# LANDSCAPE CONSTRUCTION DETAILS

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(Attachment 1)

(Attachment 2)

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(Attachment 24)
30mm DEPTH METAL DUST

UNIT PAVING AS SPECIFIED

REFER DETAIL A

IF SUBSOIL IS DISTURBED THEN ALL ORGANIC SUBSOIL SHOULD BE REMOVED AND BACK FILLED WITH DESIGNATED MATERIAL SUCH AS ROAD BASE OR RIVERSAND AND COMPACTED EVERY 150mm. ANY SUBSEQUENT SETTLEMENT WILL BE THE CONTRACTORS RESPONSIBILITY FOR RECTIFICATION FOR THE DEFECT LIABILITY PERIOD.

NEW BRICK PAVING
SCALE 1:10

NOTE: THIS DETAIL TO BE USED ON ALL PATHS THAT CARRY VEHICLE TRAFFIC AND PEDESTRIAN TRAFFIC.

NOTE: NO SAND IS TO BE USED AS A SUB BASE TO PAVING DUE TO PREVIOUS ANT PROBLEMS

NOTE: IF PAVING IS TO BE REPAIRED & OR REINSTATED, SUB BASE MATERIALS SHALL BE AS PER THIS DETAIL

EXISTING SUBGRADE COMPACTED TO 98% MMD

NOTE: NO SAND IS TO BE USED AS A SUB BASE TO PAVING DUE TO PREVIOUS ANT PROBLEMS

DETAIL A
SCALE 1:5

NOTE: THIS DETAIL TO BE USED ON ALL PATHS THAT CARRY VEHICLE TRAFFIC AND PEDESTRIAN TRAFFIC.

NOTE: NO SAND IS TO BE USED AS A SUB BASE TO PAVING DUE TO PREVIOUS ANT PROBLEMS
TYPICAL PATH PLAN

NOTE: BRICK ON FLAT HEADER COURSE APPLIES TO ALL MARGINS OF PAVED AREAS
TYPICAL BRICK SURROUND TO STROMWATER PIT

NOTE: WHERE PIT OCCURS IN GRASS
INSTALL BRICK HEADER COURSE SURROUND
STEEL FRAME PIT COVER TO ENGINEERS SPECIFICATION SUITABLE FOR THE ANTICIPATED SURFACE TRAFFIC. PIT COVER TO INCLUDE BRASS EXTENSION STRIPS.

PAVING PATTERN TO CONTINUE ACROSS PIT LID. PAVING SAW CUT TO FIT.
NOTES:
- ROOT DEFLECTION BARRIER TYPE: RSNI 1000-30
- ARBOUR VENT TYPE: RRARBV2
- TREE GUARD TYPE: ALUPLATE TREE GRILL (GLALUPLATE)
- FINISH: CLEAR ANODISED.
1. Remove all existing grass & vegetation by approved horticultural methods to a depth of 100mm.

2. Cultivate existing subgrade to 300mm depth. Incorporate additive.

3. Install 150mm of planting mix as specified. Thoroughly rotary hoe into broken up subgrade.

4. Excavate planting hole not less than 100mm wider than plant container.

5. Stake and tie as specified. Drive into ground on windward side. Max. height 900mm clear of bed min. 600mm into ground 50mm hessian tie in Fig. 8 stapled to stake.

Plant as per schedule.

Mulch as specified 75mm depth.

Reduce depth of mulch at base of plant.

Form watering dish to each plant.

Adjoining surface refer to plans for details.

Date: July 2019

Scale: 1:10

Drg. No. LCD-06

Sheet A4

Title: LANDSCAPE CONSTRUCTION DETAILS

Mass Planting - Natural Ground
ADJOINING SURFACE REFER TO PLANS FOR DETAILS

MULCH AS SPECIFIED 75mm DEPTH

REDUCE DEPTH OF MULCH AT BASE OF PLANT

FORM WATERING DISH TO EACH PLANT

PLANT AS PER SCHEDULE

6. STAKE AND TIE AS SPECIFIED. DRIVE INTO GROUND ON WINDWARD SIDE. MAX. HEIGHT 900mm CLEAR OF BED MIN. 600mm INTO GROUND 50mm HESSION TIE STAPLED TO STAKE

5. EXCAVATE PLANTING HOLE NOT LESS THAN 100mm WIDER THAN PLANT CONTAINER

4. INSTALL 300mm OF PLANTING MIX AS SPECIFIED THOROUGHLY ROTARY HOE INTO BROKEN UP SUBGRADE

3. CULTIVATE SUBGRADE TO 150mm DEPTH AND INCORPORATE ADDITIVES AS SPECIFIED

2. EXCAVATE PLANTING BED TO 300 DEPTH

1. REMOVE ALL BUILDERS SPOIL & RUBBISH FROM AREA TO BE PLANTED

Date: July 2019

Scale: 1:10
BENEDICT 'SMARTMIX' NO.5
LIGHTWEIGHT PLANTER BOX SUB-SOIL

BENEDICT 'SMARTMIX' NO.4
LIGHTWEIGHT PLANTER BOX MIX

75mm GRAVEL MULCH AS
SPECIFIED

GEOFABRIC WRAPS AROUND
DRAINAGE CELL BIDIM
Filtration Geotextile

ATLANTIS DRAINAGE CELL
H(30)xW(405)xL(607)

COREFLUT INSTALLED
BETWEEN WATERPROOFING
AND DRAINAGE CELL

WATERPROOFING MEMBRANE
TO ARCHITECTS DETAILS

50x50mm HAUNCH PRIOR TO
APPLYING WATERPROOF MEMBRANE

100mm DEPTH WASHED
MEDIUM GLASS SAND

25mm CLEARANCE FROM TOP
OF PLANTER

50x50mm HAUNCH PRIOR TO
APPLYING WATERPROOF MEMBRANE
NOTES

- TURF TO BE WEED-FREE, CONSISTENT HEALTHY GREEN IN COLOUR
- DISEASE FREE; MOIST, NOT DRY WHEN DELIVERED
- TO BE LAID WITH STAGGERED BUTT JOINTS
- TO BE LAID ACROSS SLOPES TO MAXIMISE CONTROL OF EROSION.
ATLANTIS GEOTEXTILE BETWEEN SAND AND CELL

50mm DEPTH WASHED RIVER SAND

ATLANTIS DRAINAGE CELL H(30)xW(405)xL(607)

TURF AS SPECIFIED

RAISED PLANTER MIX AS SPECIFIED. MAX DEPTH 150mm REMAINDER TO BE 50% CLEAN COURSE SAND 50% PLANTING MIX

WATERPROOF MEMBRANE AND PROTECTIVE MEMBRANE AS SPECIFIED

50x50 MORTAR HAUNCH PRIOR TO APPLYING WATERPROOF membranes

TURF OVER CONCRETE SLAB

TURF AS SPECIFIED

CULTIVATE SUBGRADE TO 150mm DEPTH

200mm HIGH GRADE USGA SAND BLEND OR SIMILAR WITH 2% BY WEIGHT FOWL MANURE

GEOFABRIC BIDIM A14

SUBSOIL DRAINAGE - 5m SPACING, 300X200mm TRENCH TOPPED UP WITH 7mm GRAVEL REFER TO ENGINEERS DETAIL

TURF FOR SPORTING FIELD
CULTIVATE EDGE OF HOLE 150mm

BENEDICT SMART MIX No.6
NATIVE GARDEN SOIL MIX

CONSTRUCT WATERING DISH
ENSURING THAT ROOTBALL IS DIRECTLY INSIDE DISH
DO NOT CULTIVATE BASE

100mm MULCH REFER TO SPECIFICATIONS

1000
300
500
150

300 RIPPED SUBGRADE WITH GYPSUM INCORPORATED

400 LITRE TREE PLANTING IN GRASS

LANDSCAPE CONSTRUCTION DETAILS
Advanced Tree in Grass
July 2019
Sheet 1:20
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Attachment 11
TREES TO BE RETAINED AS IDENTIFIED ON LANDSCAPE PLANS

TREE PROTECTION ZONE DETERMINED BY ARBORIST

TREE PROTECTION FENCING. TEMPORARY FENCE HIRE PANELS CONSISTING OF GALV STEEL CHAINWIRE MESH PANELS COVERED WITH SHADECLOTH 33mm DIA GALV. STEEL PIPE FENCE POSTS AND SUPPORTS INSTALLED WITH PLASTIC ENCASED CONCRETE BASES PLACED ON EXISTING GRADE

TREE PROTECTION SIGNAGE AS PER AS1319. SEE DETAIL BELOW

75mm DEPTH ORGANIC MULCH WITHIN TPZ

TREE PROTECTION FENCE SIGNAGE

TEXT - ARIAL BLACK FONT 30mm HIGH COLOUR WHITE
10mm WEATHERPROOF CORE SHEETING PAINTED BLACK
DO NOT ENTER GRAPHIC COLOUR RED
10mm WEATHERPROOF CORE SHEETING COLOUR: WHITE
**LANDSCAPE CONSTRUCTION DETAILS**

**Timber Screen Fence**

**Dates:**
- 1:20 July 2019
- A4

**FINISHING SCHEDULE**

**ITEM:**
- TIMBER FINISH OIL

**TYPE:**
- CABOTS: NATURAL DECKING OIL
- COLOUR: NATURAL, NATURALLY PIGMENTED, OIL ENRICHED
- CODE: 83982170

**NOTE:**
THREE(3) COATS OF OIL IS REQUIRED TO ALL TIMBER PRIOR TO INSTALLATION. COAT ALL TIMBERS PRIOR TO CONSTRUCTION ALLOPING 7 DAYS BETWEEN COATINGS. APPLY A COATING OF 'CABOTS ULTRA DECK' AT 50 WEEKS DURING THE 52 WEEK MAINTENANCE PERIOD.

**APPLICATION:**
APPLY ALL DECKING OIL TO MEET MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

**CONSTRUCTION DETAILS:**
- BASEPLATE
- PROPOSED GROUNDLINE
- 100 x 50 x 10mm LINEAR ANGLE
- 100 x 10mm PLATE WELDED TO POST VERTICALLY
- 125 x 10mm COACHBOLT
- 90 x 90 x 2mm SHS POST TO BE FINISHED IN A BLACK POWDERCOAT
- 700 x 400mm CONCRETE FOOTING TO BE INSTALLED WITHIN COMPACTED GROUND
- 75 x 50mm SEASONED DAR AND ARRIVED HARDWOOD PALING
- 90 x 90 x 2mm SHS POST TO BE FINISHED IN A BLACK POWDERCOAT

**NOTE:**
IF EXTRA PRIVACY IS REQUIRED, FENCE MAY BE BACKED WITH SHADE CLOTH OR WATERPROOF PLYWOOD PAINTED BLACK.
NOTE: ALL TIMBER TO BE DURABILITY CLASS No. 1 ACQ H4 TREATED PINE

SECTION THROUGH JOINT
SCALE 1:5
NOTE: ALL TIMBER TO BE DURABILITY CLASS No. 1 ACQ H4 TREATED PINE

PLAN OF CURVILINEAR TIMBER EDGING
SCALE 1:10

FIXING PEG
HOLDING PEG

AT JOINTS FIRST SCREW CORROSION RESISTANT TECH-SCREW INTO FIXING PEG THEN SCREW TOP OF HOLDING PEG INTO EDGE STRIP

CUT EDGE BOARD TO FIT NEATLY AGAINST SURROUNDING EDGES FINISH FLUSH WITH PAVED SURFACES

TURF AS SPECIFIED

50x100 ACQ TREATED PINE EDGE STRIP WITH 12mm DEEP SAW CUTS AT EVEN SPACING SUFFICIENT TO ACHIEVE RIGID CURVES

TO MAKE GOOD ADJOINING LANDSCAPE FINISHES

50x100 ACQ TREATED PINE EDGE STRIP

MASS PLANTING BED

POSITION JOINTS WHERE CHANGE OF DIRECTION OCCURS OR WHERE CURVATURE IS NOT EXCESSIVE. PROVIDE TWO PEGS AT EACH POINT

BACKFILL AGAINST EDGE BOARD

FIT BOARD TO PEGS WITH LONG CORROSION RESISTANT TECH-SCREWS ENSURING SCREW HEAD LIES FLUSH WITH TIMBER

cut edge board to fit neatly against surrounding edges
finish flush with paved surfaces

NOTE: ALL TIMBER TO BE DURABILITY CLASS No. 1 ACQ H4 TREATED PINE

NEAT FITTING BUTT JOINT PLANTING

50x50x400mm AT 1500 CTS. FIX EDGE TO PEG WITH 2 No. 50 GALV. FLAT HEAD NAILS

TYPICAL PLAN OF STRAIGHT EDGE
SCALE 1:10

ACQ TREATED PINE PEG

RIGID CURVES

50x50x100mm

PLANTING

Eb 011
16mmØ GALVANIZED STEEL ROD WELDED TO PLATE AT 1000mm CENTRES

CONTINUOUS WELD, PASSIVATE AND APPLY PROTECTIVE COATING

100 X 4MM FLAT STEEL PLATE, GALVANISED

100 X 4MM FLAT STEEL PLATE, HOT DIPPED GALVANIZED SET VERTICAL

ADJOINING SURFACE. REFER TO PLANS

12mmØ GALVANISED STEEL ROD AT 1000mm CENTRES

TURF - REFER TO PLAN FOR DETAILS

CONTINUOUS WELD, PASSIVATE AND APPLY PROTECTIVE COATING

16mmØ GALVANIZED STEEL ROD WELDED TO PLATE AT 1000mm CENTRES

NOTES:
1. PLATE JOINTS TO BE CONTINUOUS WELD, PASSIVATE JOINT AND APPLY PROTECTIVE COATING
2. WHERE CURVES ARE SHOWN ON PLANS ENSURE THEY ARE CONTINUOUS AND EVEN WITH NO FLAT SPOTS

PLAN

SECTION
FORMED CONCRETE EDGE
20mPA STEEL TROWEL FINISH,
10mm JOINTEX AT 3000mm CENTRES 2Y12 BARS CENTRE

MASS PLANTING BED

TURF AS SPECIFIED

10 mm ROUND

COMPACTED FINE CRUSHED ROCK

COMPACTED SUBGRADE

50
125
200
125
PRECAST CONCRETE STAIRS.
REINFORCEMENT TO ALL TREADS,
3N12 TOP AND BOTTOM. R6-100 TIES.
PRECAST CONCRETE STAIR SUPPLIER:
OBNOVA GROUP - PH. 4271 8022

TACTILE GROUND SURFACE INDICATORS AT TOP
AND BOTTOM OF STAIRS TO AS/NZS 1428.4.1 2009
'DESIGN FOR ACCESS AND MOBILITY.' COLOUR
AND POSITIONING TO BE CONFIRMED BY FMD
PRIOR TO INSTALLATION

'LANKO 603
POLYURETHANE'
COLOUR: GREY

STAINLESS STEEL COUNTER SUNK SET
SCREWS TO PLUG LIFTING HOLES.
SUPPLIER: ILLAWARRA FASTENERS

CAST IN: ASBRALOY 765 SK A FULL LENGTH
IS TO BE INSTALLED INTO EACH STAIR
SECTION ALUMINIUM WITH BLACK INFILL.

BRICK FINISHES FLUSH WITH
TACTILE INDICATORS

CONTINUOUS CONCRETE STRIP
FOOTING REINFORCED WITH
RF.82 MESH TOP & BOTTOM.

CORE FIX STANCH
INTO FULL DEPTH OF
CONCRETE FOOTING

BRICK WALL SUPPORTS PRECAST
CONCRETE STAIRS REFER TO
PLAN ABOVE FOR LOCATION

25 BEDDING GROUT
STAINLESS STEEL SPECIFICATION NOTES:

- GRADE OF STAINLESS STEEL TO BE 316 MARINE GRADE
- STAINLESS STEEL TO BE A MINIMUM 600 GRIT FINISH
- STAINLESS STEEL TO BE ELECTROPOLISHED
- WELD THICKNESS OF STAINLESS STEEL TO BE 3mm

50mm DIA STAINLESS STEEL HANDRAIL

10mm STAINLESS STEEL HANDRAIL BRACKET. FULLY WELD TO HANDRAIL AND STANCHIONS.

50mm DIA STAINLESS STEEL STANCHIONS.

CORE FIX STANCHION INTO FULL DEPTH OF PRECAST CONCRETE STEP AND EPOXY.

50mm DIA STAINLESS STEEL HANDRAIL

10mm STAINLESS STEEL HANDRAIL BRACKET. FULLY WELD TO HANDRAIL AND STANCHIONS.

50mm DIA STAINLESS STEEL STANCHIONS.

SIDE ELEVATION

SECTION
BRICK SEATWALL LAID WITH 10mm RODDED MORTAR JOINT AND DOUBLE BULLNOSE HEADER CAPPING. EXPOSED BRICKWORK TO BE ‘GUERNSEY TAN’ EX BOWRAL BRICKWORKS CONTROL JOINTS AT 6000 CTS.

REINFORCED CONCRETE FOOTING WITH 3N12 TOP & BTM, OR F8 TRENCH MESH TOP & BTM RANDOM LAP REINFORCEMENT 600 RG TIES AT 500 CTS.
DOUBLE BULLNOSE HEADER COURSE. BRICKS FORMING MITRED CORNER SHALL BE SAW CUT.

PLAN-TYPICAL CORNER

TYPICAL SECTION

MASS PLANTING BED MAXIMUM GRADE 1:3

PROTECTIVE WATERPROOF MEMBRANE

300 FLAT 230

DAMP PROOF COURSE

WATERPROOF MEMBRANE

UNIT PAVING FALL

REINFORCED CONCRETE FOOTING WITH 3N12 TOP & BTM, OR F8 TRENCH MESH TOP & BTM RANDOM LAP REINFORCEMENT 600 RG TIES AT 500 CTS.

100mm DIA. SUB-SOIL LINE DRAINAGE LINE, DRAINAGE AGGREGATE & FILTER CLOTH

MORTAR FILLET
TYPICAL SECTION

NOTES:
- ALL TIMBER SHALL BE DURABILITY CLASS ONE RATED FOR USE IN GROUND
- WALL HEIGHT UP TO 2000mm POST SPACING: 1200mm
- RETAINING WALLS GREATER THAN 600mm IN HEIGHT REQUIRE CERTIFICATION BY AN ENGINEER
FINISHED SURFACE LEVEL. REFER TO PLANS FOR DETAIL

350Ø BORED CONCRETE FOOTING

TIMBER SCHEDULE:
BOARD - 150x50 HARDWOOD DAR.
BEAM - 150x75 HARDWOOD
POST - 200x75 TREATED HARDWOOD

TYPICAL PLAN

DECKING SCREWS

3 x FIXING NUTS & BOLTS EACH BEAM

TYPICAL SECTION

10/20mm CLEAN BLUE METAL AGGREGATE

TYPICAL PLAN

DECKING SCREWS

3 x FIXING NUTS & BOLTS EACH BEAM

TYPICAL SECTION

10/20mm CLEAN BLUE METAL AGGREGATE
FINISHING SCHEDULE

ITEM
TIMBER FINISH OIL

TYPE
CABOT'S: NATURAL DECKING OIL COLOUR: NATURAL, NATURALLY PIGMENTED, OIL ENRICHED CODE: 83882170

THREE (3) COATS OF OIL IS REQUIRED TO ALL TIMBER
PRIOR TO INSTALLATION. COAT ALL TIMBERS PRIOR TO
CONSTRUCTION ALLOWING 7 DAYS BETWEEN
COATINGS. APPLY A FURTHER COATING AT 26 WEEKS
AND APPLY A COATING OF 'CABOTS ULTRA DECK' AT 50
WEEKS DURING THE 52 WEEK MAINTENANCE PERIOD.
APPLY ALL DECKING OIL TO MEET MANUFACTURERS
SPECIFICATIONS AND RECOMMENDATIONS.