10-22-1

CHAPTER 22

TABLES AND PLATES

SECTION:

10-22-1: Tables and Plates

TABLE 1

DESIGN CHARACTERISTICS FOR STREETS

Surface Characteristics (1)

Pavement Type and (2) Materials Used	Minimum Thickness			
	Arterial	Collector	Local/Subdivision	Alley*
1. Portland Cement Concrete (uniform thickness)	(1)	7"	6" with 3" minimum rock sub-base	6"
2. Flexible Base (gravel or crushed stone)	(1)	12"	12"	8"
Bituminous Surface Treatment	Subclass A3 or equivalent			
3. Bituminous Aggregate Mixture (BAM) Base	(1)	8"	8"	-
Bituminous Concrete Class 1		1.5"	1.5"	-
4. Flexible Base (gravel or crushed stone)	(1)	10"	10"	-
Bituminous Concrete Class 1		2"	2"	-

*Where permitted

Notations (1) through (8), as referenced above, can be found on the following pages.

** As per requirements of the Arthur Zoning Ordinance

10-22-1

Distances, Grades & Dimensions

	Arterial	Collector	Local/Subdivision	Alley
1. Right-of-way (minimum)	80'	60'	60'	20'
2. Horizontal and Vertical (3) Visibility	500'	350'	200'	-
3. Minimum Radius on curves	800'	400'	100'	-
4. Maximum Grades	5 (4)	6 (4)	8 (4)	-
5. Minimum Setbacks	**	**	**	**
6. Pavement Width	(7)	7)	(7)	-
7. Curb and Gutter Requirement	(8)	(8)	(8)	-

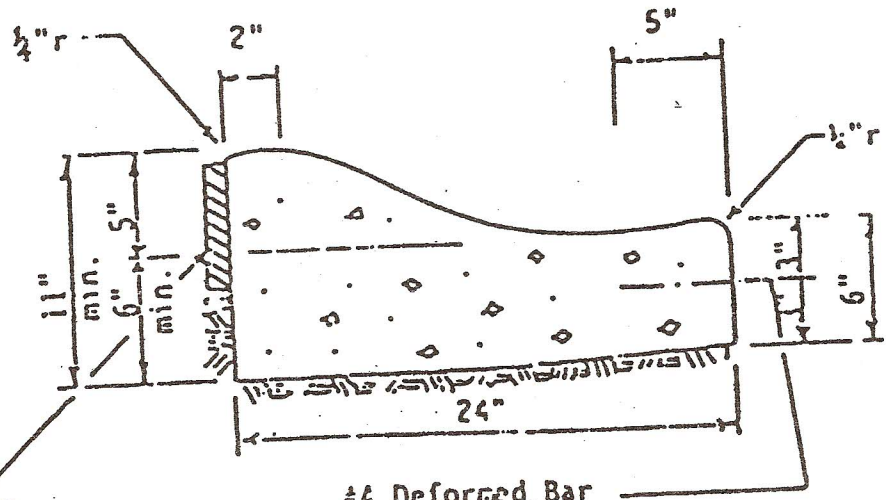
*Where permitted

Notations (1) through (8), as referenced above, can be found on the following page.

**As per requirements of the Arthur Zoning Ordinance

PLATE 1

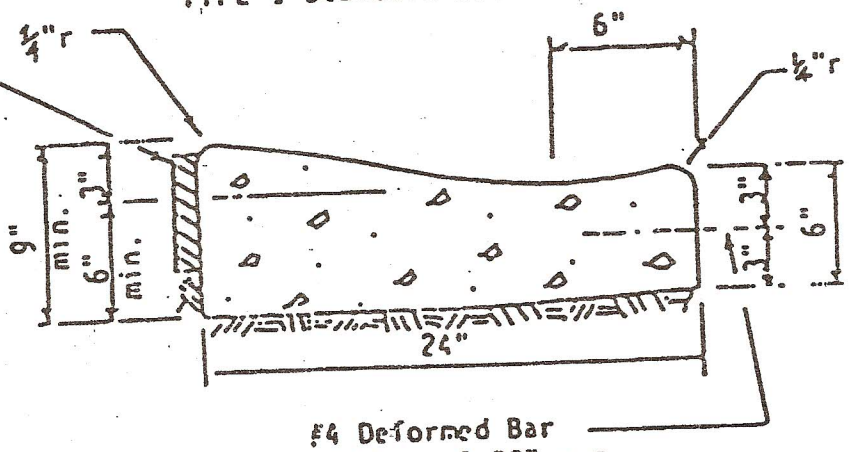
CURB AND GUTTER STANDARDS



#4 Deformed Bar
18" long @ 30" o.c.

TYPE 1 Standard Section

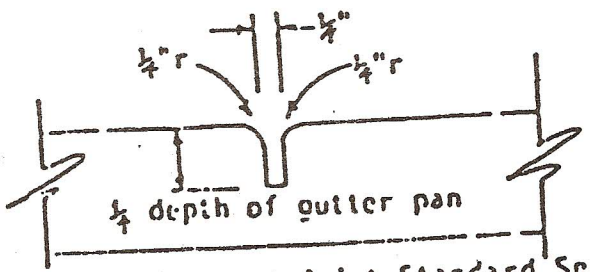
1" Longitudinal Expansion Joint to be Used Where Adjacent Driveway is P.C.C. Pavement



#4 Deformed Bar
18" long @ 30" o.c.

TYPE 2 Standard Section

NOTE: #4 Deformed bars may be omitted where adjacent to other than P.C.C. pavement. Either type curb & gutter may be used except, Type 1 shall be used where the County Engineer determines that the flow capacity of Type 2 is insufficient.



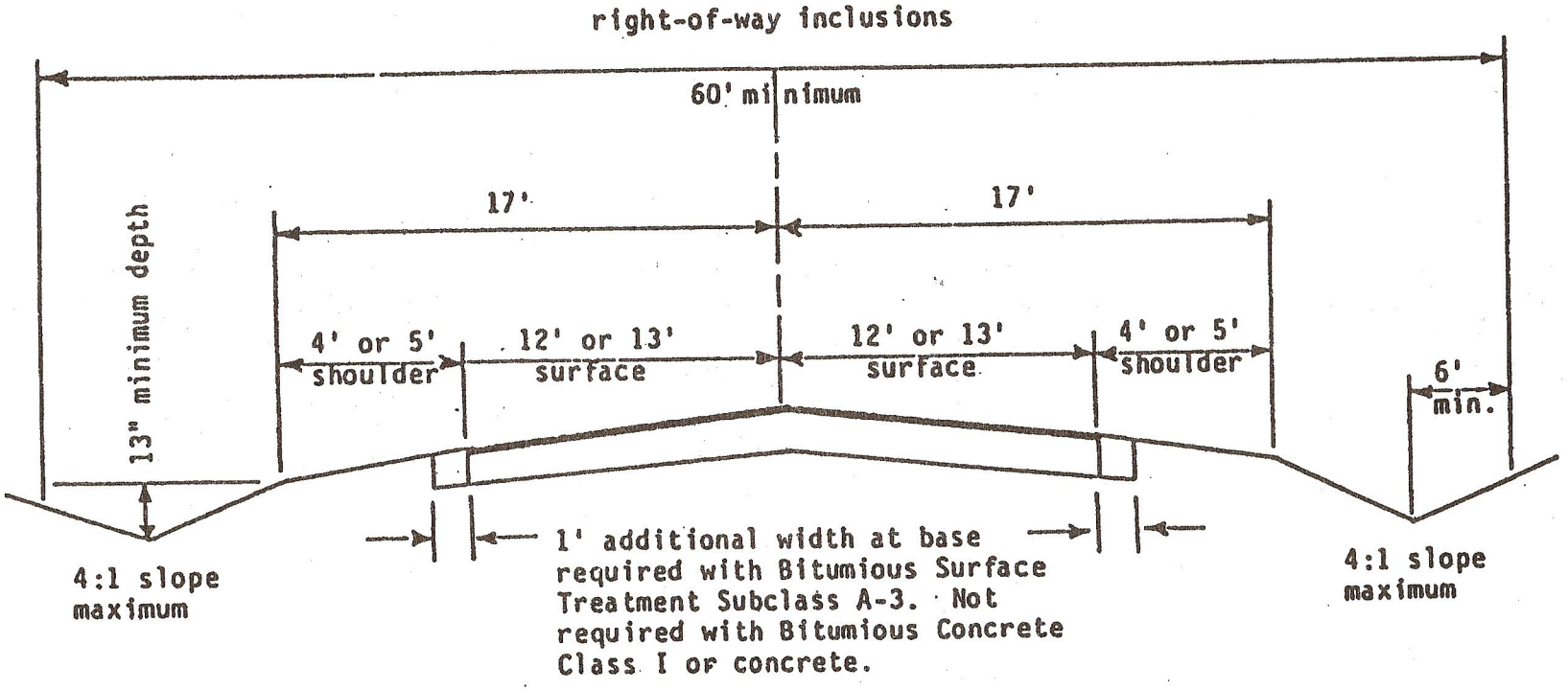
Dummy Contract Joint Standard Section

NOTE: Dummy contraction joints shall be spaced at a maximum distance between joints of 30'. The joint shall be filled with P.A.F.2 joint filler or ready mixed concrete joint sealing compound applied according to manufactures specifications.

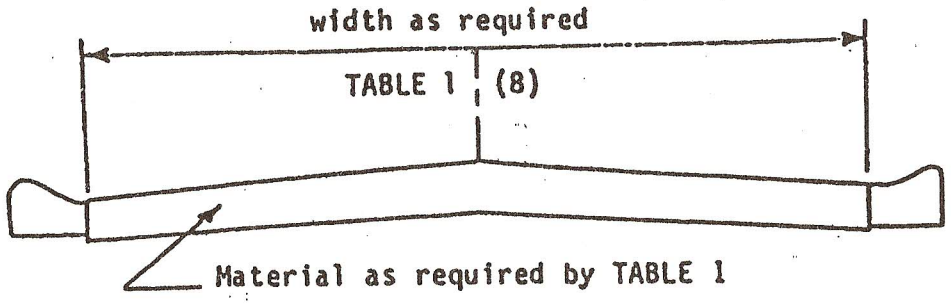
PLATE 2

RIGID PAVEMENT DESIGN

SUBDIVISION STREET WITHOUT GUTTER



SUBDIVISION STREET WITH GUTTER



Distribution of rainfall intensity (24-hour 2-year) I, in inches, in Illinois (modified from Hershfield, 1961).

Figure 4-101.01 c

Plate 4

RAINFALL INTENSITY vs. DURATION

SOUTH CENTRAL ILLINOIS

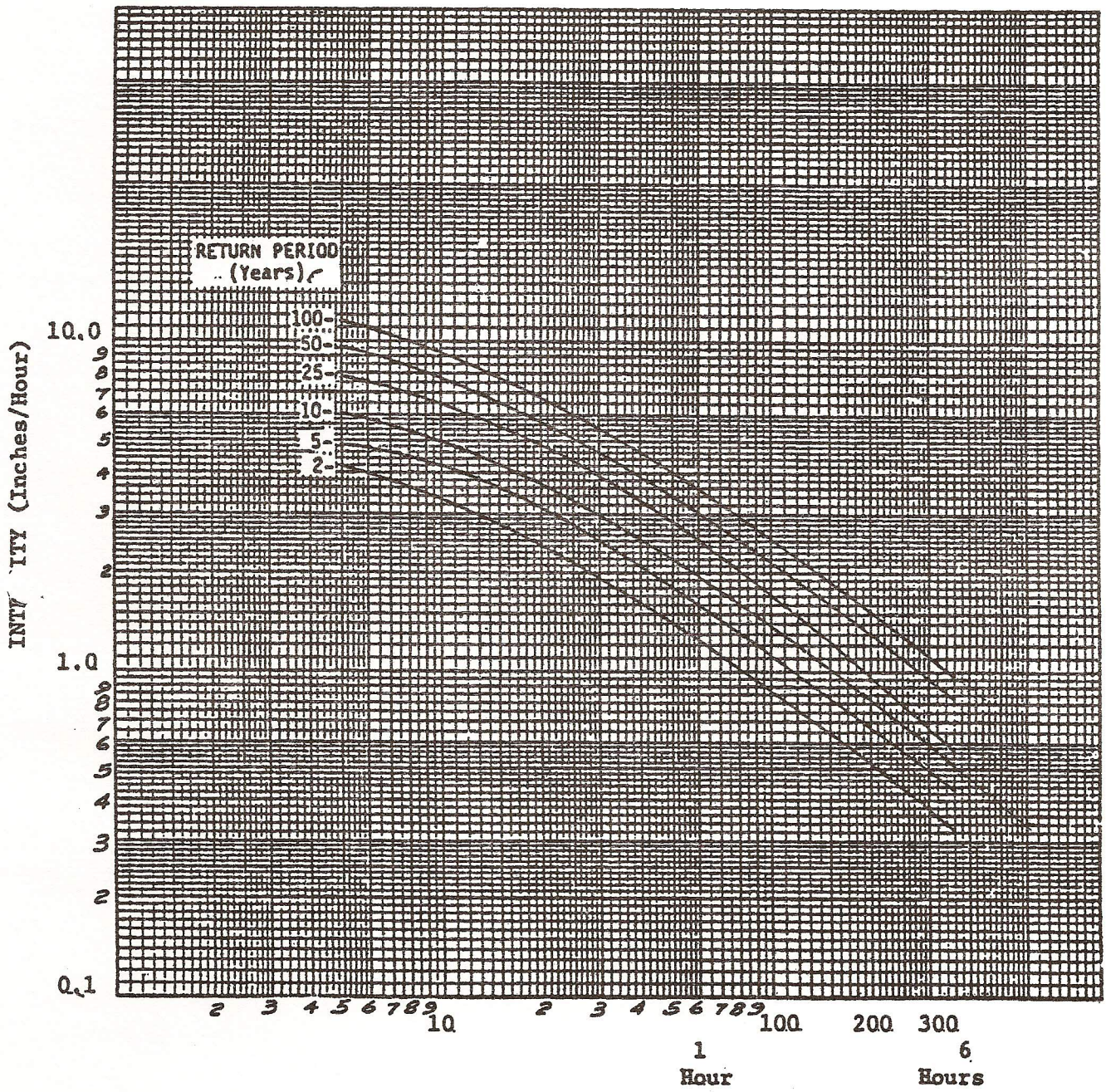


Figure 4-103d

10-22-1

NOTATIONS REFERENCED FROM TABLE ONE

1. Pavement design shall conform to the design standards established by the Design Manual, as amended, of the Illinois Department of Transportation, Bureau of Design; except, that standards shown in Table 1 represent absolute minimums.

2. All definitions and descriptions of paving materials shall conform to Illinois Department of Transportation's specifications.

3. As measured along the road pavement.

4. The gradient within one hundred feet (100') of a street or road intersection shall not exceed two percent (2%).

5. The gradient within one hundred feet (100') of a street or road intersection shall not exceed three percent (3%).

6. As measured from the road rights-of-way to the building setback line.

7. For two (2) land undivided pavements, minimum pavement driving surfaces (pavement edge to pavement edge) shall be not less than twenty-six feet (26') in width, except that: when lot width averages as measured at the building setback line is less than one hundred feet (100') in width or the average lot area is ten thousand (10,000) square feet or less, the pavement shall not be less than thirty-six feet (36') in width (pavement edge to pavement edge). No parking will be permitted on streets with pavement less than thirty-six feet (36') in width.

8. Curbs and gutters shall be required as specified in Section 10-7-2 of these regulations