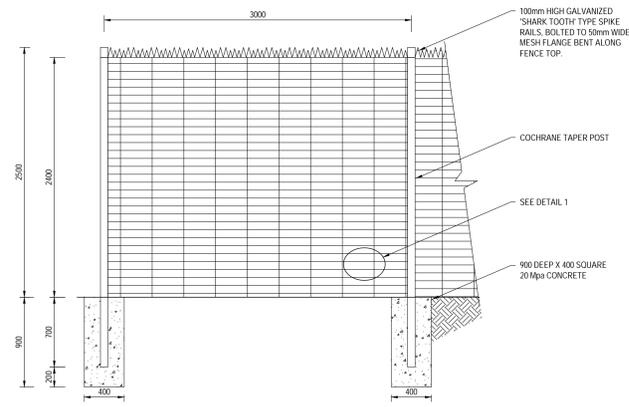
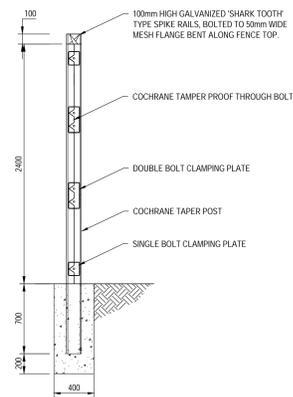


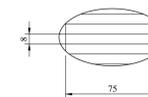
PLAN VIEW
SCALE 1:25



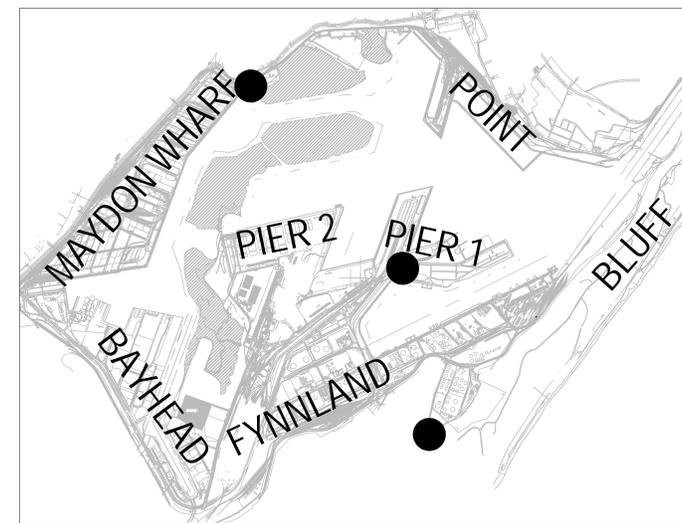
FENCE ELEVATION
SCALE 1:25



SECTION A-A
SCALE 1:25

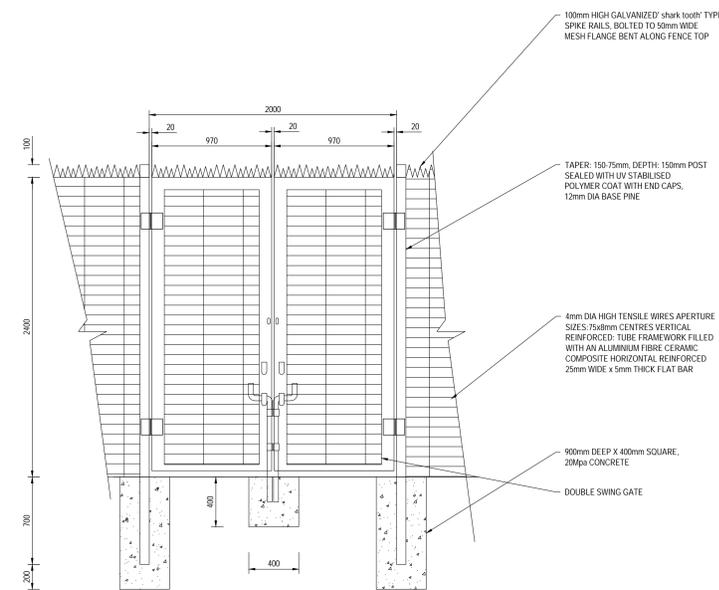


DETAIL 1
SCALE 1:2



LOCALITY PLAN
NTS

SETTING OUT CO-ORDINATES TABLE WG31		
MAYDON WHARF		
Point	Y	X
A	-1309.2574	3305452.3001
B	-1313.3785	3305447.5829
C	-1318.1578	3305451.7581
D	-1314.3174	3305456.1540
PIER 1		
A	-2376.9692	3307723.9596
B	-2382.4830	3307720.5158
C	-2385.0996	3307724.7053
D	-2379.4555	3307728.2304
BLUFF		
A	-2656.4682	3309101.1159
B	-2659.6434	3309098.2270
C	-2662.3473	3309101.1990
E	-2656.4682	3309101.1159



GATE ELEVATION
SCALE 1:25

NOTES:

- THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. THE NOTES TAKE PRECEDENCE SHOULD A DISCREPANCY ARISE WHICH IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - ALL DIMENSIONS AND SETTING OUT INFORMATION ARE CHECKED PRIOR TO THE COMMENCEMENT OF THE SETTING OUT OF THE WORKS.
 - ALL LEVELS ARE ABOVE MEAN SEA LEVEL (AMSL).
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWING AND ALL DIMENSIONS VERIFIED.
 - ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS AND THE REGULATIONS AS SET OUT BY THE M.B.C.
 - ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND THE CONSTRUCTION REGULATIONS.
 - SUBCONTRACTING OF ANY PORTION OF THE WORKS DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AND LIABILITIES IN TERMS OF THE CONTRACT AND THE REGULATIONS NOTED IN 6.
 - ALL QUANTITIES ARE TO BE MEASURED IN ACCORDANCE WITH SANS 1000.
 - ALL WET SERVICES ARE TO HAVE FLEXIBLE JOINTS AGAINST THE BUILDING.
 - STORMWATER IS TO BE ADEQUATELY ROUTED AWAY FROM THE STRUCTURE.
 - FORMING OF WATER DURING AND AFTER CONSTRUCTION IS NOT BE PERMITTED.
- CONCRETE NOTES:**
- EXCAVATIONS FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER AND GEOTECHNICAL ENGINEER PRIOR TO THE CONCRETE BEING CAST THEREFORE FOUNDATION LEVELS ARE SUBJECT TO CHANGE.
 - ALL FOUNDATIONS TO BE BUILT ON FIRM IN-SITU SOIL (NOT ON FILL).
 - FOUNDING CONDITIONS AS RECOMMENDED IN THE GEOTECHNICAL REPORT BY THE GEOTECHNICAL ENGINEER.
- CONCRETE:**
- CONCRETE CHARACTERISTIC 28-DAY STRENGTH: 15 MPa
 - FOUNDATIONS: 30 MPa
 - SUSPENDED SLABS & BEAMS: 25 MPa
 - GROUND SLABS: 25 MPa
 - MINIMUM CONCRETE AGGREGATE SIZE: 19mm
 - ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP FOR AT LEAST 7 DAYS AFTER CASTING.
 - ALL CONCRETE WORK MUST CONFORM WITH THE SPECIFICATIONS OF SANS 1010-2 AND SANS 2001-0C1.
 - A SET OF THREE (3) TEST CUBES SHALL BE MADE FOR EVERY 50M³ OR PORTION THEREOF FOR EVERY GRADE OF CONCRETE CAST ON A PARTICULAR DAY. CUBES SHALL BE CURED IN ACCORDANCE WITH THE FOLLOWING MINIMUM PERIODS: UNLOADED SLABS: 7 DAYS; UNLOADED BEAMS: 14 DAYS; UNLOADED WALLS: 21 DAYS.
 - NO CONCRETE SHALL BE CAST WITHOUT THE ENGINEER HAVING INSPECTED THE REINFORCING. CONCRETE JOINTS ARE ONLY TO BE MADE WITH THE APPROVAL OF THE ENGINEER.
 - BREAKS IN CONCRETE AND CONSTRUCTION JOINTS ARE ONLY TO BE MADE WITH THE APPROVAL OF THE ENGINEER.
 - THE USE OF KICKERS FOR WALL AND COLUMN CONSTRUCTION IS NOT PERMITTED.
 - SHOULD THERE BE A BREAK IN EXCESS OF 40MM AT ANY STAGE DURING A CONCRETE POUR, THE ENGINEER IS IMMEDIATELY NOTIFIED THEREOF.
 - CONCRETE SLABS ARE NOT TO BE USED FOR THE STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
 - SHUTTERING AND FORMWORK MAY ONLY BE STRUCK ONCE THE FOLLOWING MINIMUM PERIODS HAVE ELAPSED, OR UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER. DESIGN OF FALSEWORK AND FORMWORK ARE THE CONTRACTOR'S RESPONSIBILITY.
- POSITION OF SHUTTER PROPS**
- | POSITION OF SHUTTER PROPS | STRIKE TIME |
|--|-------------|
| BEAM SIDES, WALLS & UNLOADED COLUMNS | 2 |
| SLAB SHUTTERS WITHOUT REMOVAL OF PROPS | 4 |
| BEAM SHUTTERS WITHOUT REMOVAL OF PROPS | 7 |
| PROPS - UNLOADED SLABS | 14 |
| PROPS - UNLOADED BEAMS | 21 |
- MINIMUM COVER TO REINFORCING:**
- | REINFORCING | COVER |
|-------------------------|-------|
| FOUNDATIONS | 40mm |
| COLUMNS | 30mm |
| SUSPENDED SLABS & BEAMS | 30mm |
| WALLS, RETAINING WALLS | 40mm |
- ONLY CONCRETE COVER BLOCKS APPROVED BY THE ENGINEER ARE TO BE USED TO MAINTAIN THE REQUIRED COVER TO REINFORCEMENT.**
- THE CONTRACTOR TAKES PARTICULAR CARE TO ENSURE THAT THE SPECIFIED COVER TO ALL REINFORCEMENT IS ATTAINED THROUGHOUT BEFORE THE ENGINEER IS CALLED TO SITE.
- CONCRETE FINISHES:**
- | CONCRETE FINISHES | FINISH |
|-------------------|-------------|
| SUSPENDED SLABS | WOOD FLOAT |
| COLUMNS & WALLS | OFF SHUTTER |
| BEAMS | OFF SHUTTER |
| SLAB SOFFIT | OFF SHUTTER |
- JOINT PREPARATION:**
- JOINT SAWING TO BE TIMED TO AVOID EDGE SPALLING. PLOUGHED AGGREGATE AND RANDOM CHALKS MUST BE 20MM DEEP BEFORE AFTER CASTING THE SLAB, WHERE SAWING IS IMPRACTICAL, PROVIDE A 20 DEEP x 15mm FORMED CHANNEL WITH 10mm DEEP SLOTTED SURFACES.
 - THE SURFACE OF THE FIRST CAST CONC. FORMING A CONSTRUCTION JOINT SHOULD BE FINISHED AS FOLLOWS:
SURFACE LAPFANCE TO BE REMOVED TO EXPOSE THE LARGE AGGREGATE AND LEAVE A SOID SURFACE. ON VERTICAL SURFACES THIS MAY BE FACILITATED BY THE USE OF A SUITABLE EXPANDED METAL OR PROPRIETARY STOP AND SLUTTER. BEFORE CASTING NEW CONCRETE, THE SURFACE IS TO BE THOROUGHLY CLEANED AND WETTED.
NO FREE WATER TO BE PRESENT WHEN THE CONCRETE IS CAST.
 - JOINTS TO BE SAWN AT A SUITABLE TIME SO AS TO AVOID EDGE SPALLING OR BREAKING.
 - AFTER TEMPORARY FILLER MATERIAL HAS BEEN REMOVED OR EXCESS CONCRETE HAS BEEN BROKEN OFF, THE SURFACE OF THE JOINT TO BE WIRE BRUSHED OR SAND BLASTED TO REMOVE ALL LAPFANCE AND CONTAMINANTS.
 - THE JOINT IS TO THEN BE CLEANED AND BLOWN OUT WITH COMPRESSED AIR TO REMOVE ALL TRACES OF DUST.
 - SOVENTS ARE NOT TO BE USED FOR REMOVING CONTAMINANTS FROM CONCRETE AND FORDUS SURFACES.
 - THE CONTRACTOR IS TO ENSURE THAT PRIMERS OR ADHESIVES ARE APPLIED ONLY TO SURFACES WHICH ARE ABSOLUTELY DRY.
 - THE PRIMER OR ADHESIVE IS TO BE APPLIED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
 - UNLESS OTHERWISE SPECIFIED, THE PRIMER IS TO BE APPLIED IN A TEMPERATURE RANGE OF 10°C AND 40°C AND THE SEALANT IS TO BE APPLIED AFTER THE CURING PERIOD OF THE PRIMER AND WITHIN THE PERIOD WHEN THE PRIMER REMAINS ACTIVE.
- SEALANTS:**
- SEALANTS ARE TO BE APPLIED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS BY A PERSON SKILLED IN THE USE OF THE PARTICULAR TYPE OF SEALANT.
 - THE SEALANT IS TO BE FINISHED TO A NEAT APPEARANCE FLUSH WITH THE EDGES OF THE CONCRETE OR TO THE SPECIFIED DEPTH.
 - JOINT FILLER TO COMPLY WITH (D151) OR ASTM D1752.
 - JOINT SEALANT TO COMPLY WITH SANS 110 OR SANS 1077, COLOUR GREY, JOINT PREPARATION, PRIMER, AND SEALANT INJECTION TO BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

FOR TENDER

NO	ISSUED FOR TENDER	DATE
00	ISSUED FOR TENDER	2022-07-11
NO	DESCRIPTION / REVISIONS	DATE



PROJECT / AREA / ASSET / SUBJECT

PORT OF DURBAN

DRAWING TITLE

FENCING DETAILS FOR AIR QUALITY STATIONS

DATE	2022-07-11	DR: DESIGN CENTRE MANAGER
SCALE	AS SHOWN	DR: PORT ENGINEER
DESIGNED BY	ZS	DR: PLAN DRAWER
CHECKED BY	NZ	DR: CHECKER
DRAWN BY	ZS	DR: PLAN DRAWER
CHECKED BY	NZ	DR: CHECKER

PAPER SIZE	TRANSNET DRW NO	SHEET REV
A0	DH6110903-000-00	

CONSULTANT / CONTRACTOR DRW NO