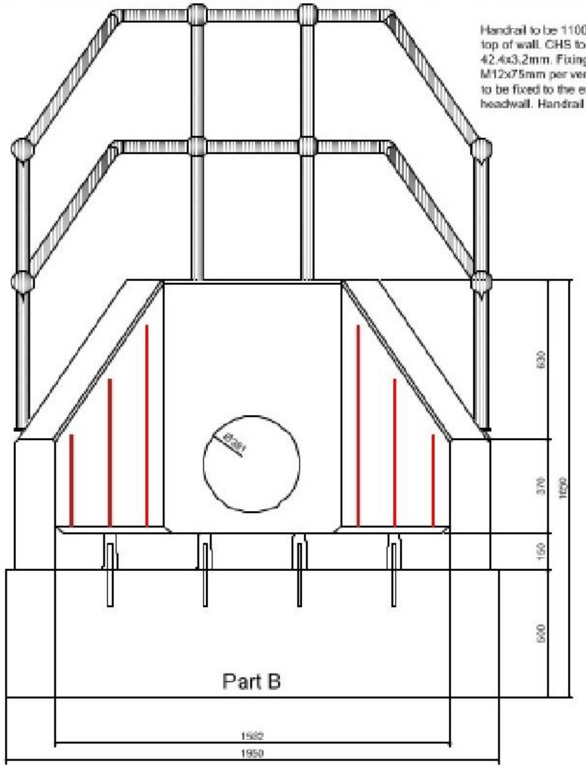
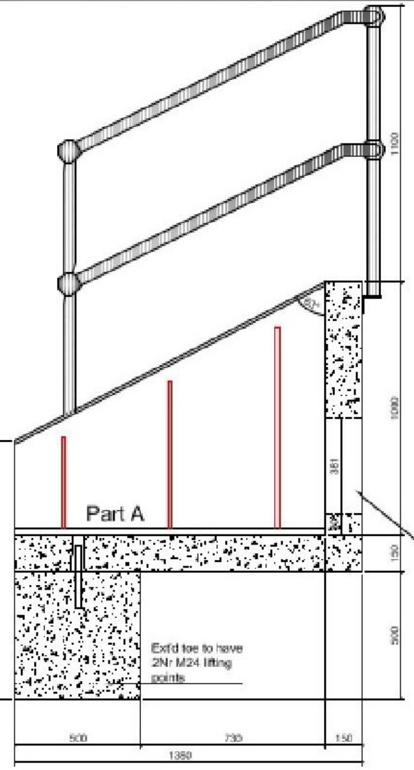
DO NOT SCALE, IF IN DOUBT PLEASE ASK.

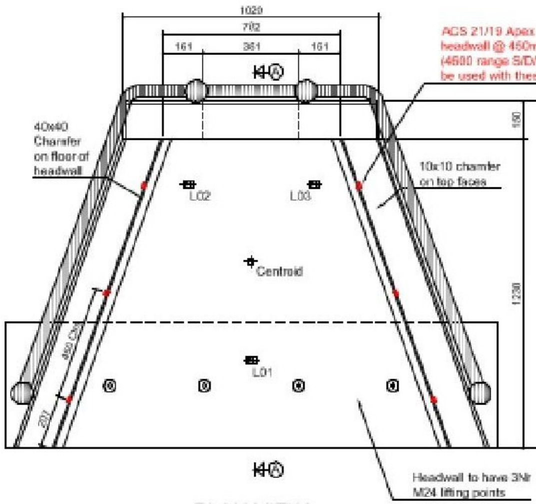


FRONT ELEVATION

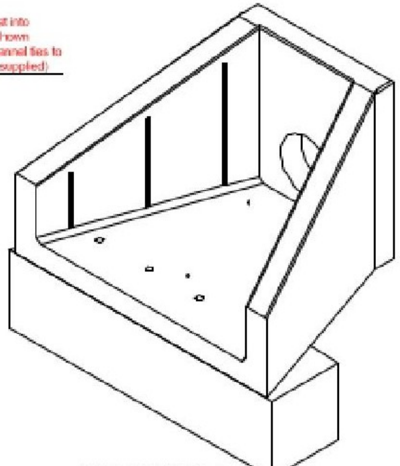


SECTION A-A

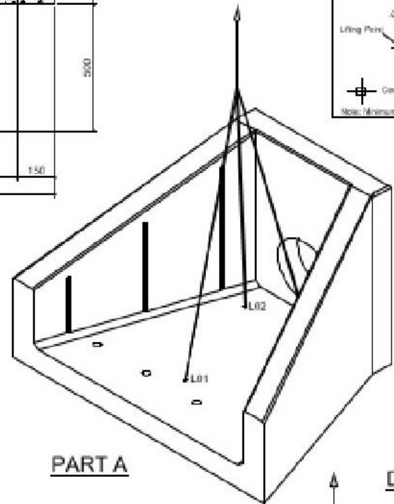
HEADWALL TO BE CAST WITH CHANNELS IN WINGWALLS AS SHOWN



PLAN VIEW

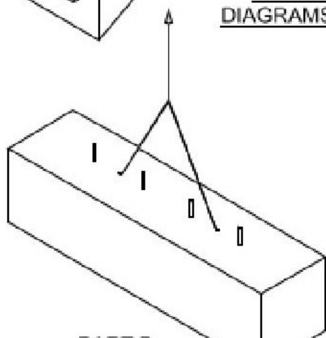


3D HEADWALL IN PLACE



PART A

3D LIFTING DIAGRAMS (NTS)



PART B

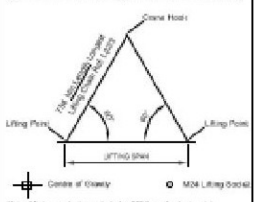
Note: It is the contractors responsibility to ensure that all details are acceptable prior to manufacture. Once the details are agreed, please complete the information below and email this drawing to lmcdermott@fpmccann.co.uk. By approving this headwall design for manufacture & receipt of your order: FP McCann reserve the right to invoice for the approved units after a period of 8 weeks from order & manufacture at the order value irrespective of the goods being delivered.

Contractor	
Date Approved	
Accepted (Signature)	

	Manufacturer Check List ✓	Initals	Date
Pre Pour			
Post Pour			
Final Check			

*Drawing to be read in conjunction with HW22-SP0058-FD

HEADWALL LIFTING INSTRUCTIONS



Note: Minimum chain angle to be 60° from the horizontal

Notes:

1. ⚠ **Handling**

a) Unit Volume / Weight

PART	VOL (M³)	WEIGHT (T)	WT +5% (T)
Part A	0.692	1.799	1.889
Part B	0.488	1.268	1.331
Part C			

Weight is based on 2.6T/m³
+5% is recommended for sizing lifting equipment

b) All lifting points shall be used as specified below:

SYSTEM	QUANTITY	CFS REFERENCE
Threaded Sockets & Loops	3	CFS-LS-24 (2.5T SWL)

c) M24 Lifting Loops can be purchased from FP McCann
d) Unit to be lifted as per lifting diagram

2. **Concrete**

a) Mix ref: Wet Cast Fibre Mix
b) Lifting strength based on 2 cubes = 15N/mm²
c) Characteristic 28 day cube strength = 50 N/mm²
d) Concrete provides Design Chemical Class 4 (DC4) to Special Digest 1, Table F2

3. **Reinforcement**

a) N/A (Fibre only)

4. **Manufacture**

a) Manufactured to BS EN 13369
b) Tolerances to BS EN 13369 clause 4.3.1.1
c) Finishes: *As below unless indicated otherwise on drawing*

	TOP	SIDES	BASE
CLASS	A	A	Steel Float

d) Marking: Units shall be indelibly marked to show:

- Unit reference
- Cast date
- Contract number or name
- Unit weight

5. ⚠ **Design**

a) Concrete design to EC2
b) FP McCann have designed the concrete units only, the stability of the support conditions should be checked by the overall scheme designer.
c) Units are designed to withstand a vertical live load surcharge of 10kN/m²
d) Weight of Soil = 19kN/m³
e) Angle of internal friction = 30°
f) Design life: >100 years

MIN COVER	COVER BLOCK SIZE (MM)	MIN COVER (MM)
ALL FACES	40	35

EXPOSURE			
ALL FACES	XC3/4	XD3	XF4

MANUFACTURE TOLERANCES Allowable dimensional variations shall not exceed the following			
LENGTH Up to 2.5m	VARIATION ± 10mm	CROSS SECTION Up to 200mm	VARIATION ± 10mm
STRAIGHTNESS OR BOW (deviation from intended line) Up to 1m Larger than 1m			VARIATION ± 10mm ± 8mm/m <=20mm
FLATNESS (Moulded Surface) l = 2m			9mm

6. **Additional Information**

a) Max permissible pipe OD is 590mm / Max DN450 Concrete
b) All accessories will arrive as separate components which must be fixed & made good on site by others.
c) For min chain length of additional supplied items please contact FP McCann

Rev	Date	Revision detail	By	Chk'd
0	31.10.22	Original issue	LMD	-

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Contract: ANDERSON GROUP ROCHFORD REF: HW3

Title: MEDIUM HEADWALL (150MM WALL) TO SUIT DN300 TWINWALL PIPE WITH HANDRAIL, EXTENDED TOE & CAST IN CHANNELS

Scale:	1:30	Status:	FOR APPROVAL OCT 2022
Date:	31.10.22		
Drawn:	LMD		
Checked:	-		

Drawing no: HW22-SP0058-GA Rev: 0

A4
1cm
1cm
A4