



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

ROADWAY DESIGN DIVISION
SUITE 1200 JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TENNESSEE 37243-3848
(615) 741-2221

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

INSTRUCTIONAL BULLETIN NO. 18-10

Regarding Revised and Voided Standard Drawings

Effective December 7th, 2018 letting (Sep. 26th, 2018 Turn-in), the following Standard Drawings are new or have been revised or voided.

Revised Standard Drawings:

DRAWING NUMBER	CURRENT REVISION DATE	DESCRIPTION
RP-S-7 ^{1,2}	05-15-18	DETAILS FOR CONCRETE SIDEWALKS

New Standard Drawings:

DRAWING NUMBER	CURRENT REVISION DATE	DESCRIPTION
RP-SC-1		6" SLOPING CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-VC-10		STANDARD VERTICAL CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-VC-11		STANDARD VERTICAL CONCRETE CURBS AND CONCRETE GUTTERS 6" AND 7" DEPTH

Voided Standard Drawings:

DRAWING NUMBER	CURRENT REVISION DATE	DESCRIPTION
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS

IB-18-10

RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-MC-1	02-28-02	STANDARD 4" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS

Note 1: Minor revisions, revised notes, and/or revised references to other standard drawings

Note 2: Minor revisions, revised details


These standard drawings, revised Chapter 5, Index of Standard Drawings, of the Roadway Design Guidelines are available online.

Standard Roadway Drawings:

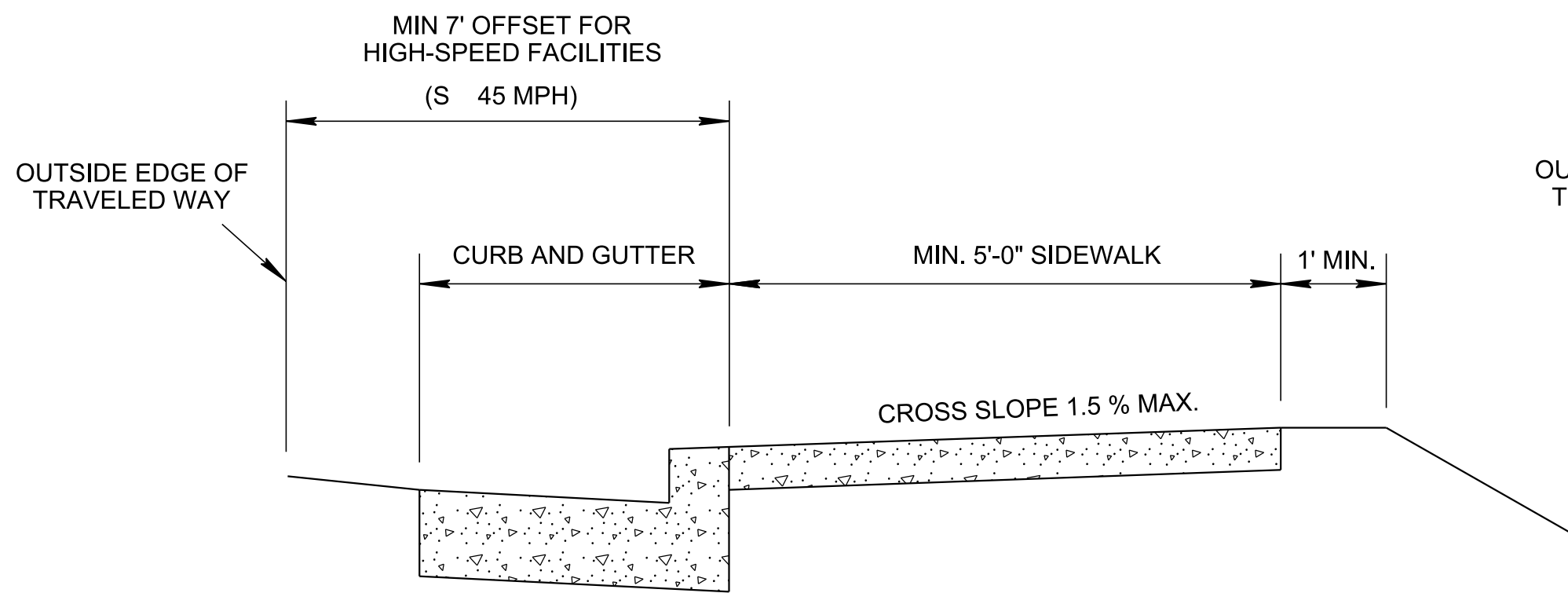
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Roadway Design Guidelines: Chapter 5

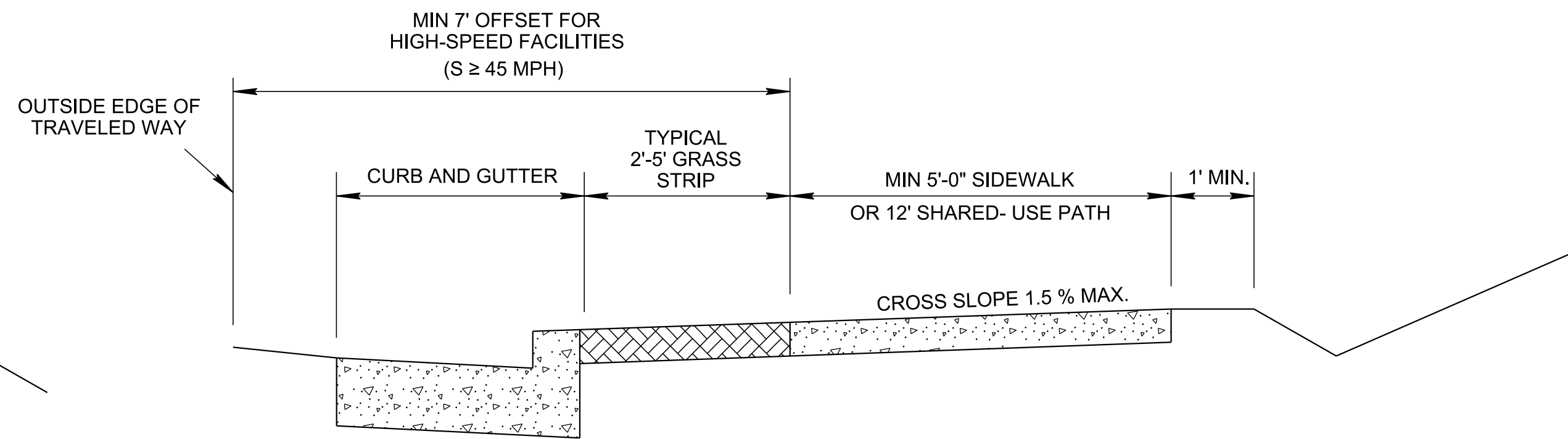
https://www.tn.gov/content/dam/tn/tdot/roadway-design/documents/design_guidelines/DG-S5.pdf


Jennifer Lloyd, PE
Civil Engineering Director
Roadway Design Division

KJL:ARH:RBB:LLP
06/29/2018

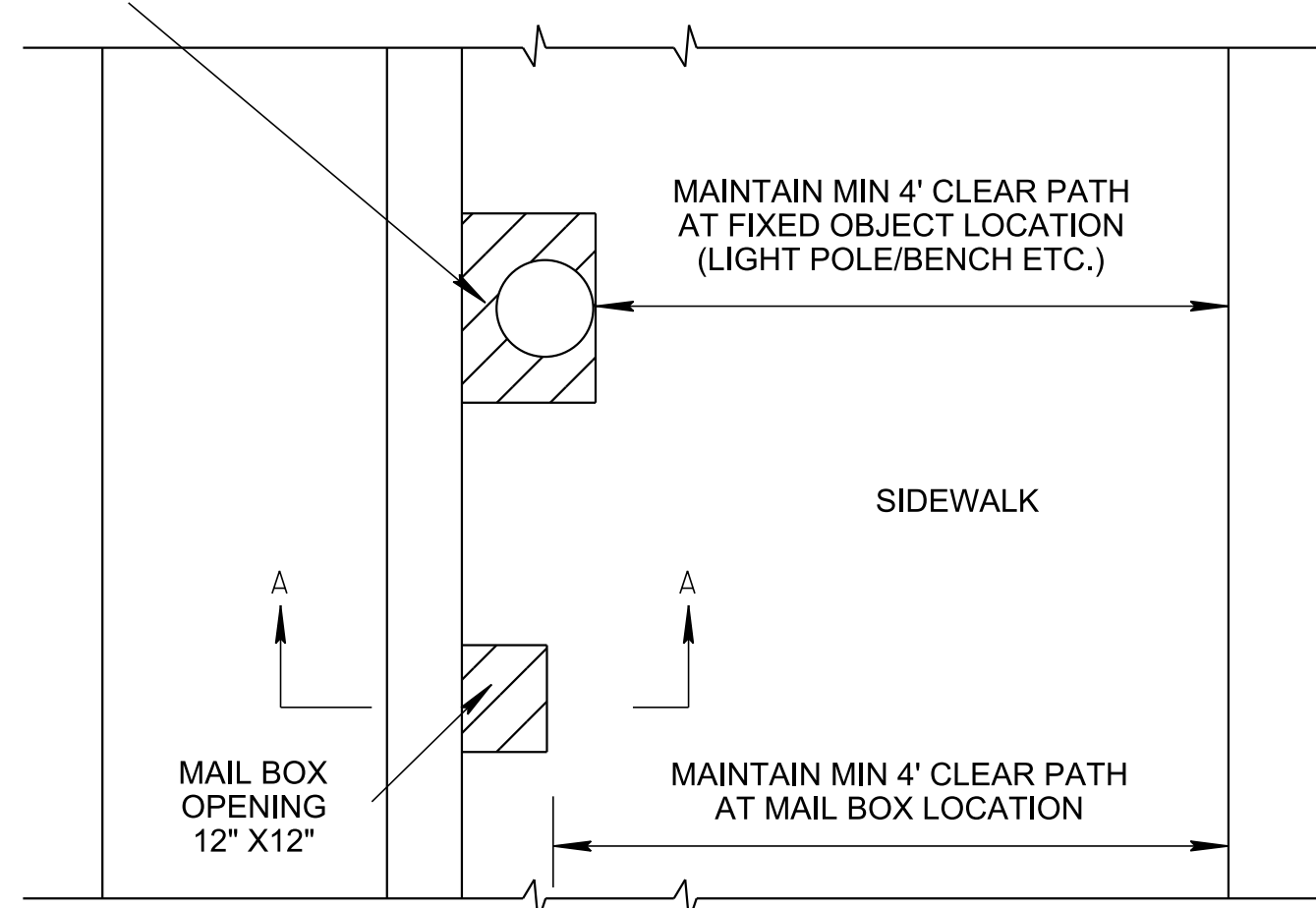


TYPICAL SIDEWALK CROSS SECTION

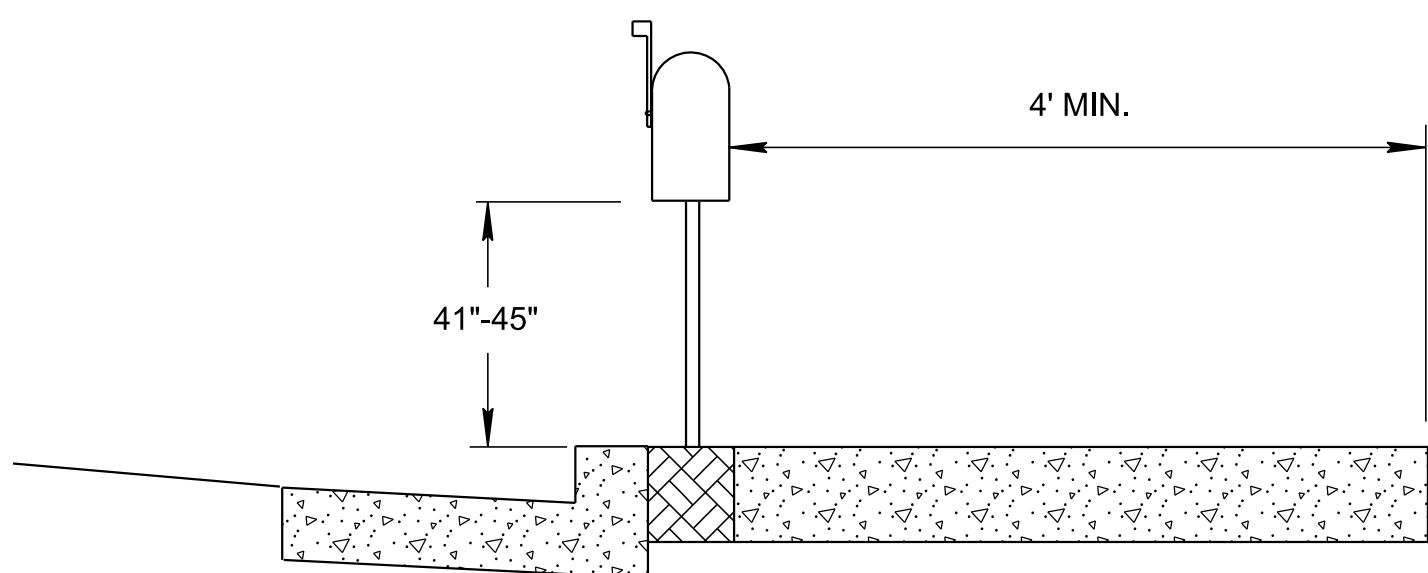


TYPICAL SIDEWALK CROSS SECTION WITH GRASS STRIP

LEAVE SQUARE OPENING IN SIDEWALK. THE LENGTH OF THE SIDE OF THE SQUARE OPENING SHOULD BE EQUAL TO THE DIAMETER OF THE FIXED OBJECT PLUS SIXTEEN INCHES. IT WILL BE BORDERED BY HALF INCH EXPANSION JOINT.

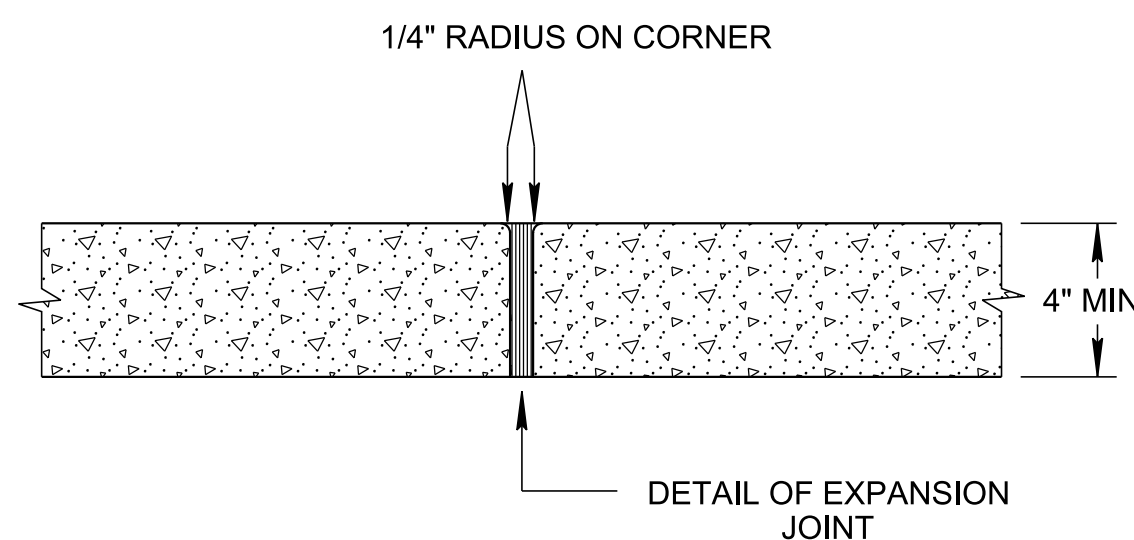


SIDEWALK CONSTRUCTION DETAILS PLAN VIEW



SECTION A-A MAIL BOX DETAIL

LEAVE 12"x12" OPENING IN SIDEWALK FOR MAIL BOX POST. ORIENT BOXES TO FACE THE DIRECTION OF ONCOMING TRAFFIC. EDGE OF MAIL BOX SHALL NOT OVERHANG BEYOND THE FACE OF THE CURB. NOR SHALL THE MAIL BOX OVERHANG THE SIDEWALK SUCH THAT THE USABLE WIDTH IS LESS THAN 4 FEET.



EXPANSION JOINT DETAIL

REFERENCED STANDARD DRAWINGS

- SEE T-M-4 FOR CROSS WALK MARKING
- SEE RP-H-SERIES FOR CURB RAMP DETAILS
- SEE S-BPR-1 FOR PEDESTRIAN RAIL REQUIREMENTS
- SEE RP-S-9 FOR ALTERNATE ALTERNATE DETAILS FOR PEDESTRIAN FACILITIES FOR REHABILITATION PROJECTS
- SEE RP-MC-1 OR 2 FOR CURB AND GUTTER DETAILS
- SEE RP-VC-10 OR 11 FOR VERTICAL CONCRETE CURB AND CONCRETE CURBS AND GUTTER DETAILS
- SEE T-M-10, 11, 12, 13, 14, FOR BIKE LANE/ROUTE PAVEMENT MARKINGS
- SEE RD01-TS-8 FOR SHARED USE PATH DETAILS
- SEE S-PL-6 FOR GUARDRAIL PLACEMENT

GENERAL NOTES

- (A) ALWAYS PLACE SIDEWALK AS FAR AS AWAY FROM THE TRAVELLED WAY WHEN POSSIBLE FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION.
- (B) WHERE IT BECOMES NECESSARY TO REMOVE PARTS OF EXISTING CONCRETE SIDEWALKS OR RAMPS, THE RESULTING EDGES SHALL BE CUT TO A NEAT LINE, AND ANY OFFSETS IN SUCH LINES SHALL BE MADE OFFSETS IN SUCH LINES SHALL BE MADE AT RIGHT ANGLES.
- (C) SIDEWALK WIDTHS DO NOT INCLUDE THE SIX INCH CURB WIDTH OF PROPOSED TOP OF CURB.
- (D) DESIREABLE SIDEWALK CROSS SLOPE IS 1.5 %, ABSOLUTE MAXIMUM IS 2.0 %.

CONSTRUCTION NOTES

- (E) EXPANSION JOINTS ARE TO BE PLACED 25 TO 30 FEET APART DEPENDING ON TRANSVERSE JOINT MARKINGS AND NEED TO MATCH CURB EXPANSION JOINT WHERE SIDEWALK IS BUILT DIRECTLY AGAINST CURB, OR AS DIRECTED BY THE ENGINEER WHERE THE PROPOSED SIDEWALK IS IN CONTACT WITH THE STREET RETURNS, ON BUILDING LINES PRODUCED AT STREET INTERSECTIONS, WHERE WALKS LEAD TO HOUSE OR OTHER ENTRANCES AND ANY OTHER LOCATIONS WHERE STRESSES MAY DEVELOP. THE COST OF ALL EXPANSION JOINTS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PROPOSED SIDEWALK.
- (F) CONCRETE JOINT MATERIAL TO BE FLUSH WITH THE SIDEWALK SURFACE, HALF INCH AND/OR ONE INCH PREMOLDED FIBER IN ACCORDANCE WITH SECTION 905 OF THE STANDARD SPECIFICATIONS
- (G) ONE INCH EXPANSION JOINTS ARE TO BE PLACED WHERE THE PROPOSED SIDEWALK IN CONTACT WITH CIRCULAR CURBS, BUILDINGS AND/OR RETAINING WALLS.
- (H) HALF INCH EXPANSION JOINTS ARE TO BE USED AT ALL OTHER LOCATIONS
- (I) LONGITUDINAL JOINT MARKINGS WILL NOT BE REQUIRED ON SIDEWALKS 5 FEET LESS IN WIDTH.
- (J) ONE LONGITUDINAL JOINT MARKING WILL BE REQUIRED ON SIDEWALKS OVER 5 FEET BUT LESS THAN 9 FEET IN WIDTH.
- (K) TWO LONGITUDINAL JOINT MARKINGS WILL BE REQUIRED ON SIDEWALKS OVER 9 FEET BUT LESS THAN 12 FEET IN WIDTH.
- (L) TRANSVERSE JOINT MARKINGS ARE TO BE MADE TO FORM BLOCKS AS NEARLY TO SQUARE AS PRACTICAL.

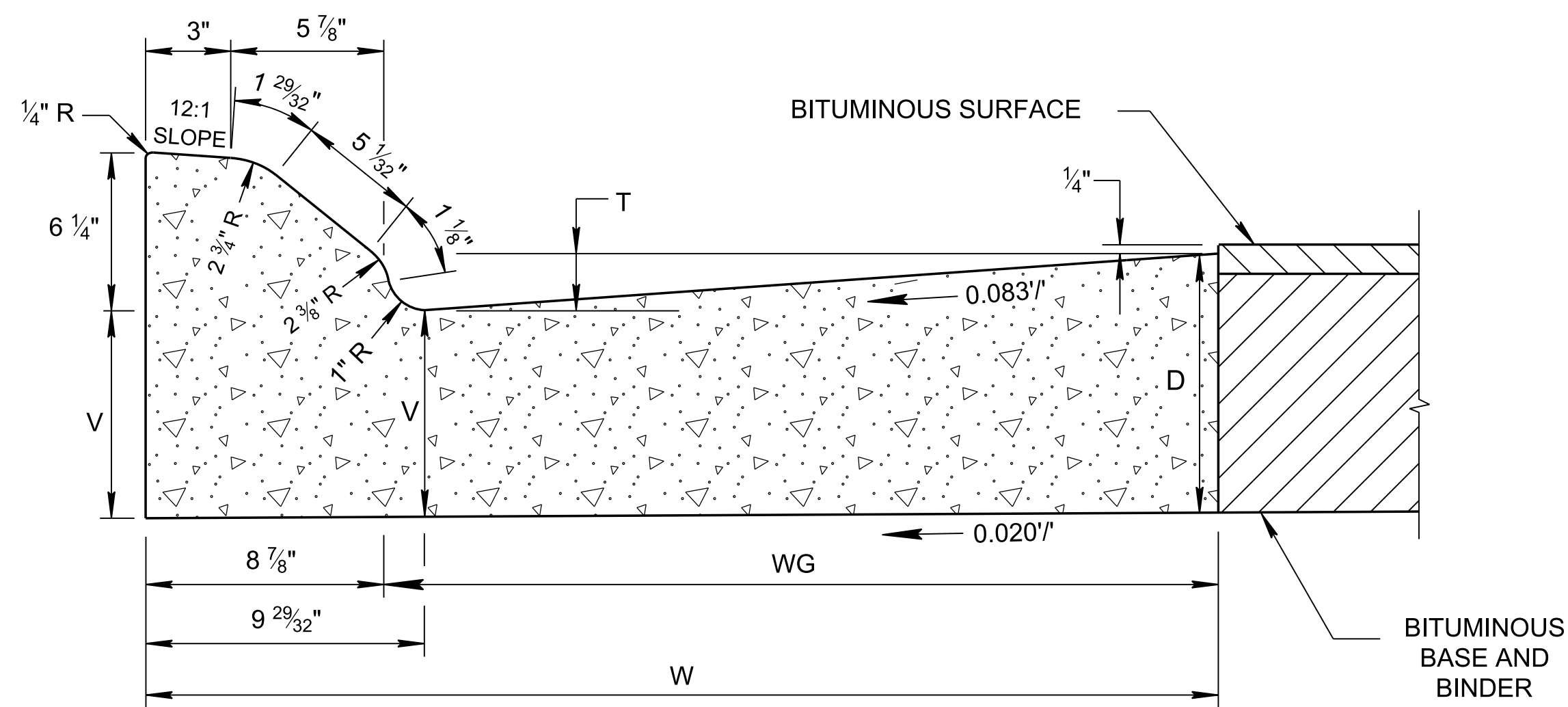
- REV. 7-1-72: CHANGED DEPARTMENT NAME.
- REV. 1-1-76: CHANGED DWG. NO. FROM P-S-7A(68) TO RP-S-7.
- REV. 5-14-87: ADDED EXPANSION JOINTS BETWEEN CURB AND SIDEWALK.
- REV. 4-15-91: REDREW, RENAMED AND REORGANIZED SHEET. MOVED INFORMATION REGARDING CONCRETE STEPS TO DWG. NO. RP-S-8.
- REV. 7-29-96: CHANGED GENERAL NOTE (C).
- REV. 5-7-13: ADDED MAIL BOX DETAIL.
- REV. 6-4-13: REVISED NOTES (C) AND (C) AND ADDED NOTE (L).
- REV. 11-25-13: REVISED NOTE (E).
- REV. 2-5-16: REDRAWN, REVISED NOTES.
- REV. 05-15-18: MODIFIED TYPICAL CROSS SECTION. CHANGED REFERENCED STD. DWG FROM RP-NMC-10 AND RP-NMC-11 TO RP-VC-10 AND RP-VC-11.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED

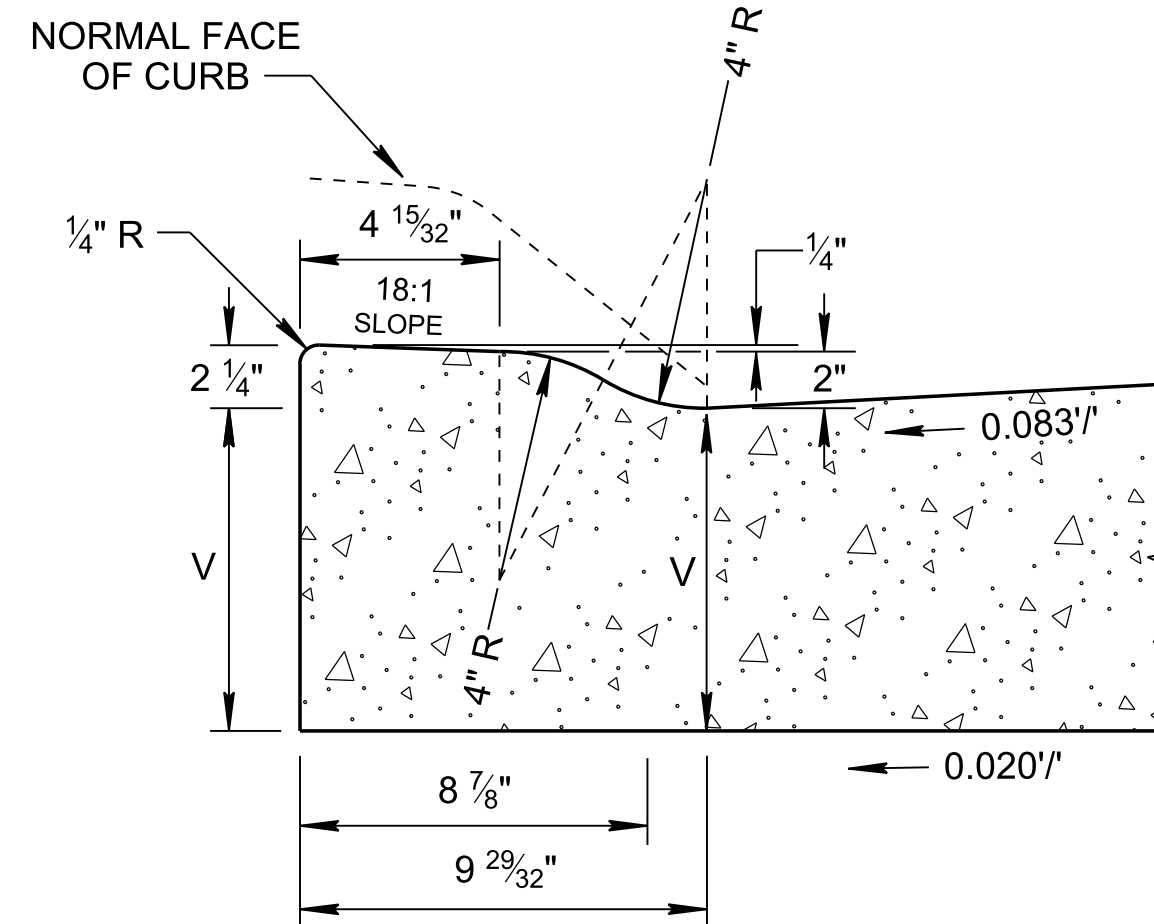
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

DETAILS FOR CONCRETE SIDEWALK

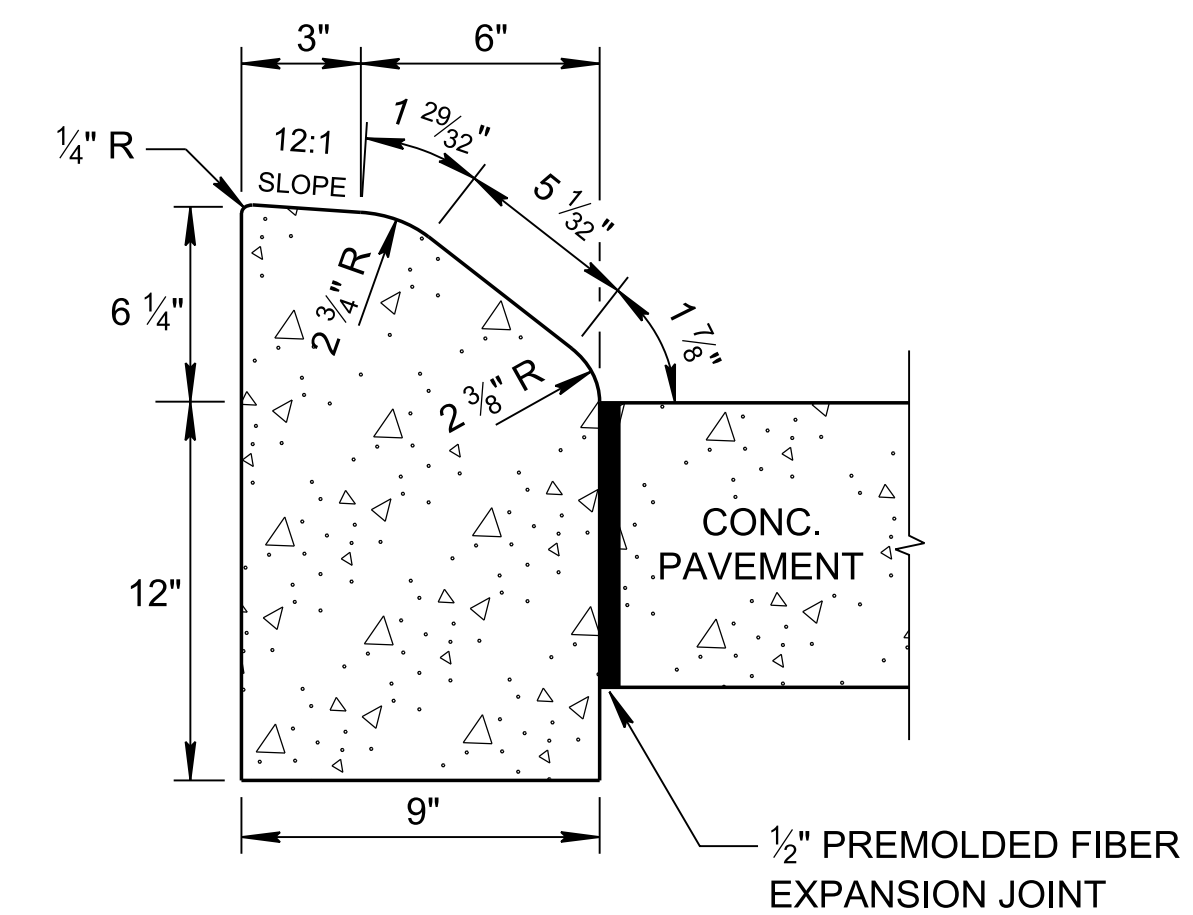
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6" SLOPING CONCRETE COMBINED CURB AND GUTTER



LOWERED CONCRETE CURB



6" SLOPING DETACHED CONCRETE CURB

6" SLOPING CONCRETE COMBINED CURB AND GUTTER TABLE					
TYPE	TOTAL WIDTH (W) IN INCHES	WIDTH OF GUTTER (WG) IN INCHES	VERTICAL DROP (T) IN INCHES	VERTICAL DEPTH (D) OF GUTTER	VERTICAL DEPTH (V) OF GUTTER AT FLOW LINE
6-33	33	24 1/8	2	AS NOTED ON TYPICAL X-SECTIONS	D - 1.52"
6-39	39	30 1/8	2 1/2		D - 1.90"
6-45	45	36 1/8	3		D - 2.28"

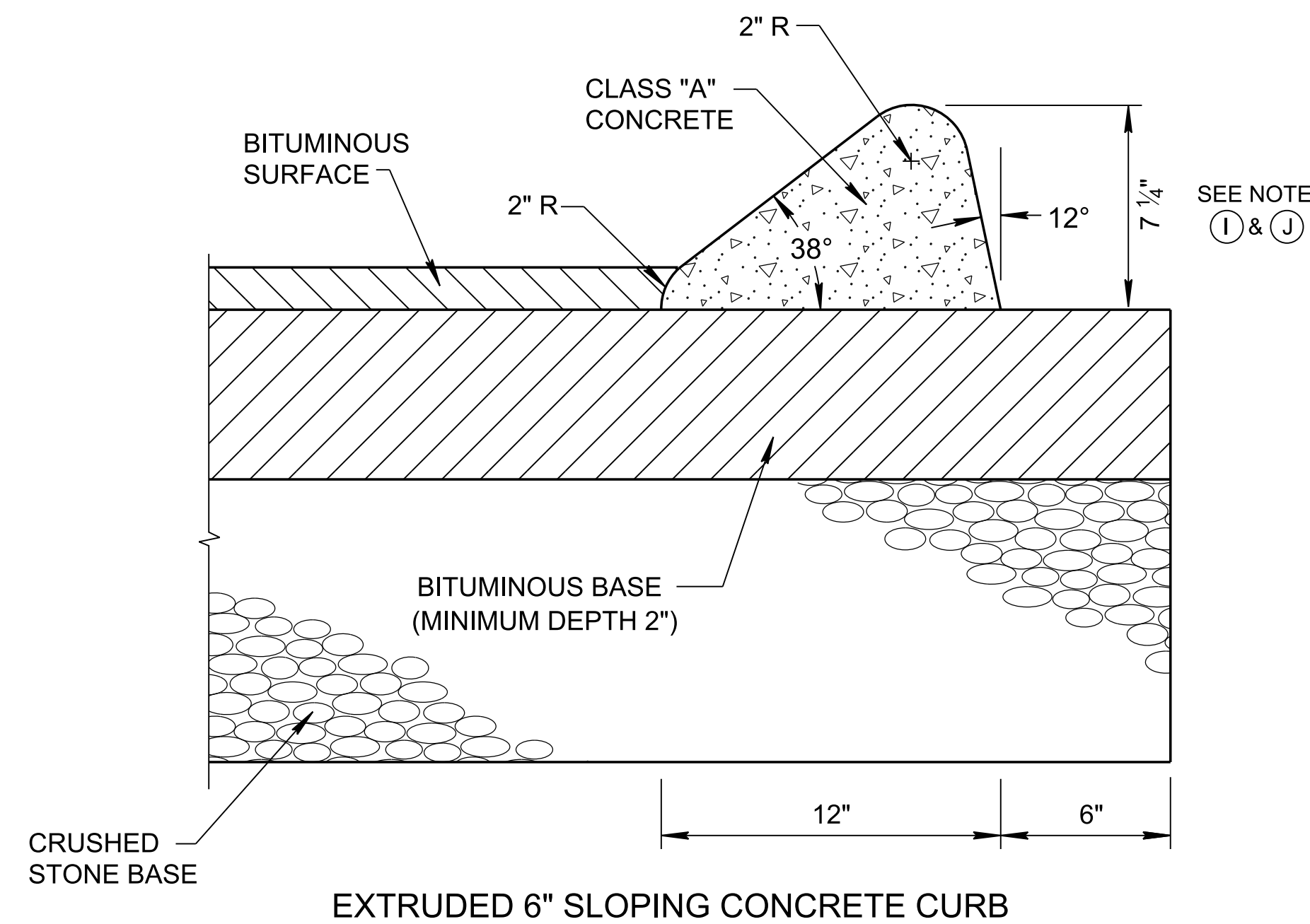
VERTICAL DEPTH (V) MUST ALWAYS EXCEED SIX (6) INCHES.

LOWERED CONCRETE CURB NOTES	
(L1)	TO BE BUILT AS COMBINED CURB AND GUTTER, DETACHED CURB OR INTEGRAL CURB AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
(L2)	FOR DETACHED CURB, OMIT RADIUS AT FLOW LINE.

QUANTITIES FOR DETACHED CURB	
HEIGHT OF CURB	CUBIC YARD PER LINEAR FOOT
LOWERED CURB	0.03099
6" SLOPING	0.03841

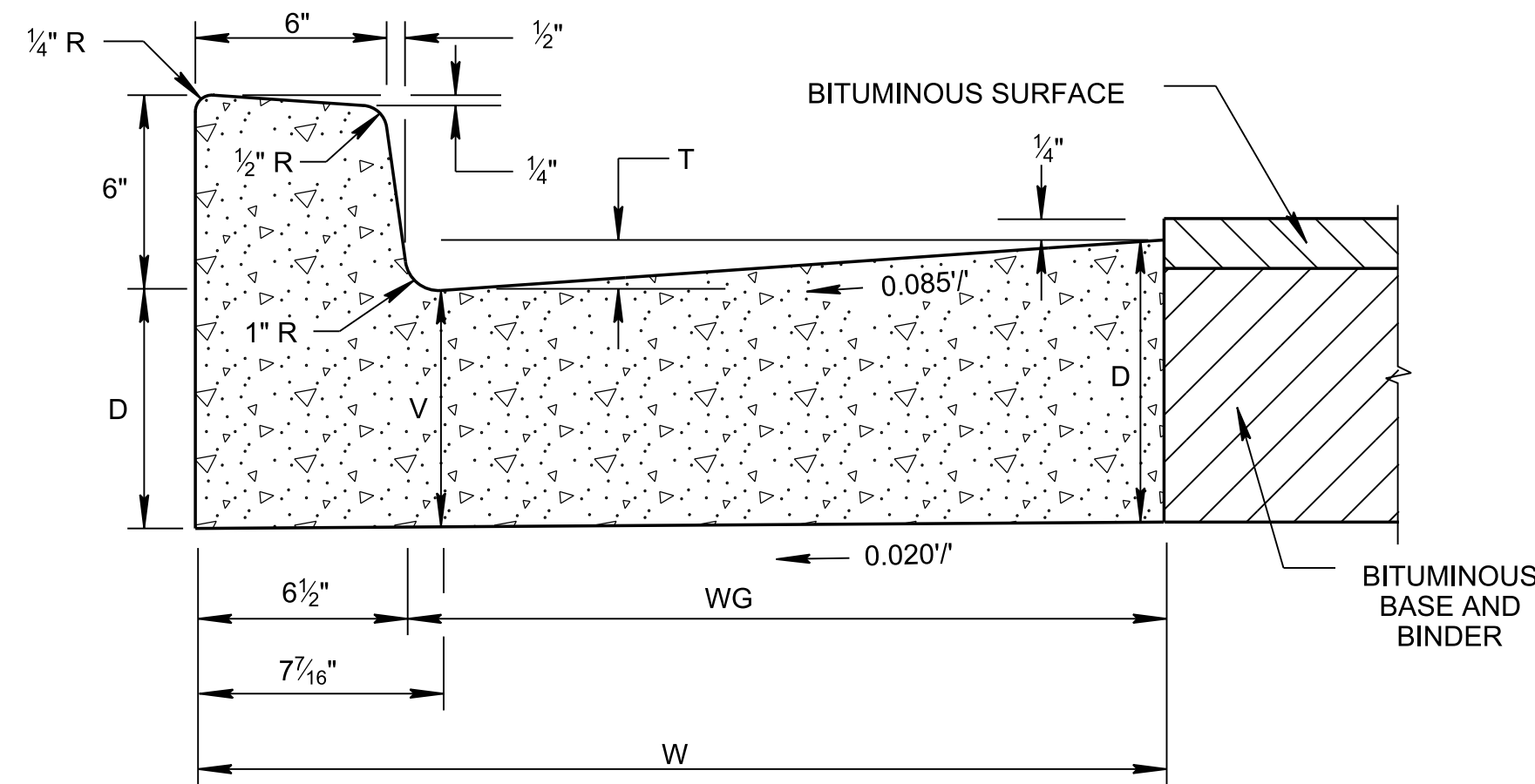
QUANTITIES FOR COMBINED CURB AND GUTTER															
HEIGHT OF CURB	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT
LOWERED CURB	8	33	0.06362	9	33	0.07211	10	33	0.08061	11	33	0.08909	12	33	0.09757
	8	39	0.07748	9	39	0.08751	10	39	0.09754	11	39	0.10758	12	39	0.11763
	8	45		9	45	0.10385	10	45	0.11543	11	45	0.12701	12	45	0.13857
6" SLOPING	8	33	0.07060	9	33	0.07909	10	33	0.08757	11	33	0.09606	12	33	0.10455
	8	39	0.08446	9	39	0.09449	10	39	0.10452	11	39	0.11455	12	39	0.12458
	8	45		9	45	0.11083	10	45	0.12240	11	45	0.13398	12	45	0.14555

LEGEND	
D -	VERTICAL DEPTH OF GUTTER
T -	VERTICAL DROP IN GUTTER FROM FRONT EDGE TO FACE OF CURB
V -	VERTICAL DEPTH OF GUTTER AT FLOW LINE
W -	TOTAL WIDTH OF COMBINED CURB AND GUTTER
WG -	WIDTH OF GUTTER

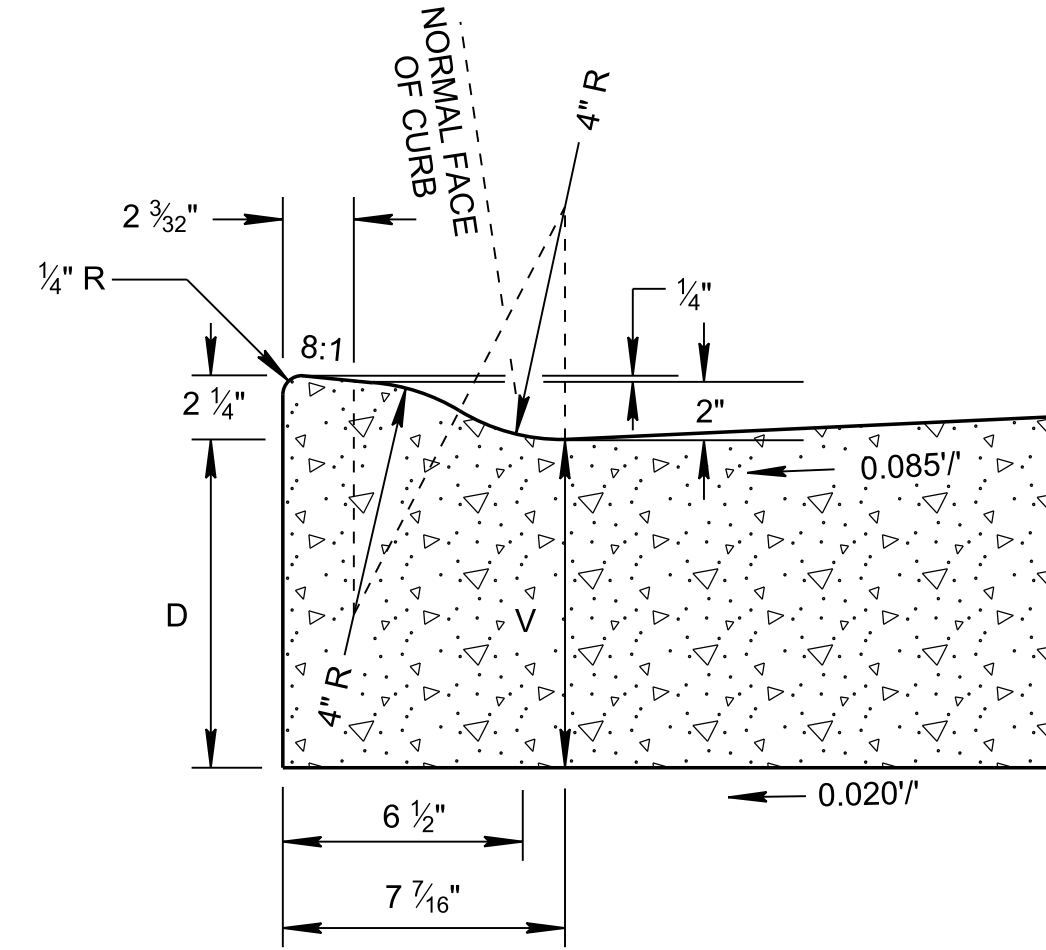


GENERAL NOTES										
(A)	FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, SECTION 702 - CEMENT CONCRETE CURB, GUTTER AND COMBINED CURB AND GUTTER.									
(B)	THE FRONT FACE OF THE CONCRETE CURBS FOR ALL DEGREES OF CURVATURE SHALL CONFORM TO THE CONTOUR OF THE CURVE AND NO CHORD SECTIONS WILL BE PERMITTED.									
(C)	CONCRETE EXPANSION JOINT MATERIAL IS TO BE 3/4" PRE-MOLDED FIBER IN ACCORDANCE WITH SECTION 905 - JOINT MATERIALS OF THE STANDARD SPECIFICATIONS.									
(D)	EXPANSION JOINTS ARE TO BE PLACED AS FOLLOWS: <ol style="list-style-type: none"> AT TANGENT POINTS OF CIRCULAR CURBS. BETWEEN CURBS AND ABUTTING RIGID OBJECTS. AT OTHER PLACES WHERE STRESSES MAY DEVELOP. TO LINE UP WITH PAVEMENT JOINTS WHERE THE ADJACENT PAVEMENT IS CONCRETE. THE MAXIMUM SPACING IS TO BE 100 FEET. 									
(E)	CONTRACTION JOINTS ARE TO BE SPACED AT 10 FEET. THE SPACING OF 10 FEET MAY BE REDUCED FOR CLOSURES, BUT NOT LESS THAN 6 FEET.									
(F)	EDGES OF JOINTS SHALL BE FINISHED ON ONE-QUARTER INCH RADII.									
(G)	ALL COST OF JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS.									
(H)	THE UNIT PRICE BID FOR CONCRETE CURB, CONCRETE CURB AND GUTTER AND CONCRETE PAVEMENT WILL INCLUDE ANY CIRCULAR SECTION REQUIRED TO BE BUILT CONFORMING TO SECTIONS SHOWN ON THIS SHEET.									
(I)	WHERE CONCRETE MEDIAN PAVEMENT IS POURED BEHIND EXTRUDED 6" CONCRETE CURB, IT MAY BE POURED MONOLITHICALLY WITH THE CURB.									
(J)	THE EXTRUDED 6" SLOPING CONCRETE CURB IS TO BE USED ONLY IN SPECIAL CONDITIONS SUCH AS LOW SPEED LOW VOLUME LOCAL STREETS, AS A TEMPORARY MEASURE TO CONTROL TRAFFIC FLOW OR WHEN TIEING TO SIMILAR CURBS ON SUBDIVISION STREETS OR IN PARKING LOTS.									
(K)	PAYMENT WILL BE AS FOLLOWS: <table border="0"> <tr> <td>ITEM NO.</td> <td>702-01</td> <td>CONCRETE CURB, PER CUBIC YARD.</td> </tr> <tr> <td>ITEM NO.</td> <td>702-01.01</td> <td>EXTRUDED SLOPING CURB, PER LINEAR FOOT.</td> </tr> <tr> <td>ITEM NO.</td> <td>702-03</td> <td>CONCRETE COMBINED CURB AND GUTTER, PER CUBIC YARD.</td> </tr> </table>	ITEM NO.	702-01	CONCRETE CURB, PER CUBIC YARD.	ITEM NO.	702-01.01	EXTRUDED SLOPING CURB, PER LINEAR FOOT.	ITEM NO.	702-03	CONCRETE COMBINED CURB AND GUTTER, PER CUBIC YARD.
ITEM NO.	702-01	CONCRETE CURB, PER CUBIC YARD.								
ITEM NO.	702-01.01	EXTRUDED SLOPING CURB, PER LINEAR FOOT.								
ITEM NO.	702-03	CONCRETE COMBINED CURB AND GUTTER, PER CUBIC YARD.								

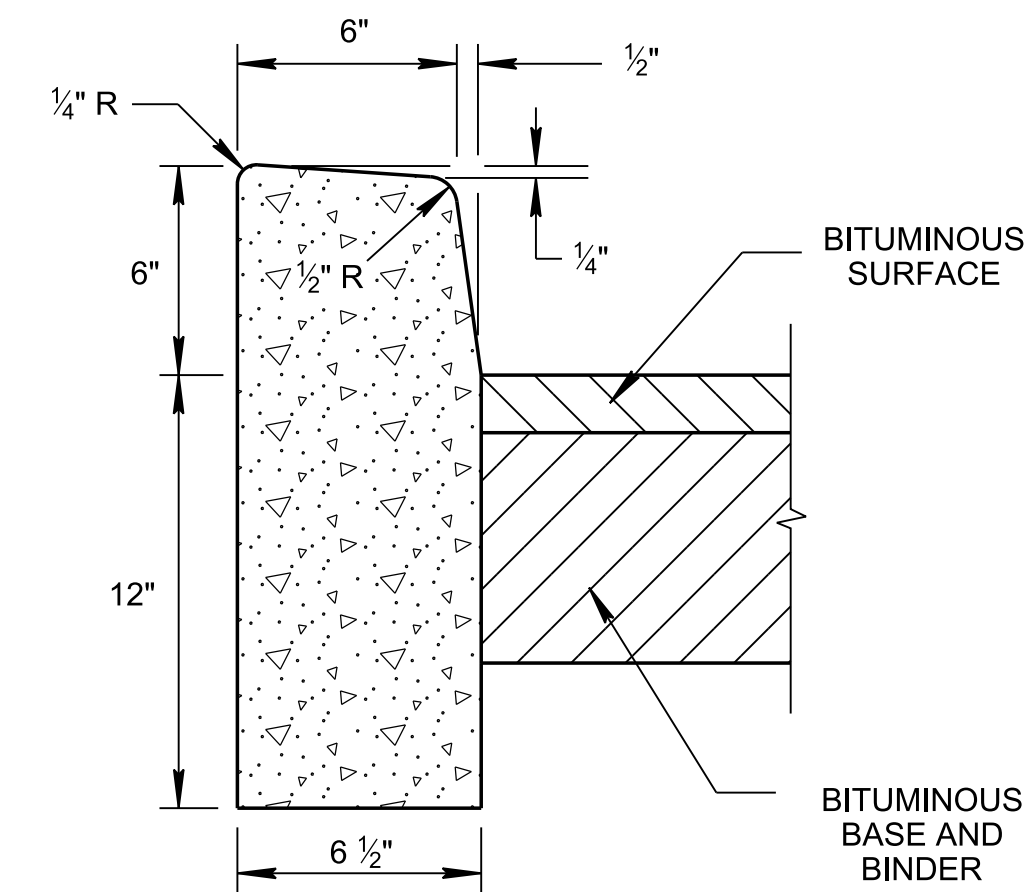
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6" CONCRETE COMBINED CURB AND GUTTER



LOWERED CONCRETE CURB



6" DETACHED CONCRETE CURB

6" CONCRETE COMBINED CURB AND GUTTER TABLE					
TYPE	TOTAL WIDTH (W) IN INCHES	WIDTH OF GUTTER (WG) IN INCHES	VERTICAL DROP (T) IN INCHES	VERTICAL DEPTH (D) OF GUTTER	VERTICAL DEPTH (V) OF GUTTER AT FLOW LINE
6-30	30	23 1/2	2	AS NOTED ON TYPICAL X-SECTIONS	D - 1.53"
6-36	36	29 1/2	2 1/2		D - 1.91"
6-42	42	35 1/2	3		D - 2.29"

VERTICAL DEPTH (V) MUST ALWAYS EXCEED SIX (6) INCHES.

LOWERED CONCRETE CURB NOTES	
(L1)	TO BE BUILT AS COMBINED CURB AND GUTTER, DETACHED CURB OR INTEGRAL CURB AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
(L2)	FOR DETACHED CURB, OMIT RADIUS AT FLOW LINE.
(L3)	TO BE USED FOR PROPOSED RAMP OPENINGS.

QUANTITIES FOR DETACHED CURB	
HEIGHT OF CURB	CUBIC YARD PER LINEAR FOOT
LOWERED CURB	0.02534
6"	0.02950

QUANTITIES FOR COMBINED CURB AND GUTTER															
HEIGHT OF CURB	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT
LOWERED CURB	8	30	0.05711	9	30	0.06483	10	30	0.07254	11	30	0.08026	12	30	0.08799
	8	36	0.07085	9	36	0.08011	10	36	0.08934	11	36	0.09860	12	36	0.10786
	8	42		9	42	0.09631	10	42	0.10711	11	42	0.11791	12	42	0.12872
6"	8	30	0.06409	9	30	0.07181	10	30	0.07953	11	30	0.08724	12	30	0.09496
	8	36	0.07780	9	36	0.08706	10	36	0.09632	11	36	0.10558	12	36	0.11484
	8	42		9	42	0.10329	10	42	0.11409	11	42	0.12489	12	42	0.13570

LEGEND	
D -	VERTICAL DEPTH OF GUTTER
T -	VERTICAL DROP IN GUTTER FROM FRONT EDGE TO FACE OF CURB
V -	VERTICAL DEPTH OF GUTTER AT FLOW LINE
W -	TOTAL WIDTH OF COMBINED CURB AND GUTTER
WG -	WIDTH OF GUTTER

GENERAL NOTES	
(A)	FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, SECTION 702 - CEMENT CONCRETE CURB, GUTTER AND COMBINED CURB AND GUTTER.
(B)	THE FRONT FACE OF THE CONCRETE CURBS FOR ALL DEGREES OF CURVATURE SHALL CONFORM TO THE CONTOUR OF THE CURVE AND NO CHORD SECTIONS WILL BE PERMITTED.
(C)	CONCRETE EXPANSION JOINT MATERIAL IS TO BE 3/4" PRE-MOLDED FIBER IN ACCORDANCE WITH SECTION 905 - JOINT MATERIALS OF THE STANDARD SPECIFICATIONS.
(D)	EXPANSION JOINTS ARE TO BE PLACED AS FOLLOWS: <ul style="list-style-type: none"> 1. AT TANGENT POINTS OF CIRCULAR CURBS. 2. BETWEEN CURBS AND ABUTTING RIGID OBJECTS. 3. AT OTHER PLACES WHERE STRESSES MAY DEVELOP. 4. TO LINE UP WITH PAVEMENT JOINTS WHERE THE ADJACENT PAVEMENT IS CONCRETE. 5. THE MAXIMUM SPACING IS TO BE 100 FEET.
(E)	CONTRACTION JOINTS ARE TO BE SPACED AT 10 FEET. THE SPACING OF 10 FEET MAY BE REDUCED FOR CLOSURES, BUT NOT LESS THAN 6 FEET.
(F)	EDGES OF JOINTS SHALL BE FINISHED ON ONE-QUARTER INCH RADII.
(G)	ALL COST OF JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS.
(H)	THE UNIT PRICE BID FOR CONCRETE CURB, CONCRETE CURB AND GUTTER AND CONCRETE PAVEMENT WILL INCLUDE ANY CIRCULAR SECTION REQUIRED TO BE BUILT CONFORMING TO SECTIONS SHOWN ON THIS SHEET.
(I)	PAYMENT WILL BE AS FOLLOWS: <ul style="list-style-type: none"> ITEM NO. 702-01 CONCRETE CURB, PER CUBIC YARD. ITEM NO. 702-03 CONCRETE COMBINED CURB AND GUTTER, PER CUBIC YARD.

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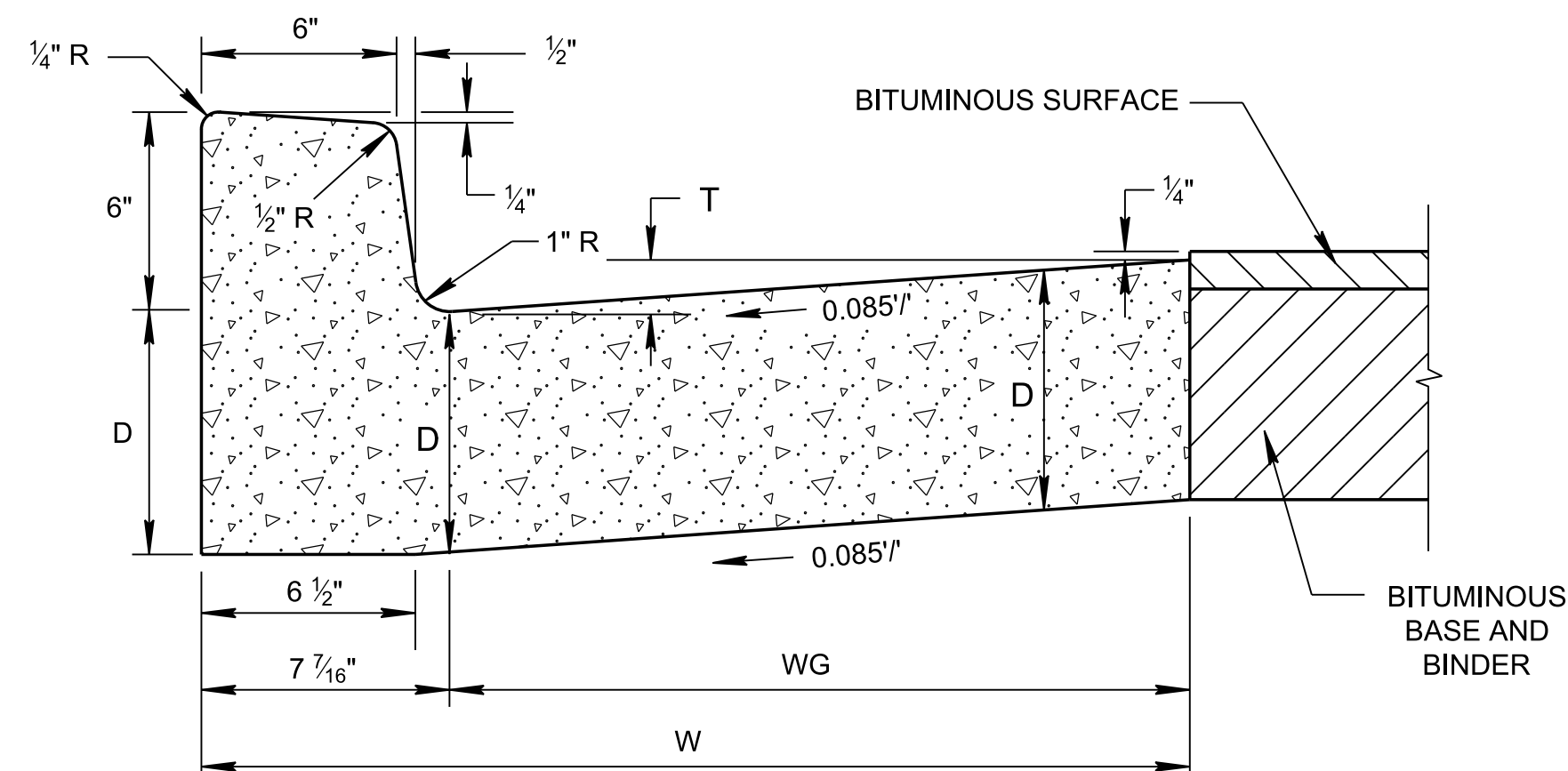
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

VERTICAL
CONCRETE CURBS
AND CONCRETE
CURBS AND GUTTERS

05-15-18

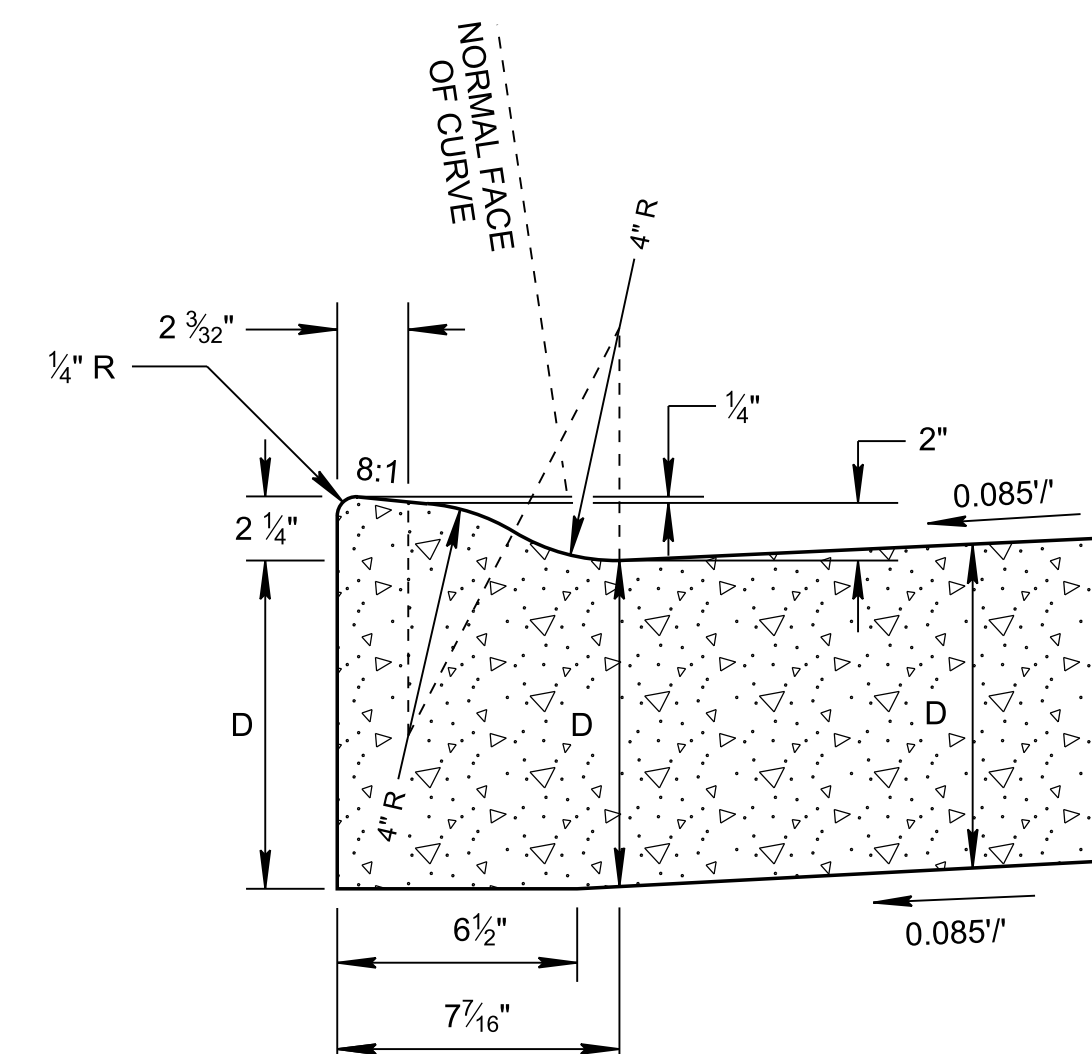
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6" CONCRETE COMBINED CURB AND GUTTER

TYPE	TOTAL WIDTH (W) IN INCHES	WIDTH OF GUTTER (WG) IN INCHES	VERTICAL DROP (T) IN INCHES	VERTICAL DEPTH (D) OF GUTTER
6-30	30	23½	2	AS NOTED ON TYPICAL X-SECTIONS
6-36	36	29½	2½	
6-42	42	35½	3	



LOWERED CONCRETE CURB

(L1)	TO BE BUILT AS COMBINED CURB AND GUTTER, DETACHED CURB OR INTEGRAL CURB AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
(L2)	TO BE USED FOR PROPOSED RAMP OPENINGS.

HEIGHT OF CURB	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT	DEPTH (D) OF GUTTER IN INCHES	TOTAL WIDTH (W) IN INCHES	CUBIC YARDS PER LINEAR FOOT
LOWERED CURB	6	30	0.04875	7	30	0.05647
	6	36	0.05804	7	36	0.06730
	6	42	0.06727	7	42	0.07807
6"	6	30	0.05573	7	30	0.06345
	6	36	0.06499	7	36	0.07425
	6	42	0.07425	7	42	0.08505

D -	VERTICAL DEPTH OF GUTTER
T -	VERTICAL DROP IN GUTTER FROM FRONT EDGE TO FACE OF CURB
W -	TOTAL WIDTH OF COMBINED CURB AND GUTTER
WG -	WIDTH OF GUTTER

<p>(A) FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, SECTION 702 - CEMENT CONCRETE CURB, GUTTER AND COMBINED CURB AND GUTTER.</p> <p>(B) THE FRONT FACE OF THE CONCRETE CURBS FOR ALL DEGREES OF CURVATURE SHALL CONFORM TO THE CONTOUR OF THE CURVE AND NO CHORD SECTIONS WILL BE PERMITTED.</p> <p>(C) CONCRETE EXPANSION JOINT MATERIAL IS TO BE 3/4" PRE-MOLDED FIBER IN ACCORDANCE WITH SECTION 905 - JOINT MATERIALS OF THE STANDARD SPECIFICATIONS.</p> <p>(D) EXPANSION JOINTS ARE TO BE PLACED AS FOLLOWS:</p> <ol style="list-style-type: none"> 1. AT TANGENT POINTS OF CIRCULAR CURBS. 2. BETWEEN CURBS AND ABUTTING RIGID OBJECTS. 3. AT OTHER PLACES WHERE STRESSES MAY DEVELOP. 4. TO LINE UP WITH PAVEMENT JOINTS WHERE THE ADJACENT PAVEMENT IS CONCRETE. 5. THE MAXIMUM SPACING IS TO BE 100 FEET. <p>(E) CONTRACTION JOINTS ARE TO BE SPACED AT 10 FEET. THE SPACING OF 10 FEET MAY BE REDUCED FOR CLOSURES, BUT NOT LESS THAN 6 FEET.</p>	<p>(F) EDGES OF JOINTS SHALL BE FINISHED ON ONE-QUARTER INCH RADII.</p> <p>(G) ALL COST OF JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS.</p> <p>(H) THE UNIT PRICE BID FOR CONCRETE CURB, CONCRETE CURB AND GUTTER AND CONCRETE PAVEMENT WILL INCLUDE ANY CIRCULAR SECTION REQUIRED TO BE BUILT CONFORMING TO SECTIONS SHOWN ON THIS SHEET.</p> <p>(I) PAYMENT WILL BE AS FOLLOWS:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">ITEM NO. 702-01</td> <td>CONCRETE CURB, PER CUBIC YARD.</td> </tr> <tr> <td style="padding-left: 40px;">ITEM NO. 702-03</td> <td>CONCRETE COMBINED CURB AND GUTTER, PER CUBIC YARD.</td> </tr> </table>	ITEM NO. 702-01	CONCRETE CURB, PER CUBIC YARD.	ITEM NO. 702-03	CONCRETE COMBINED CURB AND GUTTER, PER CUBIC YARD.
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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

VERTICAL
CONCRETE CURBS
AND GUTTERS
6" AND 7" DEPTH