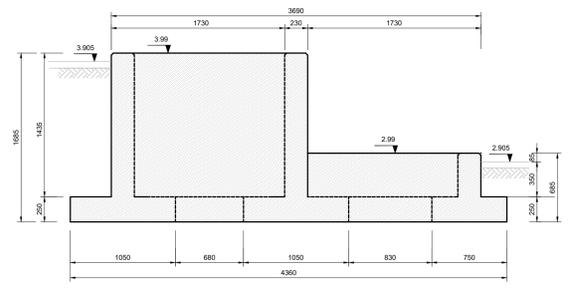
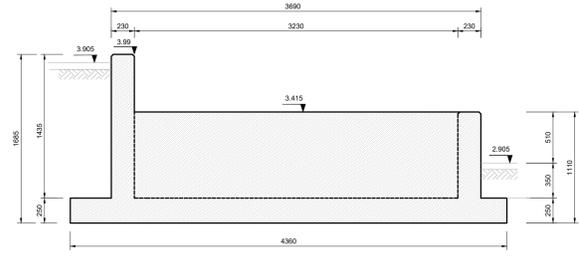


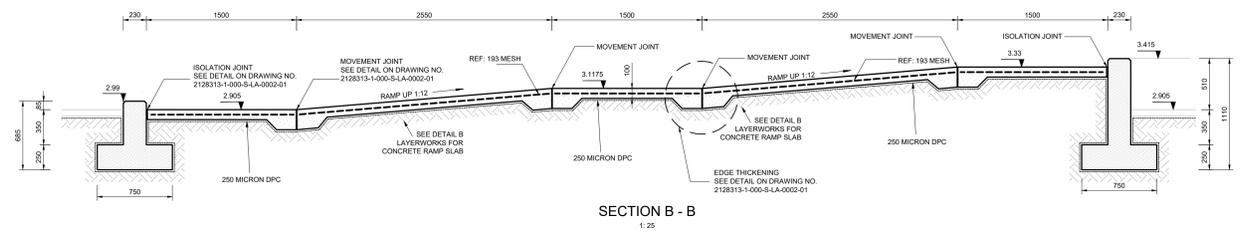
PLAN LAYOUT
1:25



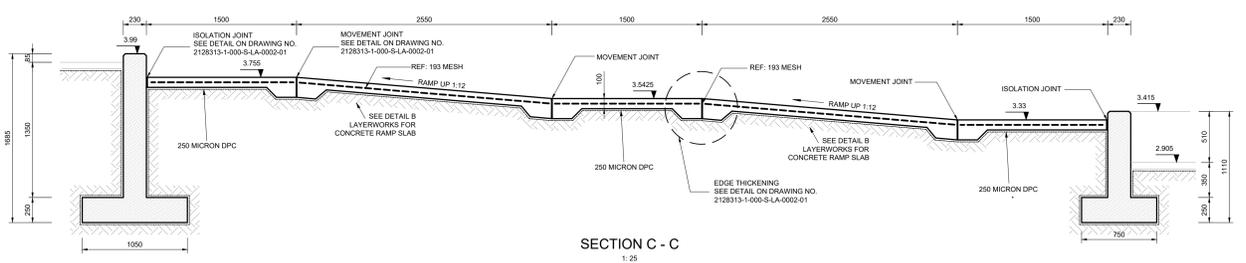
SECTION THROUGH WALL 2
1:25



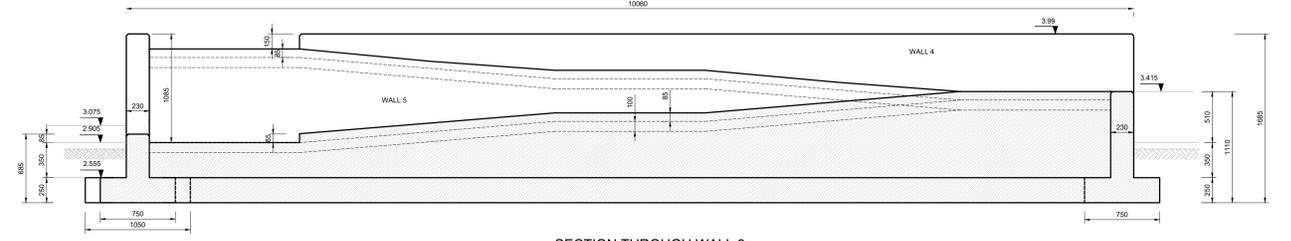
SECTION THROUGH WALL 1
1:25



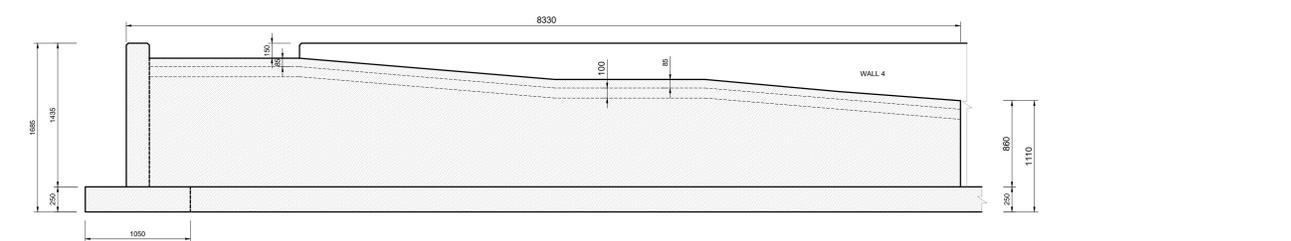
SECTION B - B
1:25



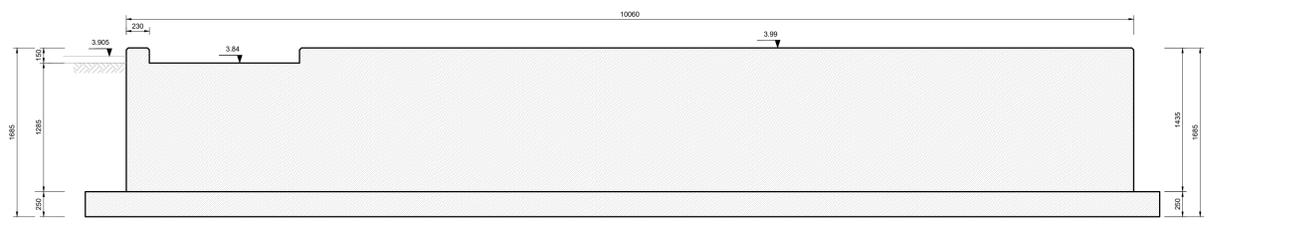
SECTION C - C
1:25



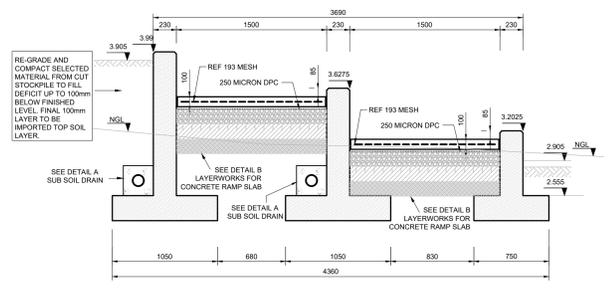
SECTION THROUGH WALL 3
1:25



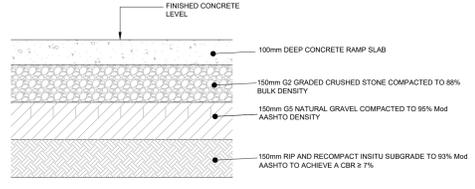
SECTION THROUGH WALL 5
1:25



SECTION THROUGH WALL 4
1:25



DETAIL A - TYPICAL SUBSOIL DRAIN
SCALE 1:10



DETAIL B - LAYERWORKS FOR CONCRETE RAMP SLAB
SCALE 1:10

NOTE:
Layerworks for terrace staircases and paving as per civil engineers details.

NOTE A:
Prior to commencement of any excavation works on the site, the Contractor shall appoint an accredited Soils Testing firm to undertake Dynamic Cone Penetration (DCP) testing at all positions near the proposed construction site. The appointed firm shall prepare a testing report that shall reflect estimated allowable bearing capacity data for corresponding depths below ground for each testing location. The testing report shall be reviewed and accepted by the Project Structural Engineer prior to commencement of any excavation works.

ADDITIONAL NOTES:
All deviations from engineer's drawing to be confirmed by engineer prior to construction.
All drainage and waterproofing to architect's detail.
All foundation depths to be confirmed with engineer on site.
Foundations not to encroach over boundary.
This drawing is to be read in conjunction with architect's drawing.
Bars are to be cut/bent to suit on site.

ABBREVIATIONS USED:
EF - each face
FF - far face
B - bottom
ABR - alternate bars reversed
ABS - alternate bars staggered
IJ - isolation joint
NF - near face
T - top
EW - each way

All exposed concrete slabs and beams bearing on brickwork to have a slip joint made up of 2 sheets of 3mm thick marble with smooth faces abutting each other at top of brick-concrete interface.
Min. lap length = 45 x bar diameter.
All brickwork to have a min. comp. strength of 14mpa.
A blinding layer (50 mm min.) to be provided.
Cover blocks to be provided.
All exposed sharp corners to be chamfered 20mm.

2128313-1-000-S-LA-001-01-08	NORTH GROYNES CONCRETE RAMP LAYOUT, SECTIONS AND DETAILS
DRAWING NO.	REFERENCE
REFERENCE DRAWINGS	

General
This drawing to be read in conjunction with all relevant architects and engineers drawings.
Dimensions must not be scaled or assumed. After notification, discrepancies or missing dimensions will be corrected in writing by the project manager.
Levels shown to foundations are provisional and will be finalised by the engineer on site.
Foundations have been designed for a permissible bearing pressure of 90 kN/m². All chamfered edges to be 20mm x 20mm.
Reinforcement shall comply with SANS 920 and be bent to SANS 282.

Symbols:
R = Mild steel bars with characteristic strength of 250 MPa.
Y = Hot rolled or cold worked high yield steel bars with characteristic strength of 450 MPa.
(Only reinforcement fabricated under the SANS mark shall be deemed to comply with SANS 10100.)
Concrete (where applicable the following shall apply):
SANS 1020 - Standard Specification for concrete and
SANS 10100 - The structural use of concrete.

A set of six cubes must be made for every pour of concrete poured on a specific day, 3 of the cubes must be tested at seven days, and the balance must be available for testing at 28 days to ensure strength results are achieved. Cube tests to be done by independent laboratory and accepted by the supervisor.
The test results are to be submitted to the supervisor immediately and should any problems be anticipated no shuffling is to be attempted until further notice from the supervisor.
All concrete shall be vibrated according to specification. All concrete must be cured continuously for seven days after pouring and effectively protected against dehydration.

28 Day Concrete strengths are specified in terms of clauses in SANS 1020. Unless Otherwise Specified:
Structural Element Concrete Grade (MPa)
Blinding 15
Beams/footings 30
Beams / Slabs 30
Walls 30
Columns 30
The structure has been designed for the following imposed floor loads:
Structure Loading (kN/m²)
Live Load 5

Concrete cover to reinforcement (in mm) Unless Otherwise Specified	Base/footings	50
Pilecap (top and sides)	50	
Pilecap (bottom)	75	
Ground beams	50	
Retaining walls (earth face)	50	
Slab beams	50	
Slab (top steel)	50	
Slab (bottom steel)	50	
Slab (Mesh)	30	

REVISIONS	
NO.	DESCRIPTION
01	ISSUED FOR TENDER

CONTRACTOR / CONSULTANT				TRANSNET NATIONAL PORTS AUTHORITY			
TITLE	NAME	SIGN	DATE	TITLE	NAME	SIGN	DATE
				DRAWN	PM		05 08 22
				CHECKED	KP		05 08 22
				DESIGNED	PM		05 08 22
				CHECKED	KP		05 08 22
OPERATING DIVISIONS				PR. ENG. / PR. TECH. / PR. ARCH			
TITLE	NAME	SIGN	DATE	NAME	SIGN	DATE	DATE
				SIGNATURE			05 08 22
				REG. NUMBER	2039647		
				SCALE:	AS SHOWN		

TRANSNET
237 MAHATMA GANDHI ROAD
DURBAN
TEL: 031 361 1696
FAX: 0869 770815

PORT OF DURBAN
DURBAN HARBOUR ENTRANCE - NORTH GROYNES
PROMENADE TERRACING AND CARPARK
UPGRADE:
CONCRETE RAMP LAYOUT, SECTIONS AND
DETAILS

PROJECT NUMBER: CO 001
FBS 001
DSE 001
DRAWING NO: 01
SHEET: 01
REV: 01
DATE: 17-04-2024