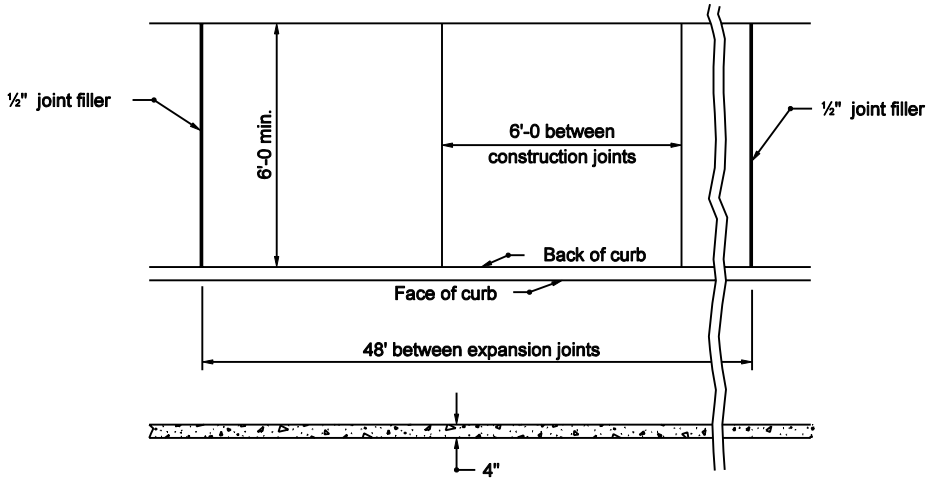
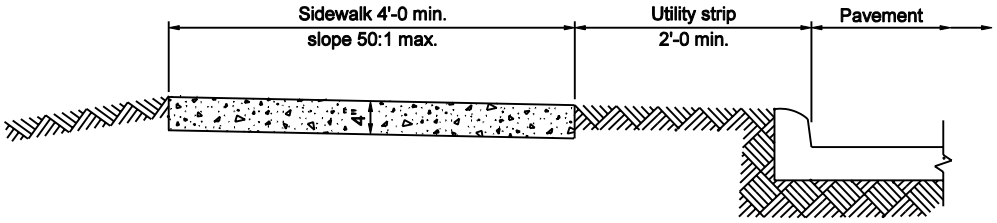
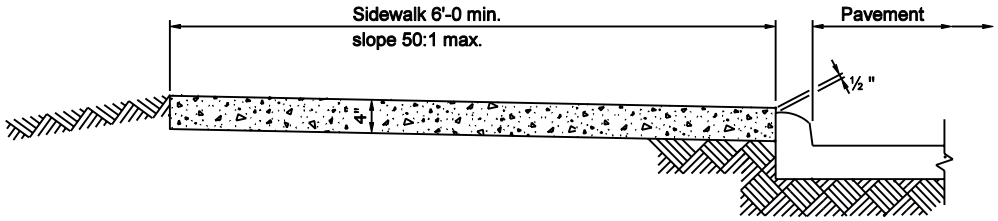


SIDEWALK



SECTION THROUGH SIDEWALK
WITH UTILITY STRIP



SECTION THROUGH SIDEWALK
ADJACENT TO CURB

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAILS

SEPTEMBER 2003

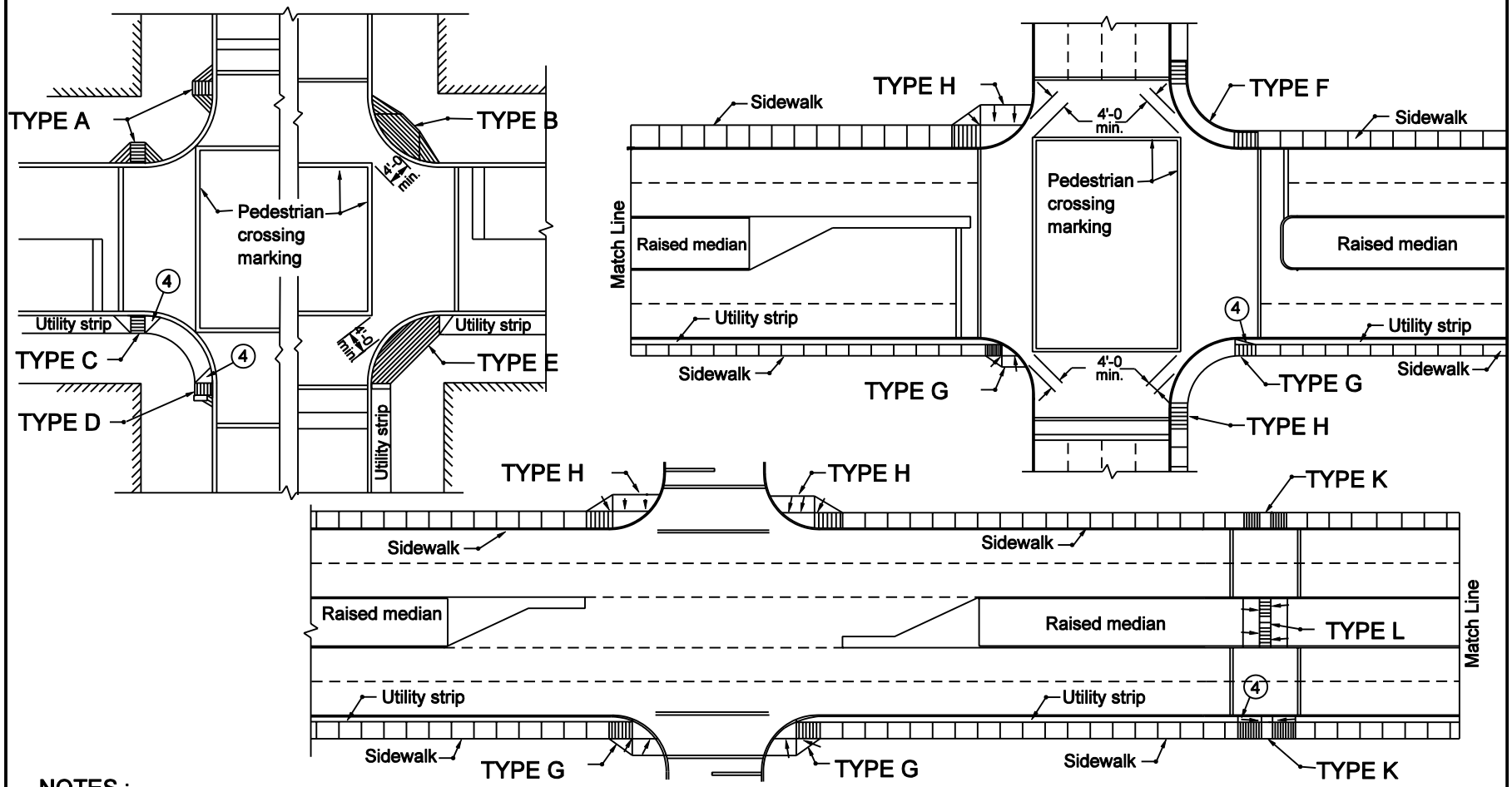
STANDARD DRAWING NO. E 604-SDWK-01

RICHARD L. VanCLEAVE
REGISTERED
No. 9750
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE



NOTES :

1. The curb ramp type includes the ramp and flared sides as indicated by the hatched lines on the details. A top level landing for every curb ramp shall be provided.
2. For details of sidewalk curb types see Standard Drawings E 604-SWCR-03 to -11.
3. The curb ramps shall be placed within the marked crosswalk area.

④ Flared side of sidewalk curb ramp next to utility strip shall be sodded.

5. See Standard Drawings E 604-SWCR-02 for General Notes.

INDIANA DEPARTMENT OF TRANSPORTATION

LOCATION PLAN FOR SIDEWALK CURB RAMPS

SEPTEMBER 2003

STANDARD DRAWING NO. E 604-SWCR-01

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

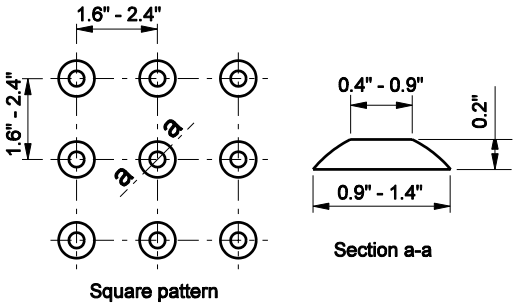
DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich 9-02-03
DESIGN STANDARDS ENGINEER DATE

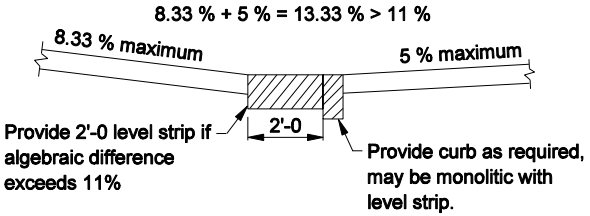
/s/ Richard K. Smutzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE

GENERAL NOTES :

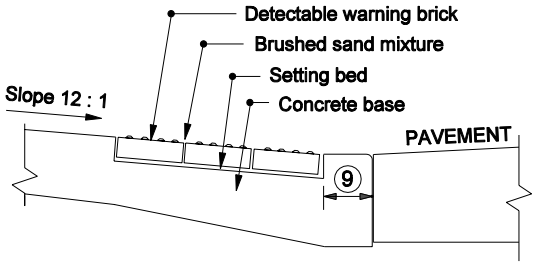
1. These dimensions are based on a 6 in. curb height. They shall be proportionally adjusted for other curb heights.
2. Where site infeasibility precludes construction to the width shown, such width may be decreased to a minimum of 3'-0.
3. The bottom edge of the curb ramp shall be flush with the edge of adjacent pavement and gutter line.
4. Landing areas at the top of curb ramps shall have maximum cross slope of 50 : 1 in any direction. When site infeasibility precludes a landing slope of 50 : 1 in any direction, the slope perpendicular to the curb face shall not exceed 50 :1.
5. If site infeasibility precludes construction to the width shown, the landing width may be decreased to 3'-0 minimum. The running slope of the curb ramp may be steepened to a maximum of 10 : 1 for a maximum 6 in. rise.
6. Drainage inlets should be located uphill from curb ramps to prevent puddles at the path of travel.
7. See Standard Drawing E 604-SWCR-12 for improved access on narrow sidewalks.
8. Algebraic difference in grade between the base of curb ramp and the gutter shall be limited to less than 11%. If it is not practical, a 2'-0 wide level strip shall be provided. See detail sketch.
9. The detectable warning surface shall be located so that the near edge to the curb line is 6" min. and 8" max.



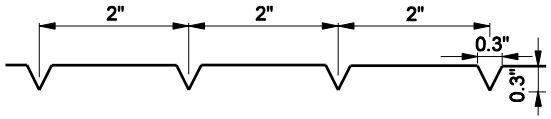
TRUNCATED DOMES USED IN DETECTABLE WARNINGS



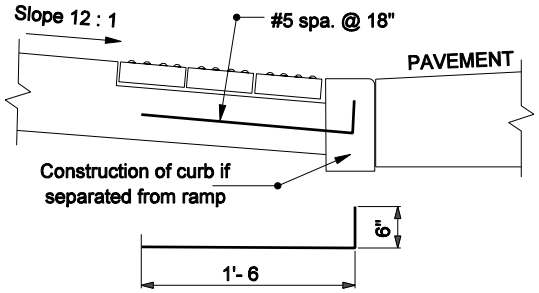
CHANGE OF GRADE



BRICK SURFACE CONSTRUCTION



DETAIL OF RAMP GROOVES



#5 x 2'- 0

ALTERNATE CURB CONSTRUCTION

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMPS
GENERAL NOTES & DETAILS

MARCH 2005

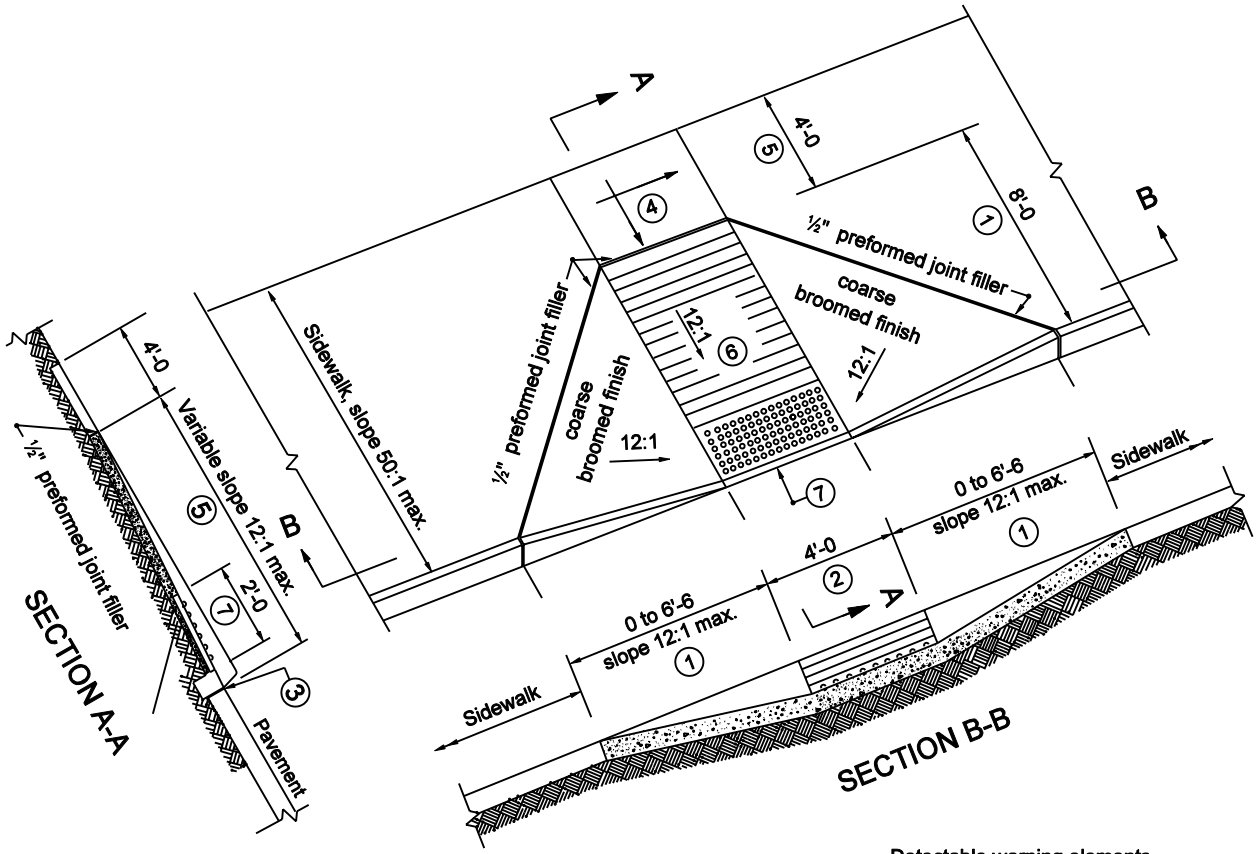
STANDARD DRAWING NO. E 604-SWCR-02

RICHARD L. VanCLEAVE REGISTERED No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

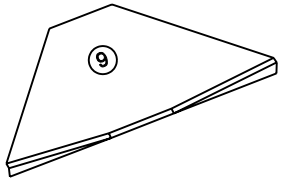
/s/ Richard L. VanCleave 3-01-05
DESIGN STANDARDS ENGINEER DATE

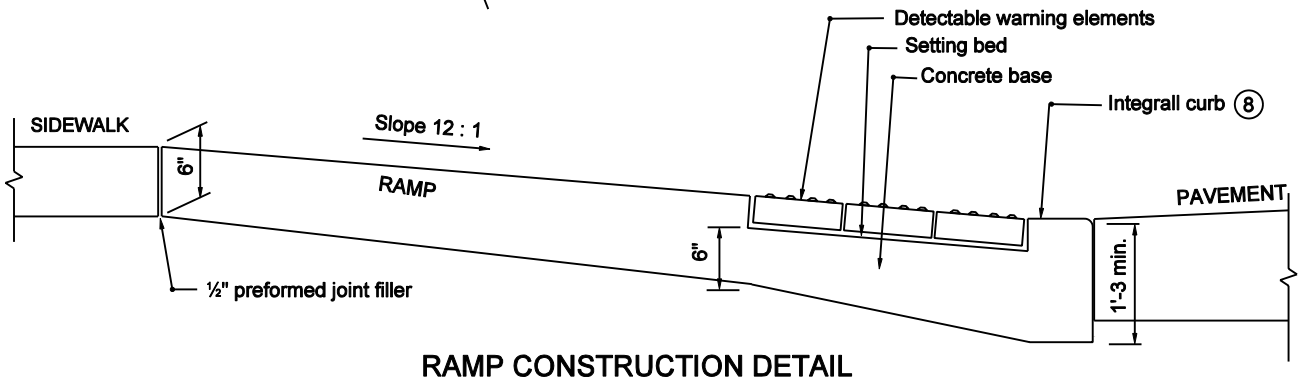
/s/ Richard K. Smutzer 3-01-05
CHIEF HIGHWAY ENGINEER DATE



NOTES :

6. See Standard Drawing E 604-SWCR-02 for groove details.
7. See Standard Drawing E 604-SWCR-02 for details of the detectable warning.
8. See Standard Drawing E 604-SWCR-02 for alternate curb construction.
9. Indicated area denotes pay limits.
10. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.





RAMP CONSTRUCTION DETAIL

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMP TYPE A

SEPTEMBER 2003

STANDARD DRAWING NO. E 604-SWCR-03

REGISTERED ANTHONY L. UREMOVICH No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich — DESIGN STANDARDS ENGINEER — 9-02-03 DATE

/s/ Richard L. Sumtzer — CHIEF HIGHWAY ENGINEER — 9-02-03 DATE

NOTES :

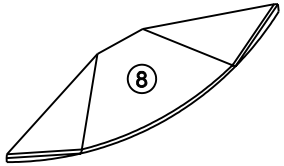
⑥ See Standard Drawing E 604-SWCR-02 for groove details.

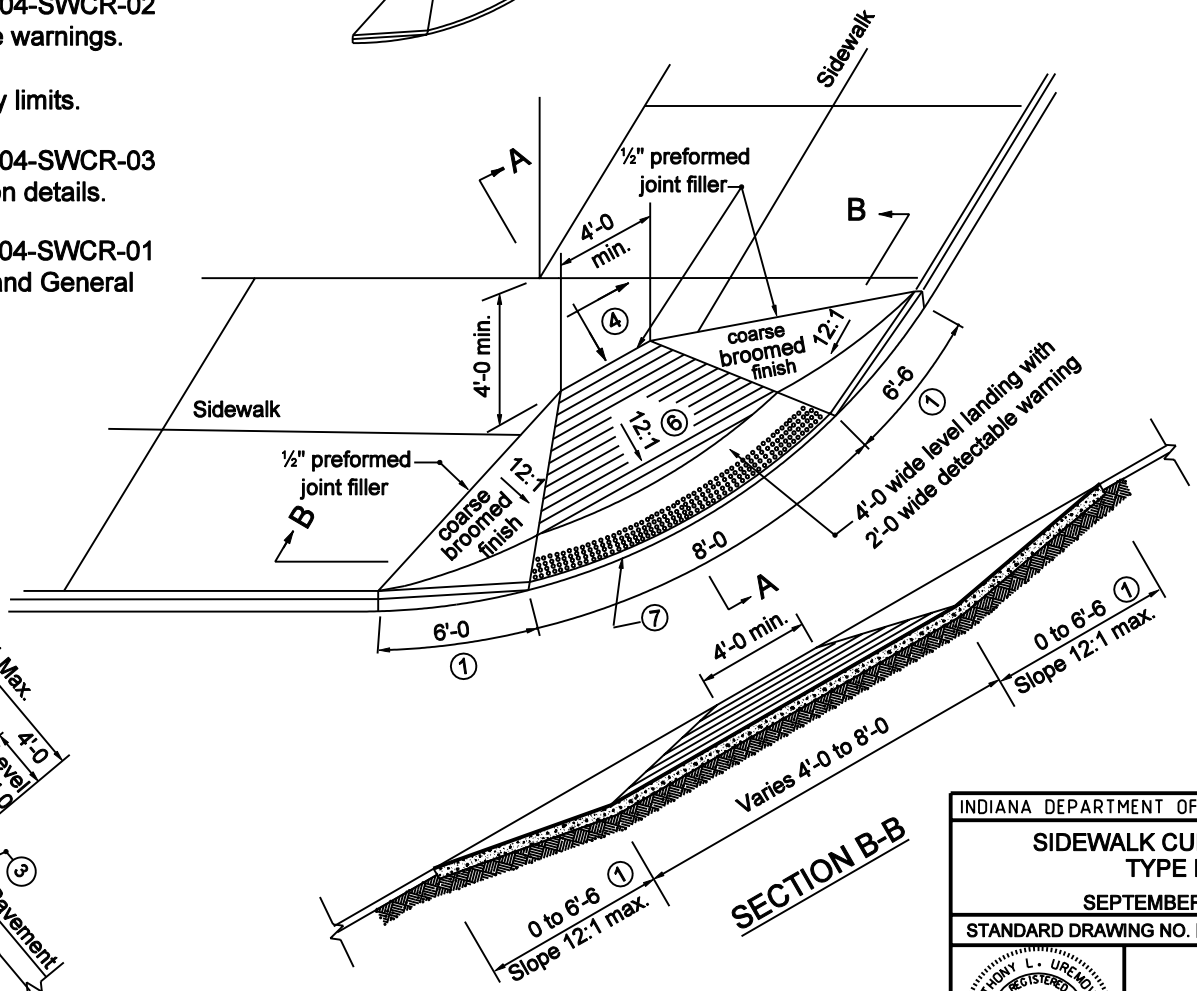
⑦ See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.

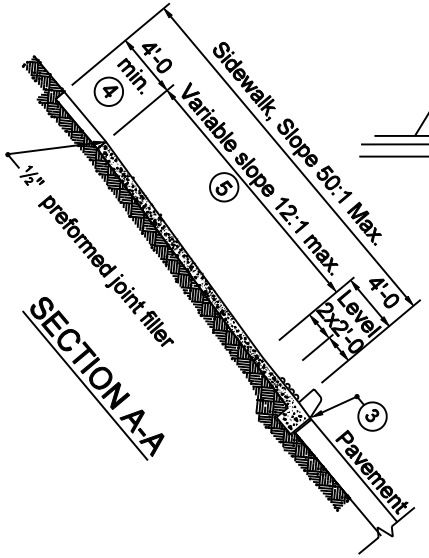
⑧ Indicated area denotes pay limits.

9. See Standard Drawing E 604-SWCR-03 for typical ramp construction details.

10. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.







INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMP TYPE B

SEPTEMBER 2003

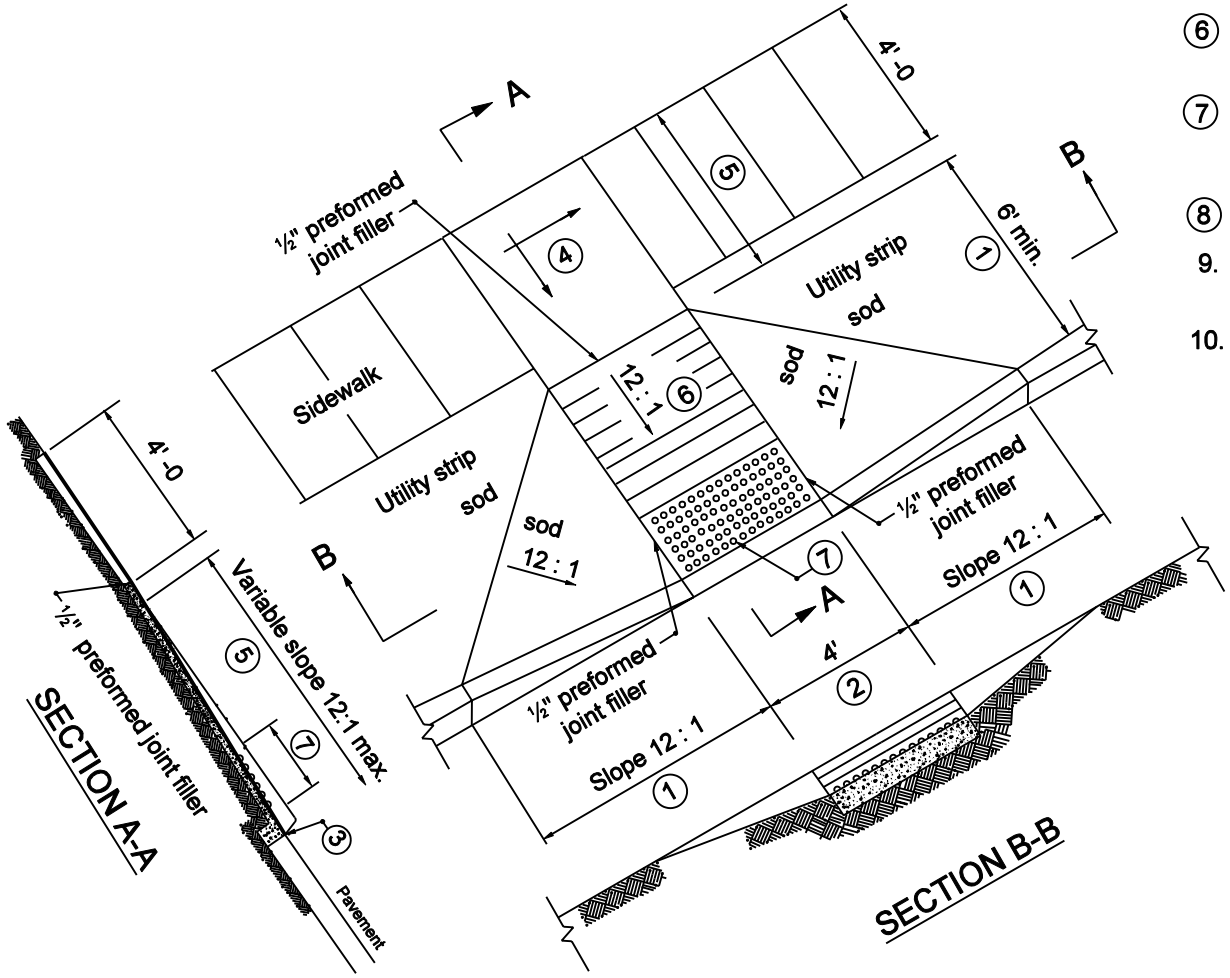
STANDARD DRAWING NO. E 604-SWCR-04

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard L. Sumitzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE



NOTES :

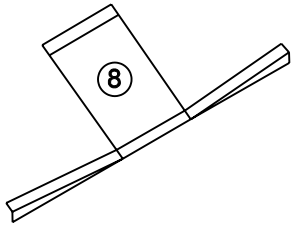
⑥ See Standard Drawing E 604-SWCR-02 for groove details.

⑦ See Standard Drawing E 604-SWCR-02 for details of the detectable warning surface.

⑧ Indicated area denotes pay limits.

9. See Standard Drawing E 604-SWCR-03 for typical ramp construction details.

10. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.



INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMPS
TYPE C

SEPTEMBER 2003

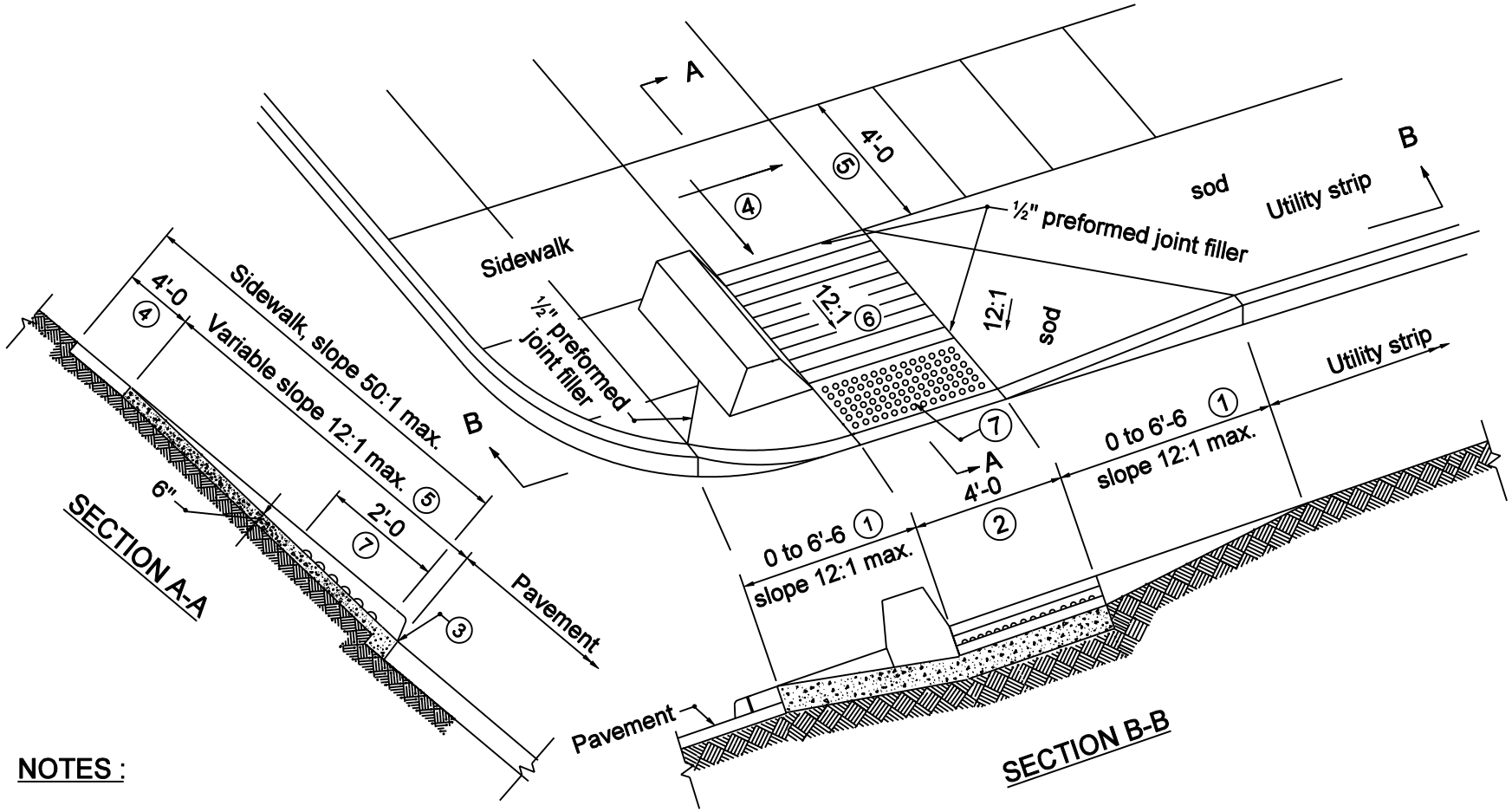
STANDARD DRAWING NO. E 604-SWCR-05

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard L. Sumitzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE



NOTES :

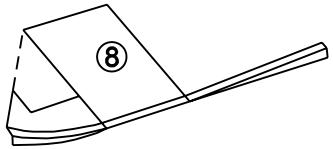
⑥ See Standard Drawing E 604-SWCR-02 for groove details.

⑦ See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.

⑧ Indicated area denotes pay limits.

9. See Standard Drawing E 604-SWCR-03 for typical ramp construction details.

10. See Standard Drawing E 604-SWCR-01 and -02 for Plan Location and General Notes respectively.



INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP CURB
TYPE D

SEPTEMBER 2003

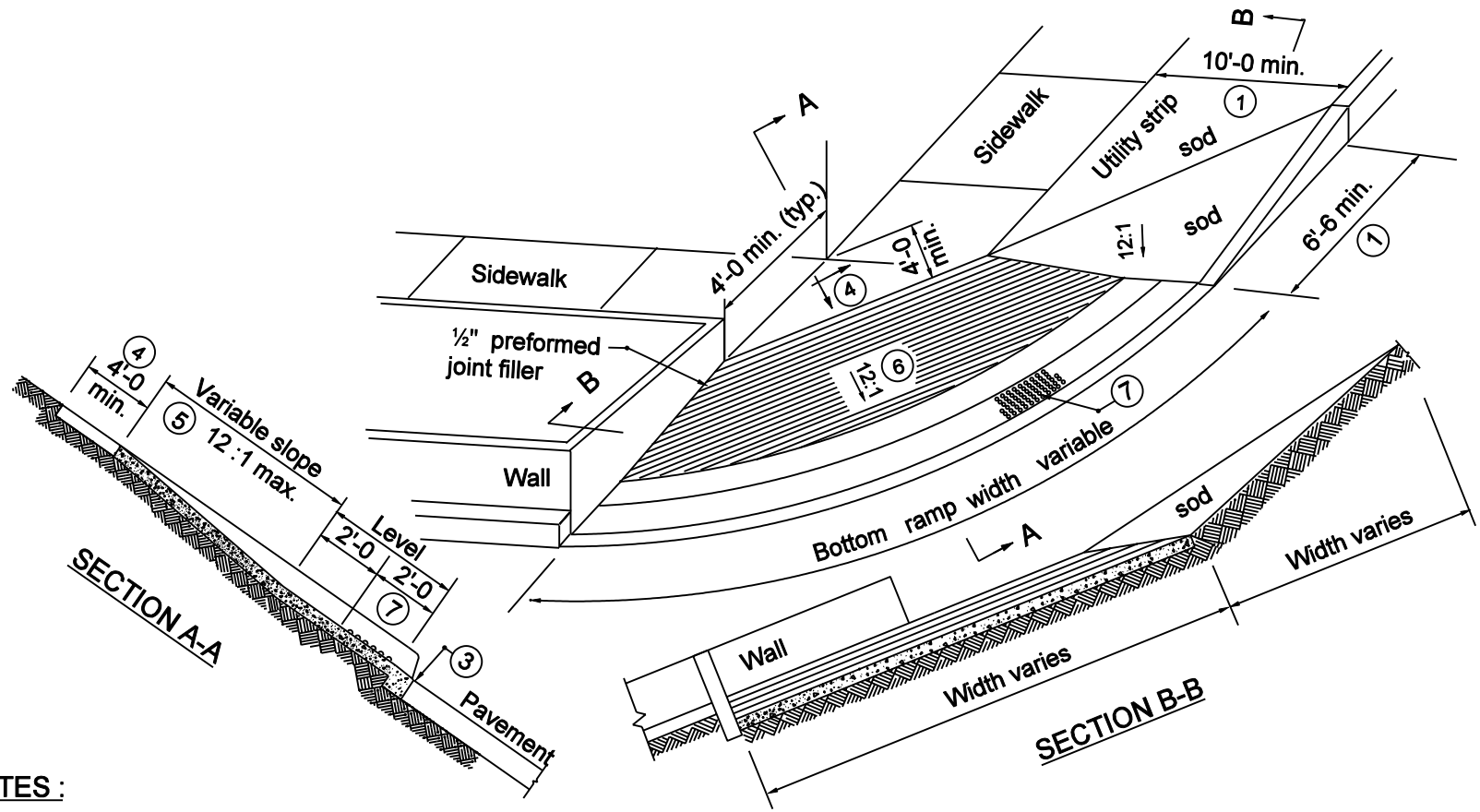
STANDARD DRAWING NO. E 604-SWCR-06

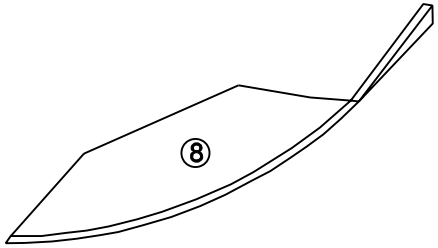
ANTHONY L. UREMOVICH REGISTERED NO. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard L. Sumtzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE





NOTES :

6. See Standard Drawing E 604-SWCR-02 for groove details.
7. See Standard Drawing E 604-SWCR-02 for details of detectable warning surface.
8. Indicated area denotes pay limits.
9. See Standard Drawing E 604-SWCR-03 for typical ramp construction details.
10. See Standard Drawing E 604-SWCR-01 and -02 for Plan Location and General Notes respectively.

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMPS
TYPE E

SEPTEMBER 2003

STANDARD DRAWING NO. E 604-SWCR-07

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L.Uremovich 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K.Smutzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE

NOTES :

(6) See Standard Drawing E 604-SWCR-02 for groove details.

(7) See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.

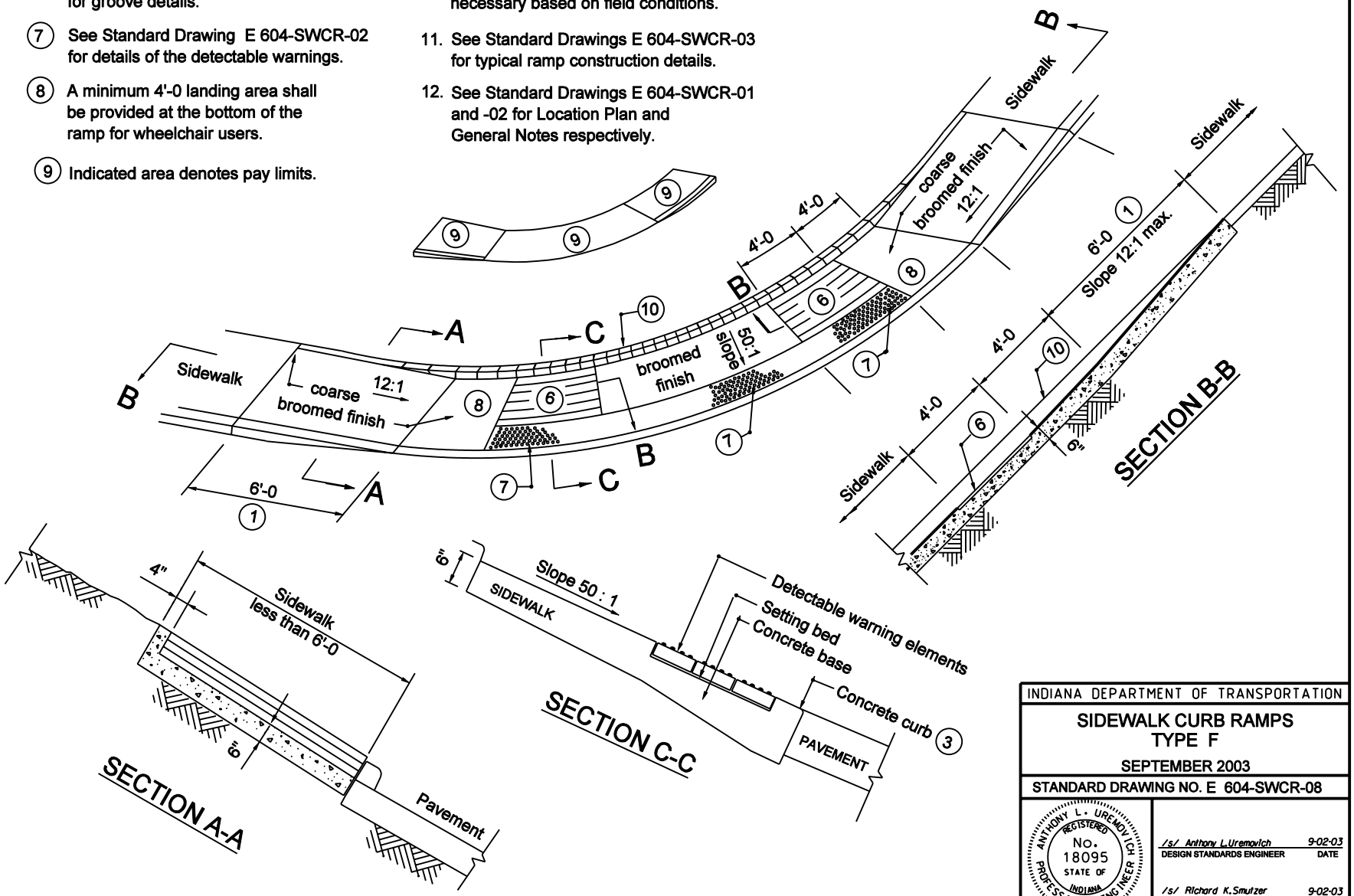
(8) A minimum 4'-0 landing area shall be provided at the bottom of the ramp for wheelchair users.

(9) Indicated area denotes pay limits.

(10) Curb or wall shall be used when necessary based on field conditions.

11. See Standard Drawings E 604-SWCR-03 for typical ramp construction details.

12. See Standard Drawings E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.



INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMPS
TYPE F

SEPTEMBER 2003

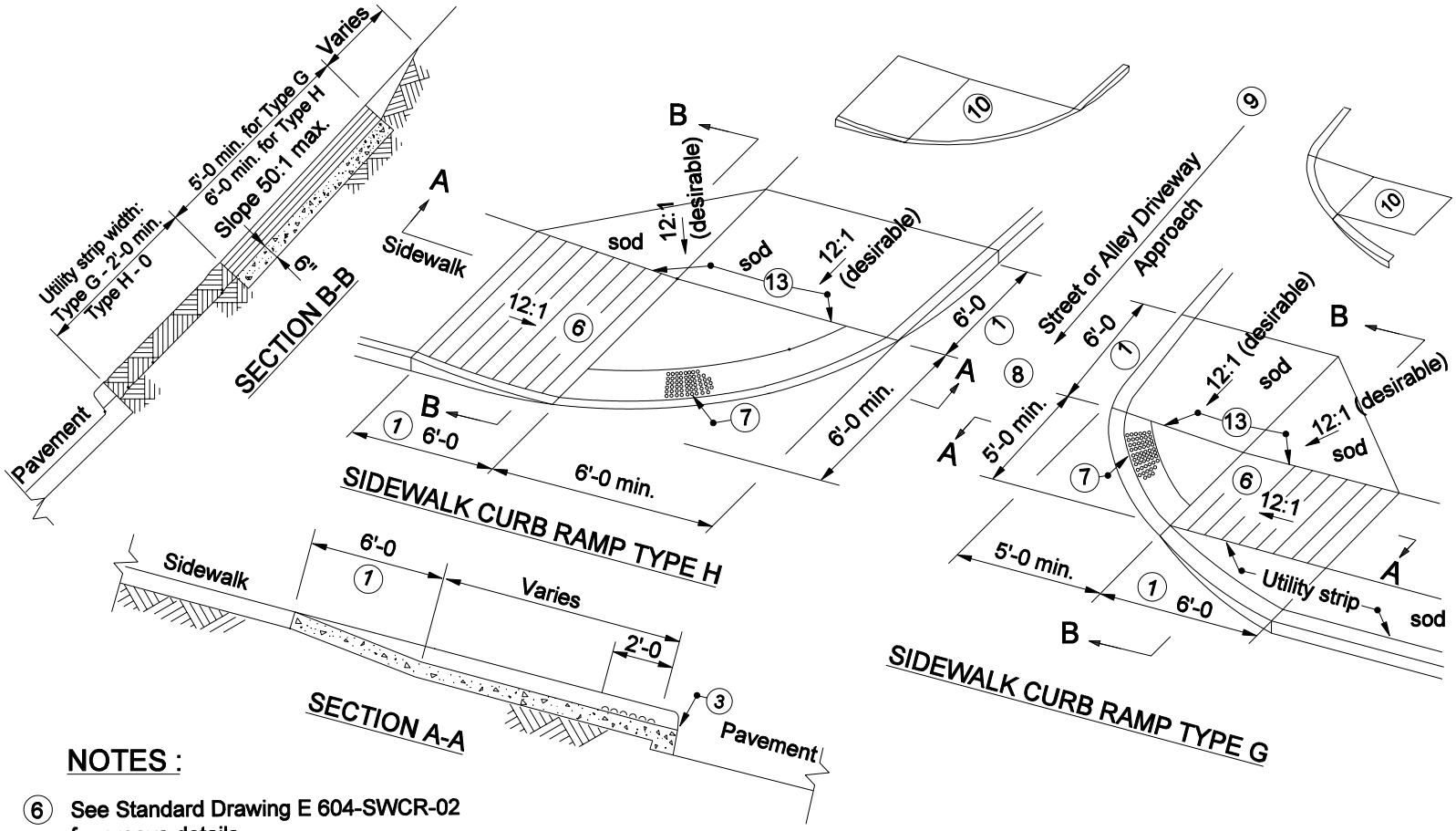
STANDARD DRAWING NO. E 604-SWCR-08

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich — 9-02-03
DESIGN STANDARDS ENGINEER — DATE

/s/ Richard K. Smutzer — 9-02-03
CHIEF HIGHWAY ENGINEER — DATE



NOTES :

(6) See Standard Drawing E 604-SWCR-02 for groove details.

(7) See Standard Drawings E 604-SWCR-02 for details of the detectable warning surface.

(8) Sidewalk across approach shall be sloped at 50:1 maximum transversely.

(9) In case of concrete driveway there will be no curbs present. This side shall be adjusted accordingly.

(10) Indicated area denotes pay limits.

11. See Standard Drawing E 604-SWCR-03 for typical ramp construction details.

12. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.

(13) Vertical face curb optional.

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB'S RAMP'S TYPE G AND TYPE H

MARCH 2005

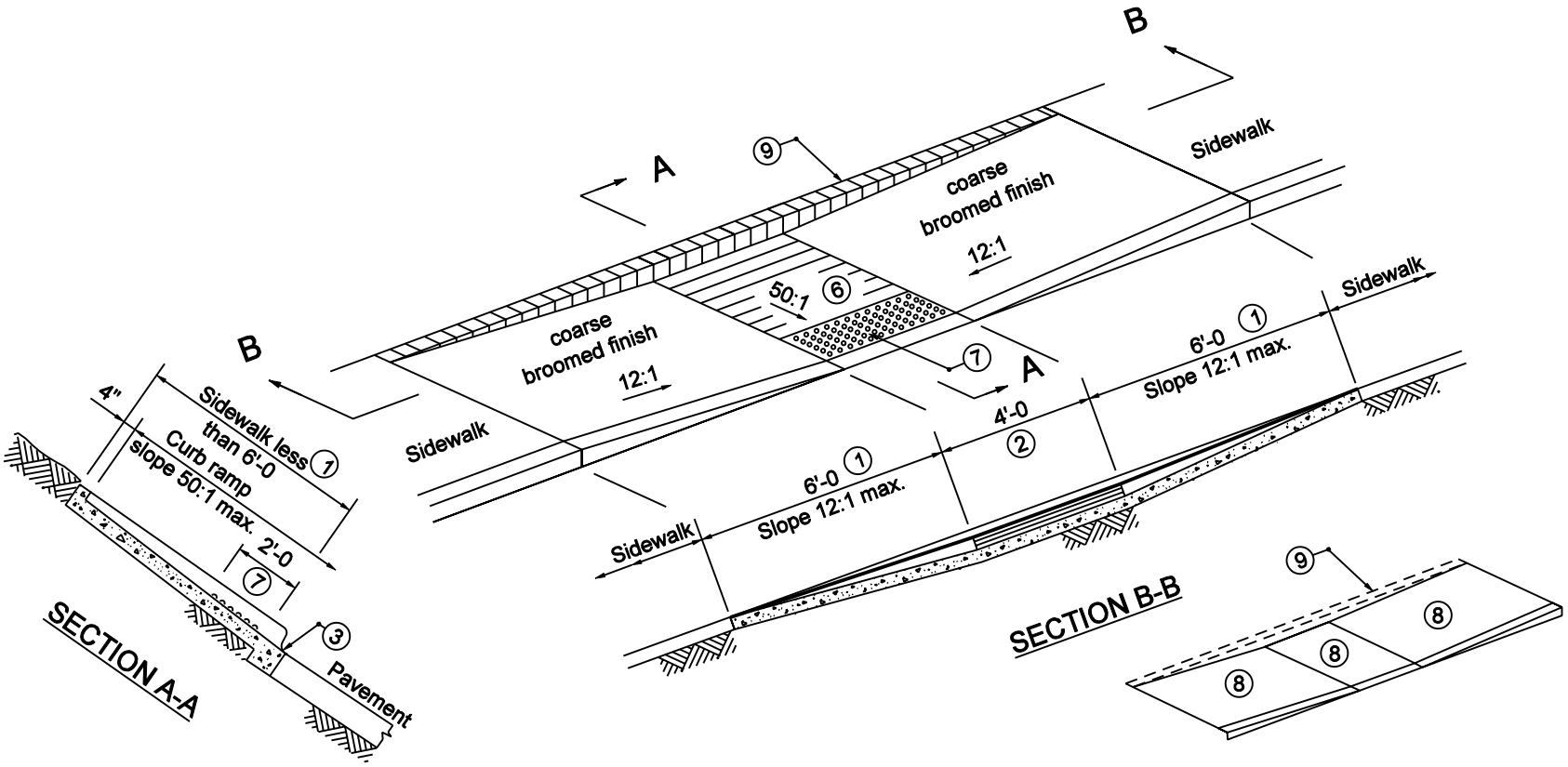
STANDARD DRAWING NO. E 604-SWCR-09

REGISTERED RICHARD L. VanCLEAVE No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 3-01-05
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 3-01-05
CHIEF HIGHWAY ENGINEER DATE



NOTES :

⑥ See Standard Drawing E 604-SWCR-02 for groove details.

⑦ See Standard Drawing E 604-SWCR-02 for details of detectable warnings surface.

⑧ Indicated area denotes pay limits

⑨ Curb optional. Shall be used when necessary based on field conditions.

10. See Standard Drawing E 604-SWCR-03 for typical ramp construction details.

11. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMP
TYPE K

SEPTEMBER 2003

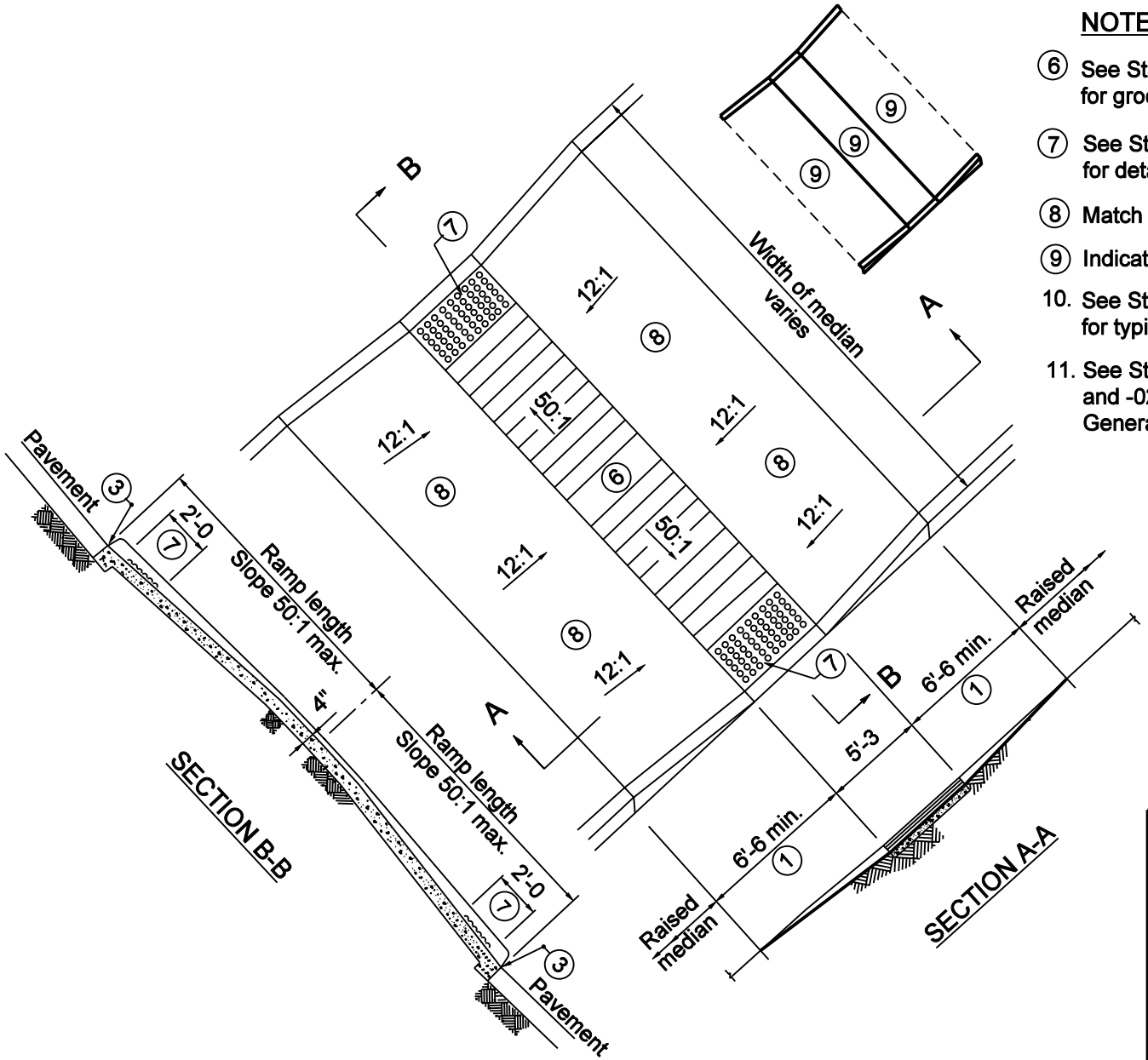
STANDARD DRAWING NO. E 604-SWCR-10

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L.Uremovich 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K.Smutzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE



NOTES :

6. See Standard Drawing E 604-SWCR-02 for groove details.
7. See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.
8. Match material in place.
9. Indicated area denotes pay limits.
10. See Standard Drawing E 604-SWCR-03 for typical ramp construction details.
11. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMPS
TYPE L

SEPTEMBER 2003

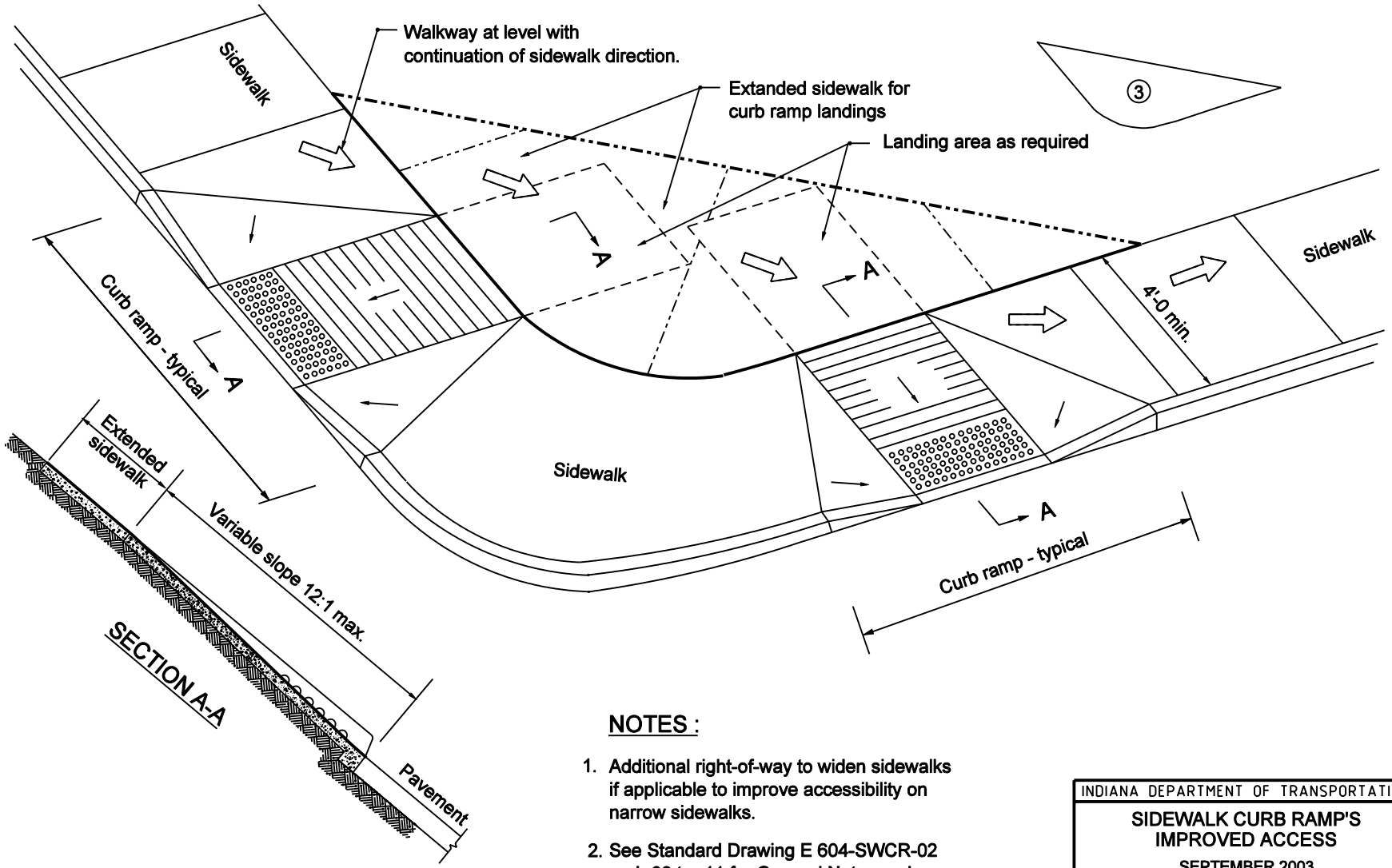
STANDARD DRAWING NO. E 604-SWCR-11

ANTHONY L. UREMOVICH
REGISTERED
No. 18095
STATE OF INDIANA
PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L.Uremovich — 9-02-03
DESIGN STANDARDS ENGINEER — DATE

/s/ Richard K.Smutzer — 9-02-03
CHIEF HIGHWAY ENGINEER — DATE



NOTES :

1. Additional right-of-way to widen sidewalks if applicable to improve accessibility on narrow sidewalks.
2. See Standard Drawing E 604-SWCR-02 and -03 to -11 for General Notes and typical curb ramps details respectively.

③ Indicated area denotes additional pay limits for improved access.

INDIANA DEPARTMENT OF TRANSPORTATION

SIDEWALK CURB RAMP'S IMPROVED ACCESS

SEPTEMBER 2003

STANDARD DRAWING NO. E 604-SWCR-12

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L.Uremovich 9-02-03
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K.Smutzer 9-02-03
CHIEF HIGHWAY ENGINEER DATE