

● INDICATES ADDITIONAL PILE REPAIRS REQUIRED (< 10mm WALL THICKNESS)

✕ INDICATES PILES VISIBLY INSPECTED, DEEMED TO BE IN GOOD CONDITION, NO THICKNESS MEASUREMENTS TAKEN

PLAN
Scale: 1-250

Preliminary Repair Design Summary			
Pile Type	Repair (W x H)	Quantity	Weight (T)
Bearing Piles	0.5 x 1.0	35	1.10
	0.75 x 1.5	10	0.71
	0.612 x 2.0	15	1.15
	Total	60	2.96
Fender Piles	No Repairs Required		
Raker Piles	No Repairs Required		

Do not scale from this drawing.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO. DID/

CONSTRUCTION

FALLS FROM HEIGHT

- EXPOSED QUAY EDGE

DIVING-ENTRAPMENT/DROWNING

- FAST TIDAL CURRENTS

WEILS DISEASE

- DISEASE FROM RATS

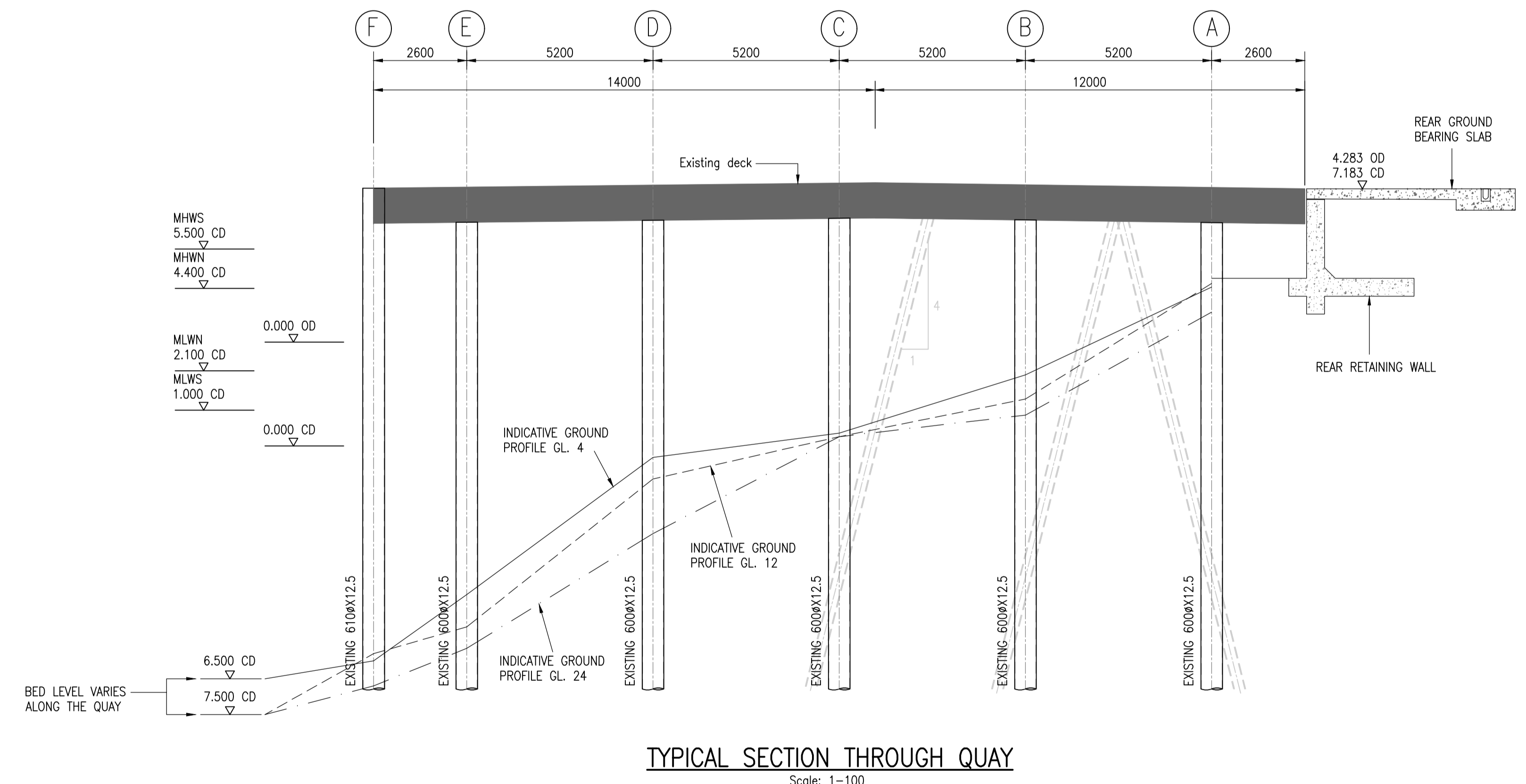
HOT WORKS

DEMOLITION

NONE

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.



TYPICAL SECTION THROUGH QUAY
Scale: 1-100

DESIGN IS BASED ON THE WALL THICKNESS SURVEY DATA TAKEN FROM HARBOUR MARINE PILE THICKNESS SURVEY 2013 & 08/2015. ALL REPAIR AREAS ARE STANDARDISED TO 3 TYPES OF REPAIR PLATE TO FACILITATE BUDGET COSTING.

REPAIR PLATE ELEVATION, ORIENTATION AND AREA TO BE AGREED WITH THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS. CONTRACTOR TO PROCEED TO THE ORDER OF THE PLATES ONLY AFTER THE PROJECT MANAGER HAS COMPLETED THE INSPECTION OF THE MARKED PATCHES AND APPROVED THE REPAIRS.

Rev.	Date	Description	Drawn	Checked	Approved

NOTES

- Piles to be blast cleaned back to sound substrate prior to steel plate installation.
- All bearing pile repair plates to be 8mm thick and bent to suit pile diameter.
- All repair plates to be grade S355.
- Welding**
 - Repair plate to be fixed using a 6mm fillet weld all around.
 - Grade of fillet weld to be S355.
 - Where two or more plates are welded together and to the pile, filling between the plates may be necessary. Electrodes of S355 grade to be used for filling.
 - All welds to be grinded upon completion to achieve a smooth finish.
- Deck levels taken from archive drawing 6147-80G.
- All pile repairs subject to detailed design following a full visual inspection and thickness gauge survey (minimum 50% pile coverage). To be agreed with the client.
- Contractor to allow for up to 500mm of bed excavation local to piles, to facilitate repair plate installation.



Client: **PORT OF DUNDEE DUNDEE EAST REDEVELOPMENT**

Drawing Title: **PCW PILE REPAIRS 10.0T/M² CARRYING CAPACITY**

FAIRHURST

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Scale at A1: AS SHOWN Status: For Information

Drawn: SB	Checked: TW	Approved: SB
Date: 18/04/19	Date: 18/04/2019	Date: 18/04/2019

Drawing No.: **130143/4201** Revision: -