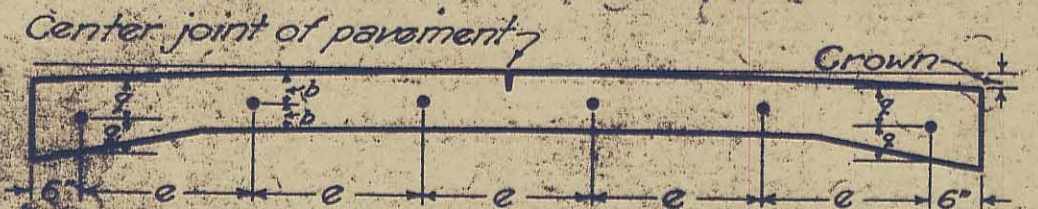
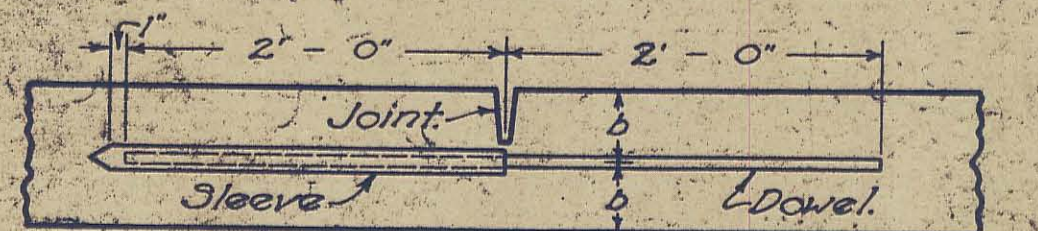


DETAIL OF JOINT SPACING

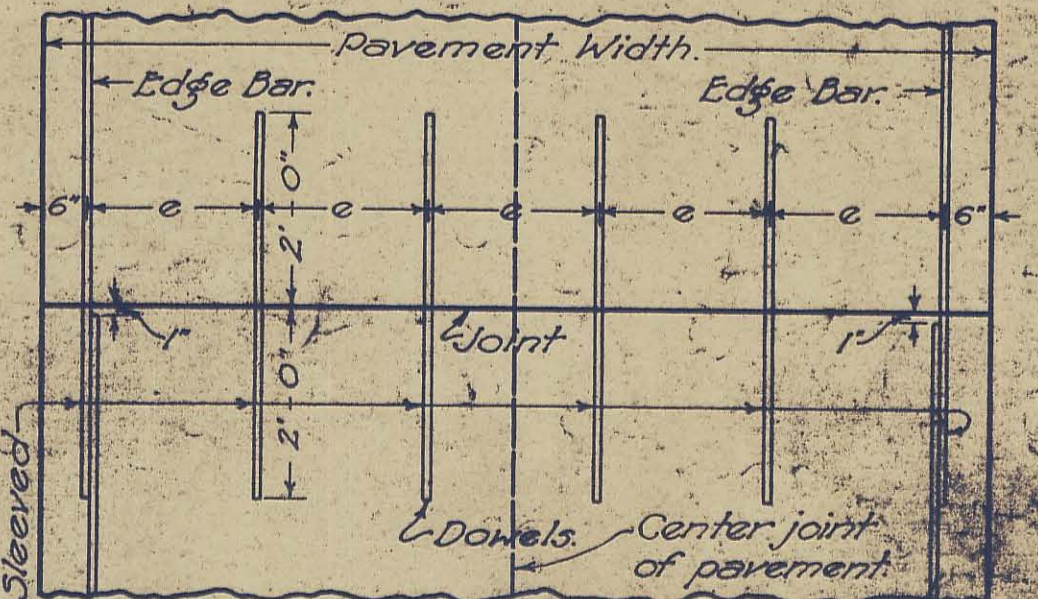


DETAIL OF DOWEL SPACING



DETAIL OF IMPRESSED CONTRACTION JOINT
(To conform to Const. Drawing No. 98)

All dowel and edge bars to be $\frac{3}{4}$ " round smooth bars with nest fitting sliding sleeve on one end.
 All sleeves shall be of metal.
 All dowel and edge bars shall be supported by means of an approved device.
 All joints to be edged with a beading tool of $\frac{1}{8}$ " radius.
 If the width of the pavement exceeds 24' additional sleeved dowel bars shall be placed to preclude of dimension "e" exceeding 4.5'.
 The spacing for joints (e" in diagram above) will be 25' to 30' for a gravel aggregate or resurfacing and 30' to 50' for a broken stone or slag aggregate. Exact spacing to be indicated on typical section sheet for coarse aggregate or type contemplated.



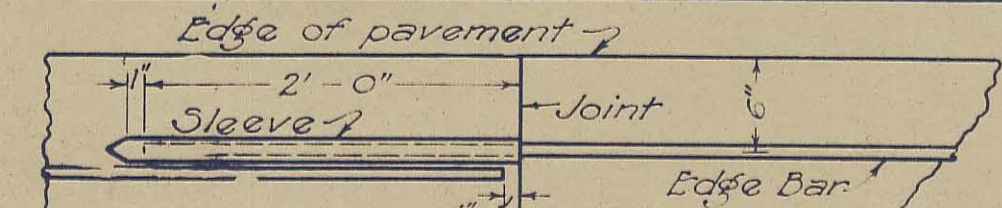
PLAN OF JOINT

C-C=Contraction Joints.
 If the pavement is constructed between the dates of September 15th and May 15th expansion joints shall be constructed at each third joint as per specifications.

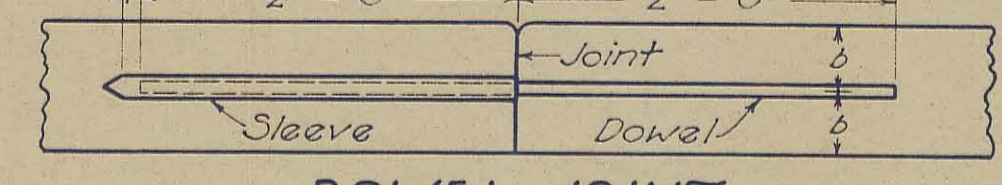
Expansion joints shall also be constructed if shown on the plans special provisions and proposal.

BUREAU OF CONSTRUCTION
 OHIO
 DEPARTMENT OF HIGHWAYS
**SLEEVED DOWEL
 CONTRACTION JOINT**
 STANDARD
 CONSTRUCTION DRAWING **95**
 1930
 APPROVED *H.P.C.* CHIEF ENGR. CONST.

REVISED
 8-1-30
 6-8-31

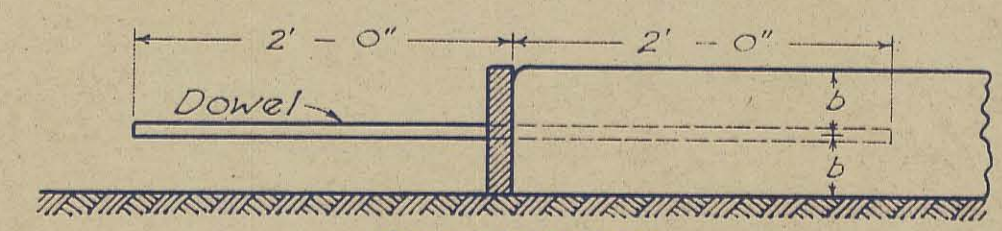


PLAN OF EDGE BARS AT JOINT



DOWEL JOINT

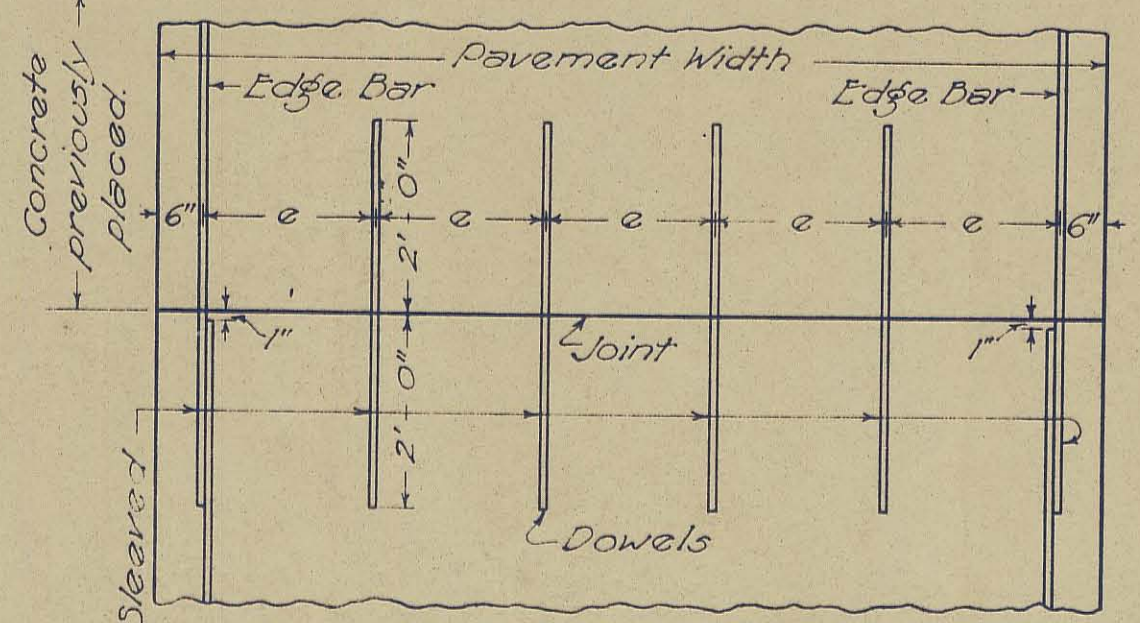
Using round smooth bars with nest fitting sliding sleeves on one end.



BULKHEAD

All bulkheads to be constructed to permit edge bars to be continuous through joints.
 Care shall be taken in removing bulkhead and placing adjacent concrete, to see that the dowel bars are embedded in the concrete without being bent.

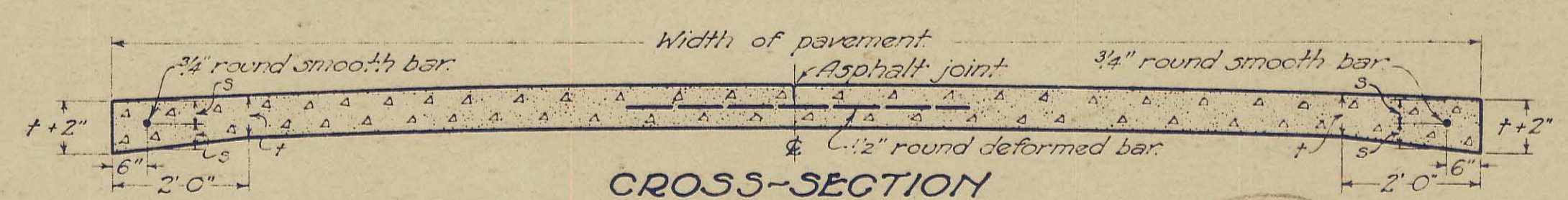
All construction joints to be edged with a beading tool of $\frac{1}{8}$ " radius.
 If the width of the pavement exceeds 24' additional Sleeved Dowel Bars shall be placed to preclude of dimension "e" exceeding 4.5'.
 All sleeves shall be of metal.



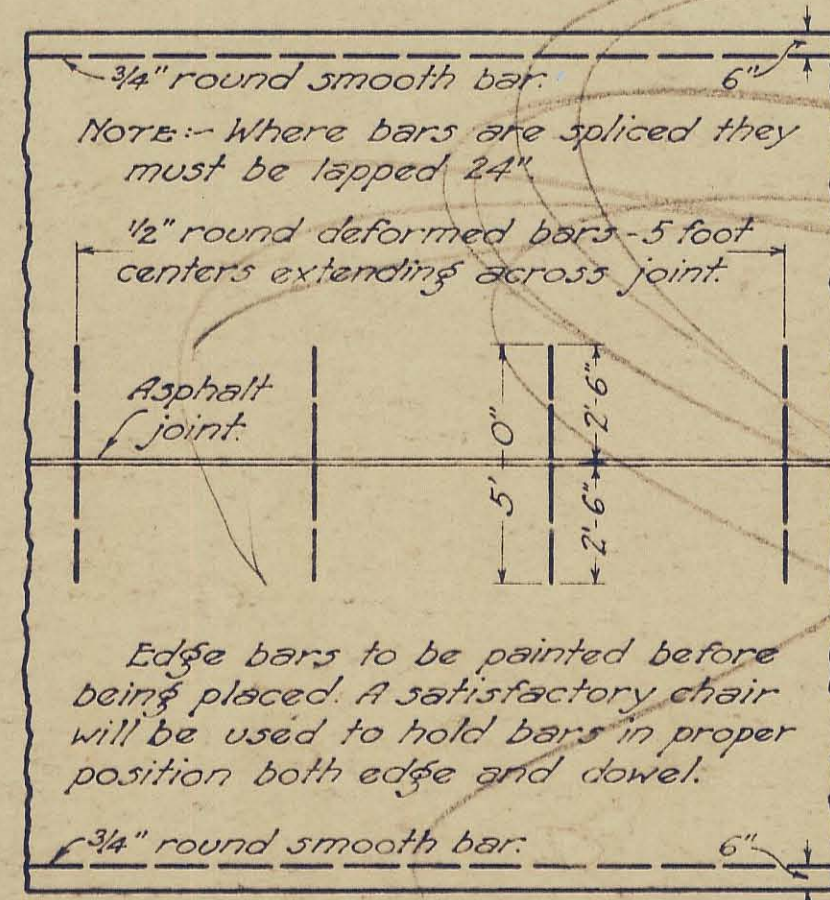
PLAN OF JOINT

BUREAU OF CONSTRUCTION
 OHIO
 DEPARTMENT OF HIGHWAYS
**CONSTRUCTION
 JOINT**
 STANDARD
 CONSTRUCTION DRAWING **96**
 1930
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REVISED



CROSS-SECTION

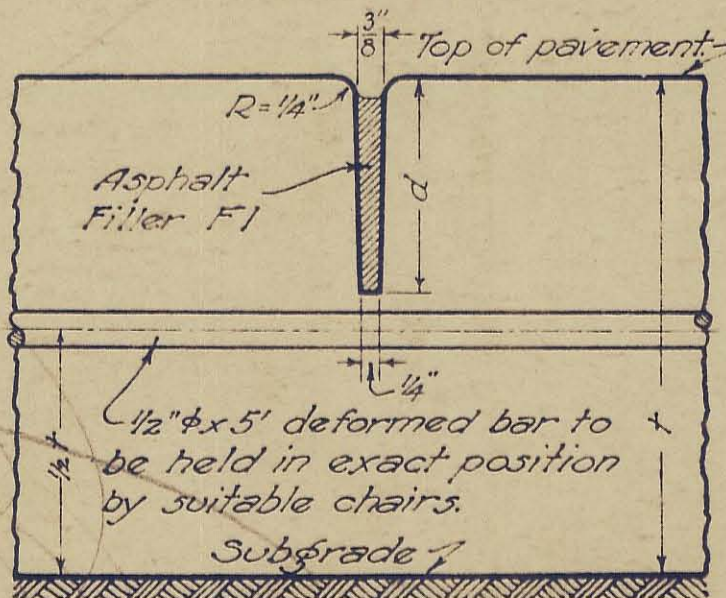


PLAN

NOTE:-- Where bars are spliced they must be lapped 24".
 $\frac{1}{2}$ " round deformed bars - 5 foot centers extending across joint.
 Asphalt joint
 Edge bars to be painted before being placed. A satisfactory chair will be used to hold bars in proper position both edge and dowel.

Description:-- This joint shall be formed by impressing a device or bar into the newly deposited concrete before initial setting. The device or bar shall be removed as soon as the concrete is in such condition as to preclude of distortion or injury to the concrete. The groove thus formed shall be on the center line of the pavement and of the dimensions shown on the plan. After the joint is formed it shall be protected from dirt and foreign matter until the filler is placed. The joint shall be filled to within one quarter inch of the top with Asphalt Filler F-1. The asphalt filler shall be handled in such manner that it will be confined to the joint and in no wise mar the surface of the pavement.

t	6"	7"	8"	9"	10"
d	2 1/2"	3"	3 1/2"	3 3/4"	3 1/2"



DETAIL OF JOINT

BUREAU OF CONSTRUCTION
 OHIO
 DEPARTMENT OF HIGHWAYS
**CONCRETE PAVEMENT
 WITH IMPRESSED CENTERJOINT**
 STANDARD
 CONSTRUCTION DRAWING **98**
 JAN. 2, 1930
 APPROVED *H.P.C.* CHIEF ENGR. CONST.

REVISED
 8-9-30