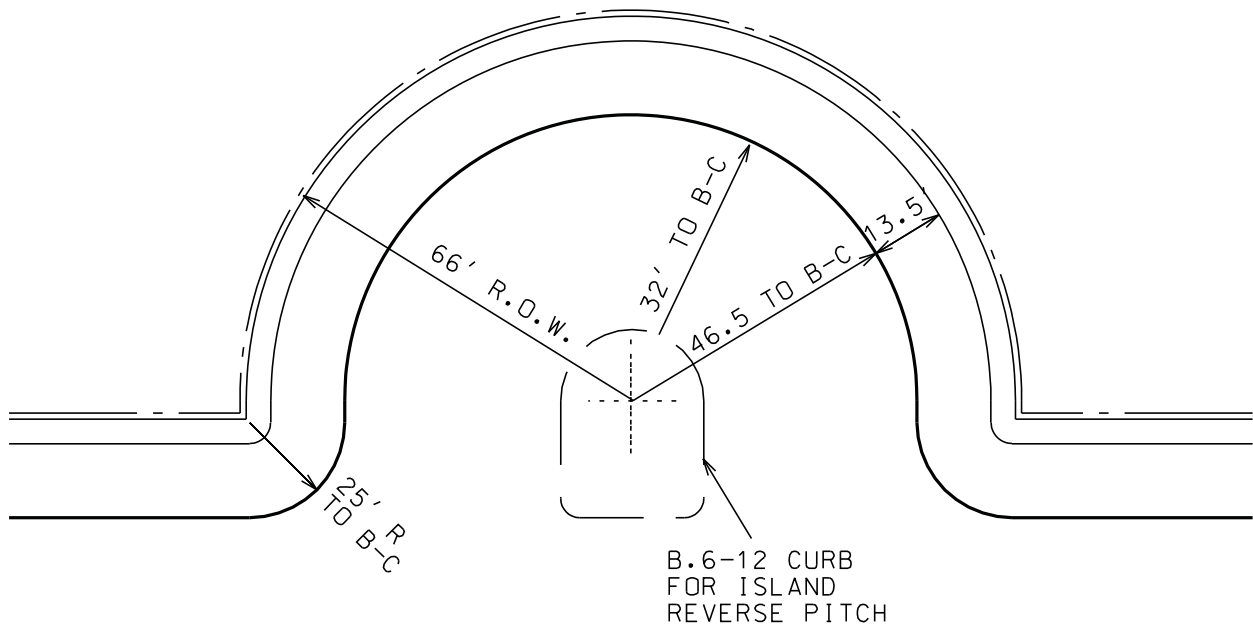
- 1.) MINIMUM PAVEMENT SLOPE 1/4" PER FT.
- 2.) MINIMUM 1.0% SLOPE ON CURB
- 3.) MAXIMUM 6.0% SLOPE ON CURB



KNUCKLE

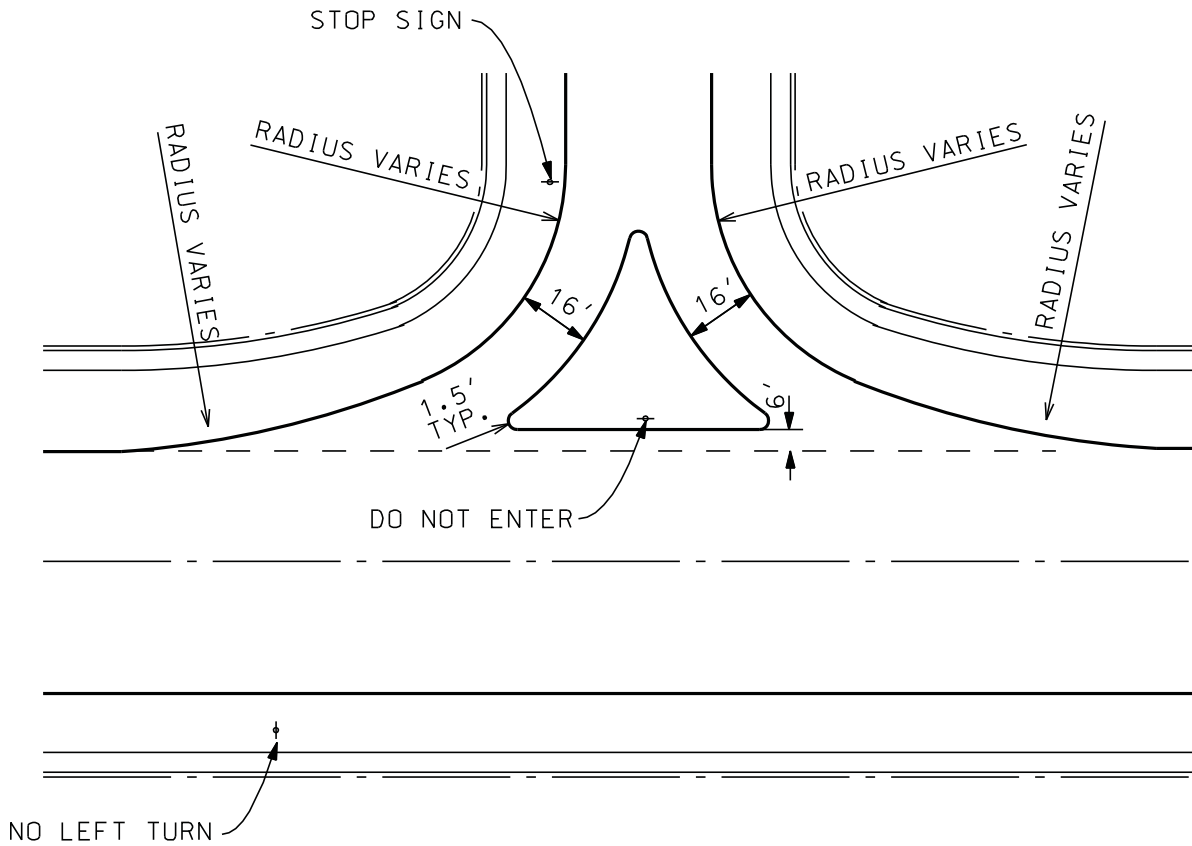
NOTES:

- 1.) MINIMUM PAVEMENT SLOPE $\frac{1}{4}$ " PER FT.
- 2.) MINIMUM 1.0% SLOPE ON CURB
- 3.) MAXIMUM 6.0% SLOPE ON CURB



NTS

RIGHT IN / RIGHT OUT

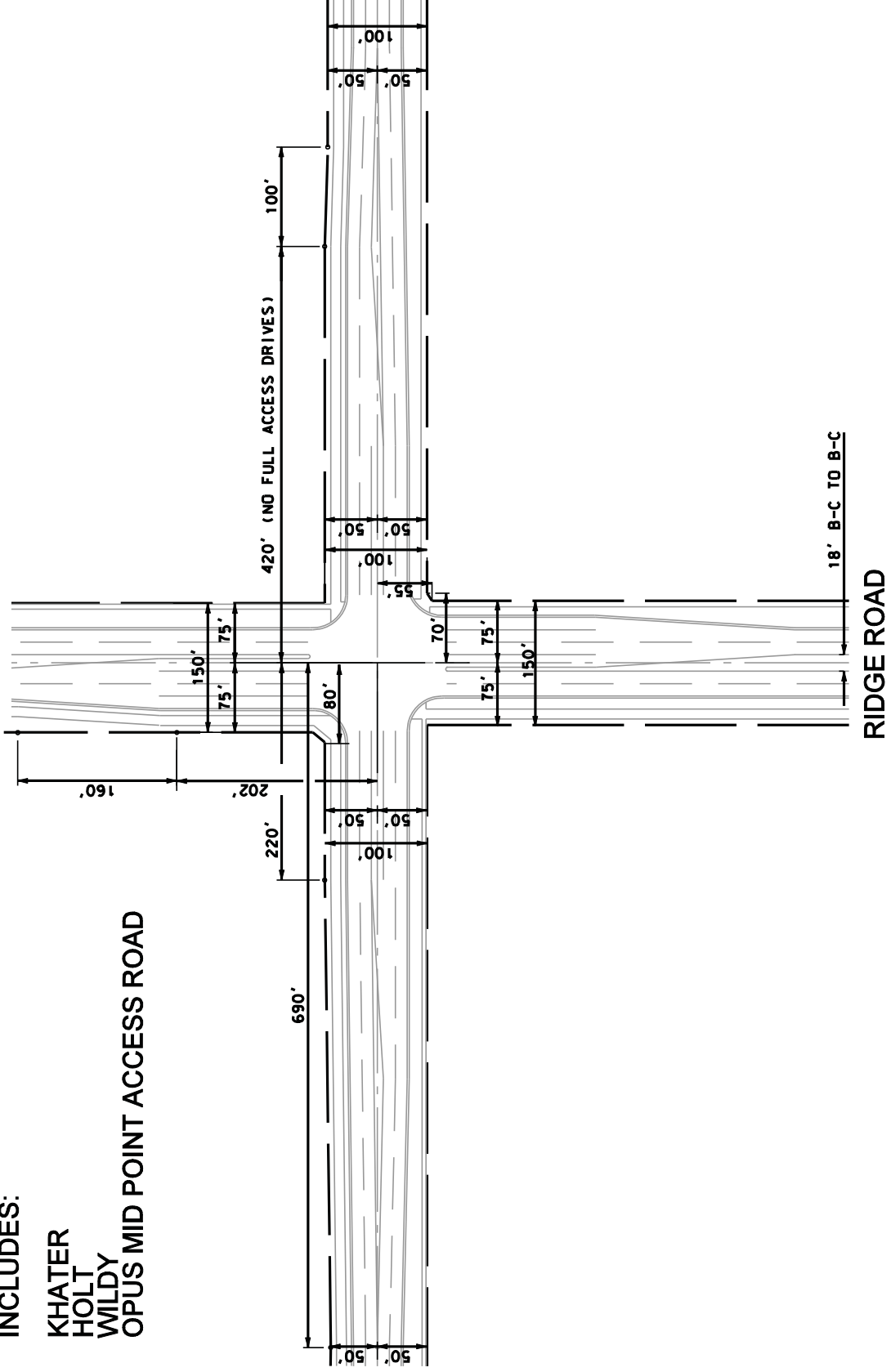


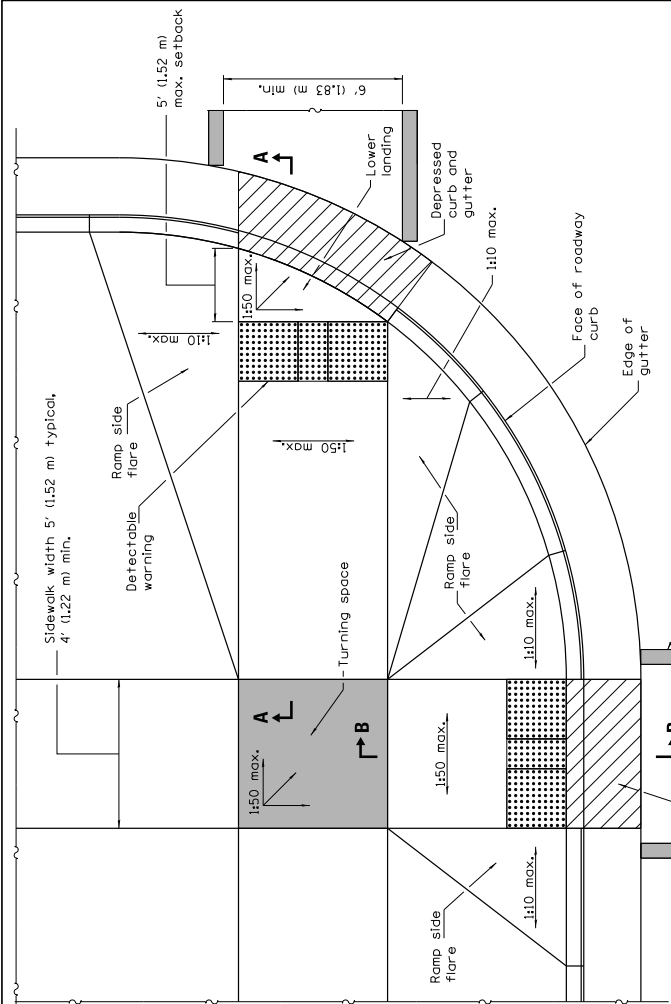
NTS

RIDGE ROAD CORRIDOR ROW REQUIREMENTS (WIKADUKE)

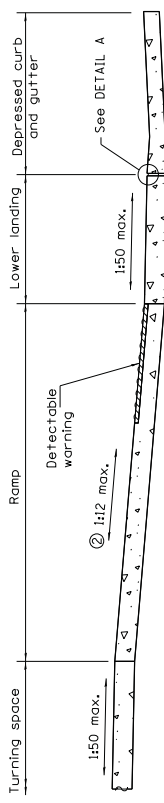
INCLUDES:

- KHATER**
- HOLT**
- WILDY**
- OPUS MID POINT ACCESS ROAD**



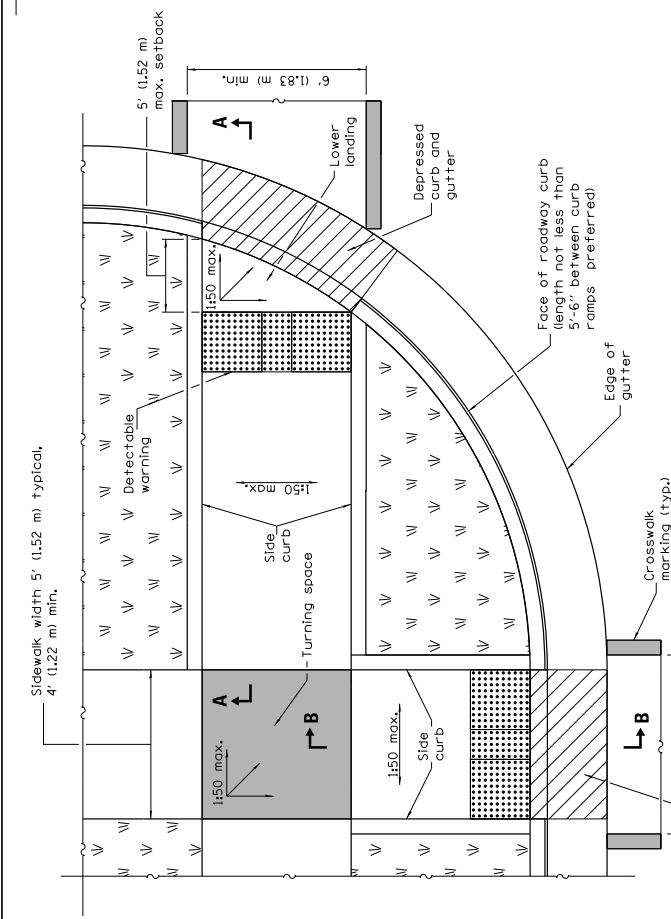


RAMPS IN LANDSCAPED AREA
SETBACK ≤ 5'

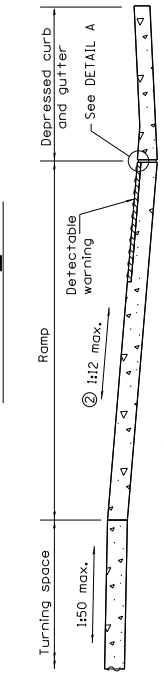


SECTION A-A

② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).

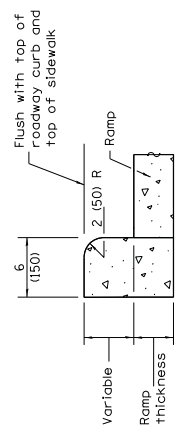


RAMPS IN PAVED AREA
SETBACK ≤ 5'

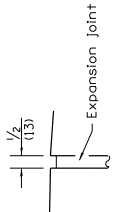


SECTION B-B

② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).



SIDE CURB DETAIL



DETAIL A

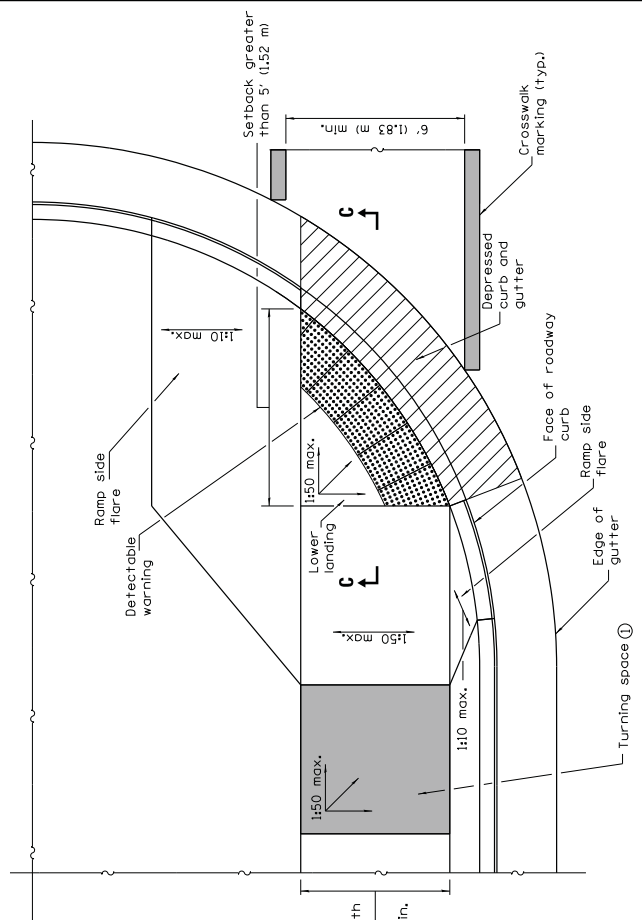
See Sheet 2 For GENERAL NOTES.

DATE	REVISIONS
1-1-15	① not appl. to int. sidewalks. Rev. gen. notes. Ch'd upper landing to Turning space.
1-1-13	② Widened crosswalk markings to 6' (1.83 m) min. inside dimension. Rev. Gen. Notes.

PERPENDICULAR CURB RAMPS FOR SIDEWALKS
 (Sheet 1 of 2)
STANDARD 424001-08

Illinois Department of Transportation
 PASSED JANUARY 1, 2015
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED JANUARY 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

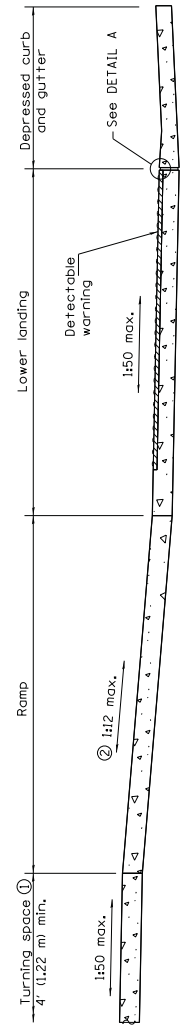


RAMP IN LANDSCAPED AREA

SETBACK > 5'

RAMP IN PAVED AREA

SETBACK > 5'



SECTION C-C

- ① Turning space not required for ramp slopes flatter than 1:20.
- ② The running slope of the curb ramp shall not require the ramp length to exceed 15' (4.5 m).

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
 PASSED JANUARY 1, 2015
 Michael Board
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED JANUARY 1, 2015
 ENGINEER OF DESIGN AND ENVIRONMENT

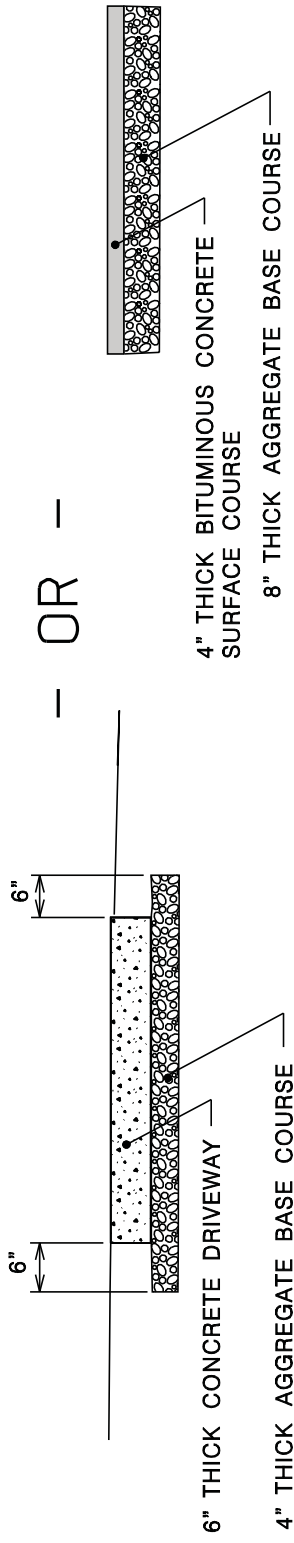
PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 2 of 2)

STANDARD 424001-08

ISSUED 1-1-97

DRIVEWAY



NOTES:

- 1.) CONCRETE SHALL BE CLASS "SI."
- 2.) BITUMINOUS SURFACE COURSE SHALL BE MIX C, CLASS I, TYPE 2
- 3.) AGGREGATE BASE COURSE SHALL BE CM-6.
- 4.) CASTINGS SHALL NOT BE CAST INTO DRIVEWAY.
CASTINGS SHALL BE RELOCATED OUT OF DRIVEWAY BEFORE THE DRIVEWAY IS POURED.
- 5.) PREMOULDED EXPANSION JOINTS SHALL BE PROVIDED AGAINST SIDEWALK AND CURB AND GUTTERS.
- 6.) BARRIER CURB AND GUTTER SHALL BE DEPRESSED AT DRIVEWAYS. BARRIER CURB AND GUTTER SHALL BE DEPRESSED AT DRIVEWAYS. A 3' TRANSITION FROM FULL BARRIER TO FULL DEPRESSION SHALL BE PROVIDED ON EACH SIDE OF THE DRIVEWAY.
- 7.) MOUNTABLE CURB SHALL NOT BE CUT TO ACCOMMODATE DRIVEWAY.
- 8.) 6 X 6, 10 X 10 WELDED WIRE FABRIC SHALL BE USED IN DRIVEWAY.
- 9.) FIBER MESH WILL BE ALLOWED IF APPROVED PRIOR TO POUR

