	Estuary House Peninsula Park Rydon Lane Exeter EX2 7XE Tel: 01392 433241	JOB NO: PYSW-XX-XX-CM-S-	SHEET NO: 2110-A1	REV: P01
		DATE PREPARED: 05/02/2024	REVISION:	DATE:
		PREPARED BY: RB		
		CHECKED BY: BB		
PROJECT: PRINCESS YACHTS, UNIT 3 SEAWALL				
PART: INDICATIVE CONSTRUCTION METHODOLOGY				

A brief description of the proposed construction method for the wall repair is provided below.

Site Set-up and Mobilisation:

- Site set-up on Princess Yachts property behind proposed seawall repair. Construction materials to be on Princess Yachts site. Careful coordination between the Contractor and Princess Yachts will be required to ensure the construction site has clear, defined and safe boundaries within the larger Princess Yachts site, to separate the ongoing manufacturing operations of Princess Yachts from the Contractor’s construction works.
- All repair works will be carried out from land.

Excavation to formation:


- Excavation to formation of the pile cap is expected to be carried out using a combination of small plant, hand dug.
- Excavated material (including temporary works) to be temporarily stored (likely in skips at Princess Yachts), where it can then be tested and carted away. Where necessary a tarpaulin or impermeable membrane should be provided to prevent contamination of the surrounding area.
- Works would typically be undertaken to suit the tides (typically nearer low tide), where necessary.
- Excavate to the required formation of the pile cap.

Pile Cap Construction:

- Screw piles installed likely using hand held equipment.
- Reinforcement cage lifted into place, assisted by the larger excavator.
- In-situ concrete pumped from Princess Yachts site to form the reinforced concrete pile cap foundation.

Concrete likely to be:

- Design Life: 100 years
- Exposure Class: XC3/4, XS3
- DS Class of ground: DS-3
- ACEC Class of ground: AC-3
- DC Class of concrete: DC-4 (due to APM1)
- Compressive strength: C40/50
- Chloride Class: Cl 0,40
- Max free water/cement ratio: 0.40
- Minimum cement content: 380kg/m³
- Cement Type: CEM IV/B(V) or VLH IV/B(V)
- Maximum aggregate size: 20mm
- Freeze thaw resistant aggregates: Required
- Water resisting concrete: Required

	Estuary House Peninsula Park Rydon Lane Exeter EX2 7XE Tel: 01392 433241	JOB NO: PYSW-XX-XX-CM-S-	SHEET NO: 2110-A2	REV: P01
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Retaining Wall Construction:

- Temporary shutter formed and mass concrete pumped to form the retaining wall. Concrete likely to be:
 - Grade: FND4
 - Max free water/cement ratio: 0.55
- Drainage layer installed and backfilled with site won material (subject to testing) or imported fill.
- Recovered stone (and where required imported stone) to be used to face the mass concrete retaining wall and tie in the existing wall new wall stone facing. Stainless steel ties are to be used to tie the stone facing to the mass concrete retaining wall.

Reinstatement:

- Path and balustrade to be reinstated similar to existing.