

**ORDINANCE NO. 4103**

**AN ORDINANCE APPROVING AMENDMENTS TO SECTIONS 44 AND 46 OF THE CLINTON CODE OF ORDINANCES REGARDING STREETS.**

**WHEREAS**, on December 5, 2022, the Clinton Planning Commission considered amendments to Street Standards in Chapters 44 and 46 of the Clinton Code of Ordinances; and

**WHEREAS**, the Clinton Planning Commission recommended approval of amendments to the Street Standards by a vote of 7 Ayes; 0 Nays; and

**WHEREAS**, the Clinton City Council conducted a public hearing on December 6, 2022, to consider amendments to Street Standards in Chapters 44 and 46 of the Clinton Code of Ordinances;

**NOW, THEREFORE BE IT HEREBY ORDAINED BY THE CITY COUNCIL OF CLINTON, MISSOURI AS FOLLOWS:**

**Section 1.**

**Sec. 44-59. Right-of-way and pavement widths.**

Sec. 44-59 is hereby repealed and re-enacted as follows:

Rights-of-way and surface widths of streets, sidewalks and alleys shall be as specified in Sec. 46-6.

**Sec. 44-60. Design criteria for pavement surfaces.**

Sec. 44-60 is hereby repealed and re-enacted as follows:

Design criteria for pavement surfaces shall be as specified in Sec. 46-6.

**Sec. 44-61. General specifications.**

Sec. 44-61(p), (r) and (s) are hereby repealed.

**Sec. 46-6. Design standards.**

Sec. 46-6(a)(20) – (25) are hereby repealed and re-enacted as follows:

**Sec. 46-6(20) Street right-of-way widths.**

<u>CLASSIFICATION</u>	<u>WIDTH</u>
Local .....	50'
Minor Collector .....	60'
Major Collector .....	80'
Arterials and Other Principal Roadways .....	100'

**Sec. 46-6(21) Street grades.**

All street grades shall comply with the following minimum and maximum.

<u>CLASSIFICATION</u>	<u>MINIMUM</u>	<u>MAXIMUM*</u>
Alleys	0.5%	12%*
Local	0.5%	12%*
Collector	0.5%	10%*
Arterials	0.5%	8%

These are maximum allowable under any circumstance. The City reserves the right to modify standards for all grades over 8%. All grades greater than 8% are subject to review by the City and the Engineer and may require special construction standards including additional subgrade, base and pavement thickness and specifications. Additional requirements to meet this section will be the responsibility of the developer/owner.

**Sec. 46-6(22) Vertical curves.**

The length of vertical curves shall be no less than that determined by the formula:

- L = KA, where
- L = Length of vertical curve, feet,
- A = Algebraic difference in grades
- K = Constant defined in the following table.

**K VALUES**

<u>CLASSIFICATION</u>	<u>CREST</u>	<u>SAG</u>
Alleys	7	17
Local	12	26
Arterials / Collector	29	49

**Sec. 46-6(23) Horizontal curves and super elevation.**

The minimum centerline radii (R), maximum super elevation (E) and super elevation runoff length (L) shall be in accordance with the following table.

<u>CLASSIFICATION</u>	<u>R</u>	<u>E</u>	<u>L</u>
Alleys	150	N/A	N/A
Local	200	.02	80
Arterials / Collector	500	.04	130

**Sec. 46-6(24) Minimum curb radii at intersections.**

<u>CLASSIFICATION</u>	<u>INTERSECTING LOCAL &amp; COLLECTOR</u>
Alleys	15'
Local	15'
Collector	20'
Arterials	30'

Larger curb radii should be considered at intersections that will experience large vehicles consistently turning. Specifically, industrial areas and important intersections should consider larger turning radii for the expected truck traffic

**Sec. 46-6(25) Pavement design.**

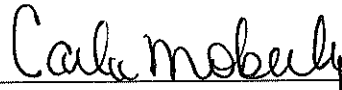
Pavement sections shall be installed or constructed in accordance with City Codes and minimum standards and diagrams in the *Standards Manual for Street, Curb/Gutter, Driveway and Sidewalk Construction*, maintained by the Street Superintendent. Soils information and design calculations shall be submitted when deviating from the approved standards.

**Section 2.** All ordinances in conflict with this ordinance are hereby repealed.

**Section 3.** This ordinance shall become effective immediately upon its passage and approval as provided by law.

Read for the first time the 6th day of December, 2022.

Read for a second time and passed this 20<sup>th</sup> day of December, 2022.



Carla Moberly, Presiding Officer

ATTEST:

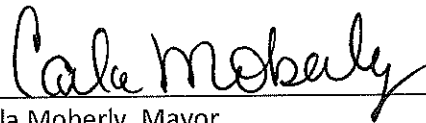
7 Ayes: Gene Henry, Roger House, Cameron Jackson, Martha Nichols, Rick Pereles, Becky Raysik and Daniel Wilson

0 Nays

1 Absent: Debbie Smith



Wendee Seaton, City Clerk



Carla Moberly, Mayor



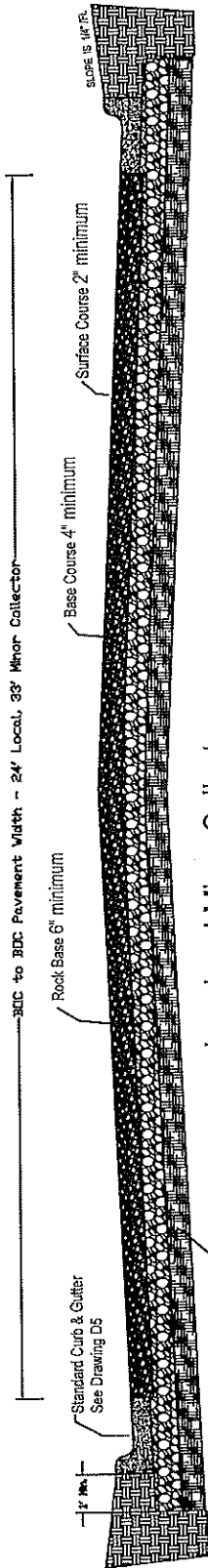
**Standards Manual  
for  
Street, Curb/Gutter,  
Driveway and Sidewalk  
Construction**



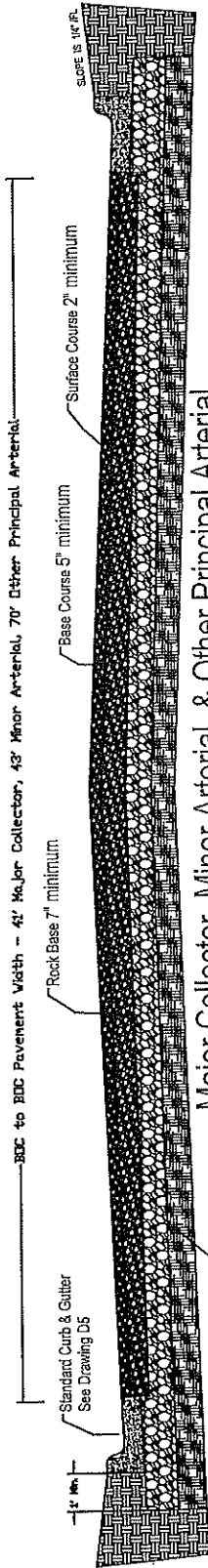
City of  
**Clinton**  
MISSOURI

Ordinance No. 4103

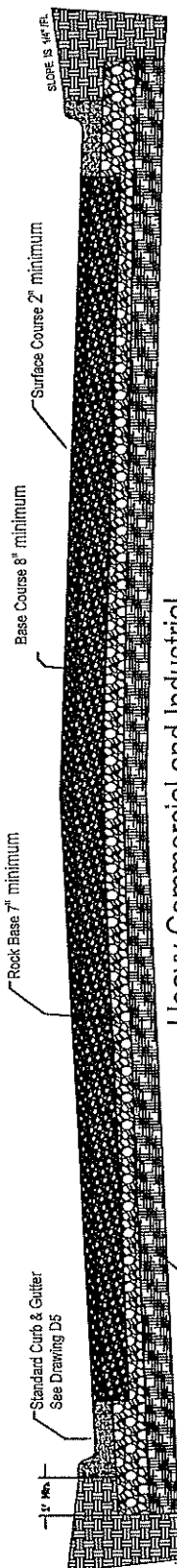
Approved December 2022



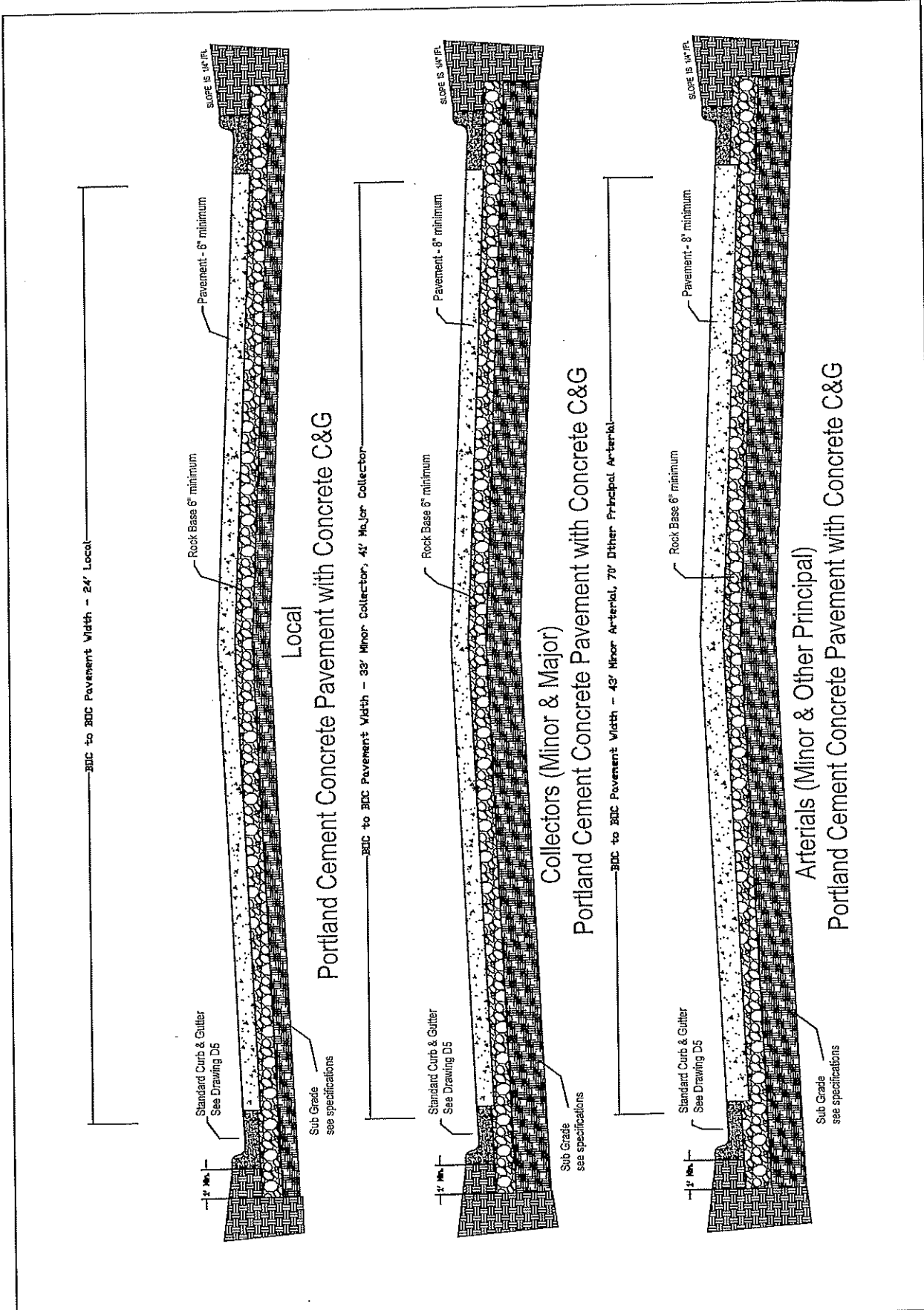
Local and Minor Collector  
Asphalt Concrete Pavement with Concrete Curb and Gutter



Major Collector, Minor Arterial, & Other Principal Arterial  
Asphalt Concrete Pavement with Concrete Curb and Gutter

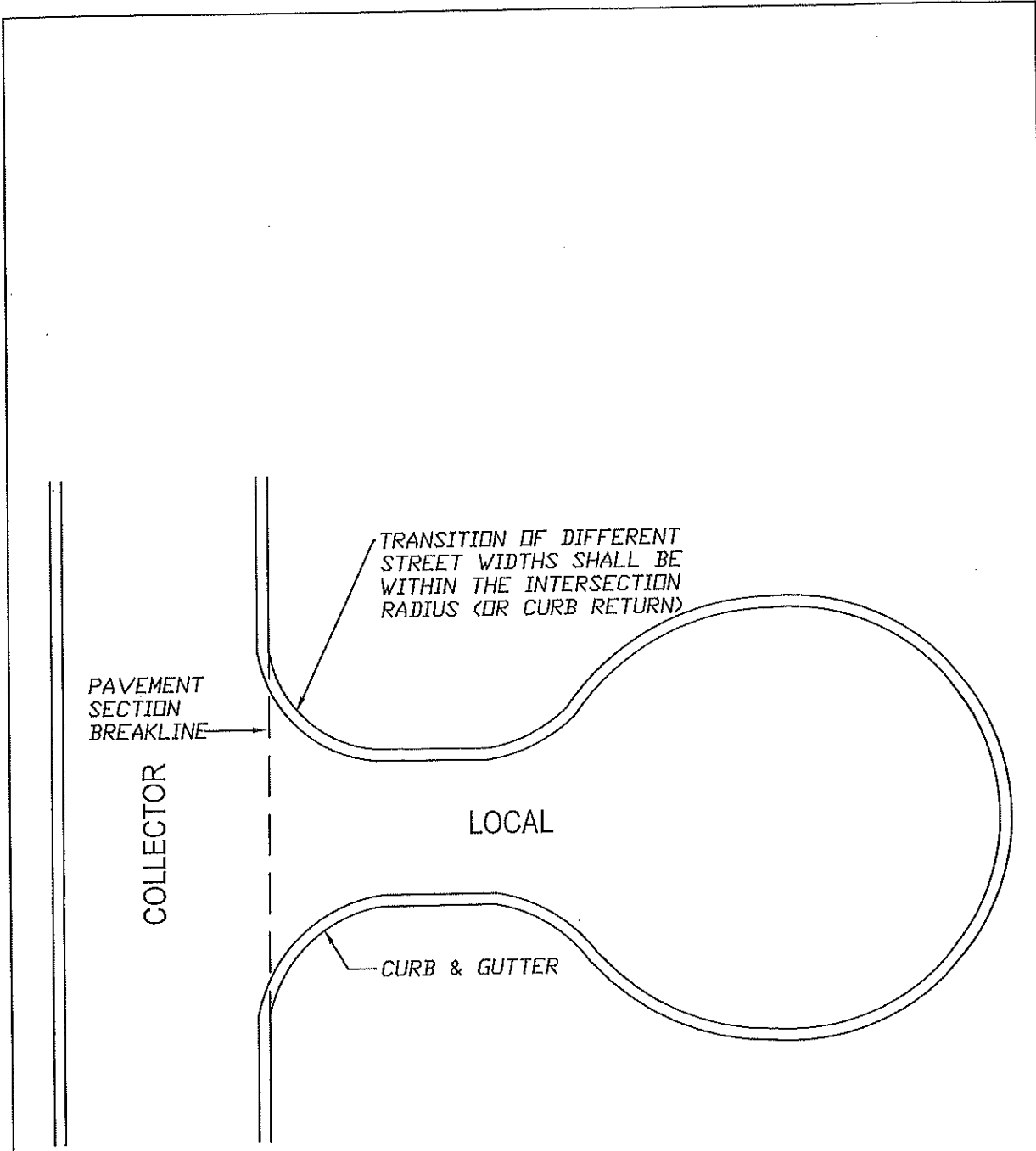


Heavy Commercial and Industrial  
Asphalt Concrete Pavement with Concrete Curb and Gutter



Street Construction - Minimum Standards  
 for Cement Concrete Surfaces

DATE: 11/23/22  
 DWG: D1-CC



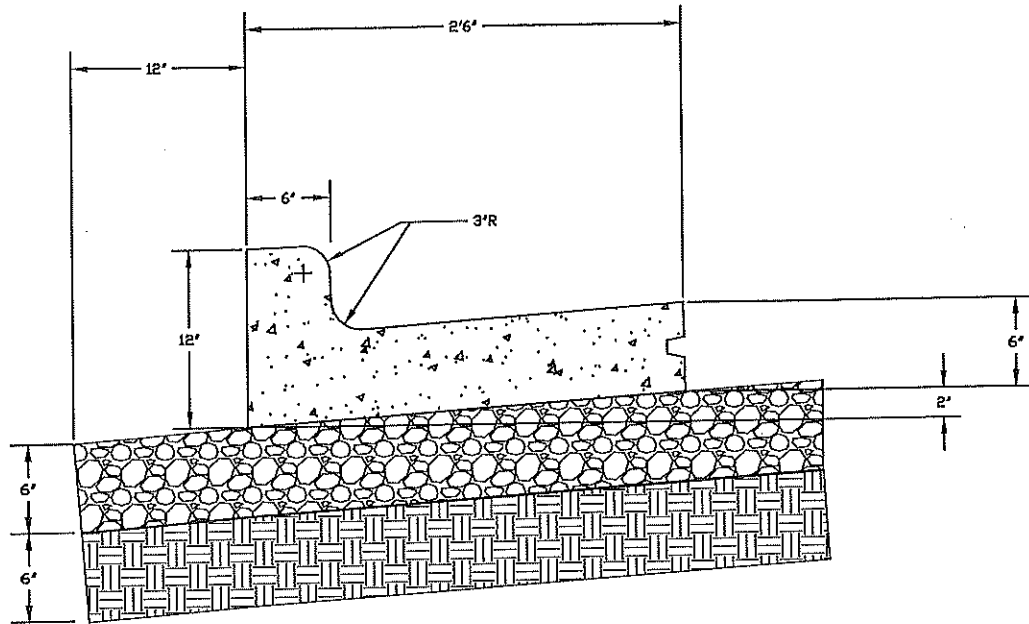
INTERSECTION WITH DIFFERENT PAVEMENT TYPES

NOTE: SUBGRADE & TYPE I BASE MUST BE COMPACTED TO 95% STANDARD PROCTOR.

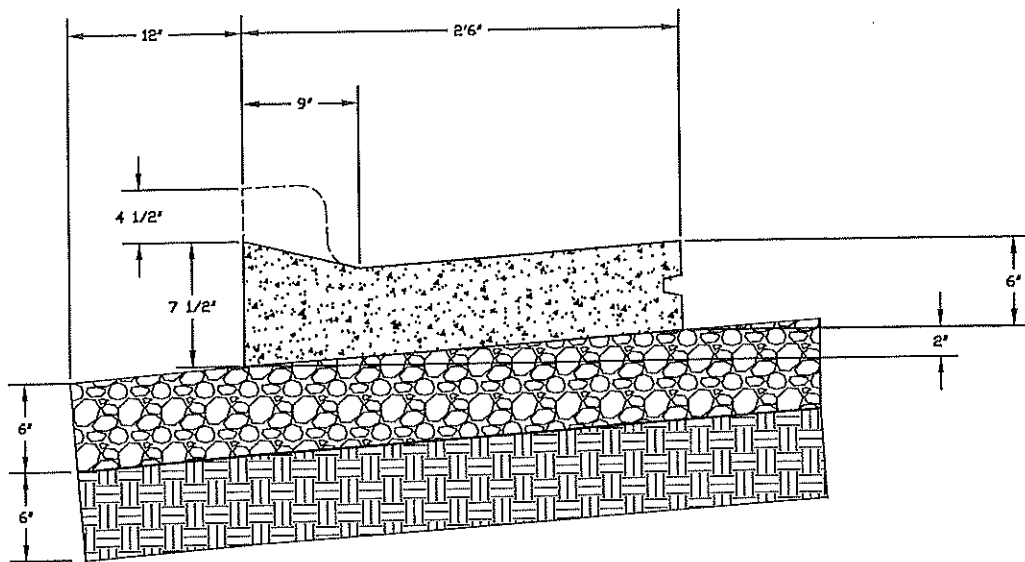


DATE:	05/06/22
DWG:	D1-B

# TYPICAL CURB AND GUTTER - CONCRETE



# TYPICAL DRIVEWAY OPENING - CONCRETE



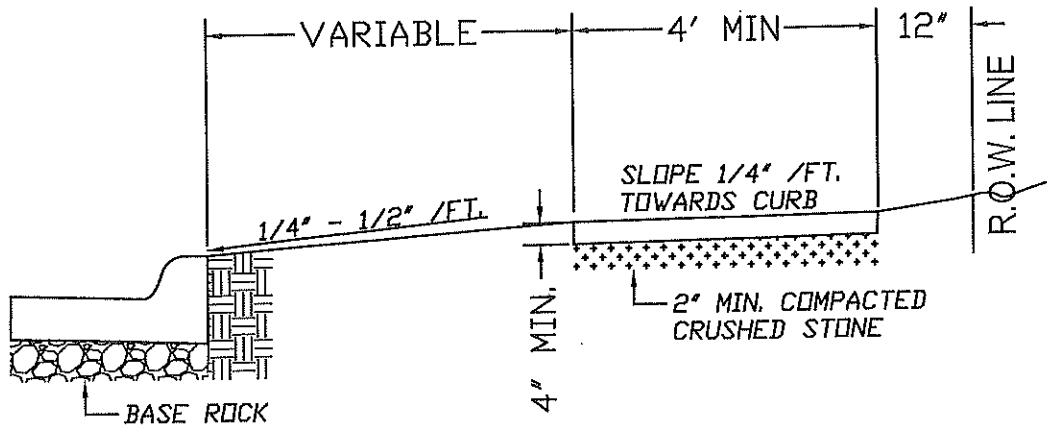
**NOTES:**

1. Keyway or #5 Dowel @ 2'6" to be used on all Concrete Pavement. Keyway and Dowel may be omitted where Asphalt Pavement is used.
2. 6" Type 1 compacted base rock shall be placed under curb and extended 1' behind curb.
3. Subgrade & Type I Base Rock must be compacted to 95% Standard Proctor.



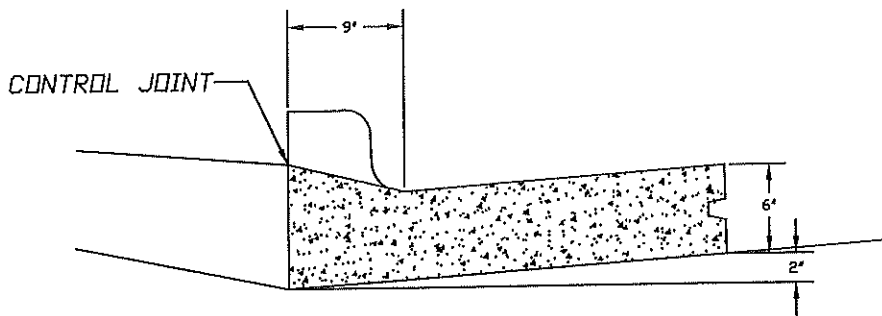
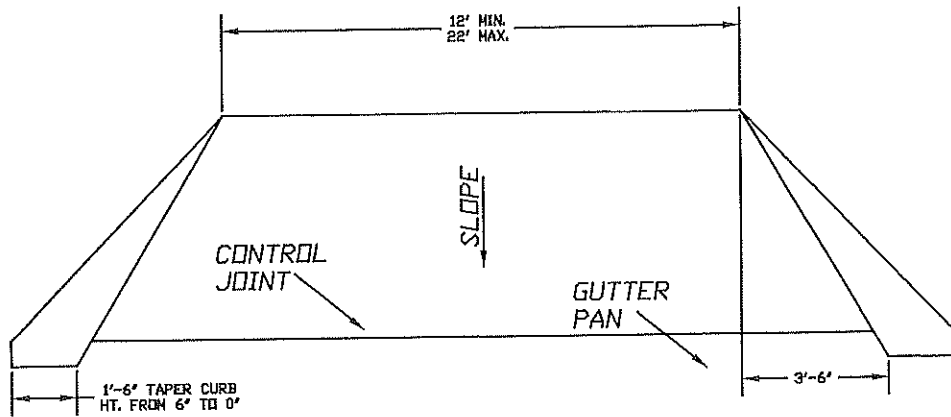
**CONCRETE CURB and  
GUTTER - DETAIL**

DATE: 05/06/22  
DWG: D5



NOTES:

1. JOINTS SHALL BE FORMED AT RIGHT ANGLES TO THE ALIGNMENT OF THE SIDEWALK
2. THE SIDEWALK SHALL BE MARKED OFF INTO SQUARE STONES BY CONTRACTION JOINTS. CONTRACTION JOINTS SHALL BE ONE-EIGHT ( $1/8$ ) INCH WIDE (MIN.) BY ONE (1) INCH DEEP AND SHALL BE FORMED BY TOOLING.
3. EXPANSION JOINTS SHALL BE FORMED BY A ONE-HALF ( $1/2$ ) INCH THICK PREFORMED JOINT FILLER, EXTENDING THE FULL DEPTH OF THE SLAB, AND SECURED SO THAT THE JOINT FILLER IS NOT MOVED BY DEPOSITING AND COMPACTING THE CONCRETE AT THESE JOINTS.
4. EXPANSION JOINTS SHALL BE PLACED WHERE SIDEWALK ABUTS TO OTHER STRUCTURES AND SHALL NOT BE SPACED MORE THAN 50 FEET APART ON STRAIGHT RUNS FOR HAND LAID SIDEWALK AND NOT MORE THAN 100 FEET APART ON STRAIGHT RUNS FOR MACHINE LAID SIDEWALK.



See Drawing D5 for Gutter Detail

Gutter Pan shall remain intact or be replaced - no joints are allowed in the bottom of the gutter pan.

Control Joints are required where driveway meets gutter line.



# STANDARD CURB TAPER & DRIVEWAY OPENING

DATE	05/09/22
DWG#	D6