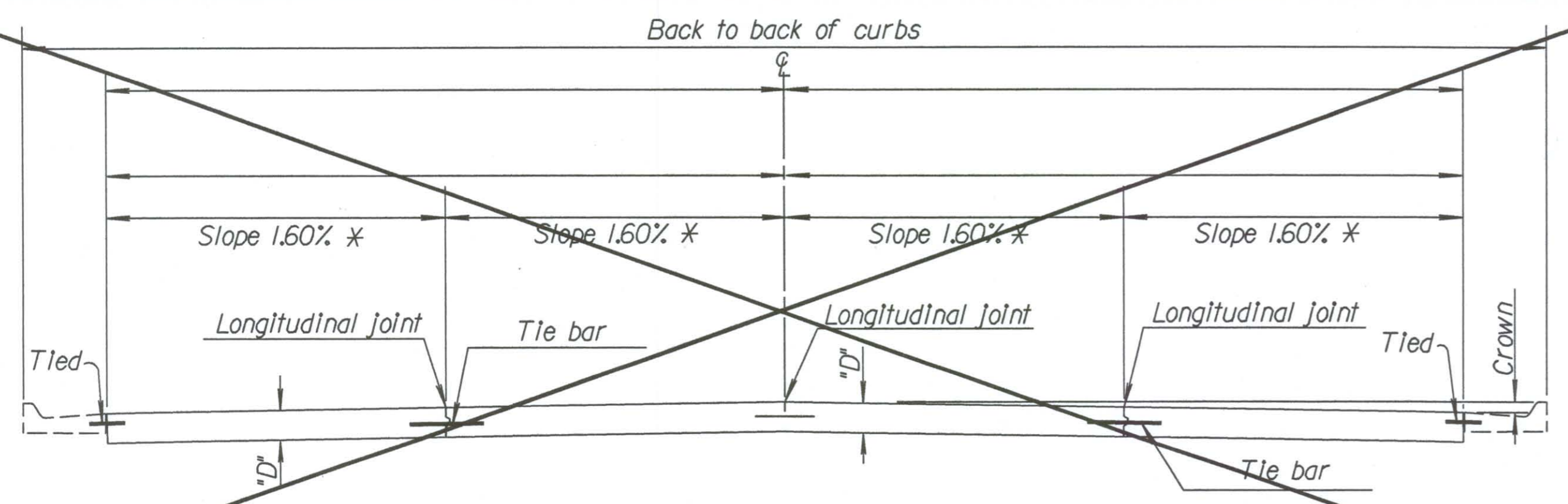


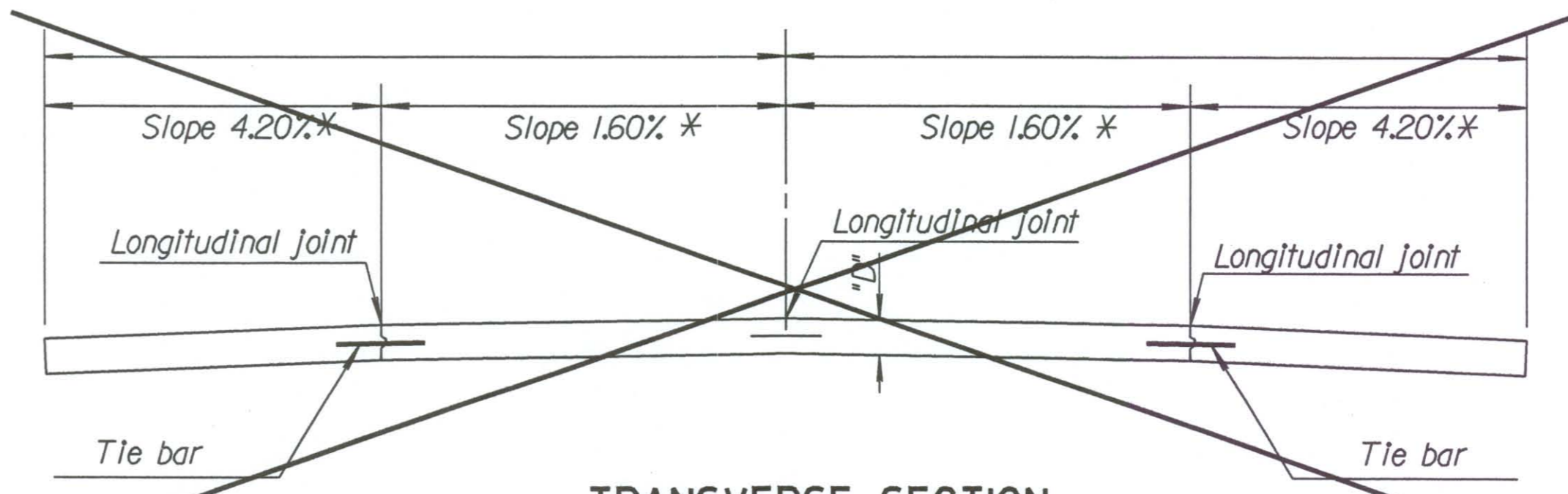
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	54-87 K-6657-01	2002	128	122

Note: Designer shall add applicable dowel sizes and pavement depth.



For Curb & Gutter details see Standard Drawing RD740 SI.

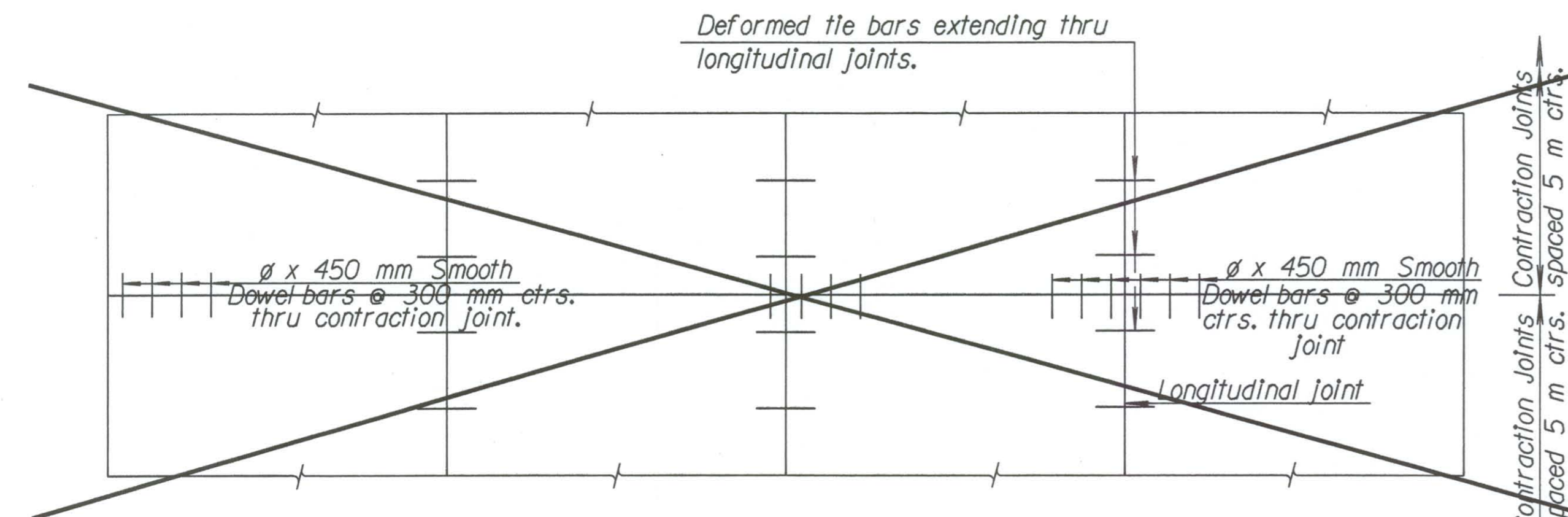
**TRANSVERSE SECTION  
(4 - LANE WITH CURB & GUTTER)**



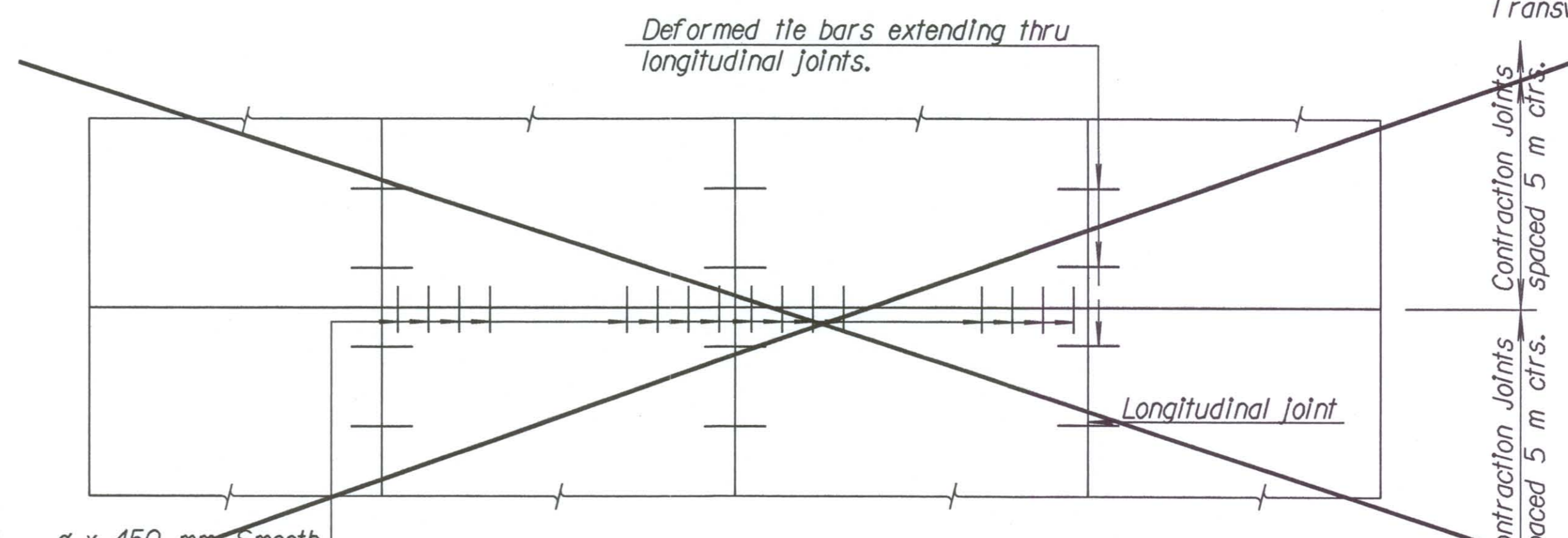
**TRANSVERSE SECTION  
(2 - LANE WITH SHOULDERS)**

\* Normal cross slopes. See Typical Section or Cross Sections for variations.

**GENERAL NOTE**  
All deformed tie bars shall be epoxy coated.  
Deformed tie bars which require bending shall be billet steel reinforcing bars, Grade 300. Regardless of whether bent or straight bars are used, any damage to the epoxy coating shall be patched in accordance with the Standard Specifications.  
Pressure relief joints (without load transfer devices) shall be placed at the end of the bridge approach pavement slab. For details of pressure relief joint, see Concrete Bridge Approach Standard Drawing.  
Unless otherwise noted, load transfer devices as shown in detail shall be used at all contraction joints on mainline pavement. No dowels will be used on shoulder contraction joints unless specifically shown on plans.  
All joints on this project shall be sawed and filled with sealant. See special provision for type of sealant.  
Shape of all keyed joints shall be similar to section of recessed form leg as shown on this sheet.  
Longitudinal joints shall be tied where shown on typical sections & paving plans.  
Transverse joints shall be spaced as shown on the paving plans.

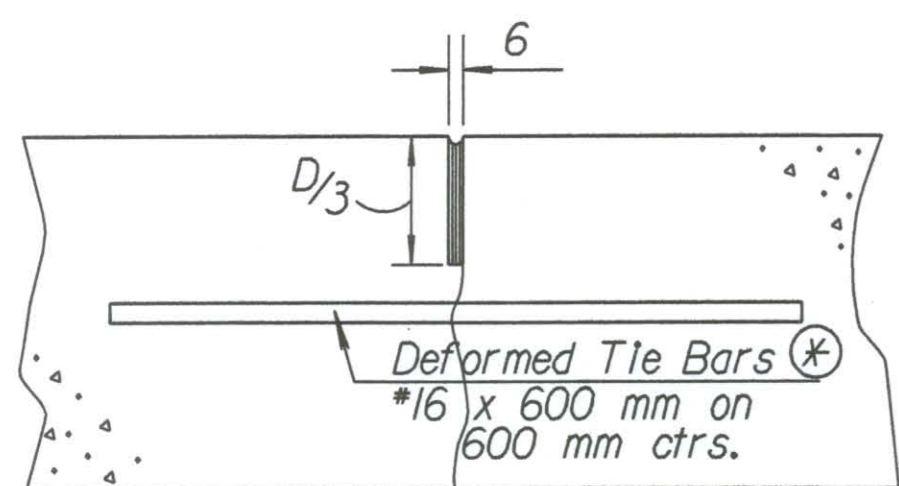


**PLAN  
(4 - LANE WITH CURB & GUTTER)**

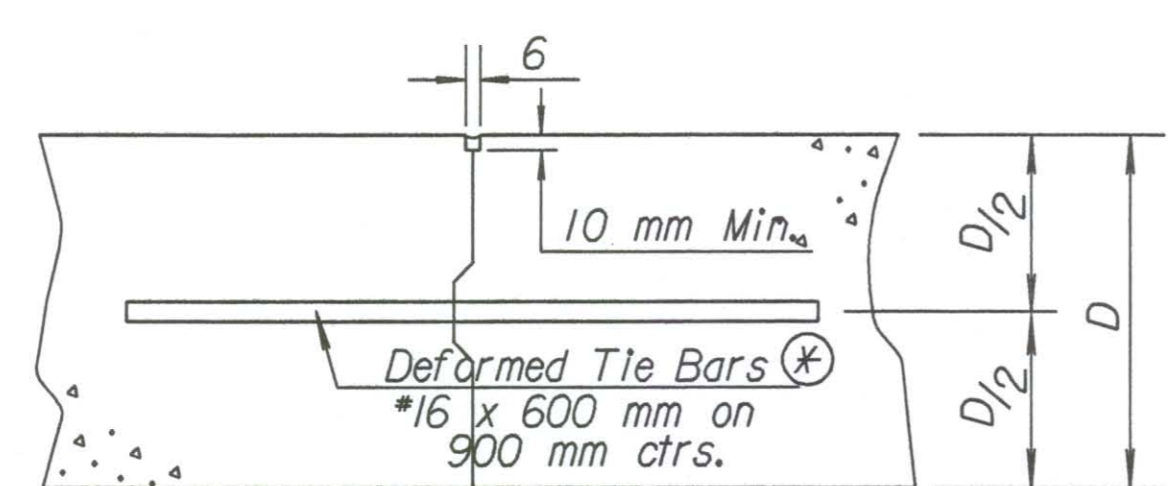


**PLAN  
(2 - LANE WITH SHOULDERS)**

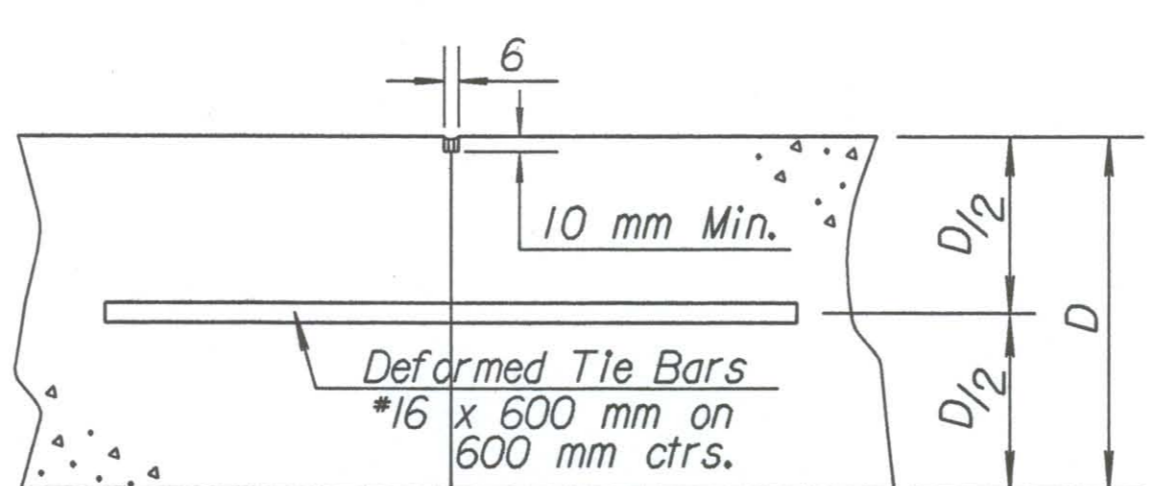
DOWEL SIZE	
D - mm	Dia. mm
160	25
180	25
200	25
220	29
240	32
260	32
280	35
300	38
320	41
340	44
360	44
400	51



Tied Non-Keyed



Tied Keyed Construction

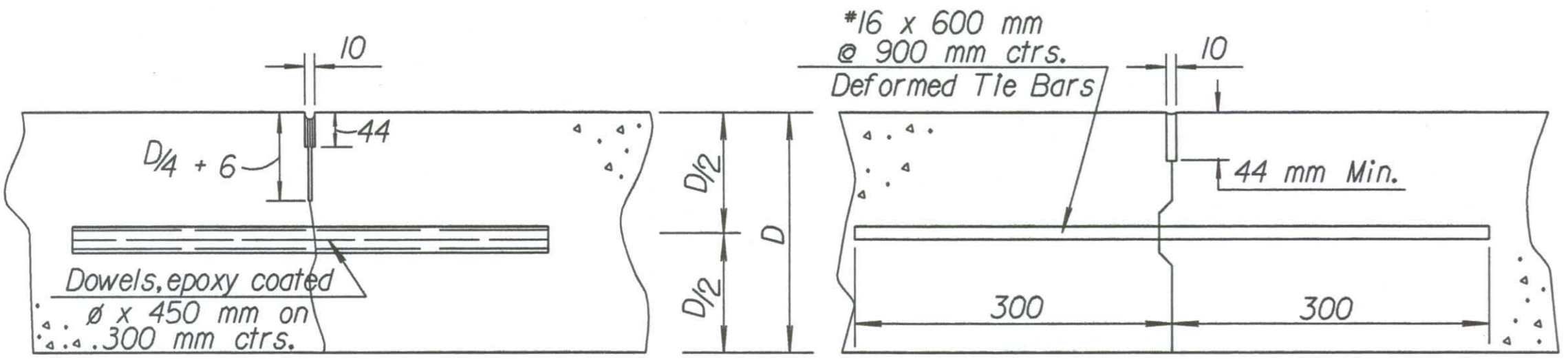


Tied Butt Construction

\* Omit tie bars where shown on typical sections or paving plans.

**LONGITUDINAL JOINTS**

Note: All sealant is 3 mm to 6mm below surface and is a minimum of 6 mm thick. A backer rod shall be used to limit the amount of sealant needed to fill the reservoir. For longitudinal construction joints the contractor has the option of using either the keyed or butt type unless tie bars are omitted. A keyed joint shall be used where tie bars are omitted.  
At longitudinal construction joints where the adjacent slabs are at different elevations the depth of saw cut for the sealant reservoir should be measured from the top of the lower slab. This is to ensure that sufficient sealant is used in the joint.

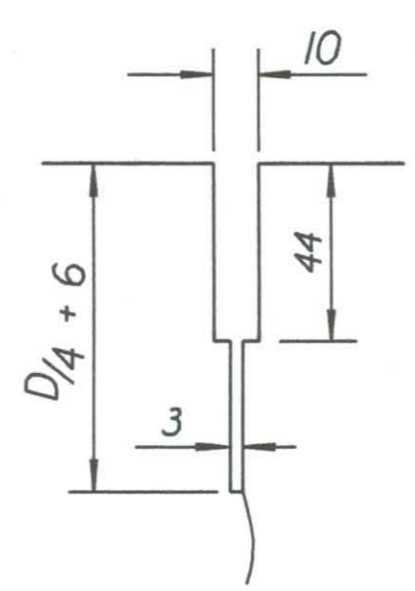


Contraction

**TRANSVERSE JOINTS**

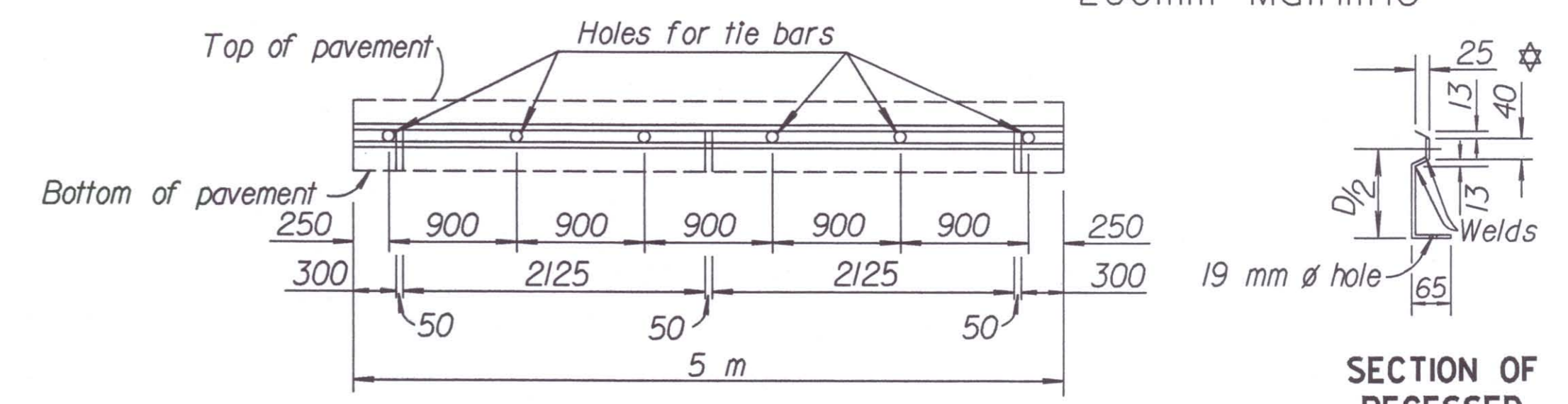
Construction

Note: Contraction joints will be constructed at the planned location or as directed by the Engineer. When necessary to interrupt continuous placement for a substantial length of time or at the end of a day's pour, the Contractor shall end placement at a planned contraction joint. The joint may be constructed by placing a header at the end of the pour or by paving past the joint location, sawing the joint after the concrete has hardened, and drilling holes for the tie bars or dowels.



**DETAIL OF CONTRACTION JOINT SAWCUT**

The 3 mm saw cut (D/4 + 6 mm depth) shall be done initially; the 10 mm saw cut shall be accomplished in a separate operation after concrete has gained sufficient strength to avoid spalling as determined by the Engineer.



**METAL STRIP FOR LONGITUDINAL CONSTRUCTION JOINT**

To be used only against forms. Shall not extend through contraction joints.  
\* Snap-in leg or other approved designs may be used in lieu of welded leg.

NO.	DATE	REVISIONS	BY	APP'D
5	5-11-00	Rev. Const. Jt. & Metal Strip	R.J.S.	J.O.B.
4	1-27-00	Added Tied Non-Keyed Const. Joint	R.J.S.	J.O.B.
3	11-19-97	Revised Curb and Gutter reference	R.J.S.	J.O.B.
2	1-29-97	Revised Contraction Joint	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION  
**CONCRETE PAVEMENT DOWEL JOINTED NON-REINFORCED**  
RD651-SI  
FHWA APPROVAL 6-27-00 APP'D. James O. Brewer  
DESIGNED BY TRACED Bowser  
DESIGN CK. DETAIL CK. QUAN. CK. TRACE CK. Seltz

Drawn By: \$USER\$ IPlotted: 1-4-2002 File: i:\1997\97362\paving\_standards\rd651.si.dgn