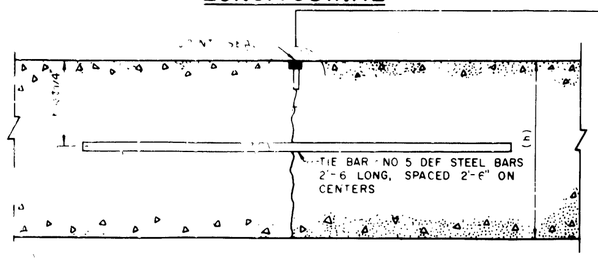
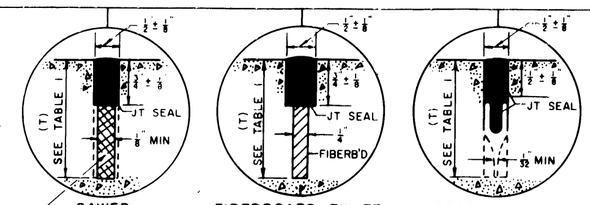
CONTRACTION JOINTS

LONGITUDINAL





SAWED — LOWER PORTION OF SAWED JOINT FILLED WITH FIBERBOARD, REDWOOD OR OTHER APPROVED MATERIAL

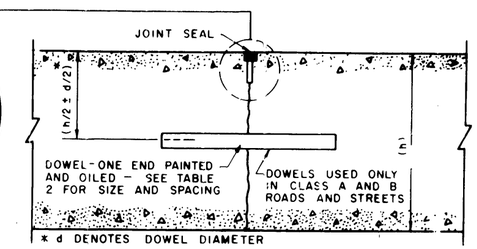
FIBERBOARD FILLER

PREFAB METAL FORM FILLER

TABLE 1

PAVEMENT THICKNESS h, INCHES	DEPTH OF CONTRACTION JT, T, INCHES

TRANSVERSE



* d DENOTES DOWEL DIAMETER

TABLE 2

PAVEMENT THICKNESS h-INCHES	DOWEL SIZE AND SPACING-INCHES			
	DIAMETER-d		LENGTH	SPACING
	SOLID BAR	EX STR PIPE	l	s

NOTE: EITHER ONE PIECE OR THREADED SPLIT TYPE DOWELS MAY BE USED

CONSTRUCTION JOINTS

KEYED LONGITUDINAL

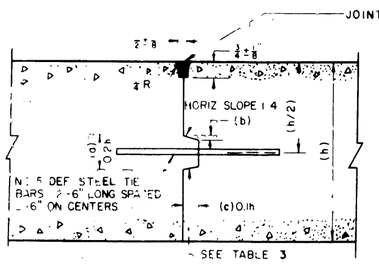
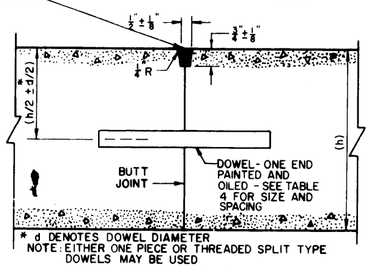


TABLE 3

PAVEMENT THICKNESS h, INCHES	KEYED JOINT DIMENSION INCHES		
	a	b	c

DOWELED TRANSVERSE OR LONGITUDINAL



* d DENOTES DOWEL DIAMETER
NOTE: EITHER ONE PIECE OR THREADED SPLIT TYPE DOWELS MAY BE USED

TABLE 4

PAVEMENT THICKNESS h-INCHES	DOWEL SIZE AND SPACING-INCHES			
	DIAMETER-d		LENGTH	SPACING
	SOLID BAR	EX STR PIPE	l	s

THICKENED EDGE LONGITUDINAL

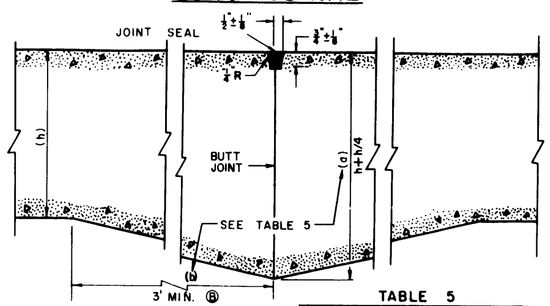
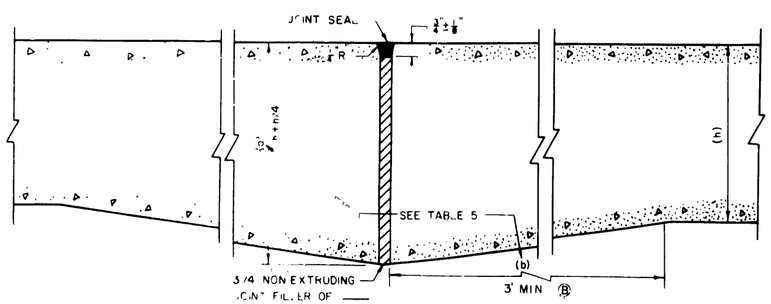


TABLE 5

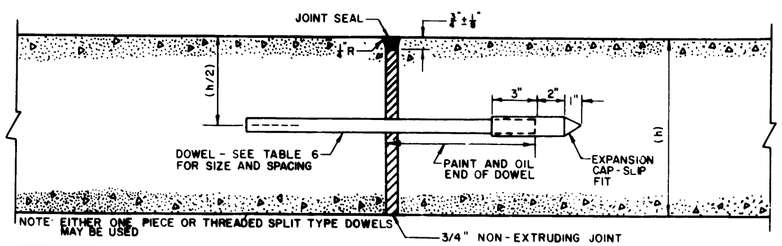
PAVEMENT THICKNESS h-INCHES	JOINT DIMENSIONS	
	(a)	(b)

EXPANSION JOINTS

LONGITUDINAL



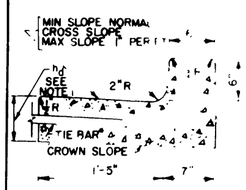
TRANSVERSE



NOTE: EITHER ONE PIECE OR THREADED SPLIT TYPE DOWELS MAY BE USED

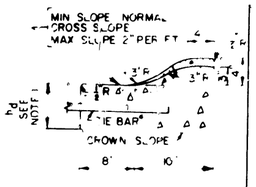
PAVEMENT THICKNESS h-INCHES	DOWEL SIZE AND SPACING-INCHES			
	DIAMETER-d		LENGTH	SPACING
	SOLID BAR	EX STR PIPE	l	s

CURB AND GUTTER DETAILS

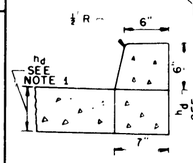


TYPE I BARRIER

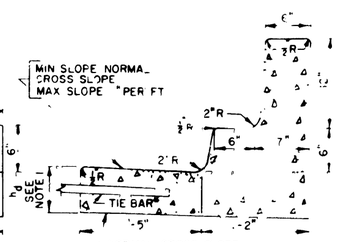
*SEE NOTE 2



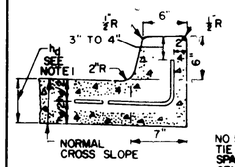
TYPE II MOUNTABLE



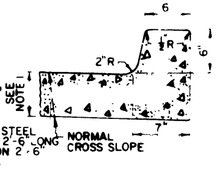
TYPE IV BARRIER



TYPE III OFFSET BARRIER



TYPE V ALTERNATE BARRIER



TYPE V BARRIER

NOTES:

1. h_d IS THICKNESS DETERMINED FROM RIGID PAVEMENT DESIGN CURVE FOR THE DESIGN WHEEL LOAD BUT NOT LESS THAN MINIMUM THICKNESS FOR ROADS AND STREETS.
2. NO. 5 DEFORMED STEEL BARS 2'-0" LONG AND SPACED 2'-6" ON CENTERS REQUIRED AT JUNCTURE OF COMBINED CURB AND GUTTER AND RIGID PAVEMENT.
3. TRANSVERSE JOINTS IN CURB AND GUTTER WILL MATCH TRANSVERSE JOINTS IN ROAD AND STREET PAVEMENT. ALL SUCH JOINTS WILL BE DOWELED USING DOWEL SIZE AND SPACING SHOWN IN TABLE 2
4. TYPES I, II & III COMBINED CURB AND GUTTER CONSTRUCTION WILL NOT HAVE TIE BARS WHEN THE GUTTER IS ADJACENT TO A FLEXIBLE PAVEMENT
5. TYPE IV WILL ALSO BE USED AS FREE STANDING CURB WITH A Ⓐ BURIED HEIGHT OF 12" TO 18" DEPENDING ON LOCAL CONDITIONS

REVISION	DATE	DESCRIPTION	BY	APPROVED
Ⓑ	1-28-64	THICKENED EDGE DIMENSION CHANGED		
Ⓐ	1-24-64	NOTE 5 ADDED		

CORPS OF ENGINEERS U.S. ARMY
OHIO RIVER DIVISION
LABORATORIES
MARIEMONT OHIO

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS
MILITARY CONSTRUCTION ENGINEERING DIVISION
WASHINGTON

DRAWN BY
TRACED BY J.C.
CHECKED BY
SUBMITTED BY
OHIO RIVER DIV. LAB
APPROVED BY
CHIEF CIVIL ENG DIV
APPROVED
CHIEF ENGINEERING DIVISION MILITARY CONSTRUCTION
APPROVED
DATE

NON REINFORCED VEHICULAR RIGID PAVEMENT JOINT, CURB & GUTTER DETAILS

SCALE NO SCALE
SPEC
DRAWING NUMBER 40-17-02
SHEET 1 OF 2

FILMED