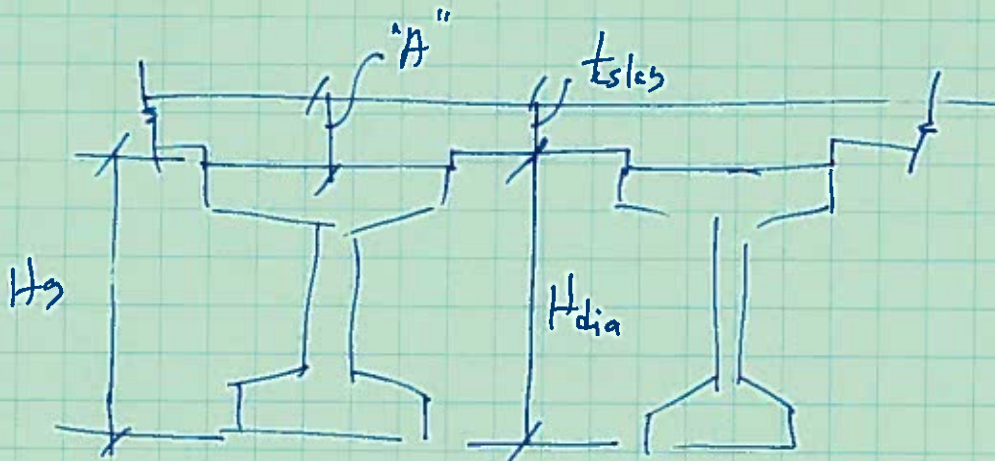




Project		Sheet No.		of	Sheets
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Sketches that illustrate how  
the width of pier diaphragms  
are computed.

$$H_{dia} = H_g + "A" - t_{slab} \quad (\text{bot. girder to bot. deck})$$



Pier 2 Details

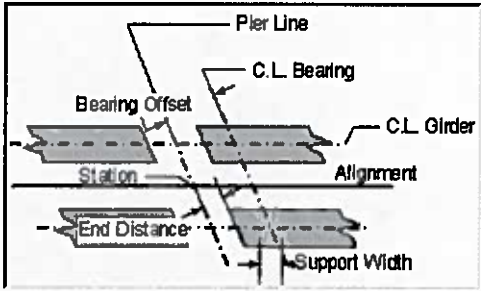
General Layout **Connections** Girder Spacing XBeam Reinforcement Extension Page

Boundary Condition

Connection Definition

Girder Connection Properties

	Back	Ahead
Bearing Offset	18.000 in	18.000 in
	Normal to Pier Line	
End Distance	16.000 in	16.000 in
	Measured from and Normal to Pier Line	
Support Width	12.000 in	12.000 in



Diaphragm

	Back	Ahead
Diaphragm Height	0.000 in	0.000 in
Diaphragm Width	0.000 in	0.000 in
	Apply weight of diaphragm over C.L. Bearing	
Distance from Pier Line to C.G. of Diaphragm		

OK Cancel Help

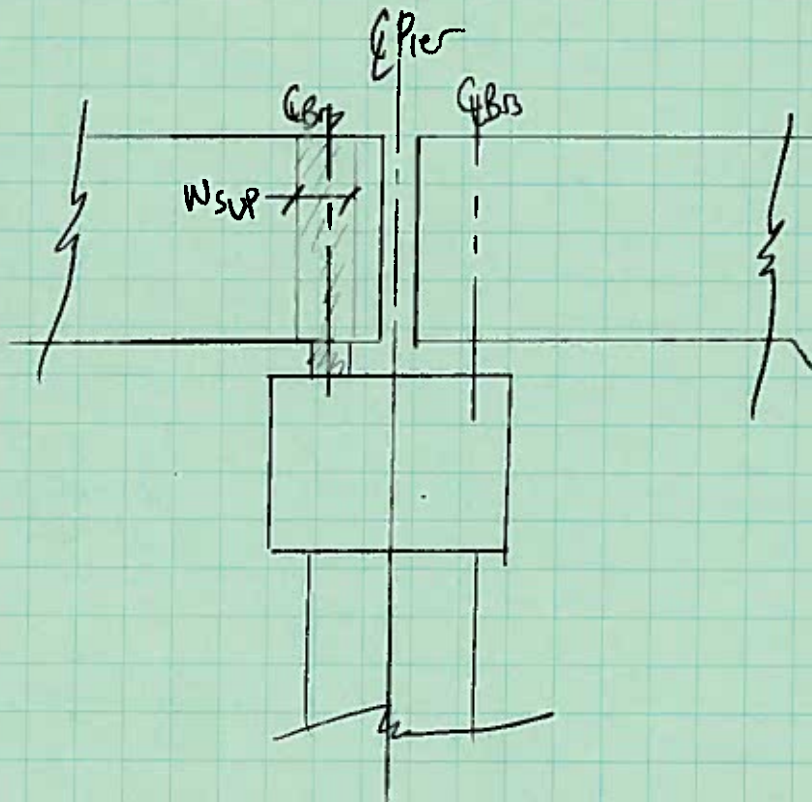
$$H = H_g + "A" - t_{slab}$$

DDX-Keyword Unit Value And Tag  
 if value < 0 then use keyword



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WIDTH OF EXPANSION PIER (HINGE/ROLLER)



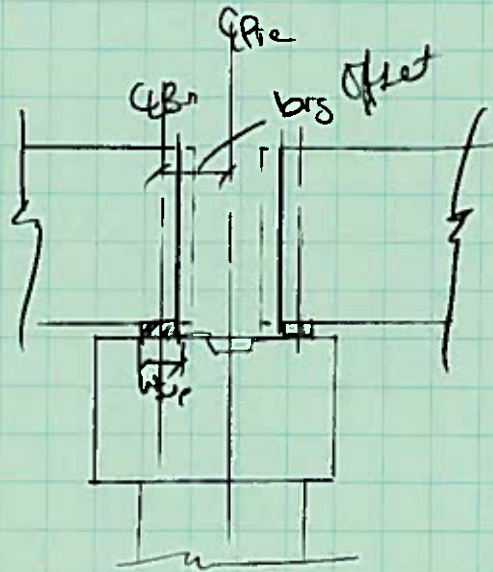




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S.R.	Made By	Check by	Date	Supv	

WIDTH OF CONTINUOUS PIER

$$W = \text{Back} \left( \text{Brg Offset} - \frac{W_{sup}}{2} \right) + \text{Ahead} \left( \text{Brg Offset} - \frac{W_{sup}}{2} \right)$$

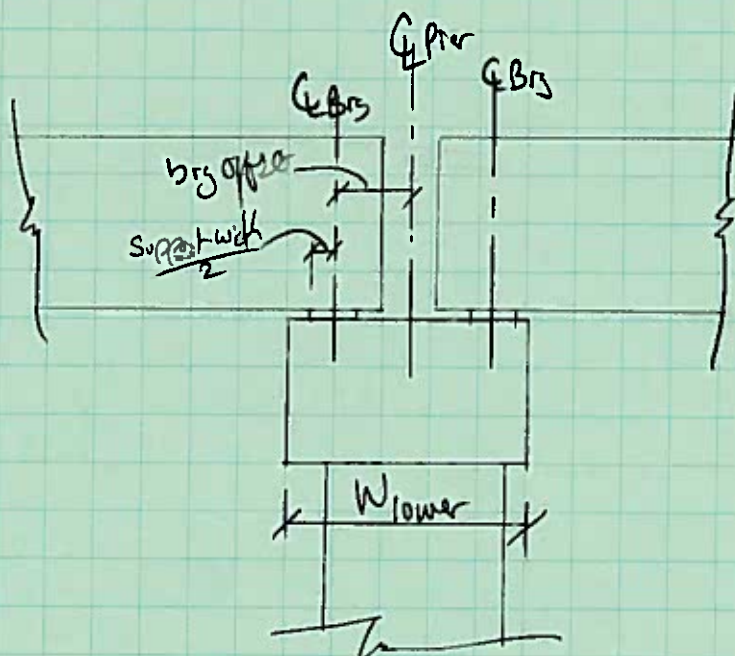




Project			Sheet No. of Sheets	
S.R.	Made By	Check by	Date	Supv

### WIDTH OF INTEGRAL PIER

$$W = \max \left\{ \begin{array}{l} W_{\text{lower}} \text{ (only for physical)} \\ \text{Back} \left( B_{\text{g offset}} + \frac{\text{Supp. width}}{2} \right) + \text{Ahead} \left( B_{\text{g offset}} + \frac{\text{Sup. width}}{2} \right) \end{array} \right.$$

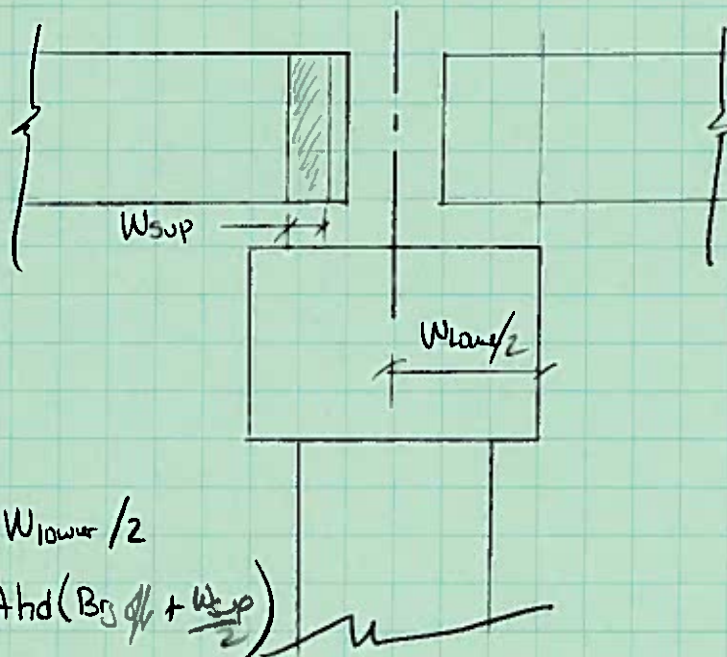






Project S.R.			Made By	Check by	Date	Sheet No. of Sheets	Supv
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HINGE BACK - INTEGRAL AHEAD



$$W_{Back} = W_{sup}$$

$$W_{Ahead} = \max \left\{ \begin{array}{l} W_{lower}/2 \\ Ahd(B_{sup} + \frac{W_{sup}}{2}) \end{array} \right.$$

Pier 2 Details

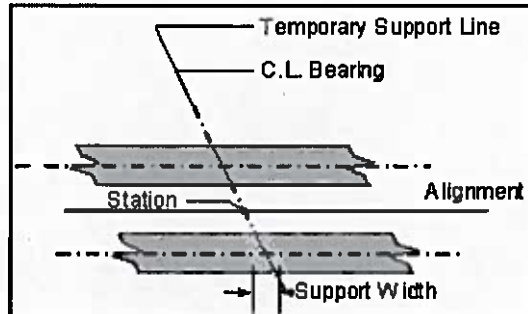
General Layout Connection Spacing XBeam Reinforcement Extension Page

Segment Connection

Continuous Segment

Support Geometry

Support Width 24.000 in



Diaphragm

Height 78.000 in

Width 53.000 in

Complete

reverse for consistency w/ other dialogs

OK

Cancel

Help



Project			Sheet No.	of	Sheets
S.R.	Made By	Check by	Date	Supv	

SPLICED Girder - Continuous Segment

$$W = W_{\text{support}}$$

Spliced Girder - Integral Segment

$$W = \text{Max} \begin{cases} W_{\text{Lower}} \\ W_{\text{support}} \end{cases}$$



# Pier 2 Details

General Layout Connection Spacing XBeam Reinforcement Extension Page

## Segment Connection

Continuous Closure Joint

## Installation Event

Event 1: Construct Segments, Erect Pier

NOTE: Changes to the Installation Event apply to all closure joints at this temporary support.

## Support Geometry

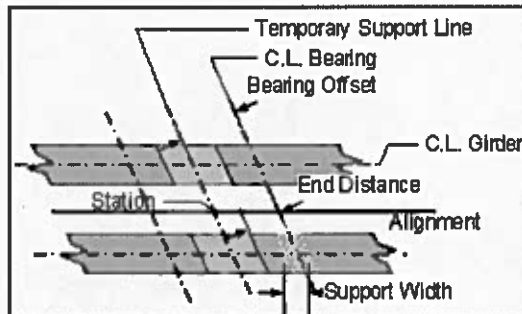
Bearing Offset 32.500 in

Measured Normal to Pier Line

End Distance 20.500 in

Measured from and normal to CL Bearing

Support Width 24.000 in



## Diaphragm

Height 78.000 in

Width 53.000 in

OK

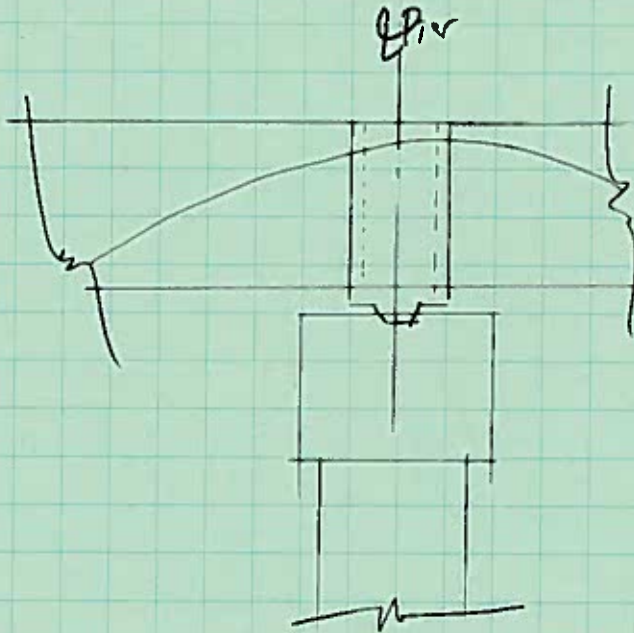
Cancel

Help



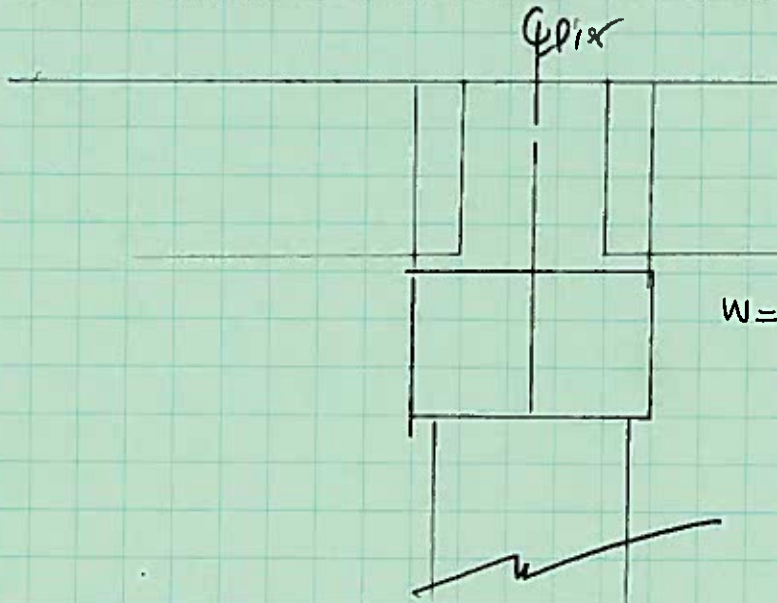
Project			Sheet No. _____ of _____ Sheets	
S.R.	Made By	Check by	Date	Supv

### Spliced Girder - Continuous Closure Joint



$$W = \left( B_{\text{g offset}} - \frac{W_{\text{sup}}}{2} \right) 2$$

### Spliced Girder - Integral Closure Joint



$$W = \text{Max} \left\{ \begin{array}{l} W_{\text{lower}} \\ \left( B_{\text{g offset}} - \frac{W_{\text{sup}}}{2} \right) 2 \end{array} \right.$$