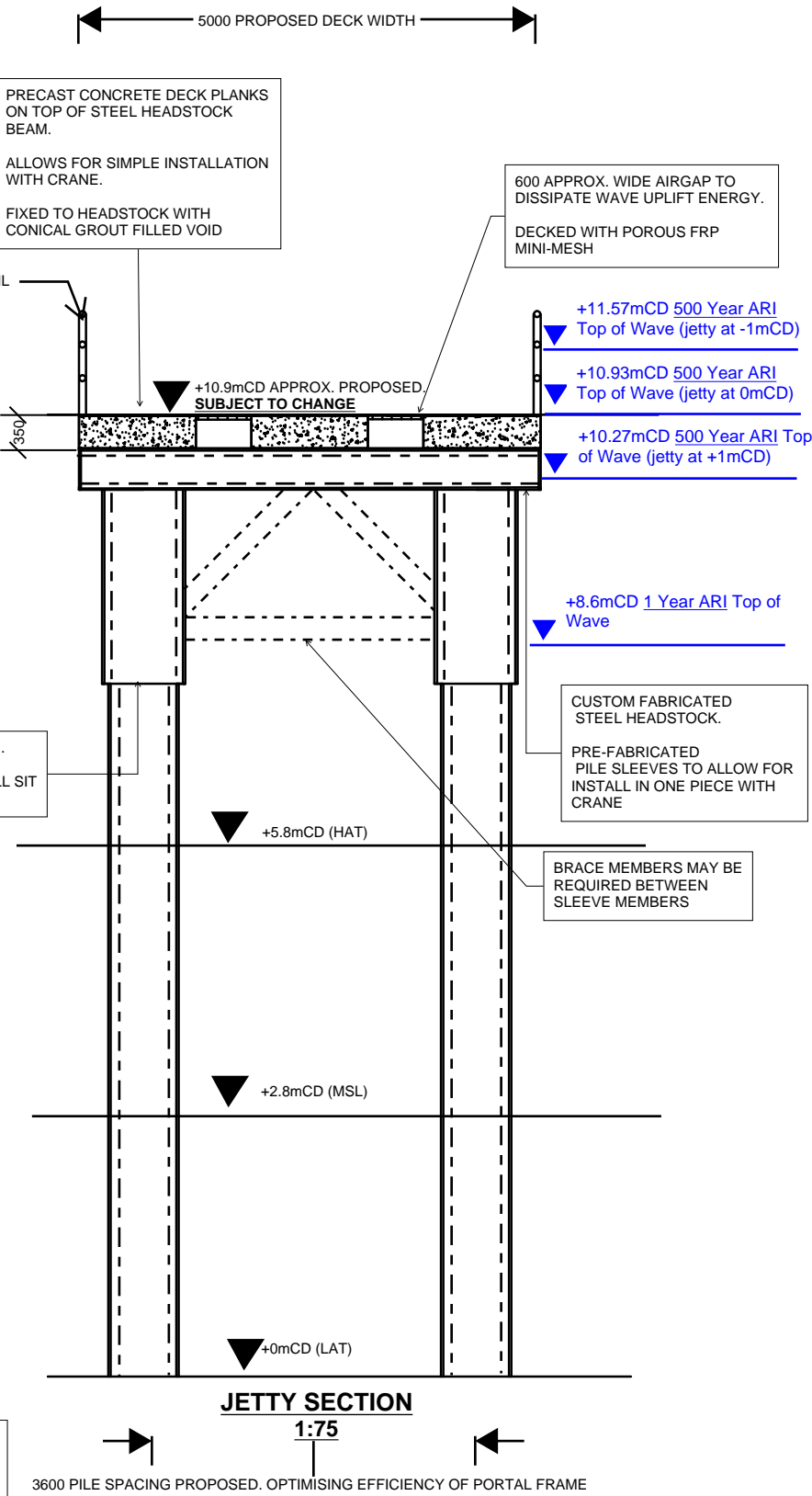
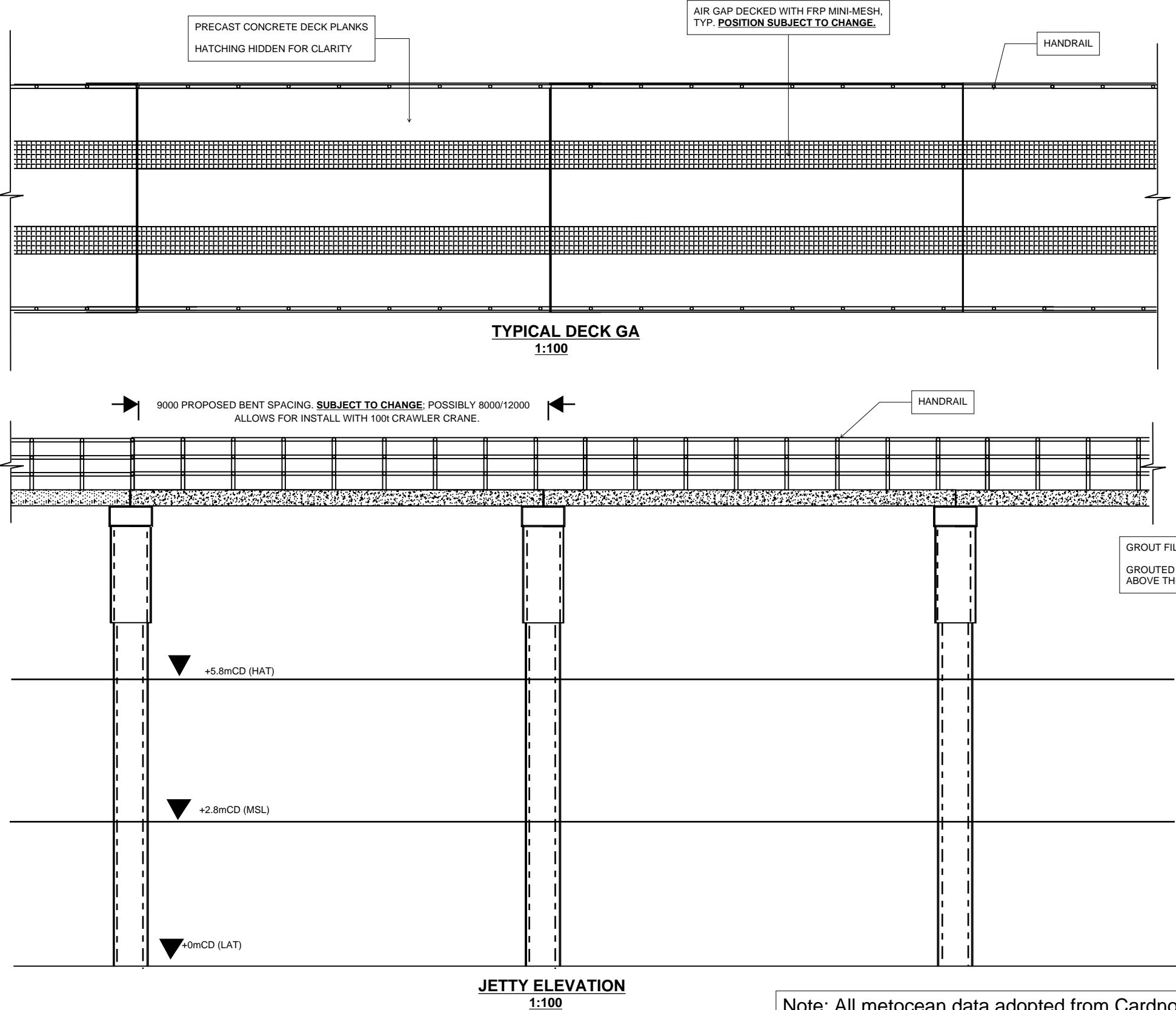


Attachment 2 - Structural Option (1) - Self Supporting Concrete



CONCEPT ONLY NOT FOR CONSTRUCTION	PRO'S	CON'S
	- Simple installation with minimal site work.	- Heavier concrete panels required for the deck
	- Increased durability due to less site work (welding) required.	- Damage to concrete may require replacement of larger panel compared to Option 1
	- Heavier deck planks to resist wave uplift loads	
	- Large air gaps to resist wave uplift loads	

Note: All metocean data adopted from Cardno BoD 6.3  
CW974400 \_R001\_RevA \_BoD\_Pt Samson

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD.
A	03.03.21	FOR REVIEW	IG	IG/ND	

**WGA**  
WALLS  
RIDGE  
GILBERT  
AZTEC

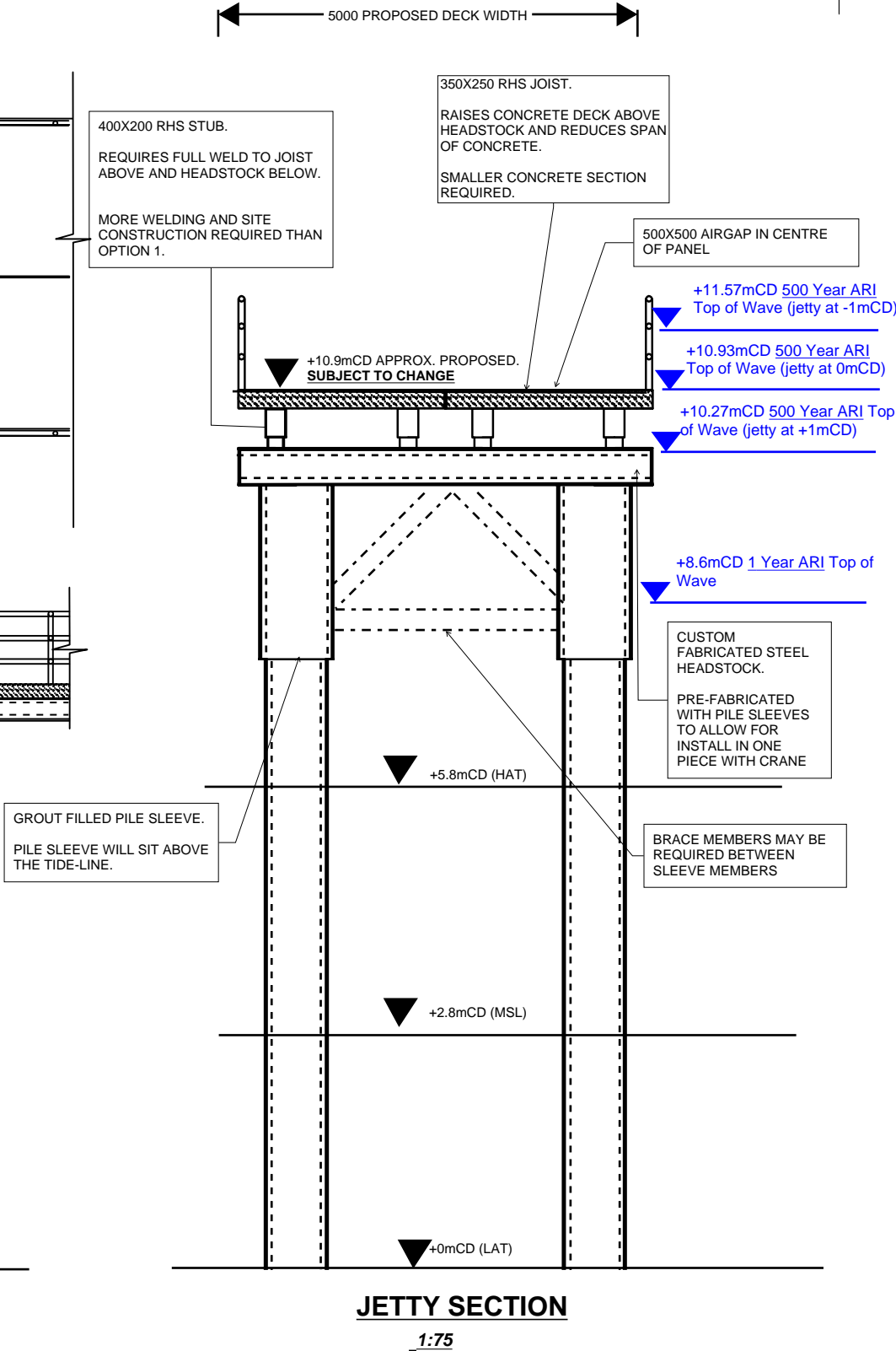
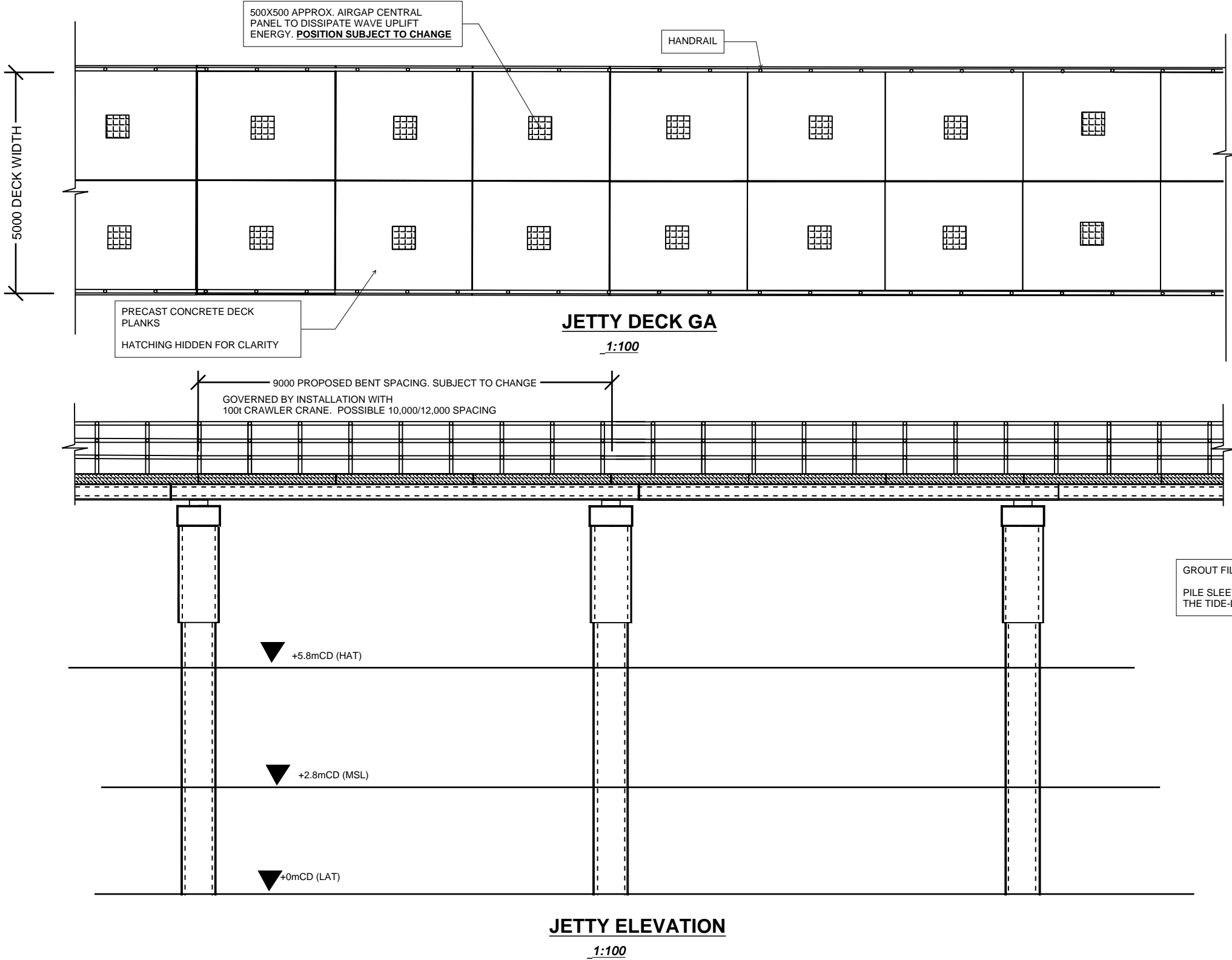
Level 1, 66 Kings Park Road, West Perth  
Western Australia 6005  
Telephone 08 9336 6528  
Email perth@wga.com.au

POINT SAMSON FISHING JETTY

JETTY LAYOUT OPTION 1

A3		DOCUMENT NUMBER	
		Job Number	Sheet No.
Design DSN	Drawn DRN	WGA201055-SK-MA-0001	
			Rev. A

Attachment 2 - Structural Option (2) - Smaller Concrete Panels with Steel Joists



Note: All metocean data adopted from Cardno BoD 6.3  
CW974400 \_R001\_RevA \_BoD\_Pt Samson

PRO'S	CON'S
- Lighter concrete panels due to shorter span between joists.	- Increased site work required to fully weld RHS stubs to headstock beams
- Easier installation with lighter deck elements	- Increased site work required to connect concrete beams to RHS joists
- Stubs lift deck planks away from headstock members	- Smaller airgap may result in less wave energy dissipation
- Damage to a concrete panel results in replacement of a smaller panel than Option 1	- More welding & site work may result in decreased overall durability

CONCEPT ONLY  
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD.
A	03.03.21	FOR REVIEW	IG	IG/ND	

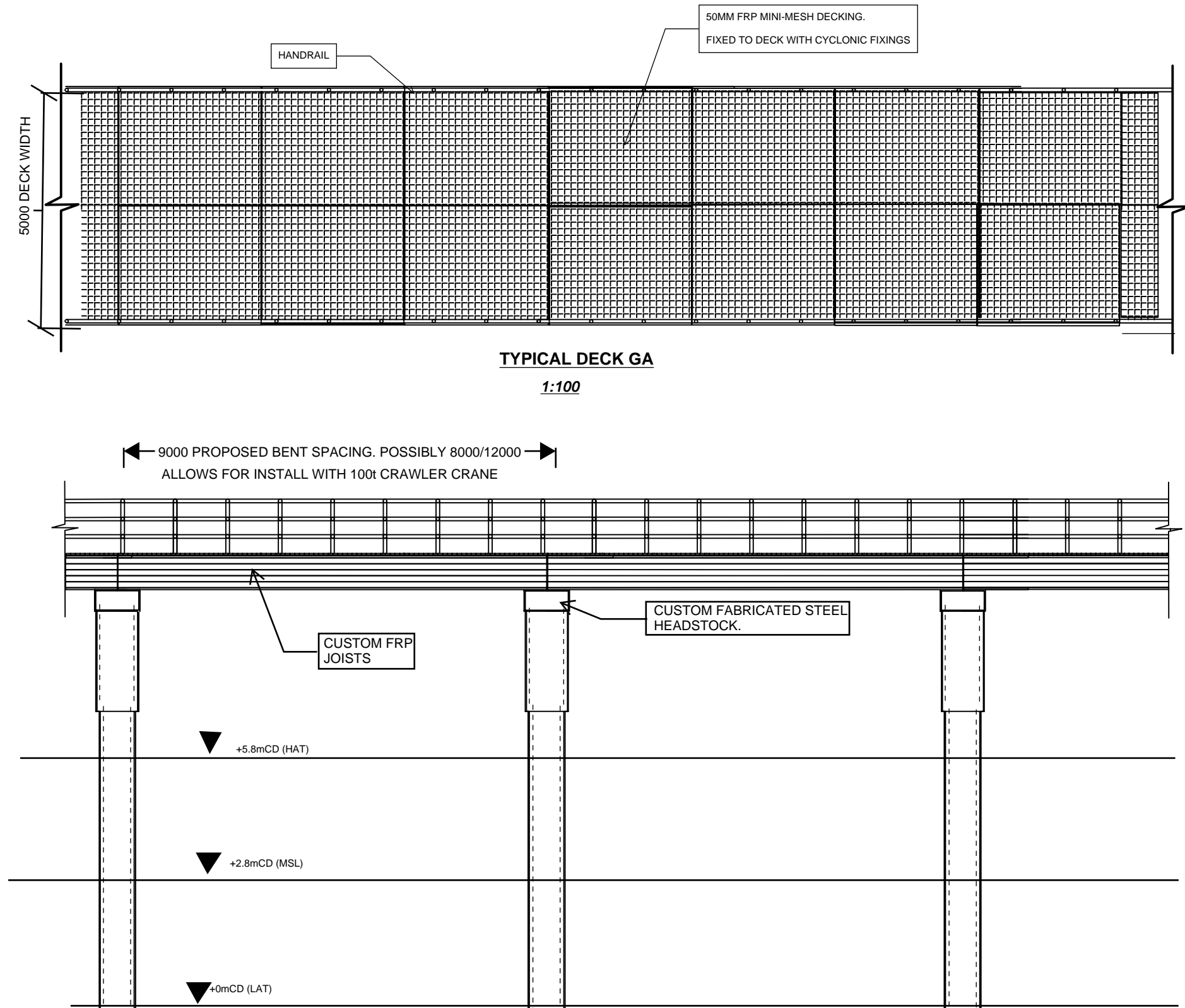
**WGA**  
WALLBRIDGE GILBERT  
AZTEC  
Level 1, 66 Kings Park Road, West Perth  
Western Australia 6005  
Telephone 08 9336 6528  
Email perth@wga.com.au

POINT SAMSON FISHING JETTY

JETTY LAYOUT OPTION 2

A3	DOCUMENT NUMBER	Sheet No.	Rev.
Design DSN	Job Number		
Drawn DRN	WGA201055-SK-MA-0002		A

# Attachment 2 - Structural Option (3) - Fibre Reinforced Panel Deck and Joists



LIGHTWEIGHT CUSTOM FRP SECTION (WAGNERS). PROVIDES A DURABLE CORROSION RESISTANT SOLUTION. EASY INSTALLATION DUE TO LOW WEIGHT.

WILL REQUIRE CUSTOM FABRICATION TO ACCOMMODATE LOADING CONDITIONS.

MAY PRESENT HIGH COSTS.

+11.57mCD 500 Year ARI  
Top of Wave (jetty at -1mCD)

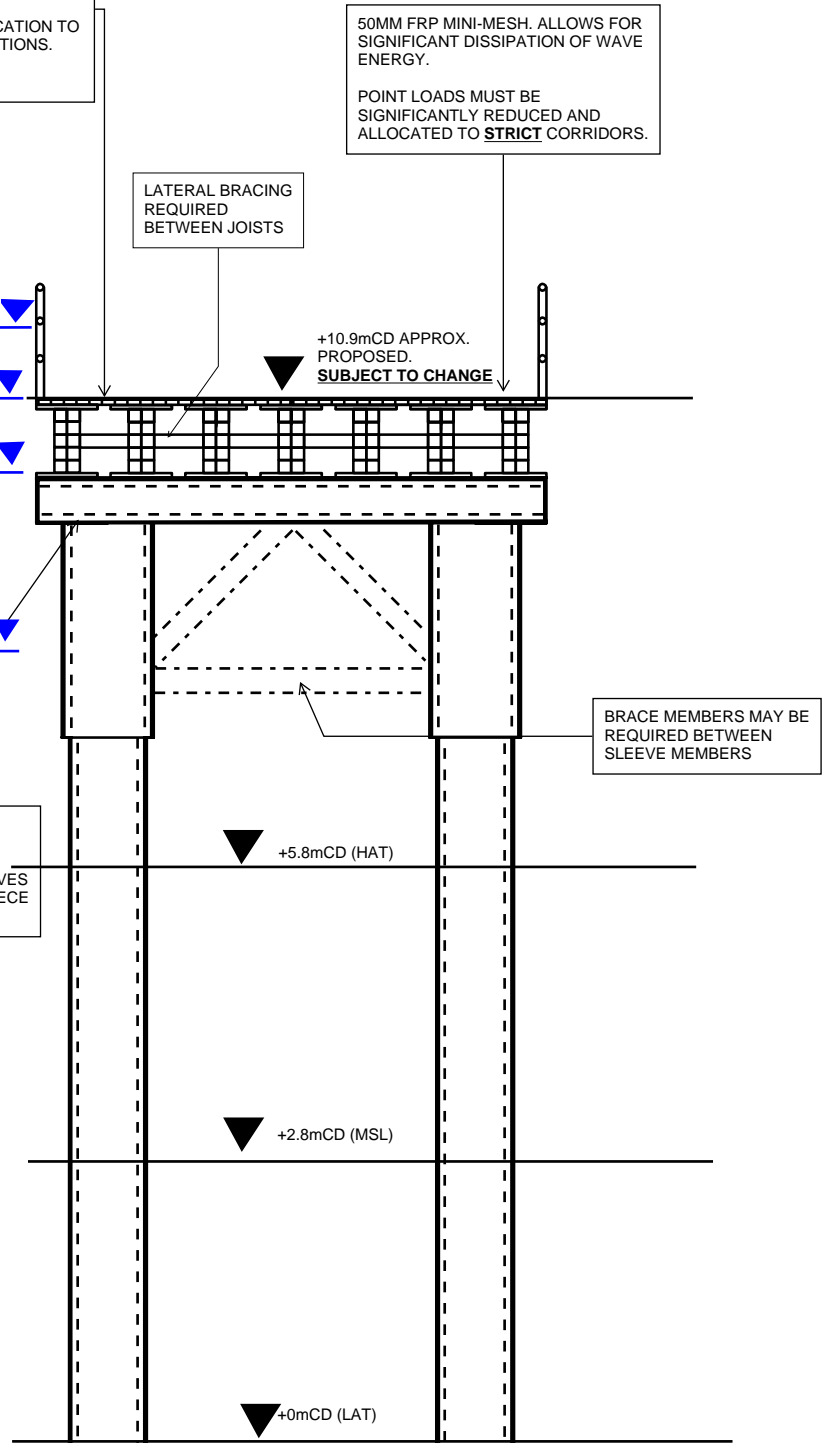
+10.93mCD 500 Year ARI  
Top of Wave (jetty at 0mCD)

+10.27mCD 500 Year ARI Top  
of Wave (jetty at +1mCD)

+8.6mCD 1 Year ARI Top of  
Wave

CUSTOM FABRICATED STEEL  
HEADSTOCK.

PRE-FABRICATED WITH PILE SLEEVES  
TO ALLOW FOR INSTALL IN ONE PIECE  
WITH CRANE



JETTY SECTION

1:75

3600 PILE SPACING PROPOSED. MAXIMISING EFFICIENCY OF PORTAL FRAME

Note: All metocean data adopted from Cardno BoD 6.3  
CW974400\_R001\_RevA\_BoD\_Pt Samson

PRO'S	CON'S
- Lightweight deck allows for easier installation with crane.	- Custom FRP members required to withstand design loading. May incur high costs.
- Fully permeable mesh decking will not require significant uplift resistance. The majority of the wave will pass through the deck.	- Higher number of steps for installation of FRP members - cyliconic deck washers, cleat connections between joists and headstocks, lateral bracing.
- FRP panels are easily replaced if damaged or lost in a storm.	

CONCEPT ONLY  
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD.
A	02.03.21	FOR REVIEW	IG	IG/ND	

**WGA**  
WALLBRIDGE GILBERT  
AZTEC  
Level 1, 66 Kings Park Road, West Perth  
Western Australia 6005  
Telephone 08 9336 6528  
Email perth@wga.com.au

POINT SAMSON FISHING JETTY

JETTY LAYOUT OPTION 3

A3	DOCUMENT NUMBER	Job Number	Sheet No.	Rev.
Design DSN	Drawn DRN	WGA201055-SK-MA-0003		A