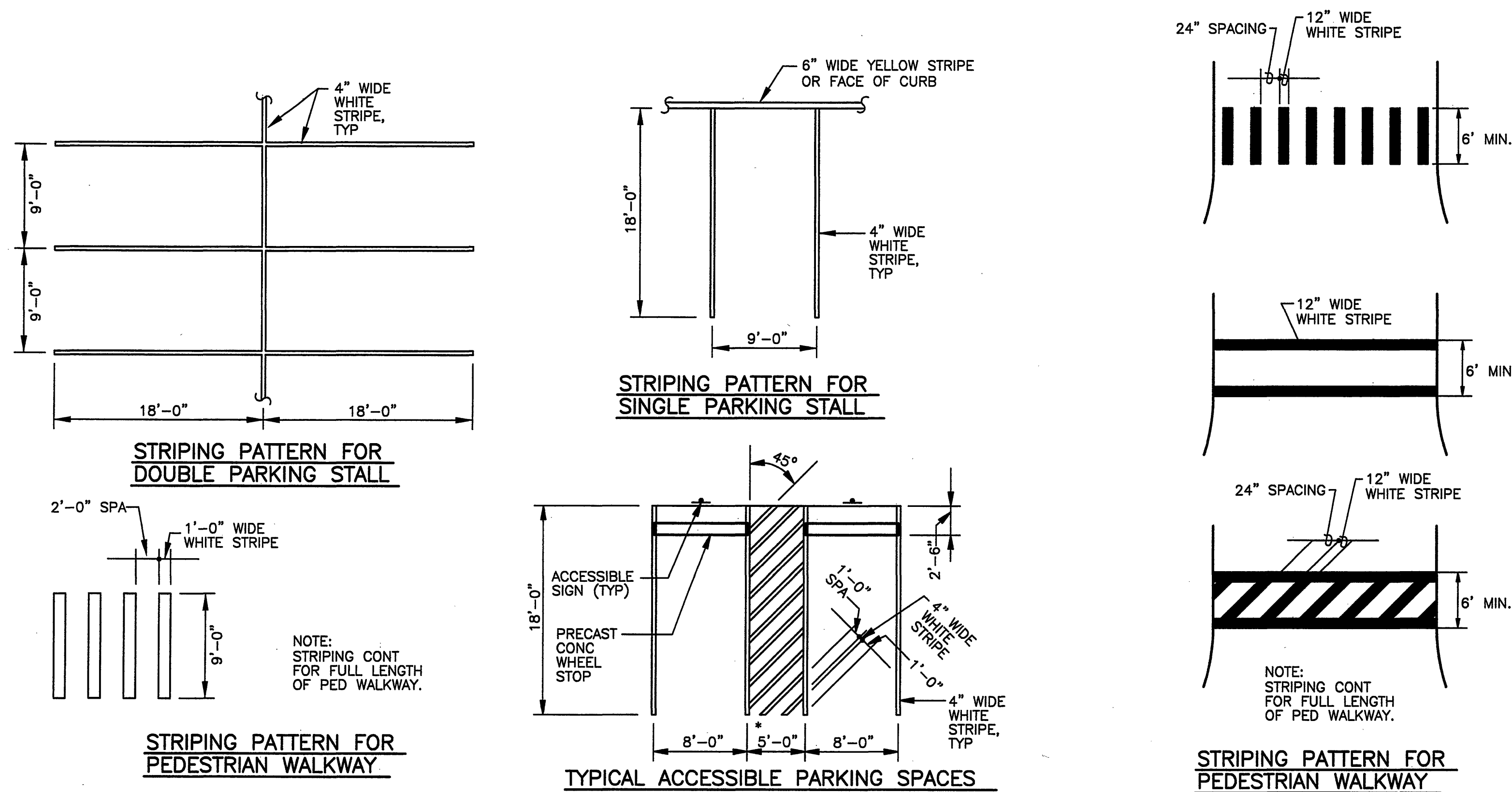
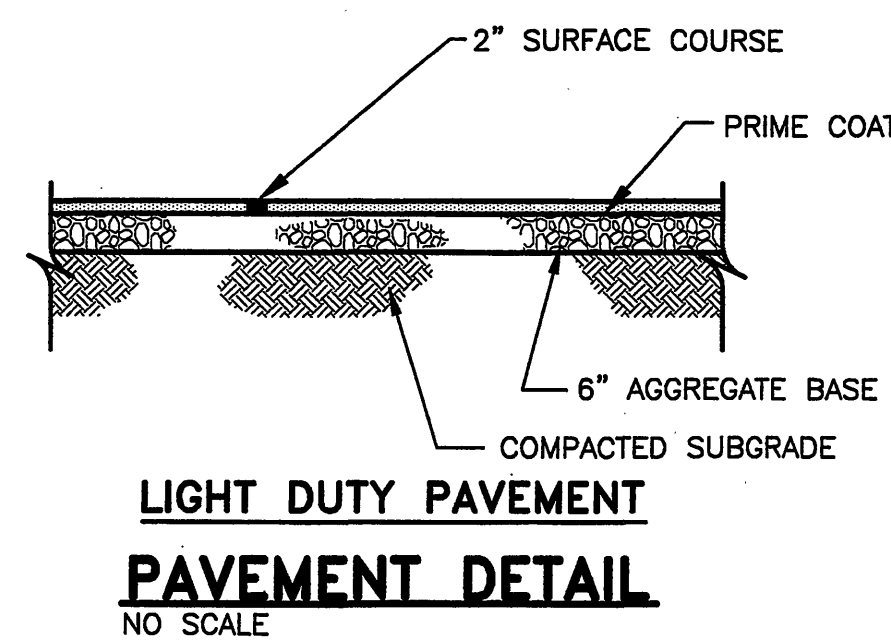
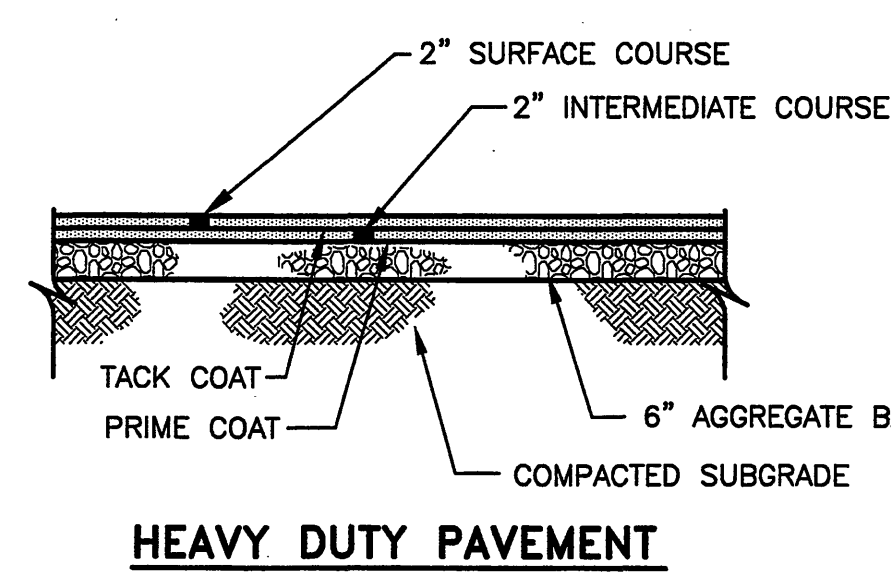




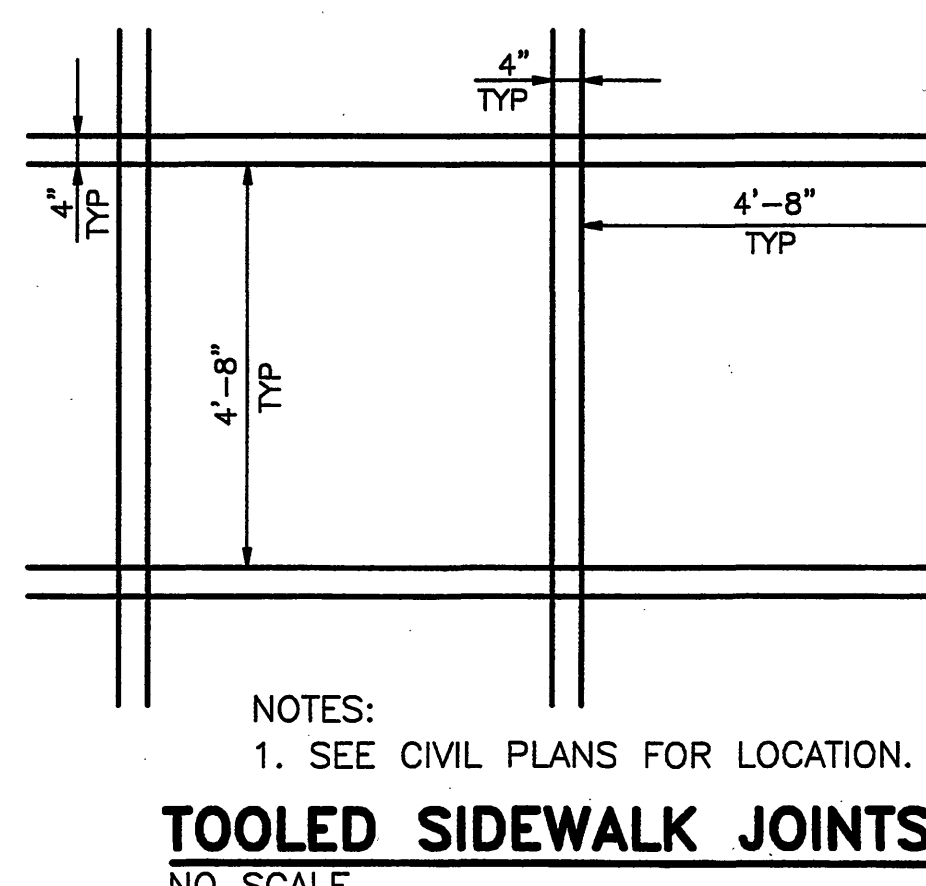
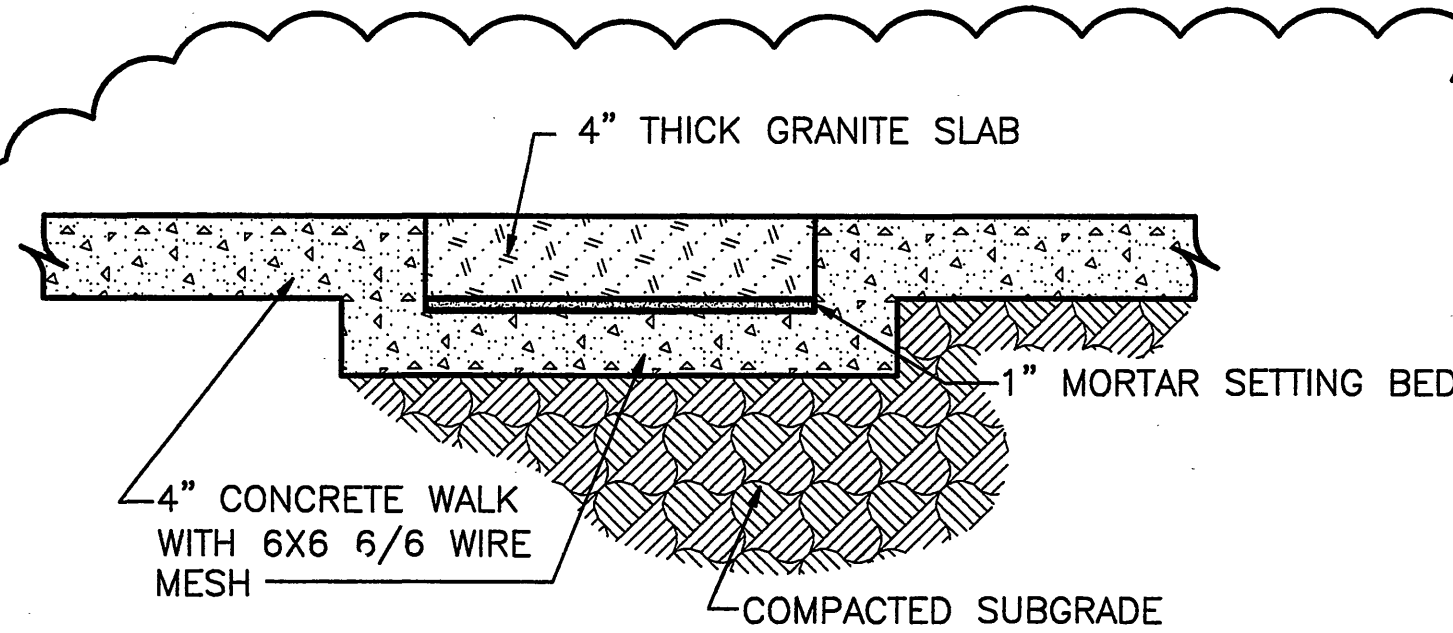
PAVEMENT MARKING DETAILS
NO SCALE

PAVEMENT MARKING DETAILS
NO SCALE

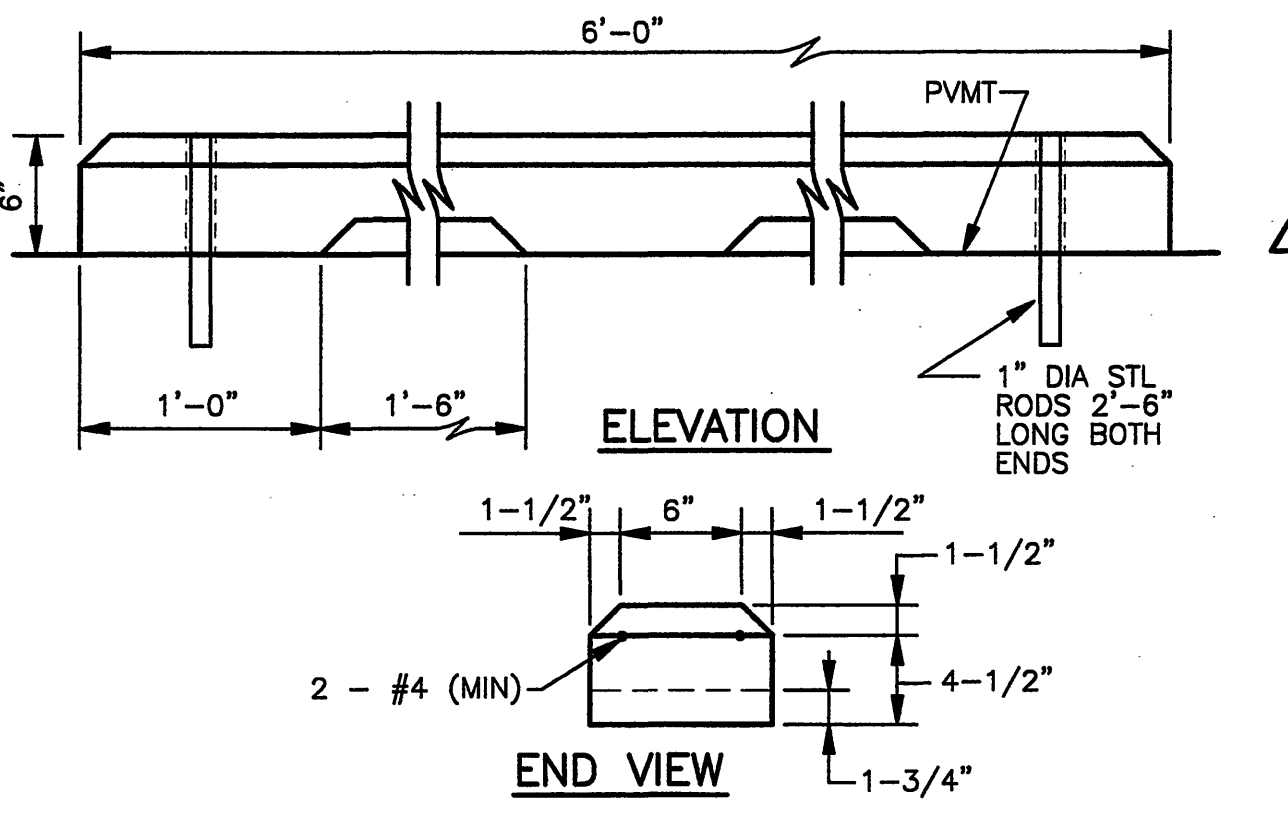
PAVEMENT MARKING DETAILS
NO SCALE



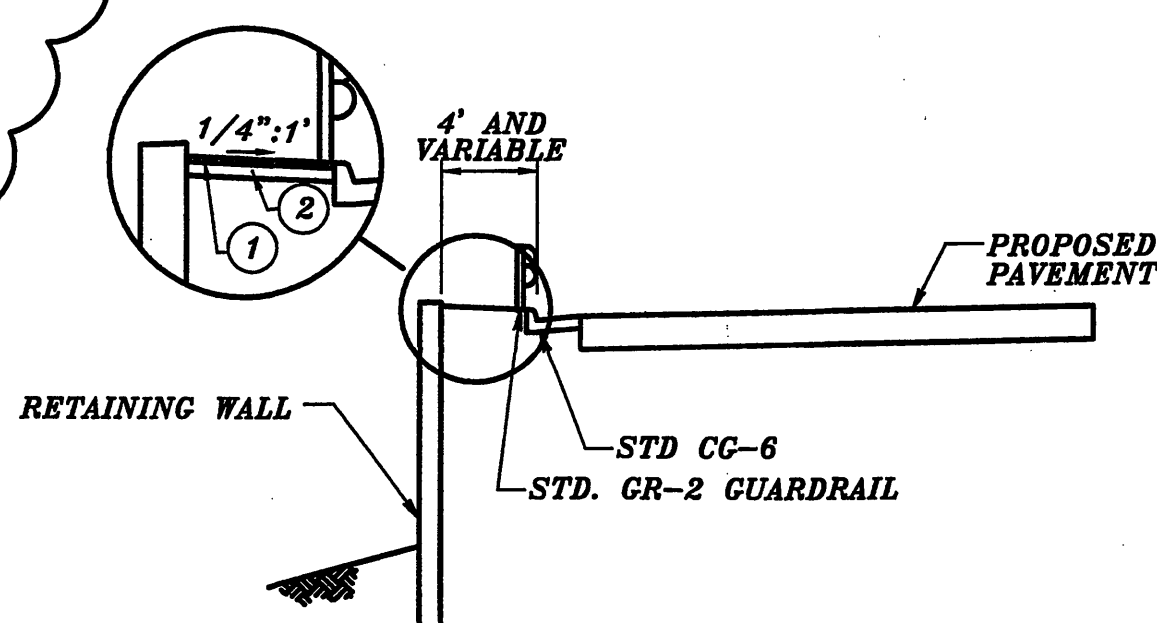
PAVEMENT DETAIL
NO SCALE



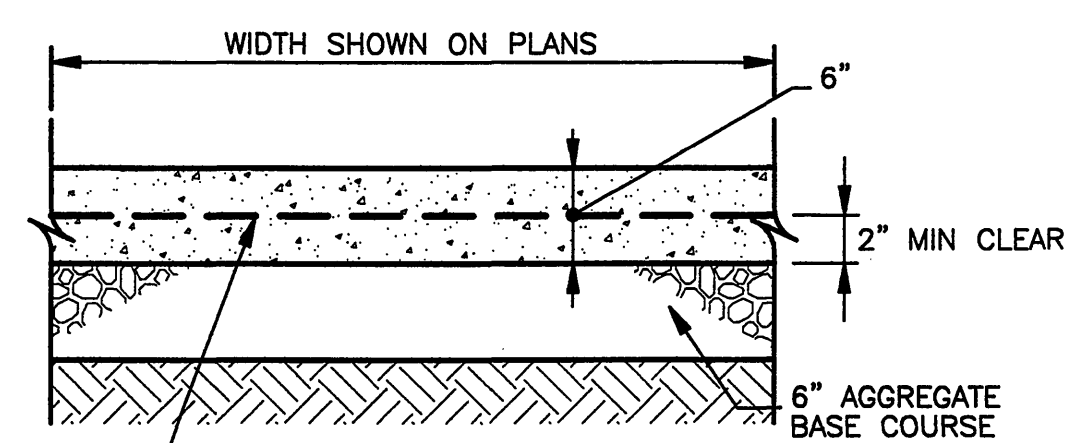
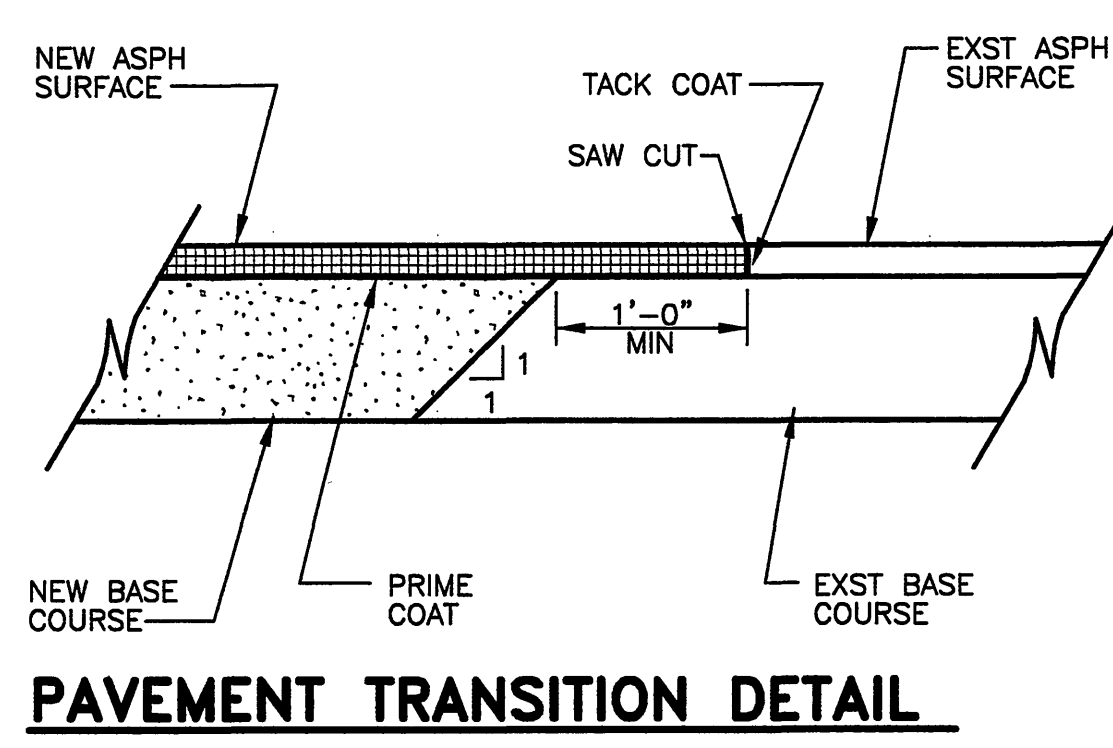
TOOLED SIDEWALK JOINTS
NO SCALE



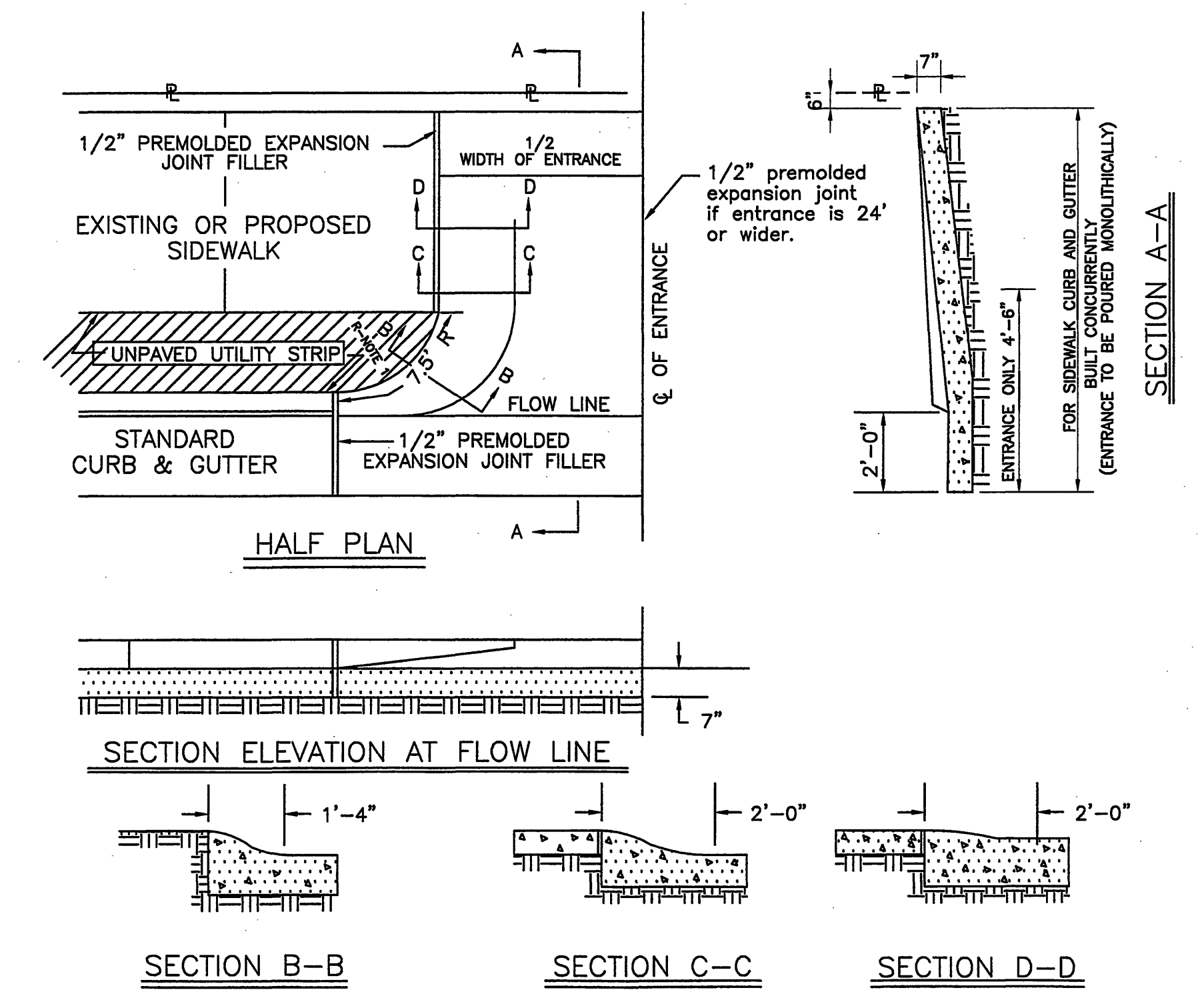
PRECAST WHEEL STOP
NO SCALE



GUARD RAIL DETAIL AT ENTRANCE OFF BELLVIEW
NO SCALE

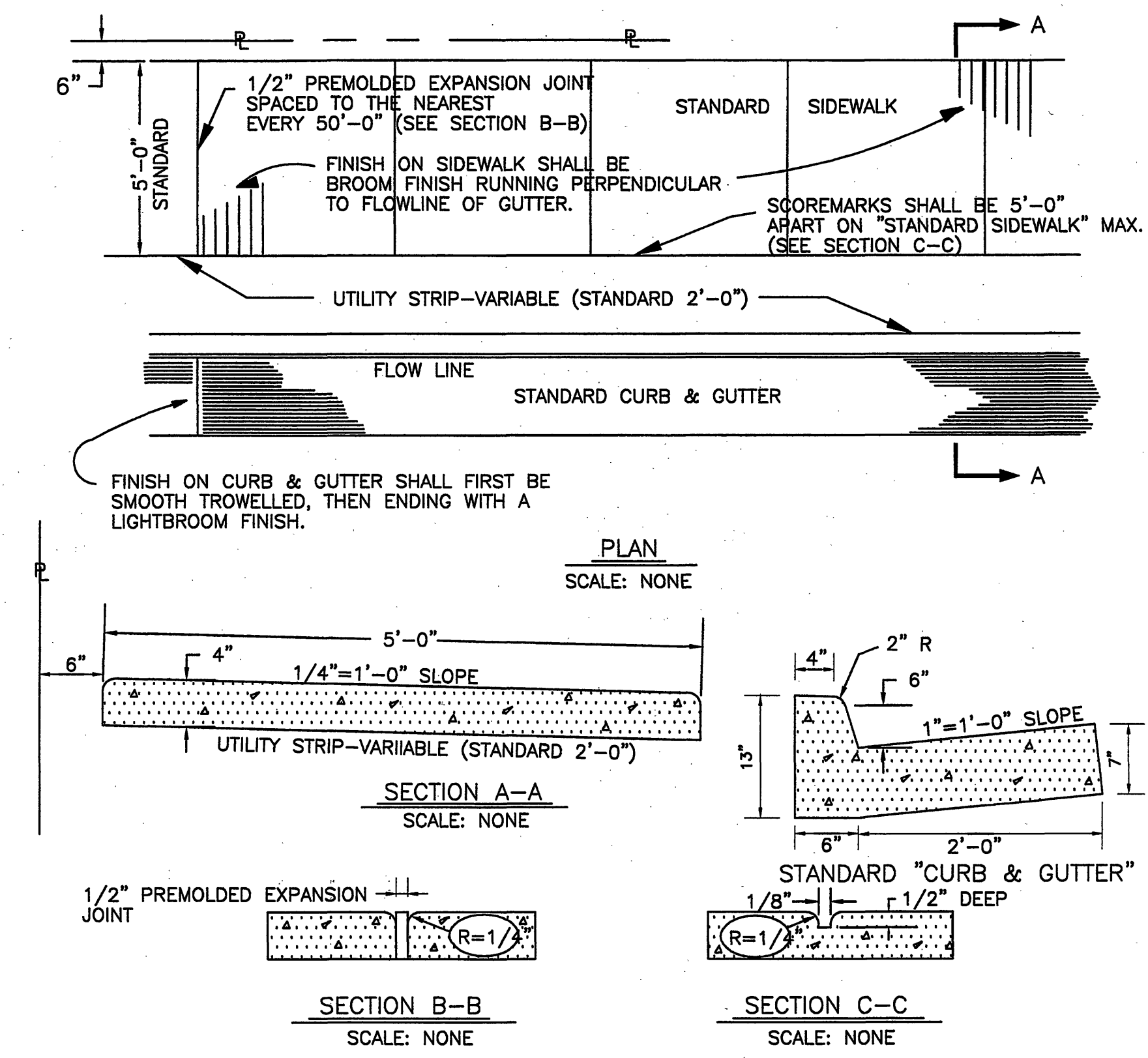


RIGID PAVEMENT DETAILS
NO SCALE



- GENERAL NOTES:**
- Standard commercial "Entrance" shall have a minimum curb radius (R) of 7 1/2 feet.
 - Minimum Entrance width to be 12 feet.
 - Where curb & gutter already exists both curb & gutter shall be removed. If proposed entrance falls within five (5) feet of an existing joint removal & reconstruction shall be to that joint. Any concrete removed at other than an existing joint shall be cut with a mechanical saw specifically manufactured for that purpose; this also shall apply to street pavement.
 - Where sidewalk exists or is to be constructed across driveways the thickness thereof must correspond with the thickness of the entrance.
 - Whenever "Entrance" exceeds twenty-four (24) feet in width a 1/2" premolded expansion joint filler shall be installed through the center perpendicular to flow line.
 - Finish "Entrances" shall have a "course broom finish" running parallel to flow line.
 - Curing shall be accomplished by the use of a liquid membrane seal containing white pigment applied at the rate of one (1) gallon per 150 square feet.
 - All "Entrance Ways" shall be constructed according to City of Roanoke specifications and to line and grades approved by the City Engineering Department.
 - Entrances exceeding 30 feet in width shall be approved by the City Manager.

CITY OF ROANOKE COMMERCIAL ENTRANCE
NO SCALE

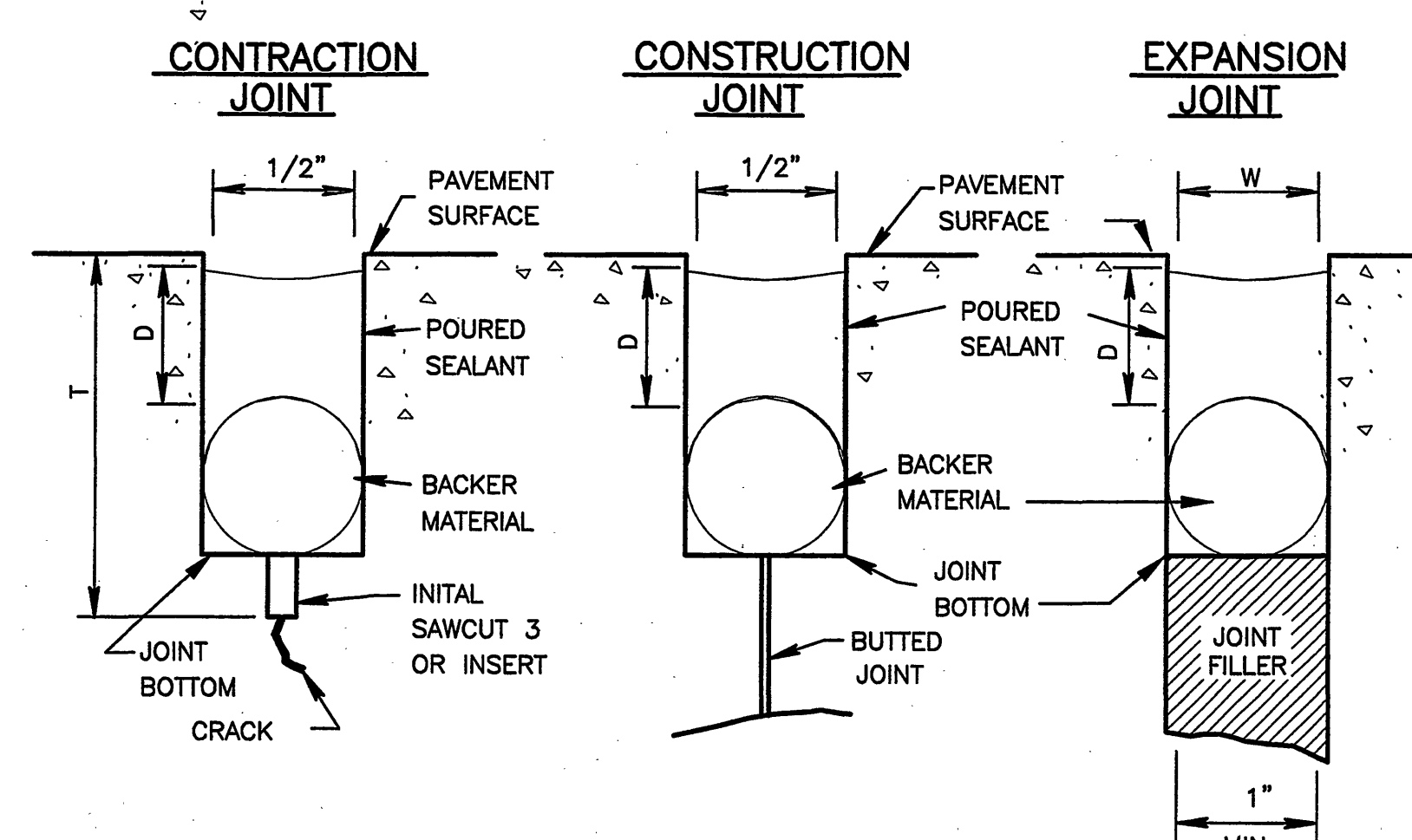


- GENERAL NOTES:**
- All concrete shall be Class A 3000 p.s.i.
 - Spacing for Expansion Joints shall be the same for sidewalks as that for "Curb and Gutter," unless otherwise noted.
 - Sidewalk Finish: Sidewalk shall be smooth troweled, then ending with a "Light Broom Finish" unless otherwise noted.
 - When sidewalk abuts Curb or Building a 1/2" Premolded Expansion Joint is to be used.
 - Curing shall be accomplished by the use of a liquid membrane seal containing White Pigment, applied at the rate of one (1) gallon per 150 square feet.
 - All concrete "Curb and Gutter," and "Sidewalks" shall be constructed under the City of Roanoke's specifications and is to be in line and grade approved by the City Engineering Department.

CITY OF ROANOKE CONCRETE SIDEWALK 6" CURB AND GUTTER
NO SCALE

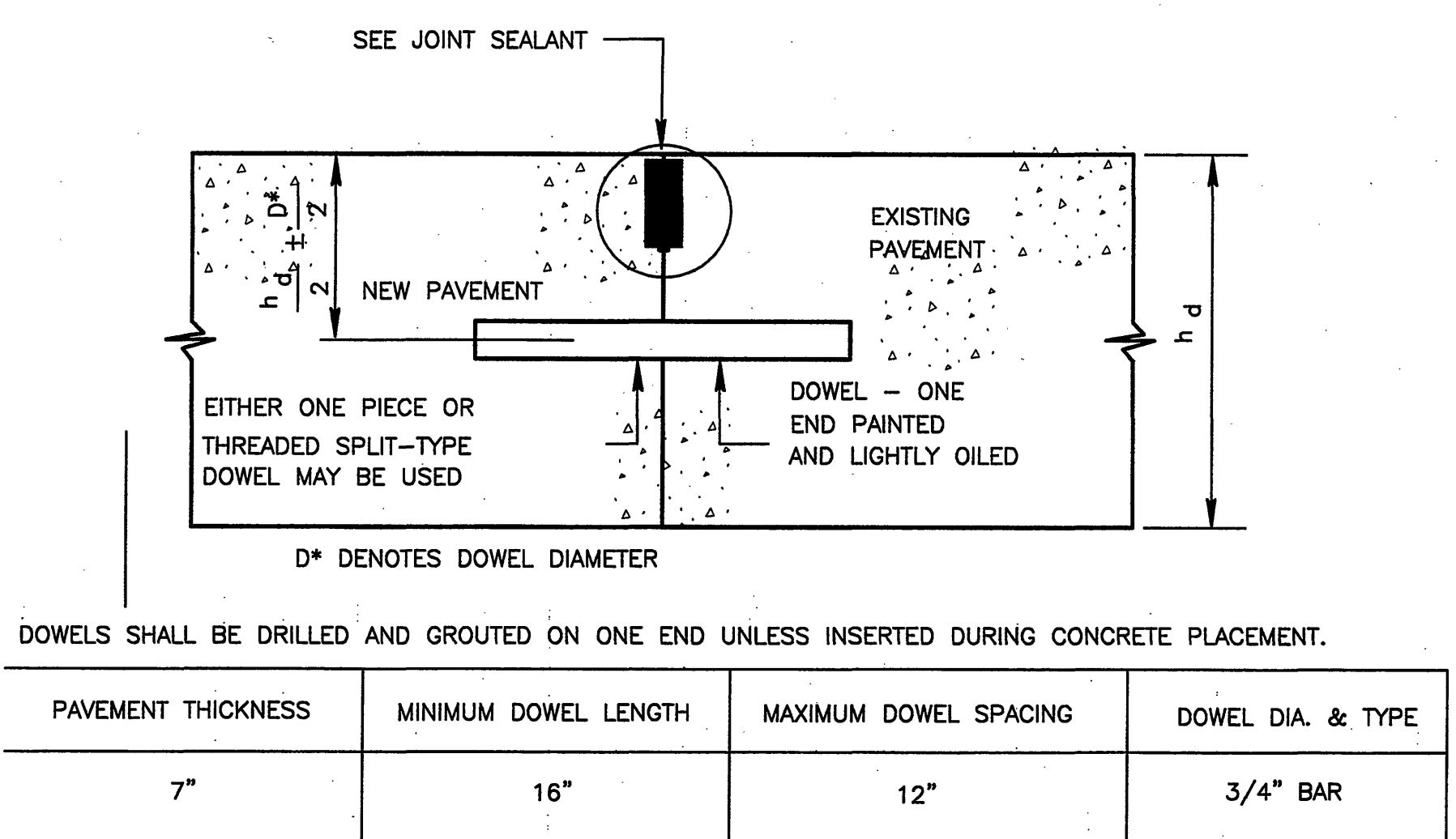
NOTE:

City of Roanoke 6" Curb and Gutter shall be used as Replacement of Existing Curb and Gutter where adjacent or existing 7" curb is present. All new Curb and Gutter shall be Standard CG-6 Virginia Department of Transportation Road and Bridge Standards.



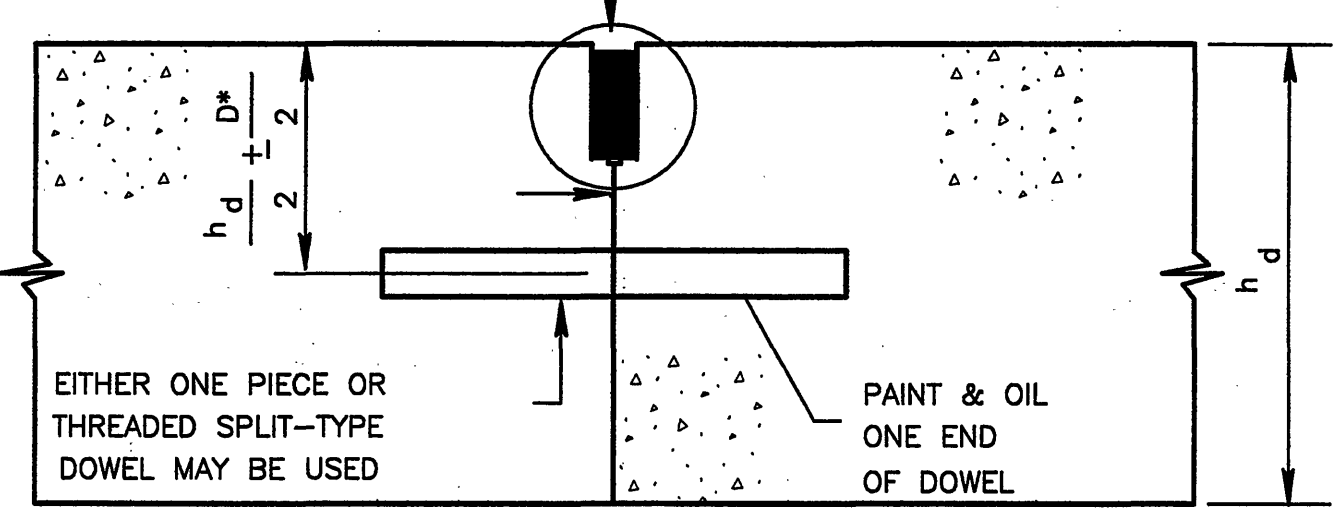
- NOTES ON POURED JOINT SEALANT:**
- DEPTH (D) OF SEALANT EQUAL 1 TO 1.5 TIMES THE WIDTH (W) OF THE SEALANT RESERVOIR

POURED JOINT SEALANT

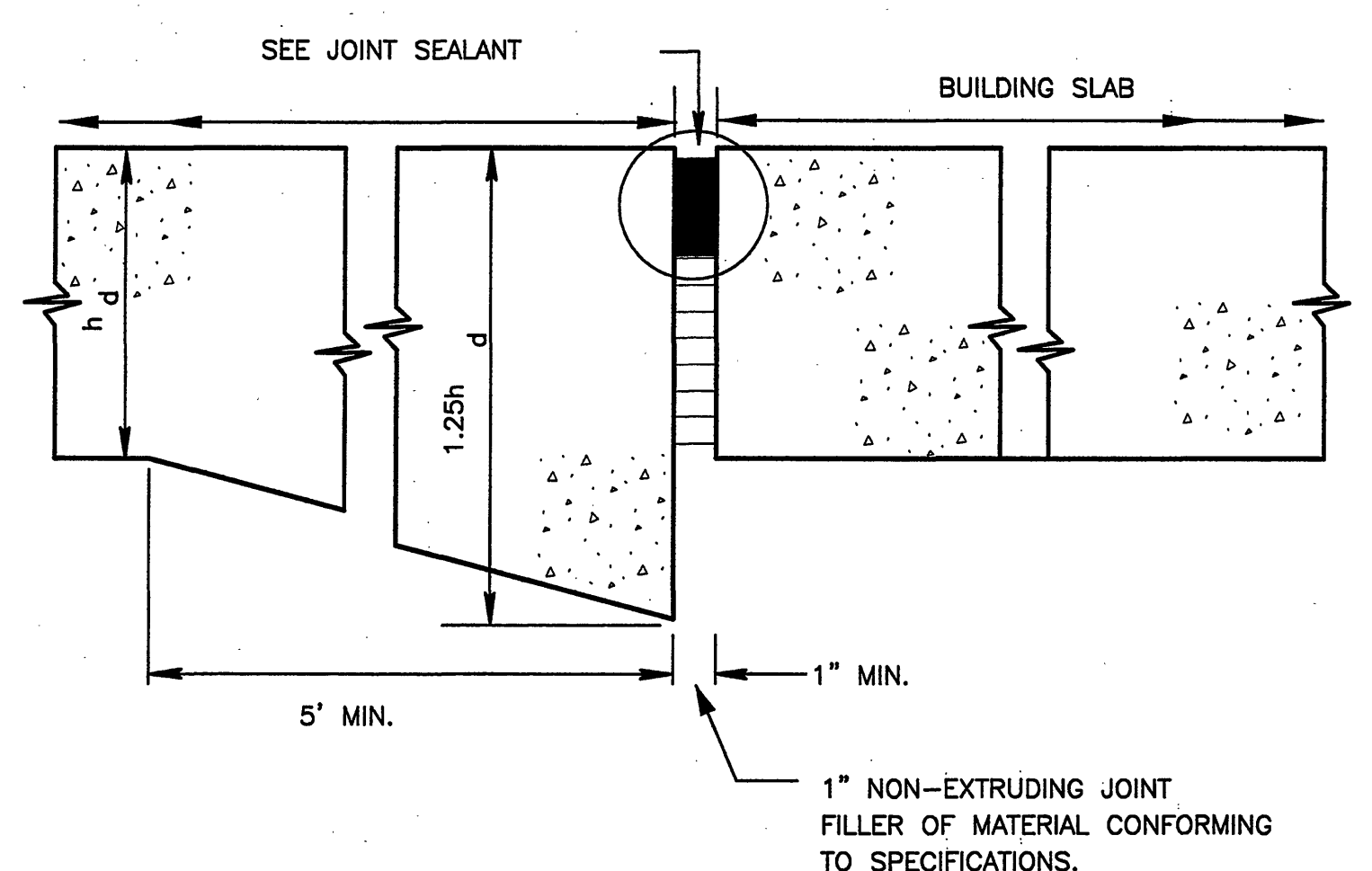


PAVEMENT THICKNESS	MINIMUM DOWEL LENGTH	MAXIMUM DOWEL SPACING	DOWEL DIA. & TYPE
7"	16"	12"	3/4" BAR

CONTRACTION JOINT (WIDTH 1/2")



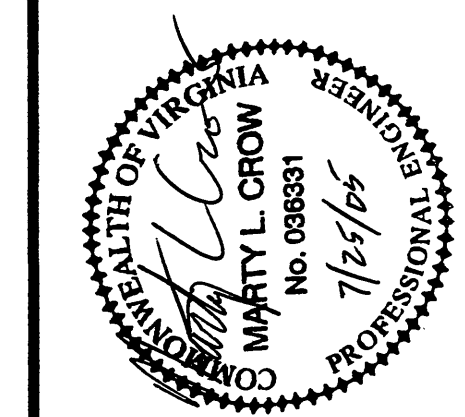
TRANSVERSE OR LONGITUDINAL CONSTRUCTION JOINT - DOWELED



EXPANSION JOINT - THICKENED EDGE AT BUILDING EDGE

- NOTE:**
- ALL CONSTRUCTION JOINTS WILL BE DOWELED BUTT TYPE REINFORCED WITH 32 BARS OR 25 EXTRA STRENGTH PIPE AT 15" SPACING.
 - ALL ODD SHAPED SLABS (AS INDICATED) WILL BE REINFORCED WITH 10 BARS SPACED 12" EACH WAY.

RIGID PAVEMENT DETAILS
NO SCALE



CONSULTANT
H. M. M.
HELLMUTH, OBATA & KASSABAUM, INC.
ARCHITECTURE ENGINEERING PLANNING INTERIORS GRAPHICS CONSTRUCTIVE
ST. LOUIS, MISSOURI 63102 USA

CARLION Health System
CMC CONSOLIDATION HOSPITAL
CARLION ROANOKE MEMORIAL HOSPITAL
ROANOKE, VIRGINIA

HSM
ARCHITECTS ENGINEERS PLANNERS, INC.
HAYES, SEAY, MATERN & MATERN, INC.
1315 FRANKLIN ROAD
FARMERSVILLE, VA 22429
(540) 857-3100
WWW.HSM.COM

REV	DATE	DESCRIPTION	BY	CHK
1	7/1/04	PHASE I AND II SITE PACKAGE SUBMITTAL	MD	MD
2	08/26/04	FOUNDATION SUBMITTAL	MD	MD
3	07/25/05	SHAPE REVISION PHASE II SITE	MD	MD

COMMA NO:	40444
ISSUE DATE:	JUN 04, 2004
DESIGNED BY:	MD
CHECKED BY:	MD
SUBMITTED BY:	MD

CIVIL
DETAILS
© HAYES, SEAY, MATERN & MATERN, INC., 2005. ALL RIGHTS RESERVED.