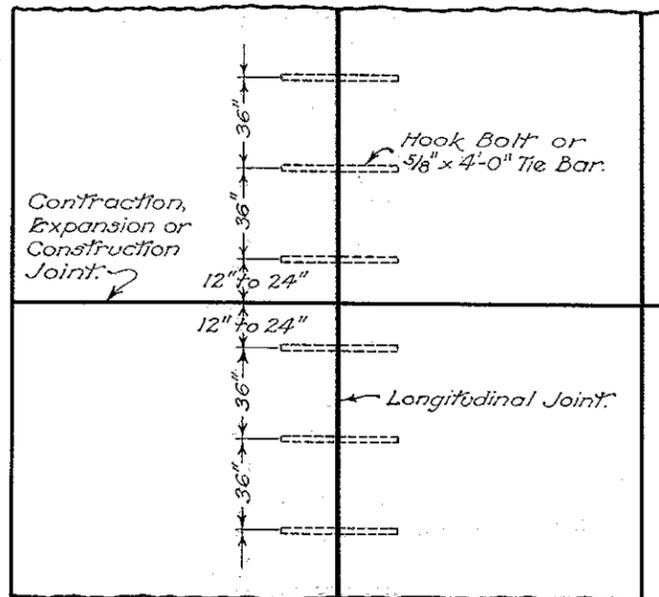
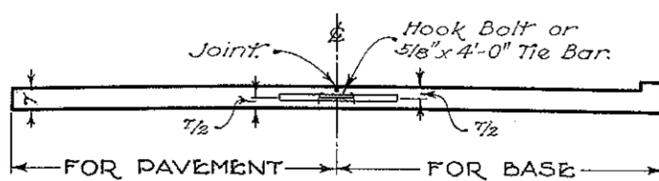


# LONGITUDINAL JOINTS

## TIE BAR OR HOOK BOLT SPACING

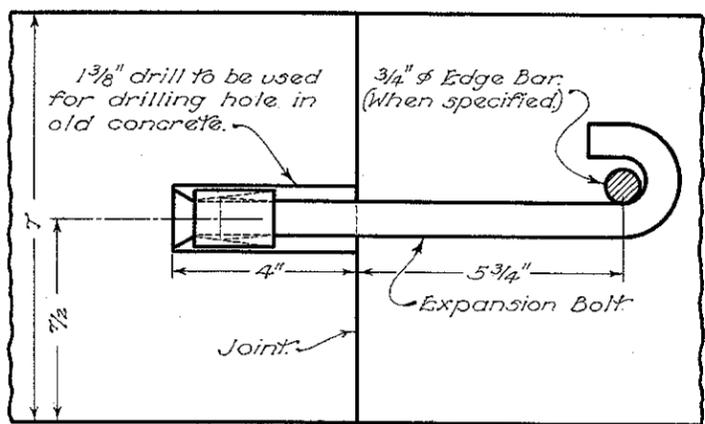


FOR PAVEMENT FOR BASE  
PLAN

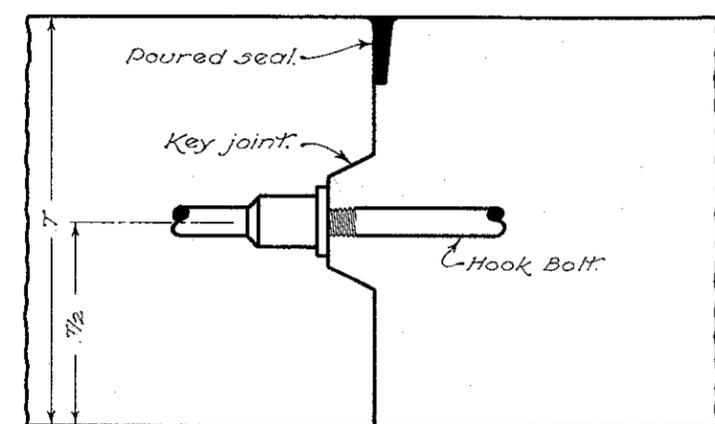


CROSS SECTION

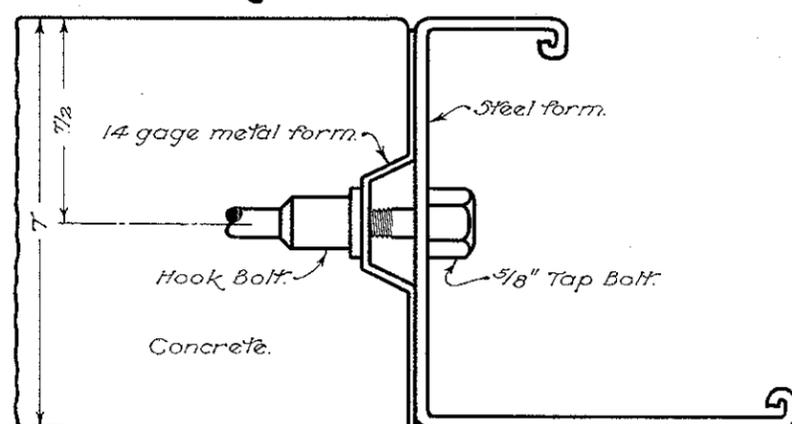
## EXPANSION BOLT JOINT



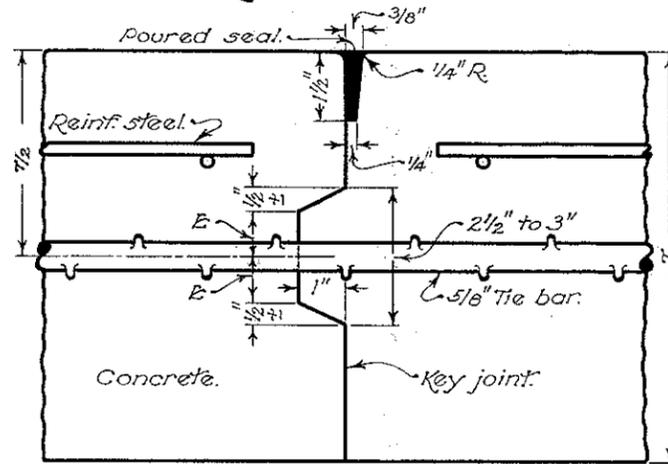
## HOOK BOLT AND KEY JOINT



## ACCEPTABLE METHOD OF FORMING JOINT

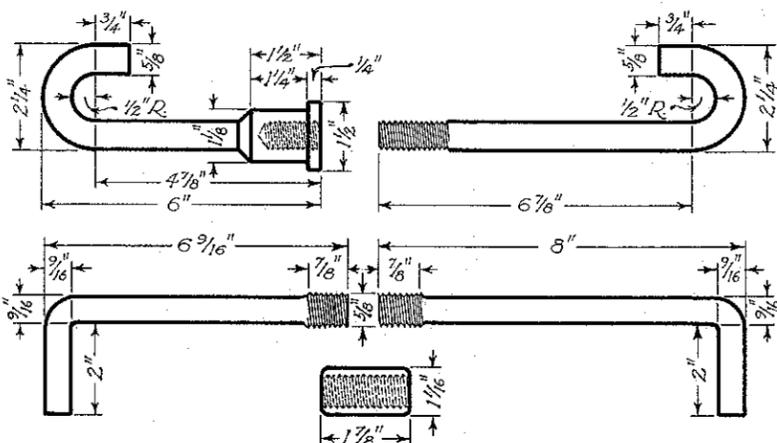


## KEY JOINT

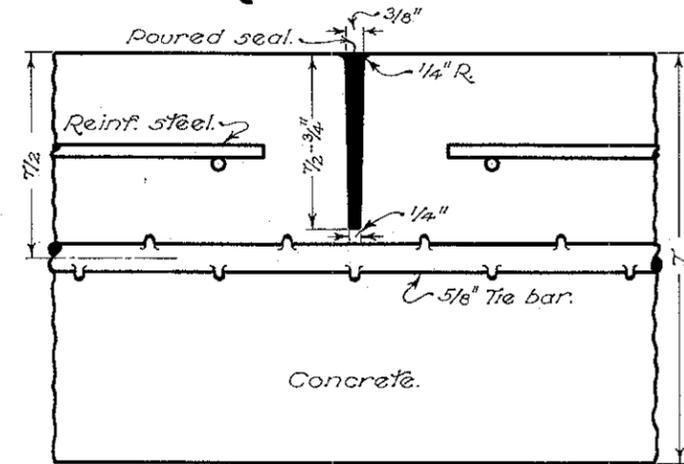


DETAIL OF JOINT

## HOOK BOLTS

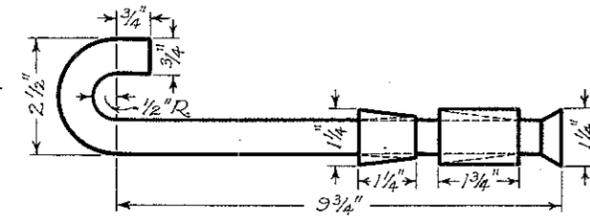


## IMPRESSED JOINT



DETAIL OF JOINT

## EXPANSION BOLT



## NOTES

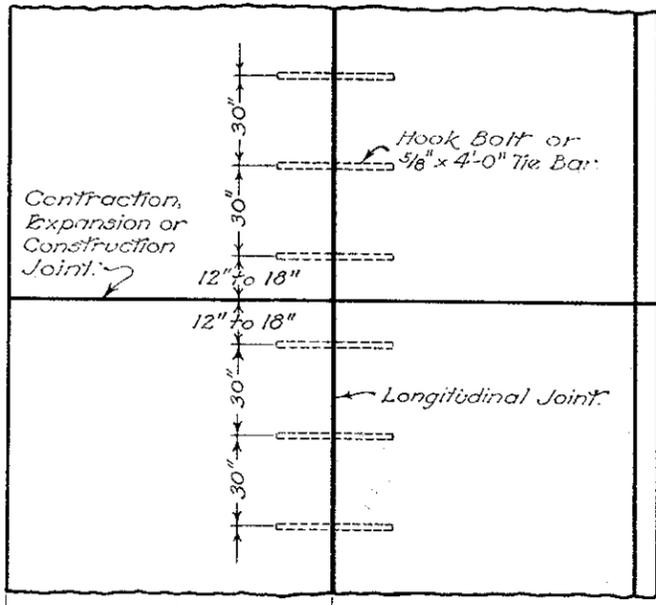
**GENERAL:**—Longitudinal joints shall be used when called for on the typical section, and shall be constructed as shown on this drawing.  
Tie bars to be 5/8 inch round, deformed bars.  
A satisfactory device shall be used to hold the tie bars in proper position.  
The longitudinal joint between adjoining slabs poured in separate operations shall be a key joint with American Hook Bolt's or equal, or billet steel tie bars, unless otherwise shown on the plans.  
If tie bars are bent no portion of the bend shall extend into the first slab poured.  
Immediately prior to placing the second slab, bent tie bars shall be straightened by means of a pipe slipped over the free end of the bar.  
The joints shall be on the center line of the pavement unless otherwise shown on the plans.  
Special care shall be exercised in edging impressed joints to insure that the width of the opening does not exceed that shown.  
**IMPRESSED JOINT:**—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 distortion or injury to the concrete. The groove thus formed shall be of the dimensions as detailed. After the joint is formed it shall be protected from dirt and foreign matter until the joint seal is placed.  
**KEY JOINT:**—A groove for sealing shall be formed by impressing a device or bar into the newly deposited concrete adjacent to the previously poured lane. The device or bar shall be removed as soon as the concrete is in such condition as to preclude distortion or injury to the concrete. The groove thus formed shall be of the dimensions detailed.  
Adjoining slabs adjacent to the longitudinal key joint shall be edged with a thin metal edger having a fourth inch radius.  
After the joint is formed it shall be protected from dirt and foreign matter until the joint seal is placed.  
**EXPANSION BOLT JOINT:**—This joint is designed for abutting new concrete construction to old when a tie is required. The tie is effected by the use of American Expansion Bolt's or equal.  
**SEAL AND FILLER:**—Material for sealing key joints and for filling impressed joints shall meet the requirements of Supplemental Specification M-110.23.

BUREAU OF LOCATION AND DESIGN OHIO DEPARTMENT OF HIGHWAYS	
<b>PAVEMENT JOINTS</b>	
STANDARD CONSTRUCTION DRAWING	P. J. No. 2
APPROVED <i>[Signature]</i>	CHIEF ENGINEER

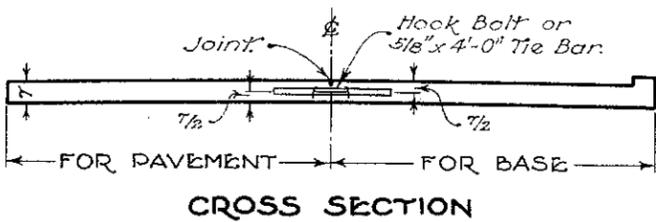
DATE 2-12-48

# LONGITUDINAL JOINTS

## TIE BAR OR HOOK BOLT SPACING

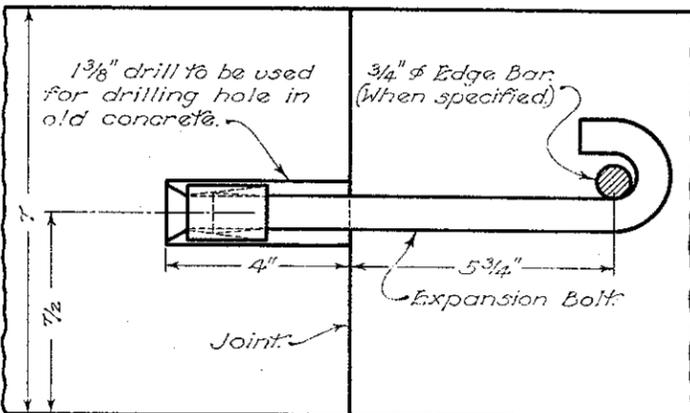


FOR PAVEMENT FOR BASE  
PLAN

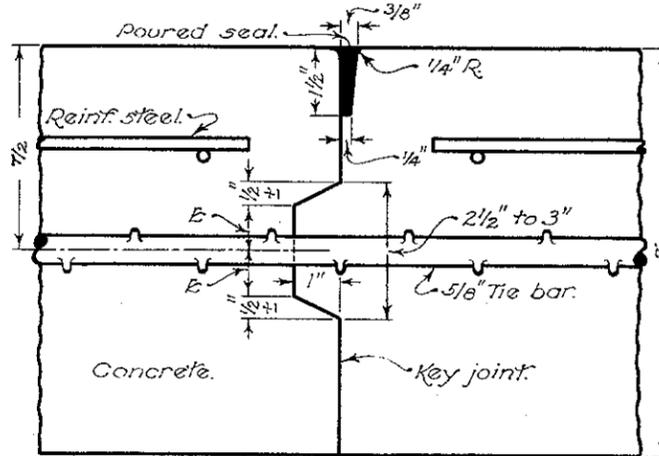


CROSS SECTION

## EXPANSION BOLT JOINT

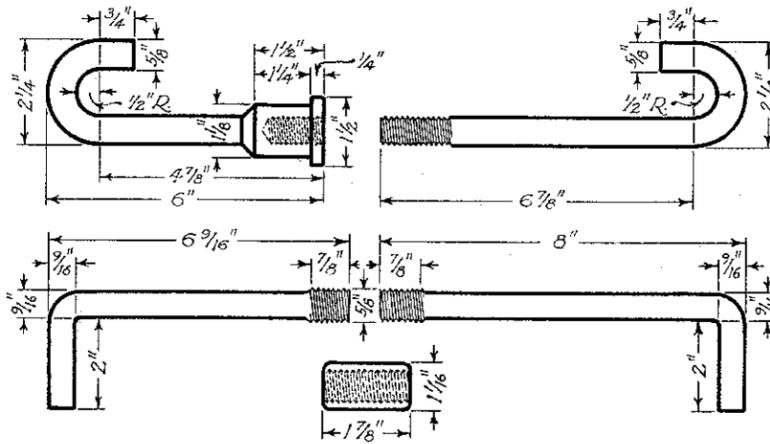


## KEY JOINT

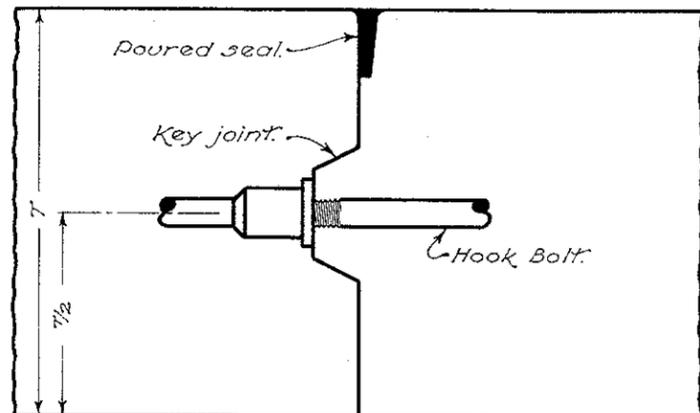


DETAIL OF JOINT

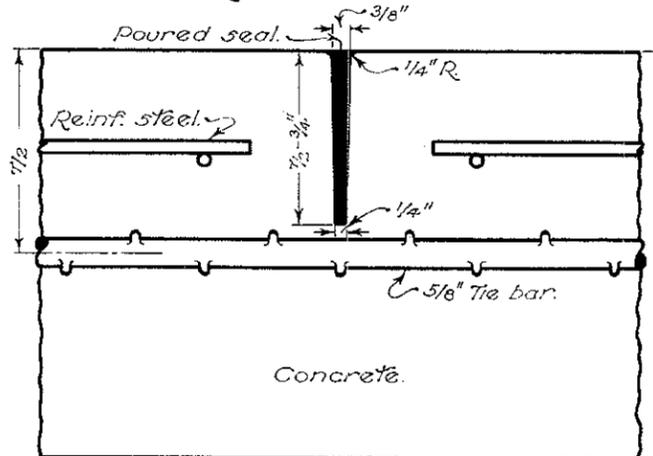
## HOOK BOLTS



## HOOK BOLT AND KEY JOINT

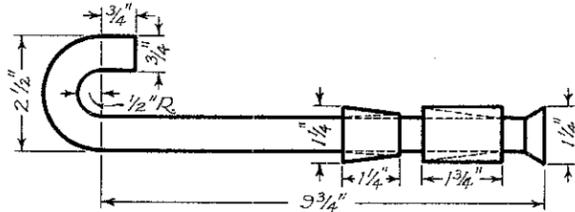


## IMPRESSED JOINT

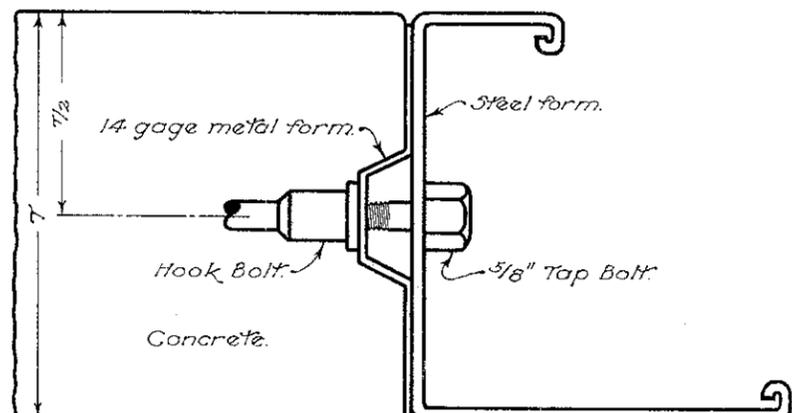


DETAIL OF JOINT

## EXPANSION BOLT



## ACCEPTABLE METHOD OF FORMING JOINT



## NOTES

**GENERAL:** Longitudinal joints shall be used when called for on the typical section, and shall be constructed as shown on this drawing.

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BUREAU OF LOCATION AND DESIGN  
OHIO DEPARTMENT OF HIGHWAYS

PAVEMENT JOINTS

STANDARD CONSTRUCTION DRAWING  
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P. J. NO 2  
CHIEF ENGINEER

DATE  
2-16-48  
6-1-48