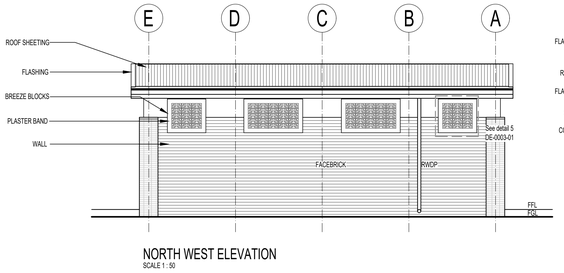
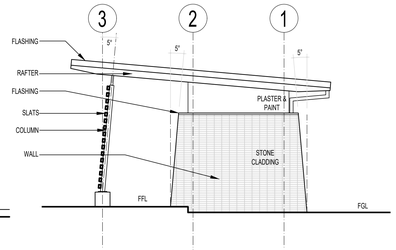


NORTH WEST ELEVATION
SCALE 1 : 50



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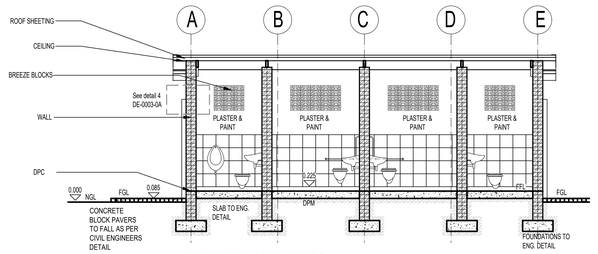
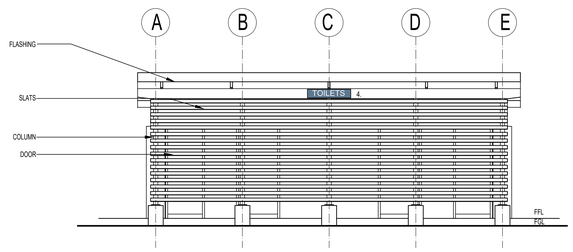
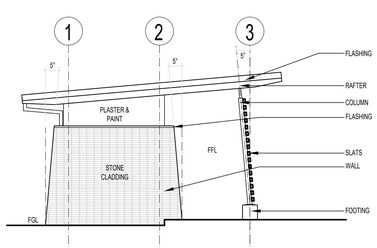
SCALE 1 : 50



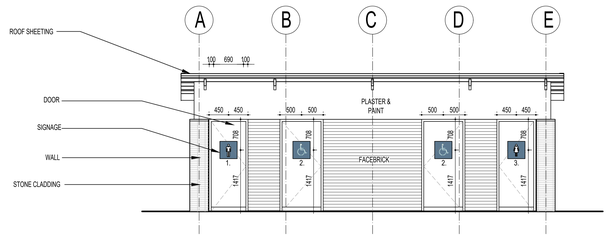
SECTION SE-000.2-SE000.2
SCALE 1 : 50



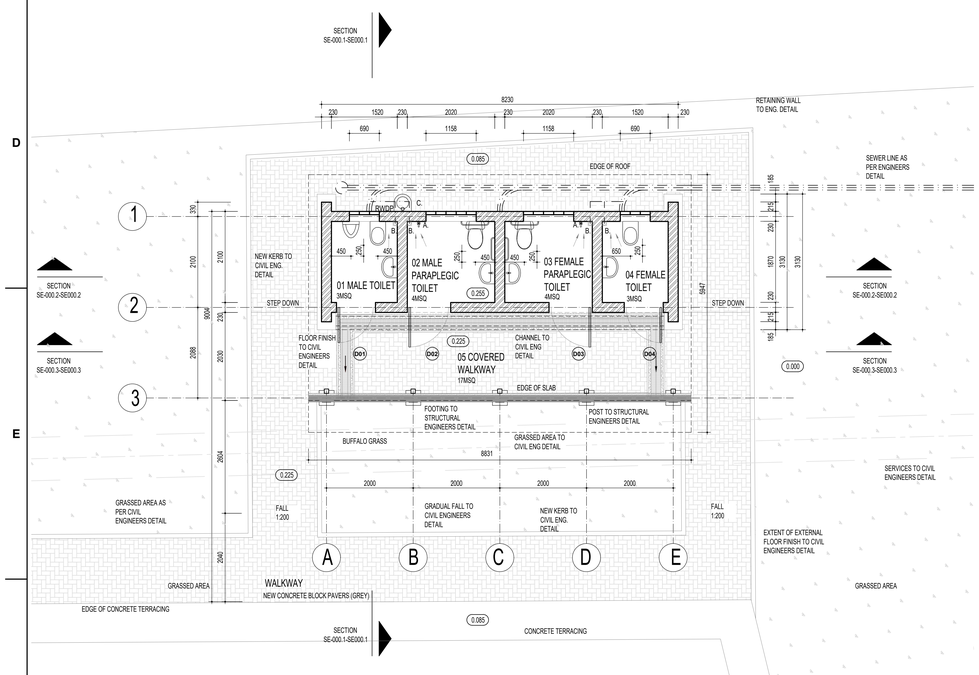
SOUTH EAST ELEVATION
SCALE 1 : 50



SOUTH WEST ELEVATION
SCALE 1 : 50



SECTIONAL ELEVATION SE-000.3-SE000.3
SCALE 1 : 50



FLOOR LAYOUT PLAN
SCALE 1 : 50

MISCELLANEOUS ITEMS SCHEDULE:

	DESCRIPTION	QUANTITY
A.	HEAVY PATTERN LOW RESISTANCE WALL-MOUNTED HOSE BIB TAP (NOMINAL DIMENSIONS 60MM HEIGHT X 130MM WIDTH X 190MM OVERALL PROJECTION/LENGTH) MANUFACTURED FROM HIGH-GRADE DEZINCIFICATION-RESISTANT (DZR) BRASS COMPLYING WITH SANS 226 AND SANS 1052 STANDARDS. THE TAP SHALL FEATURE A LOCSE KEY OPERATING MECHANISM, AN INTEGRATED ANTI-THEFT TAMPER-PROOF LOCKING CAP/MECH WITH PADDOCK SHACKLE EYE OR MATCHING SECURE KEY ASSEMBLY CARRYING A MINIMUM 10-YEAR MANUFACTURER WARRANTY, A 3/4" BSP HOSE UNION OUTLET, A BRASS WINGNUT AND LINING FOR A 1/2" (15MM) HOSE PIPE, AND A 1/2" (15MM) MALE BSP THREADED INLET CONNECTION END. ALL INTERNAL SEALS SHALL BE HIGH-GRADE EPDM/NITRILE WITH A REPLACEABLE BRASS HEADPART ASSEMBLY. THE UNIT SHALL BE INSTALLED TRUE, PLUMB, AND TESTED FOR LEAKS IN STRICT ACCORDANCE WITH SANS 10252-1 AND THE MANUFACTURER'S WRITTEN INSTRUCTIONS BY A REGISTERED PLUMBER AND APPROVED CONTRACTOR.	2
B.	FLOOR DRAIN. TO CIVIL ENG. DETAIL.	4
C.	CONCRETE GULLEY. TO CIVIL ENG. DETAIL.	1

AREA SCHEDULE in m²	
01 MALE TOILET	3
02 MALE PARAPLEGIC TOILET	4
03 FEMALE PARAPLEGIC TOILET	4
04 FEMALE TOILET	3
05 COVERED WALKWAY	17
TOTAL	31

CONSTRUCTION NOTES

ROOF SHEETING:
ROOF PITCH 5° 0.8MM MILL FINISH ALUMINIUM (GRADE 5754 MARINE-GRADE ALLOY) KLIP-LOK 700 CONCEALED FIX PROFILE WITH A NATURAL UNTREATED MILL FINISH, CAPABLE OF WITHSTANDING A MINIMUM 1.8 KPA UPLIFTMENT LOAD, COMPLIANT WITH SANS 10400-L, AND MANUFACTURED WITH A MINIMUM 15-YEAR STRUCTURAL MATERIAL GUARANTEE AGAINST PERFORATION. ALL SURFACES SHALL BE PREPARED AND DEGREASED STRICTLY IN ACCORDANCE WITH THE SHEET MANUFACTURER'S INSTRUCTIONS AND COATING MANUFACTURER'S TECHNICAL DATA SHEETS TO REMOVE MILL OILS, FOLLOWED BY LIGHT NON-METALLIC MECHANICAL ABRASION TO PROVIDE A UNIFORM KEY. PROFILE SHEETS SHALL BE SITE-PAINTED WITH AN APPROVED PROTECTIVE SYSTEM COATING ACCORDING TO ISO 12944 C5 CORROSIVITY CATEGORY, COMPRISING A TWO-COMPONENT POLYAMINE-CURED HIGH-SOLIDS (80% VOLUME SOLIDS) SURFACE-TOLERANT EPOXY MASTIC PRIMER (100-300 MICRONS DFT) PRE-QUALIFIED TO NORSOK M-501 AND CARRYING A 15-YEAR MANUFACTURER PERFORMANCE GUARANTEE, FOLLOWED BY A TWO-COMPONENT HIGH-SOLIDS (63% VOLUME SOLIDS) ALIPHATIC ACRYLIC POLYURETHANE TOPCOAT ENGINEERED FOR HIGH-CORROSIVITY ATMOSPHERIC EXPOSURES WITH VERY GOOD COLOUR AND GLOSS RETENTION BACKED BY A 10-YEAR MANUFACTURER FINISH GUARANTEE. PRIOR TO FIXING FLASHINGS, ALL TROUGHS AT THE APEX SHALL BE STOP-ENDED TO THE FULL DEPTH OF THE SHEET TO PREVENT WIND-DRIVEN WATER PENETRATION AND TROUGHS SHALL BE LIPPED AT THE EAVES END TO FORM A DRIP. STANDARD BASE GREY FINAL SPECIFIC SHADE TO BE SELECTED PRIOR TO APPLICATION. ALL PROFILE SHEETS, CONCEALED FIXING CLIPS, FASTENERS, AND FIXINGS SHALL BE SUPPLIED, SPECIFIED, AND INSTALLED ENTIRELY AS PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS BY AN APPROVED APPLICATOR AND CONTRACTOR TO QUALIFY FOR A PROJECT-SPECIFIC 10-YEAR BACK-TO-BACK SYSTEM WARRANTY.

ROOF STRUCTURE:
BEAMS, RAFTERS, PURLINS, COLUMNS AND POSTS TO STRUCTURAL ENGINEER'S DETAIL AND SPECIFICATION.

FLASHING:
ROOF FLASHINGS, TRIMS, RIDGE CAPPING, COUNTER FLASHINGS, AND EAVES CLOSURES SHALL BE FORMED FROM 0.8MM MILL FINISH ALUMINIUM (GRADE 5754 MARINE-GRADE ALLOY) TO MATCH THE ROOF PROFILE MATERIAL SPECIFICATION, MANUFACTURED WITH A MINIMUM 15-YEAR STRUCTURAL MATERIAL GUARANTEE AGAINST PERFORATION. FLASHINGS SHALL BE FIXED TO SHEETING USING S10 BRACKETS OR SLIDING BRACKETS AT THE APEX WHERE ROOF SHEETS ARE 30M OR LONGER TO OBVIATE DIRECT FIXING PERFORATIONS AND ACCOMMODATE THERMAL MOVEMENT. TRANSVERSE FLASHING FLANGES SHALL BE NOTCHED TO SHEET PROFILES WHERE NECESSARY. ALL SURFACES SHALL BE DEGREASED AND PREPARED STRICTLY IN ACCORDANCE WITH SHEET AND COATING MANUFACTURER INSTRUCTIONS TO REMOVE MILL OILS, FOLLOWED BY LIGHT NON-METALLIC MECHANICAL ABRASION PRIOR TO PAINTING. FLASHINGS SHALL BE SITE-PAINTED WITH AN APPROVED PROTECTIVE SYSTEM COATING ACCORDING TO ISO 12944 C5, COMPRISING A TWO-COMPONENT POLYAMINE-CURED HIGH-SOLIDS (80% VOLUME SOLIDS) SURFACE-TOLERANT EPOXY MASTIC PRIMER (100-300 MICRONS DFT) PRE-QUALIFIED TO NORSOK M-501 AND A TWO-COMPONENT HIGH-SOLIDS (63% VOLUME SOLIDS) ALIPHATIC ACRYLIC POLYURETHANE TOPCOAT BACKED BY A 10-YEAR MANUFACTURER FINISH GUARANTEE. STANDARD BASE GREY FINAL SPECIFIC SHADE TO BE SELECTED PRIOR TO APPLICATION. ALL FLASHING FIXINGS, SEALANTS, ISOLATION STRIPS, CLOSURE BLOCKS, AND FASTENERS SHALL BE SPECIFIED, SUPPLIED, AND INSTALLED ENTIRELY AS PER MANUFACTURER'S SPECIFICATIONS BY AN APPROVED APPLICATOR AND CONTRACTOR TO QUALIFY FOR A 10-YEAR BACK-TO-BACK SYSTEM WARRANTY.

RAINWATER GOODS
90MM Ø 0.8MM ALUMINIUM GUTTERS AND 75MM X 75MM ALUMINIUM RAINWATER DOWNPIPES (RWDP) FORMED FROM GRADE 5754 MARINE-GRADE ALLOY WITH A NATURAL UNTREATED MILL FINISH TO MATCH THE ROOFING SPECIFICATION. ALL SURFACES SHALL BE PREPARED, DEGREASED, AND SITE-PAINTED WITH AN APPROVED TWO-PACK PROTECTIVE COATING SYSTEM COMPLYING WITH ISO 12944 C5 VERY HIGH-CORROSIVITY CATEGORY (COMPRISING EPOXY MASTIC PRIMER AND ALIPHATIC POLYURETHANE TOPCOAT) MATCHING THE ROOF FINISH PERFORMANCE AND BACKED BY A MINIMUM 10-YEAR MANUFACTURER PERFORMANCE GUARANTEE. STANDARD BASE GREY, FINAL SPECIFIC SHADE TO BE SELECTED PRIOR TO APPLICATION. PROFILE TO BE SELECTED. TO BE INSTALLED ENTIRELY AS PER MANUFACTURER'S INSTRUCTIONS WITH ALL NECESSARY BRACKETS, ISOLATION WASHERS, FIXTURES, AND FITTINGS BY AN APPROVED MANUFACTURER, SUPPLIER, AND CONTRACTOR WITH A 10-YEAR BACK-TO-BACK SYSTEM GUARANTEE.

CEILING:
FIX 1 LAYER OF 6MM FIBRE CEMENT BOARD TO STEEL BRANDERING INSTALLED AT MAXIMUM 300MM CENTRES. FIX FIBRE CEMENT BOARD USING 8 X 32MM WING TEK SCREWS AT MAXIMUM 150MM CENTRES. ALL JOINTS SHALL BE STAGGERED. INSTALL H-STRIPS AND SPOT THE SCREW HEADS USING ACRYLIC SILICONE. BY APPROVED MANUFACTURER AND/OR SUPPLIER.

BREEZE BLOCKS:
222MM(T)MM(H)390MM BREEZE BLOCKS. IN ACCORDANCE WITH SANS 9001:2015, TYPICAL COMPRESSIVE STRENGTH OF >10 MP, 9.1 24 HR WATER ABSORPTION, 2.2 KG MASS, COLOUR TO BE SELECTED. BY APPROVED MANUFACTURER AND/OR SUPPLIER.

SLATS:
ARCHITECTURAL TIMBER-LOOK COMPOSITE BEAMS SHALL CONSIST OF AN EXTRUDED 6063-T5 ALUMINIUM ALLOY CORE (CONSTITUTING APPROXIMATELY 62% MASS) COMBINED WITH A LOW-MAINTENANCE CELLULOSE-POLYMER COMPOSITE CAP COMPRISING HIGH-DENSITY POLYETHYLENE, BAMBOO FIBRES, AND CALCIUM CARBONATE, OFFERING BUILT-IN UV PROTECTION, CORROSION RESISTANCE, AND THE AESTHETIC APPEARANCE OF TIMBER WITHOUT STRUCTURAL UPKEEP. THE PROFILE DIMENSIONS SHALL BE STRICTLY 100.5 MM IN HEIGHT BY 30.5 MM IN WIDTH, WITH A NOMINAL MASS OF 1.3 KG/M, A CROSS-SECTIONAL AREA OF 288.7 MM², AND PRINCIPAL MOMENTS OF INERTIA OF I_X = 259.885 MM⁴/M AND I_Y = 35.682 MM⁴/M. THE BEAMS SHALL BE SUPPLIED IN STANDARD LENGTHS OF 5.8 M. THE SYSTEM SHALL ACHIEVE A CLASS 1 FIRE REACTION RATING WITH AN AVERAGE CRITICAL RADIANT FLUX OF 55.8 KW/M² TESTED TO AS/NZS 3837. INSTALLATION SHALL BE EXECUTED BY AN APPROVED SPECIALIST INSTALLER STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES, UTILIZING MANUFACTURER-SPECIFIED CONCEALED CLIPS, MATCHING END CAPS, AND APPROPRIATE CORROSION-RESISTANT FASTENERS AS REQUIRED FOR HEIGHT APPLICATIONS. A PHYSICAL SAMPLE COMPLETE WITH PRODUCT DATA SHEETS VERIFYING MATERIAL COMPOSITION AND ORIGIN MUST BE SUBMITTED BY AN APPROVED MANUFACTURER OR SUPPLIER FOR APPROVAL PRIOR TO SITE DELIVERY OR INSTALLATION, WITH THE FINAL SURFACE COLOUR SELECTED FROM THE STANDARD MANUFACTURER RANGE.

WALL:
FACEBRICK
FACEBRICK AGATE SATIN FINISH FBX OR SIMILAR & APPROVED, BAG AND BITUMEN PAINT EXTERNAL FACE OF INTERNAL SKIN, PROVIDE GMS BRICKFORCE EVERY 3 COURSES AND ABOVE PC LINTOLS.

ON-SITE SAMPLE PANEL:
CONSTRUCT A 1000 MM X 1000 MM FACEBRICK SAMPLE PANEL (MOCK-UP) ON SITE INCORPORATING THE APPROVED FACEBRICK, SPECIFIED MORTAR MIX, JOINTING, AND POINTING PROFILE FOR ARCHITECTURAL INSPECTION AND WRITTEN APPROVAL PRIOR TO THE COMMENCEMENT OF FULL-SCALE BRICKWORK.

PLASTER & PAINT
PREPARE, PRIME AND PAINT WITH 1 UNDERCOAT AND MIN 2 FINISHING COATS 100% HIGHLY DURABLE ACRYLIC EMULSION PAINT (PROFESSIONAL SUPERIOR LOW SHEEN, PEM 1000), PAINTED TO MANUFACTURERS INSTRUCTIONS. DEEP COLOUR TO BE SELECTED.

STONE CLADDING:
CLOUD GREY NATURAL STONE CLADDING 180 X 350MM. INSTALLED AS PER MANUFACTURERS SPECIFICATIONS WITH, BONDING AGENT – BONDING LIQUID + BASECOAT (KIT), ADHESIVE – CLADDING ADHESIVE, CLADDING TILES, GROUT – WATER REPELLENT GROUT & JOINTS POLYURETHANE SEALANT AND BACKING CORD . PREPARE & LAY TILES ACCORDING TO MANUFACTURERS INSTRUCTIONS, TO A MAXIMUM HEIGHT OF 2100MM. TILE AND GROUT COLOUR TO BE SELECTED. SAMPLES TO BE PROVIDED PRIOR TO CONSTRUCTION. BY APPROVED MANUFACTURER AND/OR SUPPLIER.

ON-SITE SAMPLE PANEL:
CONSTRUCT A 1000 MM X 1000 MM NATURAL STONE CLADDING SAMPLE PANEL (MOCK-UP) ON SITE USING THE APPROVED CLOUD GREY 180 MM X 350 MM TILES, COMPLETE WITH THE SPECIFIED BONDING AGENT, ADHESIVE SYSTEM, WATER-REPELLENT GROUT, AND POLYURETHANE JOINTING, FOR APPROVAL PRIOR TO FULL-SCALE INSTALLATION/CONSTRUCTION.

RETAINING WALL:
TO STRUCTURAL ENGINEERS DETAIL.

DOOR:
REFER TO DOOR SCHEDULE DE-0003-0A.

SURFACE BED:
REINFORCED CONCRETE, TO STRUCTURAL ENGINEERS DETAIL, ON 250MICRON DPM ON WELL RAMMED ANT POISONED EARTH.

ISOLATION JOINT:
TO STRUCTURAL ENGINEERS DETAIL.

DPC
A 375 MICRON POLYOLEFIN OR SIMILAR APPROVED MATERIAL, TO BE INSTALLED AT THE BASE OF ALL WALLS, AT SLAB LEVEL, AND UNDER WINDOW SILLS (ONE COURSE BELOW WINDOW OPENINGS), SHOULD EXTEND 10MM OUTSIDE THE PLASTER AND BE JOINED ONTO THE BRICKS. DPC TO ADHERE TO SANS STANDARDS AND TO BE INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTIONS.

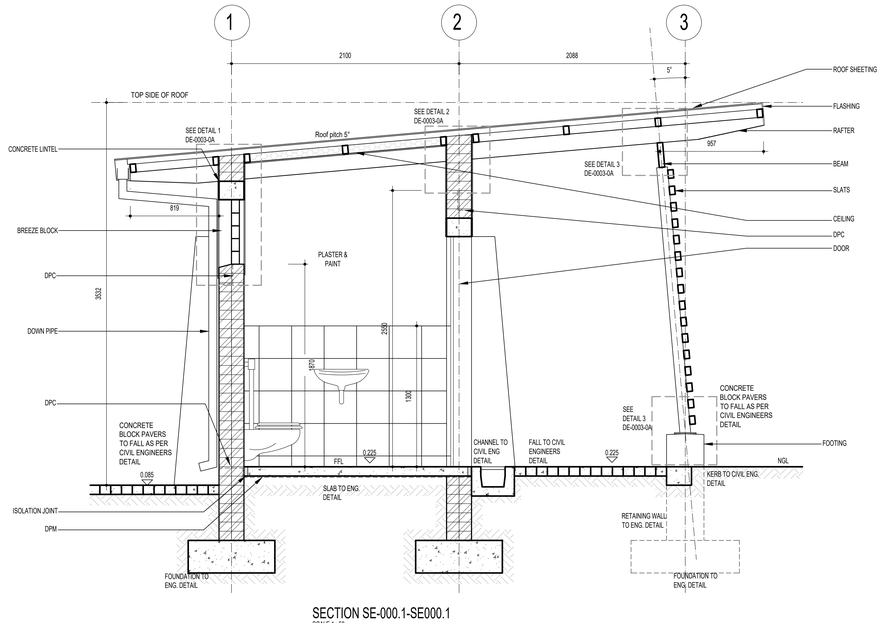
DPM
250 MICRON POLYOLEFIN OR SIMILAR APPROVED MATERIAL, TO BE PLACED UNDER ALL SURFACE BEDS, TO ADHERE TO SANS STANDARDS, BE PROPERLY SEALED TO PREVENT MOISTURE PENETRATION AND TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

FOOTING:
OFF SHUTTER CONCRETE FOOTING TO STRUCTURAL ENGINEERS DETAIL.

FOUNDATION:
TO STRUCTURAL ENGINEERS DETAIL.

GRASS:
SUPPLY AND LAY INDIGENOUS COASTAL BUFFALO GRASS (STENOTAPHRUM SECUNDATUM) AS HEALTHY, WEED-FREE SODS SOURCED FROM AN APPROVED LOCAL KWAZULU-NATAL NURSERY TO ENSURE SALINE AND HIGH-WIND ACCLIMATION FOR THE PORT OF DURBAN QUAY ENVIRONMENT. SUBBASE TO BE SCARIFIED TO A DEPTH OF 150 MM AND PREPARED WITH A 75 MM LAYER OF TOPSOIL AND ORGANIC COMPOST BLEND (50:50) MIXED WITH PRE-PLANTING FERTILIZER AT 50 G/M², LEVELED, AND PRE-SOAKED. SODS SHALL BE LAID TIGHT-JOINTED IN A STAGGERED BRICK-BOND PATTERN, TAMPED INTO FULL ROOT CONTACT, AND SECURED ALONG PERIMETER/QUAY BOUNDARIES WITH BIODEGRADABLE PEGS AGAINST WIND UPLIFT. SOIL PREPARATION AND WATERING SHALL STRICTLY ADHERE TO THE SUPPLIER'S DETAILED INSTRUCTIONS: APPLY A THICK LAYER OF MULCH AND COMPOST PRIOR TO PLANTING, WATER TWICE DAILY FOR THE INITIAL THREE (3) DAYS POST-PLANTING, AND SUBSEQUENTLY ONCE PER WEEK INDEFINITELY (ADJUSTING DURING PERIODS OF SUFFICIENT RAINFALL). A 1000 MM X 1000 MM SAMPLE PANEL ON SITE AND A NURSERY CERTIFICATE OF ORIGIN VERIFYING THE BOTANICAL SPECIES MUST BE SUBMITTED FOR WRITTEN ARCHITECTURAL APPROVAL PRIOR TO BULK INSTALLATION.

SAMPLES
SAMPLES & TECHNICAL DATA SHEETS TO BE PROVIDED FOR THE FOLLOWING FOR APPROVAL PRIOR TO ORDER & INSTALLATION:
ROOF SHEETING, BREEZE BLOCKS, FACEBRICK, STONE CLADDING, SIGNAGE, BUFFALO GRASS.



SECTION SE-000.1-SE000.1
SCALE 1 : 50

NOTES

1. **DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.**
2. **THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.**
3. **ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.**
4. **ALL ARCHITECTS DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT ENGINEERS DRAWINGS.**

TNPA APPROVAL

NAME	DATE
SIGNATURE	
TITLE	

REFERENCE DRAWINGS

DRAWING NO.	REFERENCE
XDN.E.0048-1-100-A-DE-0003-01-0A	SCHEDULES & DETAILS

FOR REVIEW

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
0A	ISSUED FOR TENDER				

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CONTRACTOR / CONSULTANT

TITLE	NAME	SIGN	DATE
DRAWN			
CHECKED			
DESIGNED			
CHECKED			

PR.ENG. / PR.TECH./PR. ARCH

NAME	DATE
SIGNATURE	
REG. NUMBER	
TITLE	

TRANSNET NATIONAL PORTS AUTHORITY

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CHECKED	AN		
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PR.ENG. / PR.TECH./PR. ARCH

NAME	PULENG JALI	DATE
SIGNATURE		
REG. NUMBER	PAT26658986	
SCALE		

TRANSNET

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PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF DURBAN

UPGRADE OF THE NORTH GROYNE PROMENADE IN THE PORT OF DURBAN, ABLUTION BLOCK
PLANS, SECTIONS, ELEVATIONS
4743Z STREET, POINT, DURBAN
SUB 13 OF LOT 10031

PAPER SIZE	TRANSNET DRV. NO.	REV.
A0	XDN.E.0048-100-A-LA-0002-01	0A
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