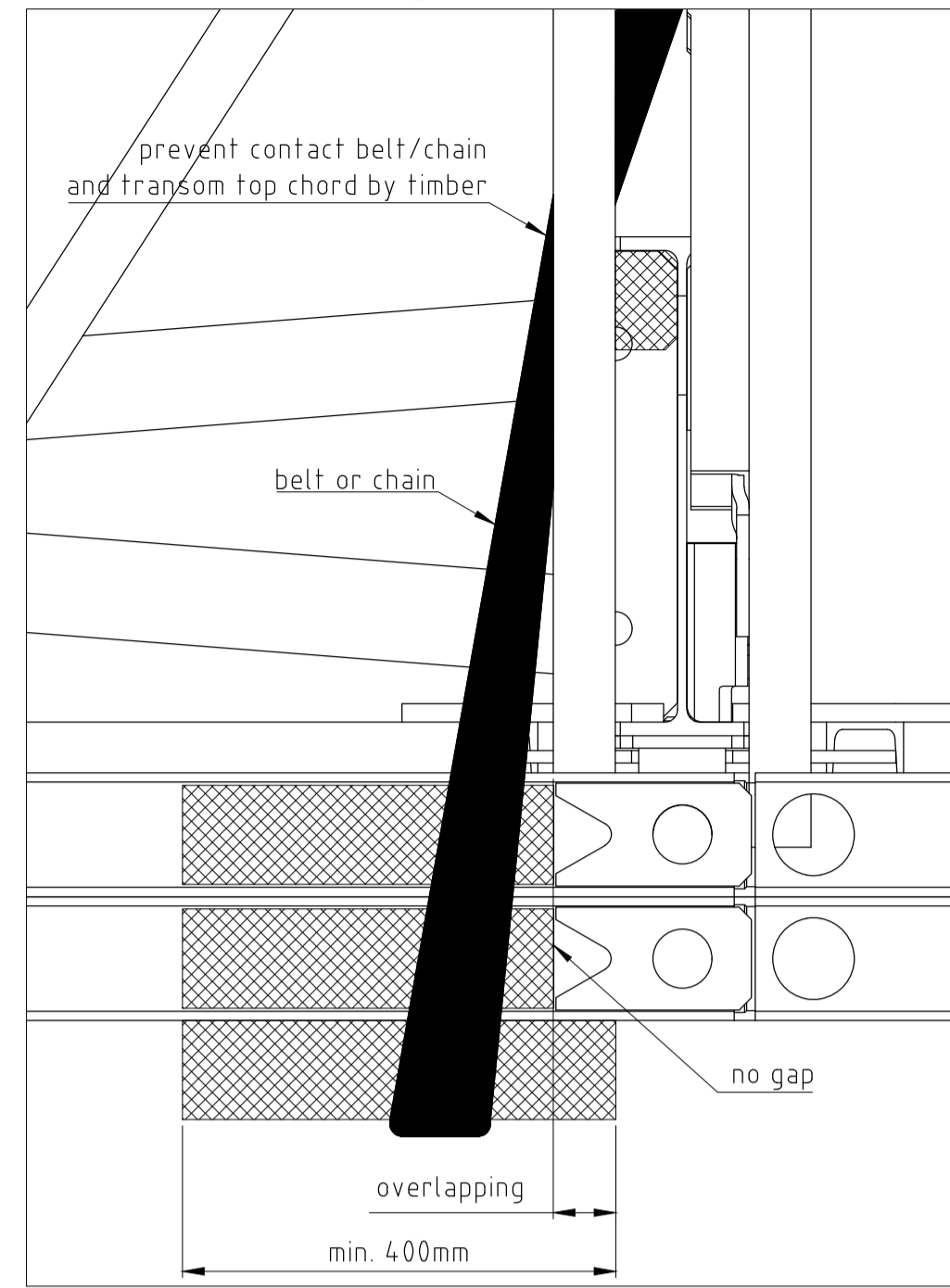


Detail 1: showing wood placement for chord protection reasons when using method 1



Weights for Bridges EW

length of bridge [bay]	[m]	config. [-]	weight undecked [t]
3	9,1	SS	3,8
4	12,2	SS	5,1
5	15,2	SS	6,4
6	18,3	SS	7,7
7	21,3	SSRL	11,7
8	24,4	SSRL	13,4
9	27,4	SSRL	15,1
10	30,5	SSRM	18,4
11	33,5	SSRM	20,3

crane hook position

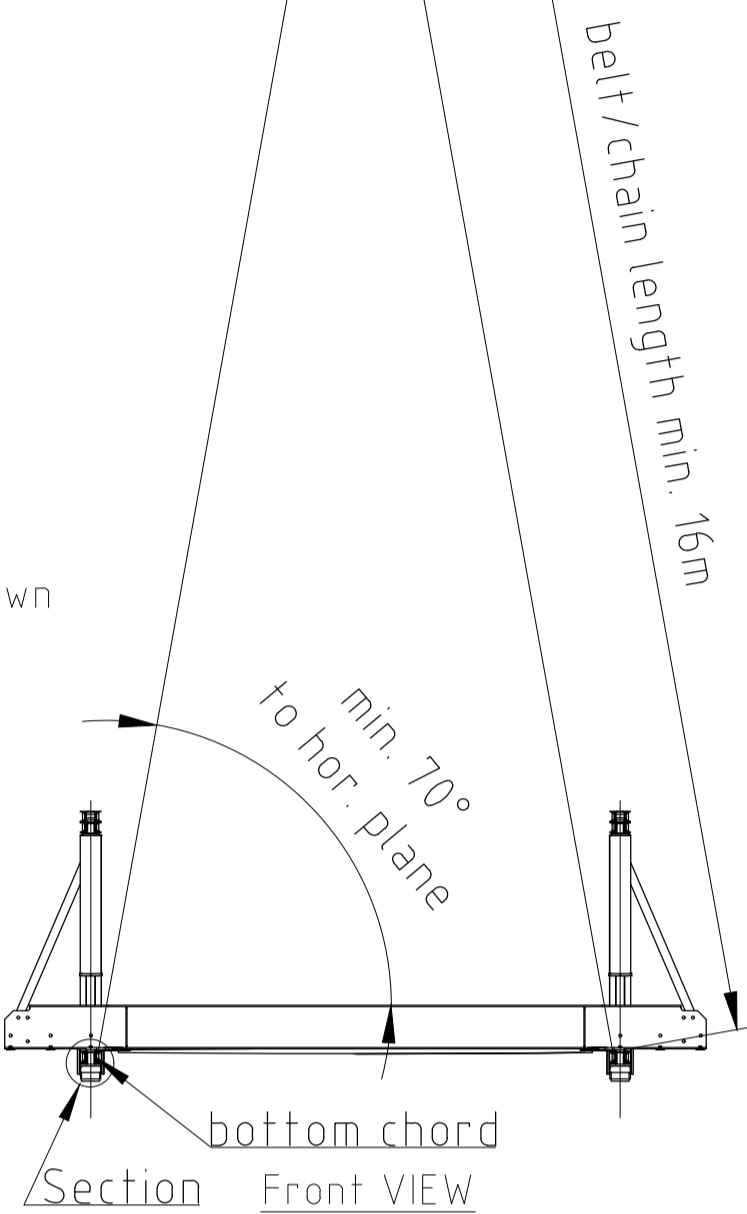
requirement: min. belt or chain angle is 70° (for a EW bridge and a contact distance of 3 bays this requirement is fulfilled using a belt/chain length of 16m)

Method 1: lift by belt/chain

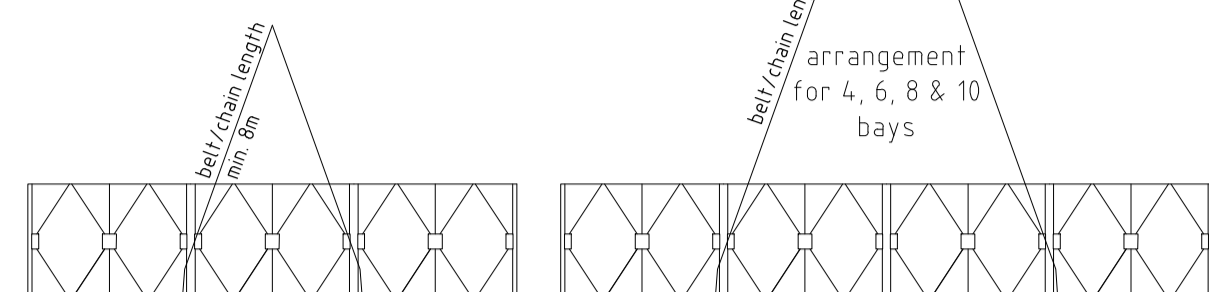
- for bridge length of 3 bays: fixation to lower panel chord has to be spread over 1 bay
- for bridge length of 4, 6, 8 and 10 bays: fixation to lower panel chord has to be spread over 2 bays
- for bridge length of 5, 7, 9 and 11 bays: fixation to lower panel chord has to be spread over 3 bays
- only fixation to outer side of transom allowed as shown in side view and detail 1
- fixation of lifting chain or belt at the inner panel line directly beside a transom (as shown in front view) Relevant for double and triple single bridges only!

min. 70° to hor. plane

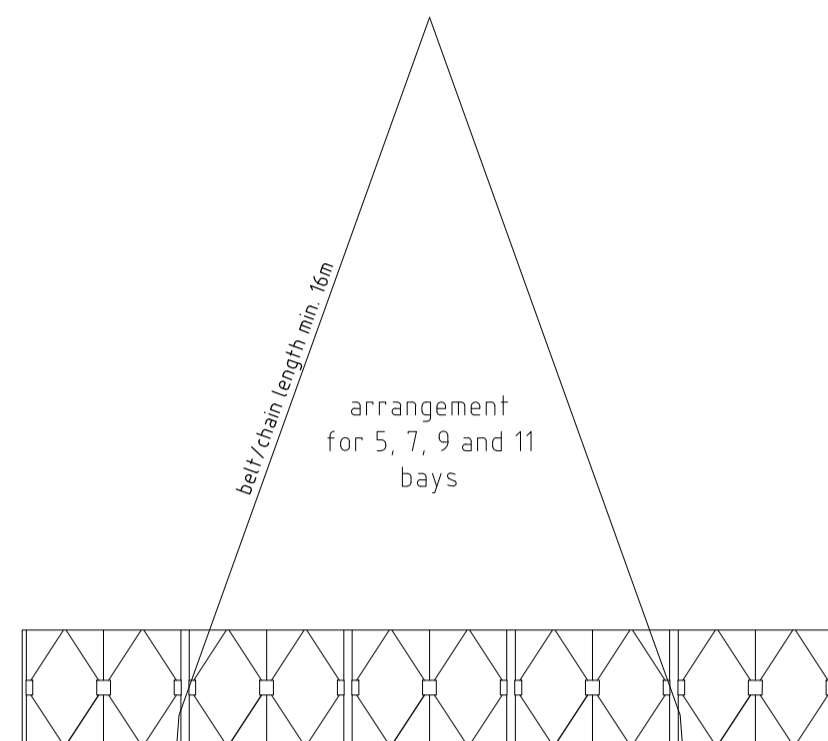
crane hook position



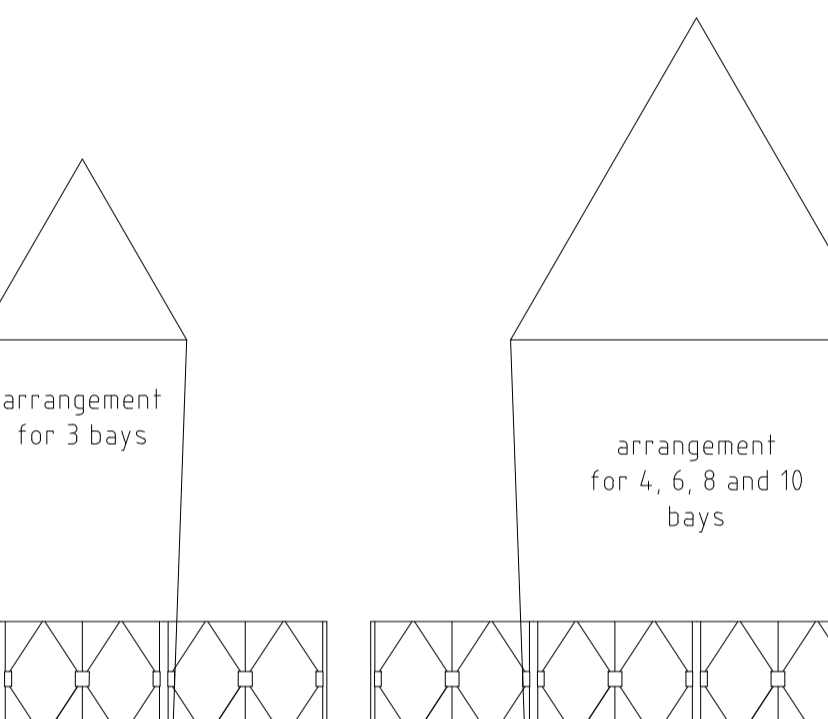
arrangement for 3 bays



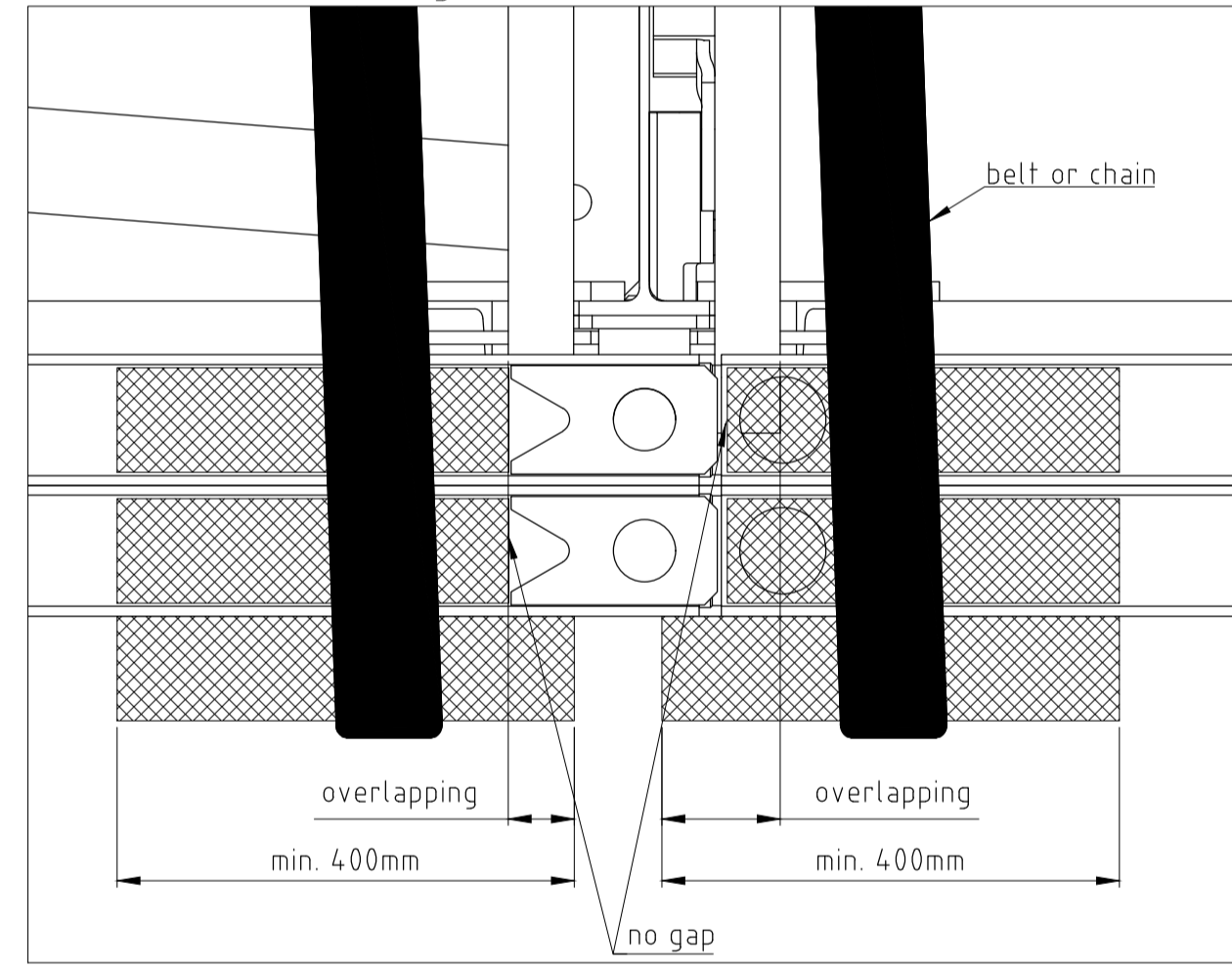
arrangement for 4, 6, 8 & 10 bays



arrangement for 5, 7, 9 and 11 bays



Detail 2: showing wood placement for chord protection reasons when using method 2



crane hook position

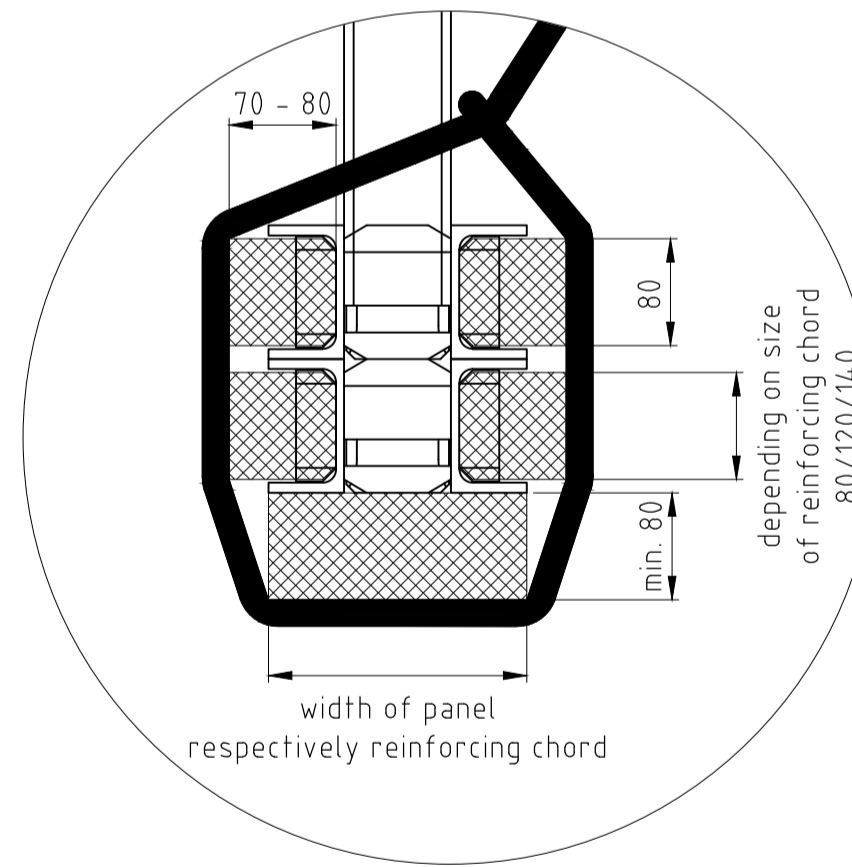
Method 2: use of lifting beam

- Length of lifting beam: for bridge length of 3 bays: 3 to 4 m for bridge length of 4, 6, 8 and 10 bays: 6 to 7 m for bridge length of 5, 7, 9 and 11 bays: 9 to 10 m

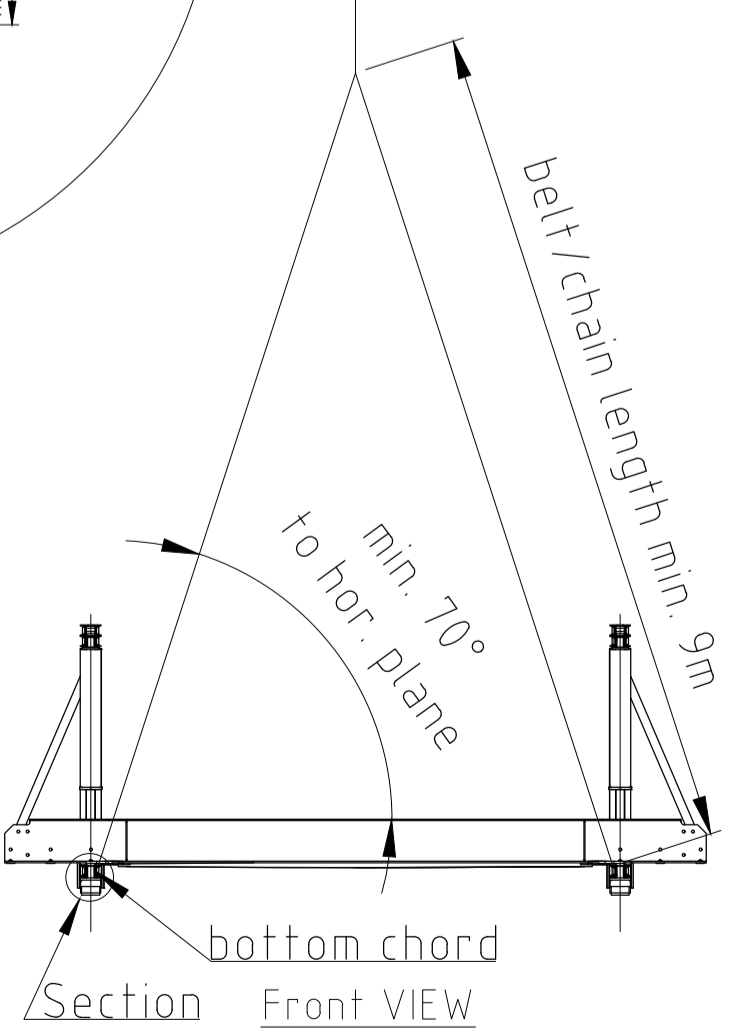
- belt or chain fixation to panels directly beside the transom as shown in side view - position 1 or position 2 (as shown in side view and detail 2)
- fixation of lifting chain or belt at the inner panel line directly beside a transom (as shown in front view)

depending on equipment used

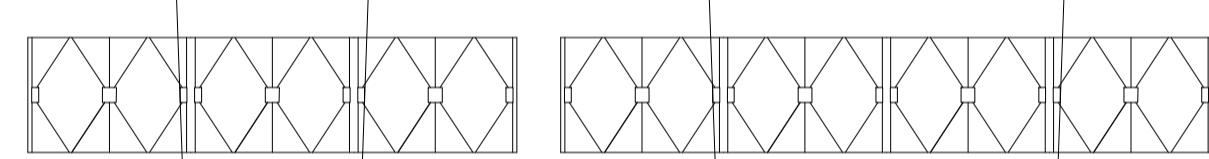
Section showing wood placement for chord protection reasons (typical cross section)



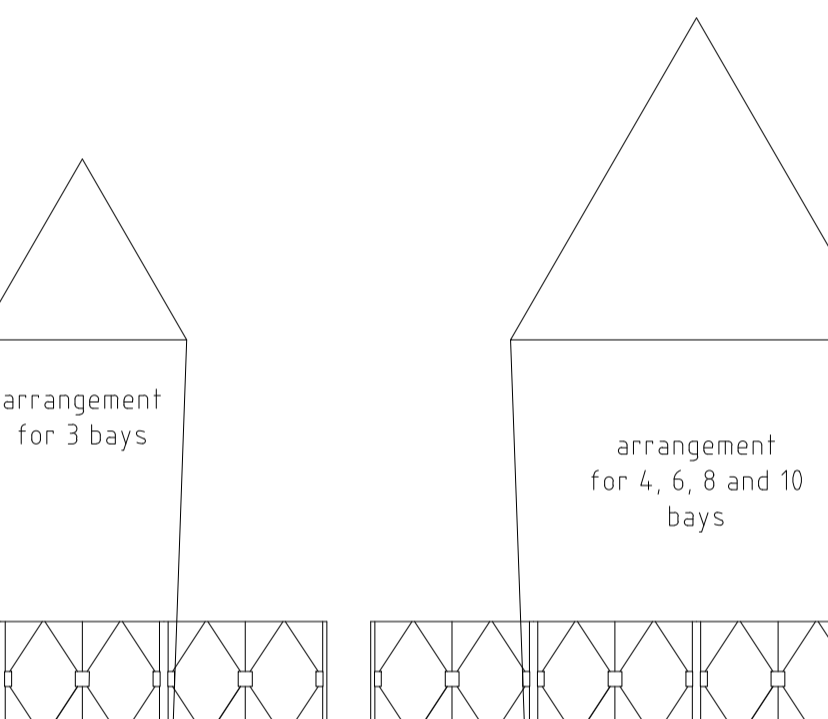
crane hook position



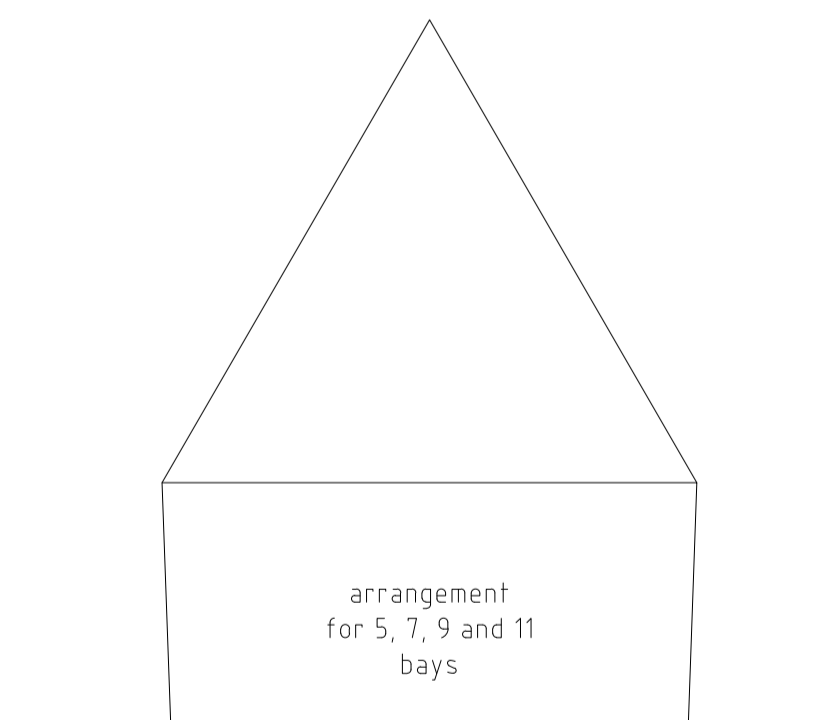
arrangement for 3 bays



arrangement for 4, 6, 8 and 10 bays



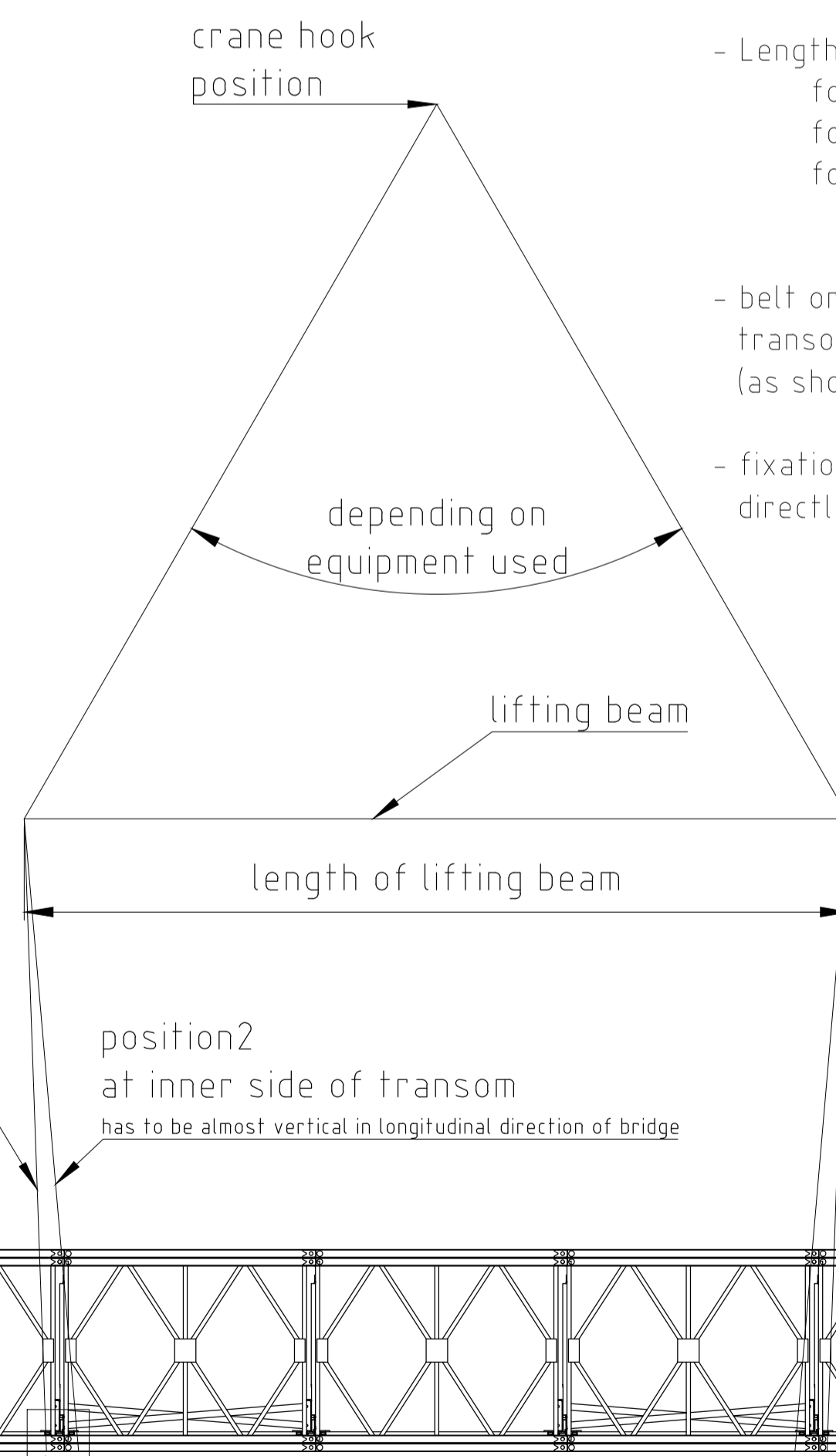
arrangement for 5, 7, 9 and 11 bays



position 1 at outer side of transom has to be almost vertical in longitudinal direction of bridge

position 2 at inner side of transom has to be almost vertical in longitudinal direction of bridge

requirement: min. belt or chain angle is 70° (for almost vertical connection belts/chains this requirement is fulfilled using a belt/chain length of 9m)



Side VIEW

Section Front VIEW

With both methods bridge has to be lifted on four points! Slings/Lifting at the transom is not allowed!

<p>wagner biro bridge systems</p> <p>Wagner Biro System AG, A-639 Wien, Leondorfer Straße 9 TEL: +43 71 208 44 0 FAX: +43 71 208 44 333 E-MAIL: bridge@wagner-biro.at, wbioir@wagner-biro.at</p>		<p>PROJEKT NR. / PROJECT NO. N92-00200-02-900</p> <p>DATE / DATUM 27.06.2019</p>							
<p>BEZUGS- / REFERENCE: Waagner Biro Bridge Systems</p> <p>PROJEKT- / PROJECT: Waagner Biro Panel Bridges</p>	<p>DESIGNER: Lechner</p> <p>CHECKED: Lechner</p> <p>DATE: 27.06.2019</p>	<p>NAME: Lechner</p> <p>SIGNATURE: [Signature]</p> <p>DATE: 27.06.2019</p>	<p>DATE: 27.06.2019</p>						
<p>TITLE: Panel Bridge guideline arrangement for bridge lifting</p>		<p>SCALE: 1:1</p>	<p>FORMAT: A0</p>						
<p>REVISIONS:</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	DATE				<p>DATE: 27.06.2019</p>	
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