DEPARTMENT OF PUBLIC WORKS

BUILDING SPECIFICATIONS

IN

REGIONAL OFFICES

PRETORIA
FIRST EDITION DECEMBER 1984 FIRST REVISION
JUNE 1991 SECOND REVISION JANUARY 1994

INDEX

1002

SPECIFICATION

FOR

GENERAL REPAIRS AND RENOVATIONS

ADDITIONS AND ALTERATIONS

DEMOLITIONS

TO

AT

1003

LUMP SUM TENDER:

This tender is for a lump sum contract for all work specified and can only be changed by variation order to make payments for additional work not originally specified.

The contractor must note that any additional work done without a written site instruction and variation order will under no circumstances be paid for.

1004

SPECIFICATION:

This specification comprises of three sections:-

Section A: Repairs and renovations

Section B: Minor New Works

Section C: Electrical Work

1005

SPECIFICATION:

This specification comprises of four sections:-

Section A: Demolitions

Section B: Repairs and renovations

Section C**:** Minor New Works

Section D: Electrical Work

1006

LUMP SUM TENDER FOR DEMOLITION:

The work contained in this specification is to be priced for as a lump sum tender for demolition work and shown as such in the summary.

1007

PREMISES IN OCCUPATION:

The existing premises will be in occupation during the contract period. See also clause 3.4 on page 4 of this specification.
1008

PREMISES NOT IN OCCUPATION:

The existing premises will not be in occupation during the building contract. See also clause 3.4 on page 3 of this specification.

1009

CONTRACT PERIOD:

The contract period for the completion and delivery of all the work in this contract is ……commencing from the date of letter of acceptance of the tender and shall include all statutory and building industry holidays.

1009 (a)

CONTRACT PERIOD:

The contract period for the completion and delivery of all the work in this contract is .....….. commencing from the date of letter of acceptance of the tender.

Notwithstanding the provision made in clause 20 (2) of the Conditions of Contract the statutory and building industry holidays are not included, except when the contract period is less than 6 months (26 weeks).

1009 (b**)**

PRICED SPECIFICATION:

A priced specification must be submitted with the tender.

1010

FIXED PRICE CONTRACTS:

No contract price adjustments of whatever nature, except for reductions or increases in the Value-added Tax (VAT), shall be applicable to this contract.

The tenderer shall make provision in his tender price for possible fluctuations in costs.

1011

<u>PROVISIONAL SUMS</u>

1012

FLAGPOLE:

Provide the sum of R……( ) for theprovision of a flagpole.

SOIL DRAIN CONNECTION:

Provide the sum of R……...( ) for a ……..mm diameter soil drain connection from Municipal sewer to boundary of site.

1014

WATER CONNECTION:

Provide the sum of R……..( ) for a ...……..mm diameter water connection from Municipal water main to boundary of site.

1015

VENETIAN BLINDS:

Provide the sum of R……( ) for the provision of Venetian blinds.

1016

FIRE-FIGHTING EQUIPMENT:

Provide the sum of R……( ) for the provision of fire-fighting equipment.

1017

CELL LOCKS AND CASINGS:

Provide the sum of R……..( ) for the provision of cell locks and casings.

1018

QUANTITIES:

Unless otherwise indicated, quantities shall only be provided when same cannot be found or calculated from the drawings.

1019

DIFFERENCES BETWEEN SPECIFICATION AND DRAWINGS:

As described in paragraph 2.3 on page 2 of this specification.

1020

STANDARD CONDITIONS IN RESPECT OF BUILDING SERVICES LUMP SUM CONTRACTS (OW 637)

The document "Standard conditions in respect of building services: Lump sum contracts (OW 637)" is available on request at the Head Office or Regional Offices of the Department, and shall be read in conjunction with the specification.

1021

SPECIFICATION OF MATERIALS AND METHODS TO BE USED (OW 371):

The document "Specification of materials and methods to be used (OW 371) "Fourth Revision October 1993, is available on request at the Head Office or Regional Offices of the Department, and shall be read in conjunction with the specification and shall be referred to for the full descriptions of work to be done and materials to be used.

1022

SCOPE OF WORK:

The work specified in this specification consists of:

NO LIST OF WORK TO BE DONE MUST BE LISTED HERE, ONLY THE HEAD LINES OF THE SERVICE.

1023

WORK TO BE DONE

EARTHWORKS

(a) EXCAVATING

1024

EXCAVATION AND FILLING:

Clear site where the new building/additions are to be erected, dig trenches for foundations to the various lengths, widths and depths as shown on drawing, or to such other depths as may be directed by the Representative/Agent, to secure a sound foundation. Reduce levels around the building/additions as required, fill into foundations and under floors all as described in Section 2 of OW 371.

1025

Allow for the hacking up and removal of concrete paving to the extent required to suit the excavation for foundations and on completion of the foundations the making good with new material all to match the existing.

1026

Allow for the hacking up and removal of existing tarmac surfacing to the extent required to suit the excavations for foundations and on completion of the foundations the making good with new material all to match the existing.

1027

EXCAVATE FOR TUBULAR MILD STEEL POSTS:

Excavate, to a minimum depth of 500mm, 300 X 300mm square holes, spaced as shown, for concreting in of 80mm diameter mild steel posts, as later specified.

1028

(b) FILLING, ETC.

1029

FILLING UNDER SOLID FLOORS AND TO FOUNDATIONS:

Provide approved clean earth filling under solid floors and to foundations. Filling is to be deposited in layers not exceeding 150mm in depth, watered and well rammed to the required levels all as described in clause 2.7 of OW 371.

1030

GARDEN SOIL FILLING:

Provide and deposit in the positions where required, approved garden soil filling, all as described in clause 2.10 of OW 371.

Cubic metres:

1031

SURPLUS EARTH:

All surplus earth and other materials resulting from the excavations are to be deposited on site and levelled or carted away, as described in clause 2.8 of OW 371.

1032

PROTECTION AGAINST TERMITES:

Provide protection against termites by treating the ground, etc., all as described in clause 2.11 of OW 371.

1033

(c) GRAVELLING

1034

GRAVEL DRESSING AROUND BUILDING/S:

Reduce levels or make up ground as required for a distance of 1,82m all round building/s and grade to necessary falls. Water and roll or well ram the areas to receive gravel dressing. Finish the prepared surface with a gravel dressing all as described in clause 2.9 of OW 371.

1035

GRAVEL AREAS SHOWN ON DRAWINGS:

Reduce levels or make up ground, with approved earth filling, and grade to the extent shown on drawings and to the required falls. Water and roll or well ram areas provided with filling. Finish the prepared surface with gravel dressing all as described in clause 2.9 of OW 371.

1036

GRAVEL AREAS (REPAIRS):

Grade the areas specified to falls. Fill into holes and hollows with approved earth filling, well watered and rolled to an even surface. Resurface with new gravel all as described in clause 2.9 of OW 371. Cubic metres:

1037

FILLING TO AREAS ON SITE:

In addition to the quantity of filling to be supplied, allow for the excavation and grading of the areas specified to the necessary falls, fill into all hollows and holes with approved clean earth filling, well watered and rolled to an even surface.

Cubic metres:

1038

CONCRETE, FORMWORK AND REINFORCEMENT:

(a) CONCRETE GENERALLY

1039

APPLICATION OF CLAUSES:

As described in clauses 3.1 to 3 .1 7 of OW 371.

1040

(b) CONCRETE FOUNDATIONS:

1041

REINFORCED CONCRETE FOUNDATIONS:

Lay Class E-concrete footings under all foundations walling of widths and thicknesses shown on drawings and reinforce with steel rods and stirrups. The footings are to be stepped where necessary with 600mm overlap at each stepping, all finished level on top ready for walling above. Concreting and concrete reinforcement to be in accordance with clauses 3.15, 3.32 and 3.33 of OW 371 respectively.

1042

MASS CONCRETE FOUNDATIONS:

Lay Class B-concrete footings under foundation walls of widths and thicknesses shown on drawings. The footings are to be stepped where necessary with 375mm overlap at each stepping all finished level on top ready for the walling above.

1043

CONCRETE BASES TO TUBULAR MILD STEEL COLUMNS:

Form the bases to tubular mild steel columns supporting the roof beams with Class C-concrete to the forms and sizes shown on drawings and carried up above ground level, where applicable, in properly constructed temporary formwork. The columns are to be embedded in the concrete as the work proceeds.

1044

UNDER PIN CONCRETE FOUNDATION:

Excavate along side and under foundations as required, and form holes in positions shown on plan, or as directed, each 900mm long by 600mm wide and taken down to a depth of 600mm below the lowest point of the existing footings. Fill hole with Class B-concrete to approximately 100mm higher than bottom of existing concrete foundation. Thoroughly ram concrete to such an extent that no airpockets will exist between underside of existing foundation and new concrete block after concreting. After the concrete has hardened properly, fill remainder of hole with clean earth filling. Remove superfluous earth from site or spread on site, as directed.

Quantity:

1045

(c) CONCRETE WALLS, BEAMS AND SLABS

1046

REINFORCED CONCRETE WALLS TO STRONG ROOM:

The walls to strong room are to be formed with Class E-concrete, 150mm thick, to the dimensions shown on the drawings, carried up in temporary formwork from top of concrete footings to underside of ceiling slab, reinforced on inside and outside surface with welded fabric as clause 3.33 of OW 371, ref 311. Embed all necessary hoop iron and wire ties in the concrete for tying in the brickwork as the work proceeds. Form openings of the sizes and in the positions shown for strong room door and ventilators.

1047

REINFORCED CONCRETE BEAMS:

Concrete beams, where shown on drawings, are to be formed with Class E-concrete to the forms and thicknesses shown, having not less than 225mm bearings on wall at each end, all cast in formwork and reinforced with steel rods and stirrups as shown.

1048

REINFORCED CONCRETE ROOF SLABS:

Concrete roof slabs where shown on drawings are to be formed with Class E-concrefce to the forms and thicknesses shown all laid on temporary formwork and reinforced with steel rods at spacings shown on reinforced concrete details. Slabs are to have bearings in or on walls; to project over external faces of walls, as and where shown; and the thickness at bearings is to be adjusted as required to suit the height of the brickwork. Concreting and concrete reinforcement are to be as described in clauses 3.15, 3.32 and 3.33 of OW 371 respectively.

1049

REINFORCED CONCRETE ROOF SLAB AND BEAMS:

The roof slab with attached beams is to be formed with Class E-concrete to the forms and thicknesses shown on drawings, laid on temporary formwork and reinforced with steel rods of the diameter, forms and at spacings shown on reinforced concrete details. Slabs, including ends of beams, are to have bearings in or on walls and to be thickened at bearings to suit the height of the brickwork. Beams attached to the slab are to be formed simultaneously with the slab. Concrete and concrete reinforcement are to be as described in clauses 3.15, 3.32 and 3.33 of OW 371 respectively.

1050

REINFORCED CONCRETE SLABS FOR WORKBENCHES AND OVER CUPBOARDS:

Form slabs with Class E-concrete to the forms and thicknesses shown on drawings, all laid on temporary formwork and reinforced with steel rods at spacings shown. Slabs are to have bearings in or on walls; or are to project over face of walls, as and where shown, and the thickness at bearings is to be adjusted as required to suit the brickwork. All exposed surfaces are to be finished off smoothly and evenly with a steel trowel before the concrete has set.

1051

CONCRETE SILLS (IN SITU):

Form sills to the windows shown on drawings, with Class C-concrete, two courses of brickwork deep, 225mm longer than the width of openings and projecting 50mm beyond face of wall with overhang stooled up and grooved as drip on underside, all finished off in 3:1 cement mortar to a smooth and even surface on all exposed surfaces.

1052

CONCRETE LINTELS (CAST IN SITU):

Over door and window openings shown on drawings, form concrete lintels in situ, reinforced with mild steel rods as described in clause 3.18 of OW 371.

1053

CONCRETE BASE TO FLAGSTAFF:

Excavate for and form the base to aluminium flagstaff with Class C-concrete to the form and sizes shown on drawing.

Carry base up above finished ground level, where applicable, in properly constructed formwork and embed the four anchor bolts in the concrete as the work proceeds. All exposed surfaces are to be finished smooth with salient angles slightly rounded.

1054

Allow an amount for the erection of an aluminium flagstaff which will be provided free of charge by the Department of Public Works.

1055

Allow for the removal of the existing flagstaff.

1056

(d) CONCRETE SUNDRIES

1057

CONCRETE FILLING TO CAVITY WALLS:

Fill into cavity of brick walls in foundations up to 175mm below underside of damp course with Class C-concrete, sloping to outside.

1058

BUILDING ON CONCRETE FOOTINGS AND BEAMS:

As described in clause 3.19 of OW 371.

1059

SLIP JOINTS BETWEEN CONCRETE AND BRICKWORK:

Provide slip joints as described in clause 3.20 of OW 371.

1060

FORMING KEY TO CONCRETE FOR PLASTER FINISH:

As described in clause 3.23 of OW 371.

1061

FORMING KEY TO FLAT CONCRETE ROOF SLABS:

Flat concrete roofs to be finished to the required falls with a cement mortar screed and to be wire brushed and slushed with 2:1 cement grout as described in clause 3.23 of OW 371.

1062

CONCRETE SEATS TO CELLS:

Form seats in cells with Class B-concrete, 450mm high x 400mm wide and of lengths shown or specified. Finish off to true and even surfaces in 3:1 cement mortar with exposed salient angles slightly rounded.

1063

(e) CONCRETE SURFACE BEDS:

1064

CONCRETE SURFACE BEDS TO FLOORS:

Lay surface bed to all floors with Class C-concrete, 100mm thick, at the levels shown or required to suit the various floor finishings and carry through or into door openings to form thresholds.

1065

THICKENING OF FLOORS UNDER LOW HALF BRICK WALLS:

Excavate as required and thicken concrete surface beds to 150mm, for a width of 300mm, to form footings under low half brick thick walls.

1066

FLOORS TO SHOWER CUBICLES:

Lay the surface beds in shower cubicles with Class C-concrete, 100mm thick, at the required levels and with falls to outlet in floor. Form a raised kerb across opening to each cubicle, 75mm wide and 75mm above finished surface of floor.

1067

FLOORS TO ABLUTION BLOCKS :

Lay the surface beds in Class C-concrete, 100mm thick, at the required levels and with falls to outlet/s in floor, carried through or into door openings to form thresholds; thickened down under surface channels and stepped down for sinkings at showers. Form a raised kerb 75mm wide and 75mm above finished surface of floor where shown.

1068

Finish floor, including surface channels and kerbing on exposed surfaces with untinted granolithic as clause 14.13 of OW 371, turned 75mm up against walls to form skirting all as described in clause 14.14 of OW 371.
1069

Screed the floors between surface channels in 3:1-cement mortar of not less than 12mm thick, all finished to a smooth and even surface ready- to receive the tile finishings.

1070

In addition, finish surface channels and kerbing with untinted granolithic as clause 14.13 of OW 371, turned 75mm up against walls to form skirting all as described in Clause 14.14 of OW 371 .

1071

In addition, finish the floor between surface channels with approved ceramic floor tiles, bedded to a true and even surface in 3:1 cement mortar, with joints not exceeding 8mm wide and filled in flush with pure cement mortar, and cleaned off smooth.

1072

FLOORS TO TEMPORARY BUILDINGS:

Form temporary surface beds to floors to the forms and sizes shown on drawing with Class B-concrete, 100mm thick, with concrete thickened down at edges to 300mm deep for a width of 200mm and finished with a steel trowel or wooden float, as required, to a true and even surface.

1073

Allow for bolt pockets, size 75 x 75 x 100mm deep, in surface bed in positions shown at 900mm centres.

1074

Provide 220mm x M10 bolts having ends cranked to 90°. Bolts to be set at 900mm centres in pockets in 3:1 cement mortar for securing bottom rails of building.

1075

CONCRETE CABLE DUCT:

Form bottom and sides of cable duct with 76mm thick Class C-concrete, cast in conjunction with surface bed, with top edges rebated for covers.

The bottom of cable duct is to be continued through openings in external walls and ramped down as shown, all tamped and steel trowelled to a smooth and even surface before the concrete has set.

The concrete bottom and sides of cable duct are to be waterproofed with "Whites" waterproofing cement, or other similar and approved, mixed in accordance with the manufacturer's instructions.

1076

CONCRETE BOTTOMS TO CABLE DUCTS:

Lay bottoms to cable ducts in floors with 76mm thick Class C-concrete.

The bottoms are to be continued through openings in external walls and ramped down as shown, all tamped and steel trowelled to a smooth and even surface before the concrete has set.

The concrete bottoms are to be waterproofed with "Whites" waterproofing cement, or other similar and approved, mixed in accordance with the manufacturer's instructions.

1077

VITRIFIED CLAY PIPES FOR CABLES:

Provide and build in, in foundation wall and under building where shown or directed a 100mm diameter vitrified clay pipe for electrical cables, taken up with easy bend to finish flush with floor as described in clause 16.24 of OW 371.

1078

GARAGE FLOORS:

Lay the floors to garages with Class B-concrete, 100mm thick, tamped to an even surface and steel trowelled to a smooth and even surface before the concrete has set.

1079

VEHICLE WASH SLAB:

Provide a new vehicle wash slab in the position shown, formed with Class B-concrete, 150mm thick, to the sizes shown, ramped and graded to outlet and thickened down along the edges to a thickness of 228mm for a width of 150mm. Finish working surface and exposed edges with a wooden float to a smooth and even surface before the concrete has set with 2:1 cement mortar.

Form type B-grease trap under the slab outlet, with Class C-concrete to the sizes shown on drawing D.5.D. and as described in clause 16.33 of OW 371 . Connect to outlet of grease trap with 100mm diameter vitrified clay pipe, laid to the lines shown on drawings and connect to soil water or stormwater drains as shown or directed.

1080

CONCRETE FLOORS AND FINISHINGS (REPLACE COMPLETE):

Hack up existing concrete floors complete, including finishes and skirtings and remove rubble from site.

1081

Provide additional filling if necessary, water as required and ram well all as described in clause 2.7 of OW 371.

1082

Provide and lay under the new concrete floor panels, a damp-proof membrane as described in clause 6.2 of OW 371.

1083

Lay Class B-concrete surface bed, 75mm thick, at levels required to suit the levels of existing floors.

1084

Finish the new floors with a 3:1 cement mortar screed as described in clause 14.18 of OW 371.

1085

Make good in all trades to match existing.

Room/s no. _____

1086

CONCRETE FLOORS AND FINISHING (REPLACE IN PANELS):

Hack up concrete floors in panels, including floor finishings and skirtings, where applicable.

1087

Provide additional filling if necessary, water as required and ram well, all as described in clause 2.7 of OW 371.

1088

Provide and lay under the new concrete floor panels, a damp-proof membrane as described in clause 6.2 of OW 371.

1089

Lay Class C-concrete floor panels, 75mm thick, finished level and flush with the existing.

1090

Finish the new floor panels to a smooth and true surface with a 3:1 cement mortar screed of thickness to suit the existing floor finish.

1091

Provide new materials and finish floors and skirtings to match the existing.

Square metres:

1092

CRACKS IN CONCRETE FLOORS (REPAIRS):

Clean cracks out, wet thoroughly and fill in with semi-dry 3:1 cement mortar well caulked.

Lineal metres:

1093

REPAIR SURFACE BED (WITH FLOOR COVERING):

Remove the existing floor covering, hack up the defective concrete surface bed, provide and place filling in 150mm thick layers and consolidate up to the underside of the concrete floor slab. Provide and lay damp proof membrane below surface bed, to match the existing or similar. Sheeting shall be laid over the damaged sections well lapped and sealed in an approved manner, prior to the casting of new concrete surface bed.

Where the entire surface bed is to be replaced, the preparation shall be as above, except that the whole of the floor area shall be covered with a damp proof membrane as specified in clause 6.2 of OW 371.

Cast a new concrete surface bed in Class C-concrete in thicknesses to match existing surface beds or 75mm thick in cases where entire floor areas are to be cast.

Finish off concrete surface beds with 3:1 cement screed of the thickness required but in no case less than 12mm thick. The screed shall be finished off with a wood float and steel trowel to a true, smooth and even surface, ready for the laying of floor tiles, mosaics or wood blocks, elsewhere specified.

Square metres:

1094

REPAIR SURFACE BED (WITHOUT FLOOR COVERING):

Hack up existing defective concrete surface bed, check filling, fill in and consolidate up to the underside of the concrete floor slab.

Cast a new concrete surface bed in Class C-concrete in thickness to match the existing surface bed or 75mm thick in cases where entire floor areas are to be cast. The new surface bed shall be finished off with a wood float and steel trowel to a true, smooth and even surface, and tinted if required to match existing.

Square metres:

1095

WOODEN FLOORS (REPLACE WITH CONCRETE SURFACE BEDS):

Take up floor boards, joists and bearers and remove from site.

1096

Provide approved earth filling, deposited in layers not exceeding 150mm in depth, watered as required and ram well all as described in clause 2.7 of OW 371.

1097

Provide and lay damp-proof membrane under new surface bed as described in clause 6.2 of OW 371.

1098

Lay Class C-concrete surface beds, 75mm thick, at height to suit the various floor levels and taken through door openings to form thresholds where required.

1099

Finish the new floors with a 3:1 cement mortar screed as described in clause 14.18 of OW 371.

1100

Make good to match existing.

1101

REPLACE CONCRETE FLOORS (WITH TERRAZZO TILE FINISHING):

Hack up existing floor surface beds and skirtings and remove rubble from site.

1102

Provide additional filling as required, water and well ram **as** described in clause 2.7 of OW 371.

1103

Lay surface beds in Class C-concrete, 75mm thick.

1104

Provide and lay terrazzo tiles of approved colour and sample as shown or specified.

Bed and joint the tiles as clause 5.37 of OW 371 as described for quarry tiles.

The floors are to be covered up and protected from damage and contact with mortar during the progress of the works and cleaned off on completion.

1105

Provide approved terrazzo tile skirting at junction with floors, bed, joint and protect from damage as described for floors.

1106

CONCRETE FLOORS (REPLACE GRANOLITHIC FINISH WITH TERRAZZO TILES) :

Hack up existing granolithic finishing, including skirtings, and remove rubble from site. Wet and slush concrete with 2:1 cement mortar.

Bed and joint the tiles as clause 5.37 of OW 371 as described for quarry tiles.

The floors are to be covered up and protected from damage and contact with mortar during the progress of the works and cleaned off on completion.

1107

Finish with terrazzo tiles of approved colour and sample as shown or specified.

1108

Provide approved terrazzo tile skirtings at junction with floor, bed, joint and protect from damage as described for floors.

1109

(f) CONCRETE PAVING, ETC.:

1110

YARD PAVING FOR HEAVY VEHICLES:

Excavate or fill, level and grade as required the areas shown on drawings or specified. Form paving with Class E-concrete, 150mm thick, reinforced with ref. 193 mesh reinforcement as described in clause 3.33 of OW 371 and laid to falls in panels not exceeding 14m^2. Tamp paving to an even surface and finish with a wooden float before the concrete has set, roughen slightly to render paving non skid. The panels are to be laid alternately, chequerboard pattern and separated from other panels by the insertion of 12mm thick soft board to form expansion joints. Once the concrete has hardened the soft board dividing strips are to be completely removed. The joints thus formed are to be filled in with approved bitumen to within 12mm of the finished surface.

The top corners of all panels are to be neatly rounded with a nosing tool while the concrete is still green.

1111

Allow for hacking up of existing paving and removal of rubble from site.

1112

BACK YARD PAVING:

Excavate or fill, level and grade as required, the areas shown on drawings or directed. Form paving with Class C-concrete, 75mm thick, laid to falls in panels not exceeding 14m^2, all tamped to an even surface. Finish off with wooden float before the concrete has set and roughen slightly to form a non skid surface. The panels are to be laid alternately in chequerboard pattern and separated from other panels by the insertion of 12mm thick soft board to form expansion joints. Once the concrete has hardened the softboard dividing strips are to be completely removed. The joints thus formed are to be filled in with approved bitumen to within 12mm of the finished surface.

The top corners of all panels are to be neatly rounded with a nosing tool while the concrete is still green.

1113

Allow for hacking up of existing paving and removal of rubble from site.

1114

REPLACE CONCRETE PAVING:

Hack up loose, cracked or otherwise defective concrete paving in panels and lay new Class C-concrete panels to match exiting.

Square metres:

1115

FILLING IN JOINTS BETWEEN CONCRETE AND BUILDINGS:

Clean out movement joints between buildings and aprons and between aprons and surface water channels and refill with an approved bituminous compound.

Lineal metres:

1116

REPLACE BITUMINOUS COMPOUND IN COMPOUND IN JOINTS OF CONCRETE PAVING:

Clean out movement joints between concrete paving slabs and refill with an approved bituminous compound.

Lineal metres:

1117

CONCRETE PATHWAYS:

Excavate or fill, level and grade the areas shown on drawings or specified. Form pathways with Class C-concrete, 75mm thick, laid with 3% slope to one side with edges thickened down to 150mm for a width of 150mm, laid in panels not exceeding 1,8m long finished with a wooden float before the concrete has set. The panels are to be separated by the insertion of 12mm thick soft board to form expansion joints. Once the concrete has set, the soft board dividing strips are to be completely removed and the joints thus formed are to be filled in with approved bitumen to within 12mm of the finished surface.

The top corners of all panels are to be neatly rounded with a nosing tool while the concrete is still green.

1118

Allow for hacking up of existing paths as shown or mentioned and removal of rubble from site.

1119

CONCRETE APRONS:

Excavate or fill, level and grade the ground as required around the building. Form aprons with Class C-concrete, 75mm thick, with outer edge thickened down to 150mm for a width of 150mm, laid in panels not exceeding 1,8m long and 1m wide and finished off with a wooden float to an even surface before the concrete has set. The panels are to be separated from each other and from adjoining walls by the insertion of 12mm thick soft board, to form expansion joints. Once the concrete has set the soft board dividing strips are to be completely removed and the joints thus formed are to be filled in with approved bitumen to within 12mm of the finished surface.
The top corners of all panels are to be neatly rounded with a nosing tool while the concrete is still green.

1120

DRIVE STRIPS TO GARAGES:

Excavate or fill, level and grade as required the areas shown or specified. Form drive strips, 600mm wide by 100mm thick with Class B-concrete, with all edges thickened down to 150mm for a width of 150mm, laid in panels not exceeding 1,8m long and finished with a wooden float to an even surface before the concrete has set. The panels are to be separated by the insertion of 12mm thick soft board to form expansion joints.

Once the concrete has set, the soft board dividing strips are to be completely removed and joints thus formed are to be filled in with approved bitumen to within 12mm of finished surface.

The top corners of all panels are to be neatly rounded with a nosing tool while the concrete is still green.

1121

Allow for hacking up of existing drive strips as shown or specified.

1122

g. CONCRETE STEPS AND RAMPS

1123

CONCRETE STEPS:

Form steps with Class C-concrete from 150mm below ground level and 300mm wider than door openings or to the lengths shown on drawings, stepped as required to form risers of not more than 175mm high and with treads not less than 300mm wide, finished in granolithic as described in clause 14.13 of OW 371. Treads to

steps are to be needed for width of 100mm near front edge and stopped 100mm from each end.

1124

CONCRETE STEPS (HACK UP AND REMOVE:

Hack up existing steps specified. Remove rubble from site and level site.

1125

CONCRETE RAMPS:

Form ramp at entrances shown on drawings with 100mm thick Class B-concrete, laid on a well rammed sloping earth bottom, thickened down to a thickness of a 180mm round edges for a width of 228mm, tamped and finished off on top and exposed edges with wooden float to a smooth and even surface before the concrete has set.

1126

PIPE UNDER CONCRETE RAMPS OR STEPS:

Provide and lay under ramps or steps at entrances as shown or specified, a 150mm diameter concrete pipe as described in clause 16.17 of OW 371, properly connected to surface water channels as required.

1127

REPLACE PIPE AT MOTOR ENTRANCE GATES:

Remove the damaged pipe and concrete surround at motor entrance gates. Provide a 25mm diameter galvanised mild steel pipe 100mm long and fix pipe in a 200 x 200 x 200mm Class B-concrete block. The pipe shall be positioned to allow drop bolt to be engaged freely.

1128

CONCRETE RAMP (REPLACE):

Hack up existing concrete ramp where shown or specified and remove rubble from site. Form with additional filling as required a well rammed sloping earth bottom, cast new ramp in Class B-concrete 100mm thick, thickened down to a thickness of 180mm for a width of 228mm on all edges, finished off on top and exposed edges with wooden float before the concrete has set to a smooth and even surface.

1129

(h) FORMWORK

1130

FORMWORK

As described in clause 3.29 of OW 371.

1131

(i) REINFORCING

1132

REINFORCING RODS AND CONCRETE REINFORCEMENT:

As described in clauses 3.32 and 3.33 of OW 371. 1133

PRECAST CONCRETE

1134

Mould Units]

Terrazzo Blocks] As described in section 4 of OW 371

1135

CONCRETE SCREEN WALLS IN CELL/S (PRECAST):

Form 50mm thick precast concrete screen walls in cell/s with Class E-concrete to the sizes shown on the drawings, reinforced with expanded metal lathing of 10/30/20/16 mesh embedded in the centre of each slab and with two 12mm dowels, each 300mm long projecting 100mm for building into wall/s and floor/s below. Finish screen walls to true and even surfaces with 3:1-cement mortar and with slightly rounded edges.

1136

CONCRETE TILE PAVING:

Prepare by excavating, filling, levelling the areas shown on drawings or as mentioned. Provide and pave the prepared areas with approved 50mm thick precast concrete tiles, laid on a 50mm thick bed of river sand and jointed in 3:1 cement mortar with a keyed joint.

1137

PRECAST CONCRETE COPING TO WALLS:

Finish the top edge of all yard walls as shown on drawings with precast copings formed with Class E-concrete, cast in proper moulds, to the forms, sizes and in suitable lengths, weathered on top to both sides. Copings to be bedded and jointed in 3:1-cement mortar and pointed with a 12mm wide keyed joint.

1138

REPAIR CONCRETE TILE PAVING:

Take up loose tiles and those which do not line up evenly with the adjoining tiles and relay to a flat and even surface to match existing.

Square metres:

1139

In addition, carefully inspect the whole of the tiled area, rake out defective joints, clean out and fill in with 2:1 cement mortar and finish off to match the existing.

Lineal metres:

1140

Allow for the supply and laying of new tiles as required or to match existing.

Square metres:

1141

CONCRETE KERBING:

Provide and embed in ground where shown or specified kerbing of Class E-concrete, size 228 x 100 x

900mm long or as required to form angles, etc., finished smooth on exposed surfaces with salient angles slightly rounded, jointed in 3:1 cement mortar and pointed with a keyed joint.

1142

CONCRETE KERBING (FOR GARDENS):

Provide and embed in ground, where shown or specified, kerbing of Class E-concrete size 175 x 50 x 900mm long or as required to form angles, etc., finished smooth on exposed surfaces with top edge rounded and jointed in 3:1 cement mortar.

1143

BRICKLAYER

1144

APPLICATION OF CLAUSES:

As described in clauses 5.1 to 5.16 of OW 371.

1145

GENERAL PURPOSE BRICKS:

To be good, hard, sound, well burnt machine made bricks, even in size**,** obtainable from .....

1146

BRICKS FOR FOUNDATIONS:

To be good, sound, extra hard burnt machine made bricks, even in size, obtainable from .....

1147

FACING BRICKS:

To be good, hard, sound, well burnt machine made bricks, even in size and shape, obtainable from .....

N.B.

The Department reserves the right to use bricks at their discretion.

1148

BRICK FOUNDATION WALLS:

Build all foundation walls with extra hard burnt bricks to the lengths and thicknesses shown, from top of footings up to damp course level in cement mortar as described in clauses 5.14 and 5.15 of OW 371. Cavity foundation walls, where shown, are to be built in two half brick thicknesses, tied together with wire ties as clause 5.21 of OW 371. Half brick thick foundation walls, where shown, are to be built in 6:1 cement mortar and reinforced as described in clause 5.20 of OW 371. Walls shown as face bricks are to be built from two courses below finished ground level with facing bricks and jointed as described in clause 5.35 of OW 371 with a keyed or recessed joint as directed.

1149

FOUNDATION WALLS (SUB-STATION):

Build the foundation walls solid in English Bond with extra hard burnt bricks, to the thicknesses and lengths shown, from top of footings up to damp course level in cement mortar.

The foundation walls to be in two half brick thicknesses where exposed from two courses below ground level, tied together with wire ties as for cavity walls but each tie 150mm in length.

1150

Form openings in foundation walls of the forms and sizes shown for access to cable ducts.

1151

Walls at ends of cable ducts to be corbelled out as shown. Build half brick walls to ducts in cement mortar.

1152

BRICKWORK:

Build all solid superstructure walls to the lengths and thicknesses shown on drawings with bricks as described.

1153

ONE BRICK WALLS:

One brick thick walls are to be built in English Bond as described in clause 5.14 of OW 371, and in cement mortar. Joints in brickwork, to walls specified to be plastered or tiled, are to be raked out as described in clause 5.16 of OW 371.

1154

WALLS IN SEPARATE THICKNESSES:

Walls built in two or three half brick thicknesses are to be tied together with metal ties, all in accordance with SABS Specification 28, of sufficient length to allow not less than 75mm of each end to be built into brickwork and spaced not more than 900mm apart alternately to every third course of brickwork. Face brickwork is to be built with facing bricks as described and pointed as directed with a keyed or recessed joint as clause 5.35 of OW 371. Walls, unless otherwise specified , are to be built in cement mortar. Joints in brickwork, to walls specified to be plastered or tiled, are to be raked out as described in clause 5.16 of OW 371 .

1155

CAVITY WALLS:

Cavity walls are to be built with two half brick thicknesses in stretcher bond, with 50mm cavity between, all tied together with metal wall ties as described in clause 5.21 of OW 371. Face brickwork is to be built with facing bricks as described and pointed as directed with recessed or keyed joints as clause 5.35 of OW 371. Walls, unless otherwise specified, are to be built in cement mortar. Joints in brickwork, to walls specified to be plastered or tiled, are to be raked out as described in clause 5.16 of OW 371.

1156

HALF BRICK THICK WALLS:

Half brick thick walls are to be built in cement mortar, reinforced with 75mm wide brick reinforcement as clause 5.20 of OW 371, one row to every eighth course in height, and built 100mm into main connecting walls. The reinforcement shall be lapped 150mm at end joints, and 75mm at angles.

1157

Face brickwork is to be built with facing bricks as described and pointed as directed with a recessed or keyed joint as clause 5.35 of OW 371.

1158

HALF BRICK WALLS FORMING COUNTER FRONTS:

Build the half brick thick walls forming counter front where shown, including return at ends, with facing bricks as described in clause 5.35 of OW 371.

1159

WING WALLS TO STEPS:

Build wing walls to entrance steps with face brickwork, 220 thick, bedded and jointed in 3:1 cement mortar and pointed to match the existing.

1160

BRICK ON EDGE STEPS:

Build steps in the position shown on drawing with facing bricks, as specified, set on edge with one bullnosed header course at front with snap header course at back of tread, for the full width of each step with all joints continuous, cut as required, bedded on the recessed concrete under, jointed in 3:1 cement mortar and pointed with a slightly sunk joint.

1161

BRICK ON EDGE STEPS (REPAIR):

Replace the existing broken/loose/missing bricks to steps with new face bricks to match existing, bedded and jointed in 3:1 cement mortar with slightly sunk joint.

Square metres:

1162

BRICK AND TILE STEPS:

Build steps in the position shown on drawing, with risers formed with facing bricks, as specified, set on edge in 3:1 cement mortar. The treads to steps to be finished with:-

1163

304 x 229 x 32mm thick approved terrazzo step tiles, cut as required, with front edge projecting over face of brick riser, all bedded and jointed in 3:1 cement mortar and pointed with a slightly sunk joint.

1164

203 x 203 x 32mm quarry tiles, with one bullnosed row at front and one cut row at back for the full width of tread all bedded and jointed in 3:1 cement mortar and pointed with a slightly sunk joint.

1165

BRICK ON EDGE COPING:

Finish top of parapet walls and wing walls to steps with brick on edge course in facing bricks as described, bedded and jointed in 3:1 cement mortar, flush pointed on top and pointed on faces with a recessed or keyed joint as specified.

1166

METAL TIES BETWEEN BRICKWORK AND CONCRETE:

Where brickwork abuts against concrete walls and columns the brickwork is to be tied to the concrete with 32mm wide x 1,6mm thick galvanised hoop iron ties, 450mm long, spaced 600mm apart vertically with one end of tie cast 150mm into the concrete and the remaining portion bent as required and built into the nearest horizontal joint of abutting brickwork.

1167

HALFBRICK LININGS:

Half brick thick linings to concrete walls, beams and columns, are to be tied to the concrete with metal wall ties as clause 5.21 of OW 371. Cast one end of each tie 75mm into the concrete and build other end into brickwork. Space ties at not exceeding 1,0m centres alternately to every second course of brickwork.

1168

BUILDING IN OF WOOD FRAMES:

Set wooden frames for doors in positions shown or required. Provide and fix galvanised hoop iron cramps. Strut to prevent distortion and to keep frames in position and build in as the work proceeds, all as described in clause 8.35 of OW 371.

1169

BRICK EDGING TO TILED FLOORS:

Finish the exposed edges of verandah floors, shown on drawing with a single bullnosed brick on edge course of facing bricks, as described, bedded and jointed in 3:1 cement mortar and pointed with a keyed joint.

1170

BUILDING IN OF PRESSED STEEL DOOR FRAMES AND STEEL WINDOWS:

Set pressed steel door frames and windows in positions shown or required. Strut as required and build in as the work proceeds, all as described in clauses 5.30 and 5.34 of OW 371.

1171

BUILD IN FRAMES, WINDOWS, ENDS OF TIMBERS, HOLDFASTS, CRAMPS AND DOWELS, ETC.:

Build in frames, ends of timbers, holdfasts, cramps and dowels, etc., bed door, window frames and plates. Rake out joints and point flashings, protect brickwork and clean down faced brickwork and sills, etc., as described in clauses 5.27, 5.30, 5.34 and 5.43 of OW 371.

1172

THICKEN OUT BRICKWORK:

The brick walls are to be thickened out so that plaster bands and panels finish flush with adjacent faced brickwork.

1173

BAGGED FINISH TO BRICKWORK:

The internal wall surfaces of the rooms specified are to be bagged all as described in clause 5.26 of OW 371.

1174

REINFORCED BRICK LINTELS:

Build reinforced brick lintels, as described in clause 5.23 of OW 371, over all openings having straight heads; except where otherwise shown or specified.

1175

PRESTRESSED LINTELS:

Provide over door and window openings, shown on drawing, prestressed concrete lintels reinforced with stressed high tensile steel wires, all as described in clause 5.25 of OW 371.

1176

PRESTRESSED LINTELS UNDER NEW WALL/S IN EXISTING BUILDING:

Remove the floor finishing and lay prestressed lintel/s on existing concrete surface bed, one under each half brick thickness of wall, all as described in clause 5.25 of OW 371.

1177

HOLLOW TILE LINTELS:

Hollow tile lintels shall be formed with approved 300 x 220 x 110mm burnt clay hollow tiles each having not more than three cavities. The tiles shall be set end to end and the cavities filled up solid with Class E-concrete.
Lintels shall have bearings of not less than 220mm on wall at ends, all as described in clause 5.25 of OW 371.

1178

BEAM FILLING:

Build beam filling under open eaves of roof, all as described in clause 5.22 of OW 371.

1179

BEAM FILLING (REPAIRS):

Hack out existing beam filling and build new beam filling as described in clause 5.22 of OW 371. Finish new brickwork with plaster as required or specified.

Lineal metres:

1180

AIR BRICKS:

Form openings in external walls in the position shown and provide and build in approved 228 x 150mm vermin proof louvred air bricks. To openings formed, provide plaster of paris air ventilators, bedded, neatly pointed and set flush with wall finish internally.

1181

REPLACE AIR BRICKS:

Remove the existing air bricks where indicated or specified.
No:

1182

Provide and build in internally, new 228 x 150mm plaster of paris air ventilators, set flush with face of wall and neatly finished.

No:

1183

Provide and build in externally, new 228 x 150mm approved vermin proof louvred air bricks, set flush with face of wall and neatly finished.

No:

1184

QUARRY TILE COPINGS:

Finish the top of the walls with quarry tiles as clause 5.37 of OW 371 , of the sizes shown or required, set level with projection over both sides of wall, bedded and pointed in 3:1 cement mortar and flush pointed on top and on exposed faces.

1185

QUARRY TILE COPINGS (REPAIR):

Hack off defective quarry tiles, cut out all defective pointing to the copings, prepare for and replace tiles removed and tiles found missing with new tiles, bedded on 3:1 cement mortar. Repoint joints with 3:1 cement mortar to match the existing.

Square metres:

1186

BRICK THRESHOLD:

Form threshold at entrance door with facing bricks as described for the full width between jambs of opening and cut as required, all bedded and jointed in 3:1 cement mortar and pointed with a slightly sunk joint. Finish the threshold flush with internal floor finishing.

1187

BRICK STEPS:

Build steps at entrance door with treads formed with hard burnt bricks as described set on edge with ends to front and all joints continuous. Form risers to steps with facing bricks as above, set on face with edge to front. The bricks are to be bedded on the stepped concrete under and jointed solid in 3:1 cement mortar and pointed with a slightly sunk joint.

1188

BRICK ON EDGE PAVING:

Pave the floor surfaces as indicated on drawing or specified with hard burnt facing bricks as described, laid on edge with all joints continuous, bedded on concrete floor bed and jointed in 3:1 cement mortar and pointed with sunk joint.

1189

FIBRE CEMENT SILLS:

To all window openings provide pressed fibre cement sills of not less than 15mm thickness, set to slope on splay cut brickwork externally and set level internally all bedded in 3:1 cement mortar as clause 5.36 of OW 371. Sills to project 22mm over finished face of walls both internally and externally.

1190

KEFIX LOOSE FIBRE CEMENT WINDOW SILL/S:

Remove loose fibre cement window sill/s provide each with new fixing lugs and ref-Lx by bedding in. 3:1 cement mortar.

1191

QUARRY TILE SILLS:

Form sills to all window openings with quarry tiles size 175 x 175 x 25mm thick externally and 150 x 150 x 25mm thick internally, set to slope on splay cut brickwork externally and
set level internally with projection over finished face of walls both internally and externally all as described in clause 5.37 of OW 371.

1192

FACE BRICK WINDOW SILLS (EXTERNALLY):

To the window openings shown or specified, form brick on edge sills with facing bricks to match the existing laid sloping with 22mm projection over face of wall below, all bedded and jointed in 3:1 cement mortar and pointed with a keyed joint.

1193

QUARRY TILE SILLS (INTERNALLY):

Form internal window sills with 25mm thick quarry tiles, set level with projection over face of wall as described in clause 5.37 of OW 371.

1194

SLATE SILLS:

To the window openings externally shown or mentioned, provide sawn and polished slate sills 25mm thick, set to slope with 20mm projection over face of wall and bedded in 3:1 cement mortar. Internally the sills are to be bedded as for the sills externally but set level.

1195

WINDOW SILLS (REPOINT):

Cut out all loose and defective pointing to the sills specified and repoint with 3:1 cement mortar all to match the existing.

Lineal metres:

1196

WINDOW SILLS (REPAIR):

Hack off defective quarry tiles, cut out all defective pointing to the sills. Prepare and replace tiles removed and tiles missing with new, bedded in 3:1 cement mortar and pointed to match existing.

Lineal metres:

1197

REPAIR WINDOW SILLS:

Remove defective window sills, replace damp-proof course, with new as described in clause 6.1 of OW 371 and provide new window sills, as described hereunder:-

1198

Fibre cement window sills shall be 15mm thick, of pressed fibre cement and approved manufacture, all to match the existing in every respect. Fibre cement window sills shall be fitted with screwed-on fixing lugs and bedded in 3:1 cement mortar.

Lineal metres:

1199

Face brick window sills shall be formed to match existing face brick windows sills. New face bricks shall be used and shall be built in with 4:1 cement mortar, with joints between face bricks to be pointed to match existing.

Lineal metres:

1200

Plastered window sills shall be formed to match existing plastered window sills. New common bricks shall be used and built in with 4:1 cement mortar.
Plaster windows sills with 4:1 cement plaster, finish off smoothly with angles slightly rounded, and to match existing window sills in all respects.

Lineal metres:

1201

BUILD IN BATH:

Build in bath with brick on edge wall to front in 3:1 cement mortar, all bedded tight up to underside of rim on bath and set back from edge to allow for flush tiling.

1202

BATH SURROUND (ACCESS PANEL):

Form or leave opening size 304 x 304mm in the brick bath surround.
Provide 38 x 50mm wrought pine frame, fixed to hardwood plugs in opening formed in bath surround, with 22mm thick laminated board size 304 x 304mm to take four tiles cemented to board with an approved adhesive and the whole fixed to frame with four 50mm chromium-plated dome headed screws.

1203

INSTALLATION OF ELECTRICAL SERVICES:

The installation of electrical services, where such services are being provided, will be carried out under a separate contract or departmentally. The contractor must cut all necessary chases, holes in walls for conduits, form recesses in walls for conduits, switchboard cupboard and boxes, etc., all as described in clause 5.38 of OW 371.

1204

ITEMS TAKEN OUT FROM WALLS AND STORED FOR RE-USE:

Carefully take out the items shown or specified below and store for re-use.

1205

ITEMS TAKEN OUT FROM WALLS AND REMOVED FROM SITE:

Carefully take out the items shown or specified below and remove from the site:

1206

JOINING NEW WALLS TO PLASTERED STRUCTURES:

Cut and hack off plaster to the extent required and cut toothings, 4 courses high by 114mm deep, to form block bonding between new and existing walls. New brickwork built into toothings is to be well bedded and filled in on top and at ends, with cement mortar. New plaster is to finish flush with and match the existing.

1207

JOINING NEW FACE BRICK WALLS TO EXISTING FACE BRICK STRUCTURES:

Saw and cut out bricks of which headers are shown on face of angle in stretcher bond and header and closer in English bond, by full thickness of wall. Clean out toothings and build new walls in face brick to match the existing externally and finish plaster to new walls flush with and to match existing plaster internally.

1208

WALLS (REMOVE):

Carefully take down walls as shown on drawings to not less than two courses below concrete floor level and remove rubble from site.

1209

Make good to floor-, wall- and ceiling surfaces, in all trades to match the existing.

1210

NEW WALL/S IN EXISTING BUILDING/S (WITHOUT CONCRETE FOUNDATIONS)

Build new wall/s on prestressed lintels, previously specified, with bricks as described in cement mortar to the length, height and thickness shown on drawings.
Reinforce every fourth course with brick reinforcement and build ends into existing wall/s.

1211

NEW WALLS IN EXISTING BUILDING/S:

Take up floor finishing, hack up surface beds to width required to suit the footings as shown on drawings. Excavate through filling to an approved depth and leave ready for concrete footings. Fill into excavations and ram well on completion of foundation walls.

1212

Lay Class B-concrete footings under new foundation walls of widths and thicknesses shown on drawings.

1213

Hack plaster off existing walls where new walls abut and cut indents into existing brickwork for joining of new walls.

1214

Lay a damp proof course on foundation wall as clause 6.1 of OW 371 .

1215

Build walls in cement mortar. 114mm thick walls to be reinforced with 76mm wide brick reinforcement as clause 5.20 of OW 371. Face brick walls where shown or specified, are to be faced with facing bricks to match, pointed with a recessed or keyed joint as clause 5.35 of OW 371 and tied to inner thickness of walls with ties as clause 5.21 of OW 371. 220mm Thick walls are to be built in English bond as described in clause 5.14 of OW 371.

1216

Render walls to a smooth and even surface with one coat cement plaster as clause 14.7 of OW 371.

1217

Cut through ceilings for new walls to pass through as required. Provide and fix 114 x 38mm ceiling joists on both sides of openings thus formed to carry ceilings. Prepare, make good, provide and fix new cornices to match existing.

1218

To walls finished to underside **of** ceilings, provide and fix new cornices to match existing.

1219

Make good in all trades to match existing.

1220

BUILD UP OPENINGS WHERE DOORS AND WINDOWS ARE REMOVED:

Cut toothings the full height of openings. Prepare for and build up openings in new brickwork with cement mortar to match existing.

1221

Cut and hack off plaster to the extent required. New plaster is to finish flush with and match the existing as described in clause 14.7 of OW 371,

1222

Provide and fix new timber skirtings to wall plugs properly fixed to walls and finish off with a quadrant bead to match the existing.

1223

Provide and fix new picture rails to wall plugs properly fixed to walls to match the existing.

1224

Make good in all trades to wall- and floor surfaces to match existing.

1225

REMOVE WINDOWS AND BUILD IN DOORS:

Take out the existing windows where shown or specified and remove from the site.

Enlarge openings as required and cut toothings for the full height of opening. Set new frames as later specified in position and build in all as described in clause 5.33 of OW 371.

Make good in all trades to match the existing.

1226

REMOVE DOORS AND FRAMES AND BUILD IN NEW FRAMES:

Take out the existing doors and frames where shown or specified and remove from the site.

Enlarge openings as required and cut toothings for the full height of openings. Set new frames as later specified in position, and build in all as described in clause 5.33 of OW 371.

Make good in all trades to match the existing.

1227

FORM OPENINGS AND BUILD IN DOOR FRAMES:

Cut or break openings in the existing wall, for the building in of door frames, where shown or mentioned.

Cut toothings the full height of openings; set new or existing frames in position, as later specified and build in all as described in clause 5.33 of OW 371.

1228

Prepare for and set door frames, stored for re-use, in position where shown or specified.

1229

Provide prestressed lintels above door frames, as described in clause 5.25 of OW 371.

1230

Make good in all trades to match the existing.

1231

FORM OPENINGS AND BUILD IN WINDOWS:

Form openings in the existing wall, for building in of windows where shown or specified. Cut toothings the full height of openings; set windows in position, as later specified and build in.

1232

Prepare for and set windows, stored for re-use, where shown or specified.

1233

Provide prestressed lintels above windows, as described in clause 5.25 of OW 371.

1234

Make good in all trades to match the existing.

1235

FORM OPENINGS IN EXISTING WALLS:

Form openings in the positions and of the sizes shown on drawings or as specified.

1236

Form seating in walls to suit the lintels later specified and fill in toothings with bricks to match existing in 3:1 cement mortar.

1237

Provide and build in prestressed lintels as described in clause 5.25 of OW 371.

1238

Make good in all trades to match the existing.

1239

REMOVE DOOR AND FRAME AND LEAVE OPENING:

Carefully take out door and frame complete where shown or specified and store for re-use.

1240

REMOVE DOOR AND FRAME AND LEAVE OPENING:

Carefully take out door and frame complete where shown or specified and remove from site.

1241

Make good in all trades to match the existing.

1242

REFIX PRESSTEEL DOOR FRAME/S:
Form three openings of one brick depth in walls on either side of pressed steel door frames. Provide and fix new cramps suitable for door frames and properly build-in door frame. The cavity between brickwall and back of steel door frames shall be grouted-in solid with cement mortar. New bricks shall be used. Make good in all trades.

Quantity:

1243

REFIX WOODEN DOOR FRAMES:

Form three openings of one brick depth in walls on either side of wooden door frames. Provide and fix new galvanised cramps as described in clause 5.33 of OW 371 and properly build-in door frame with new bricks in cement mortar. Make good in all trades.

Quantity:

1244

REPOINT BRICKWORK:

Remove existing loose, weathered or weak jointing material to a depth of not less than 12mm, clean, wet and repoint with cement mortar. Joints must be properly formed to a smooth and straight line, and to match existing in all respects.

Lineal metres:

1245

REBUILD CHIMNEY STACK/S:

Carefully take down the chimney stack/s shown or specified (including flashings thereto) from three courses below roof covering or to such other height as directed and remove rubble from site.

1246

Build chimney stack/s with extra hard machine made bricks in cement mortar to existing height and shape as previously. Flue is to be parged for the full height in 3:1 cement mortar.

1247

Render exposed surfaces of stack/s in one coating cement plaster as clause 14.7 of OW 371.

1248

Finish exposed surfaces of stacks with machine made face bricks to match existing in cement mortar.

1249

Provide flashing to stack/s to match existing.

1250

FIRE PLACES (BRICK UP OPENINGS):

Take out dog grates. Hack up floor as required, cut indents in existing brickwork for and build up openings in one brick thick brickwork in 4:1 cement mortar. Form 150mm diameter hole in brickwork for flue pipe of slow combustion stove later specified and make good in all trades to match the existing.

1251

REPAIR CRACKS:

Plaster around all large cracks shall be hacked off for at least 200mm on either side of crack. Cracks are to be filled in with stiff 3:1 cement grouting solidly caulked in. All badly cracked or broken bricks shall be replaced with new approved bricks, laid in cement mortar. Areas to be replastered shall be thoroughly cleaned, wetted and replastered with cement plaster, finished off to a smooth and even surface and on the same plane as the existing plaster, with all joints between old and new plaster properly concealed.

Lineal metres:

1252

REBUILDING OF CRACKED WALLS:

Carefully take down brickwork to both sides of crack in wall to the extent specified. Cut toothing, raking to 70 degrees down from top to bottom. Prepare and build up opening with bricks to match existing in cement mortar, reinforced with brickforce, one row to every fourth course in height, built 100mm into existing walls. The bricks to be laid on a solid bed of mortar and all joints thoroughly grouted up solid throughout the whole of each course.

1253

Allow for plant to support the roof while the building operations are in progress.

1254

Take out doors or windows as directed and store for re-use and for building in, in original positions as the work proceeds with necessary ties.

1255

Allow for face brick finish both sides using new bricks in cement mortar jointed and pointed to match the existing.

1256

Allow for face brick finish externally using new bricks in cement mortar jointed to match existing and render new walls internally in one coat cement plaster, finished flush with and to match existing.

1257

Render new walls externally and internally with cement plaster, finished flush with and to match existing, as described in clause 14.7 of OW 371.

1258

GABLE VENTS:

Provide and build into gable wall in cement mortar 100mm diameter fibre cement pipes, each 300mm long and with outer end cut perfectly square and cleaned off smooth and projecting beyond wall face.
Provide each length of pipe with a screen formed with 10mm chicken mesh with ends of wire turned round a 100mm diameter ring of 4mm galvanised wire fixed 50mm back from outer end in an approved manner.

1259

PULVERISED BRICKS (REPLACE):

Carefully cut out pulverised or decomposed bricks and replace with bricks to match existing cut as faggots to suit openings and build in, in cement mortar.

1260

REPAIR CRACKS IN FACE BRICK WALLS:

Carefully cut defective pointing to brickwork adjoining the crack to be repaired, clean out, well wet crack and joints, fill in crack with 3:1 semi-dry cement mortar, well caulked in from both sides, finished flush with face bricks and plaster and make good pointing in cement mortar to match existing pointing.

1261

PROTECT AND CLEAN DOWN BRICKWORK, ETC.:

Protect angles of face brickwork, reveals, steps, etc., liable to damage during the progress of the remaining work. Clean down as the work proceeds, face brickwork, sills, copings, etc., liable to be soiled by mortar or plaster splashes during the progress of the remaining work, all as described in clause 5.43 of OW 371.

1262

NATURAL STONE MASONRY:

1263

REPOINTING OF JOINTS (MASONRY):

Rake or hack out joints to a depth of 12mm, clean and wet joints and repoint in 3:1 cement mortar to match existing.

1264

REPLACE MASONRY:

Carefully cut out decomposed or broken masonry and replace with new masonry, bedded solid in cement mortar and pointed to match existing.

1265

BUILD STONE WALL:

Build the stone wall from top of concrete footing to the height, length and thickness shown on the drawings, with local stone in rock faced random rubble in compo mortar.

The stones are to be laid on their natural quarry bed, well rammed down to their bearings, well fitted into position in the strongest manner. Interstices to be hand packed with spalls bedded in compo mortar. Through stones or bonders are to be built in, one to every square metre of walling.

1266

WATERPROOFING

1267

DAMP-PROOFING COURSE:

Lay a damp-proof course on all new foundation walls as described in clause 6.1 of OW 371.

Lay similar damp-proof course under window cills.

1268

DAMP-PROOFING MEMBRANE:

Lay a damp-proof membrane under all new solid floors specified, as described in clause 6.2 of OW 371.

1269

FLAT ROOF COVERING (THREE LAYERS):

The flat concrete roof where shown on drawing or mentioned, is to be covered with three layers of bituminous sheeting as described in clause 6.4 of OW 371.

1270

Allow for hacking up, or stripping off the existing finish to the areas to be covered with bituminous sheeting and removal of all rubble from site.

1271

Allow for making good to roofs, plaster to walls and other items damaged during progress of work.

1272

FLAT ROOF COVERING (TWO LAYERS):

The flat concrete roof where shown on drawing or specified, is to be covered with two layers of bituminous sheeting as described in clause 6.4 of OW 371.

1273

Allow for hacking up or stripping off the existing finish to the areas to be covered with bituminous sheeting and clean down the surfaces.

1274

Allow for making good to roofs, plaster to walls and other items damaged during progress of the work.

1275

MASTIC ASPALT TO FLAT ROOFS:

The flat concrete roofs shown on drawings are to be covered with approved aspalt roofing mastic as described in clause 6.4 of OW 371 .

1276

Allow for hacking up or stripping off the existing finish to the areas to be covered with mastic, and clean down the surfaces.

1277

Allow for making good of roofs, plaster to walls and other items damaged during progress of the work.

1278

ROOF COVERINGS

1279

LININGS TO VALLEYS:

Line the valleys with 0,60mm thick galvanised sheet iron, as described in clause 7.15 of OW 371.
1280

LININGS TO CHIMNEY GUTTERS:

Line the gutter at back of chimney stack with 0,60mm thick galvanised sheet iron, as described in clause 7.16 of OW 371.

1281

FLASHINGS TO CHIMNEY STACKS: (NO GUTTER AT BACK):

Flash with 0,60mm thick galvanised sheet iron to front, back and sides of chimney stack turned up not less than 75mm against brickwork and 200mm onto roofing iron and closely dressed into corrugations. Cover the turned up edges of flashings to front, side and back of stack, with cover flashings of similar sheet iron wedged 19mm into joints of brickwork. Raking flashings to be stepped.

1282

FLASHINGS AT JUNCTION OF ROOF WITH PARAPET WALLS:

Put flashings of 0,60mm thick galvanised sheet iron at junctions of roofs with parapet walls, as described in clause 7.19 of OW 371 .

1283

FLASHINGS AT JUNCTIONS OF LEAN-TO ROOF WITH WALLS:

At junctions of lean-to roof with walls put flashings of 0,60mm thick galvanised sheet iron as described in clause 7.19 of OW 371 .

1284

FLASHINGS: (RIB-TROUGH ROOF COVERING):

Sole and cover flashing to rib-trough roof covering are to be as described for corrugated iron covering as described in clause 7.19 of OW 371, but are to be to the forms and sizes and with type of infill pieces as laid down in the manufacturer's specification.

1285

FLASHINGS TO PIPES:

Pipes passing through roof as later specified are to be flashed where they pass through the roofing iron with 0,60mm thick galvanised sheet iron as described in clause 7.20 of OW 371.

1286

LININGS TO VALLEYS: (REPLACE):

Carefully take down the linings to the valleys specified and remove from site.

Provide and line the valleys with new 0.6mm thick galvanised sheet iron as described in clause 7.15 of OW 371.

1287

LININGS TO CHIMNEY GUTTERS: (REPLACE):

Carefully take down the linings to gutters at back of chimneys specified. Provide and line the chimney gutters with 0,6mm thick galvanised sheet iron as described in clause 7.16 of OW 371.
Take down the sole and cover flashings specified to front and sides of chimney stack.
Provide and fix new 0,6mm thick galvanised sheet iron sole and cover flashings, as described in clause 7.19 of OW 371.

1288

FLASHINGS TO CHIMNEY STACKS: (REPLACE): (NO GUTTER AT BACK):

Take down sole and cover flashings to chimneys specified.

Provide and fix new 0,60mm thick galvanised sheet iron sole and cover flashings, as described in clause 7.16 of OW 371.

1289

FLASHINGS AT JUNCTION OF ROOF WITH PARAPET AND GABLE WALLS:(REPLACE):

Take down the flashings to the walls specified, and fix new 0,60mm thick galvanised sheet iron flashings and as described in clause 7.19 of OW 371.

1290

LININGS TO VALLEYS AND CHIMNEY GUTTERS, FLASHINGS TO CHIMNEYS AND TO WALLS:

(REPAIRS):

Carefully examine all linings and flashings to the roofs specified. Beat into corrugations all damaged and buckled edges and refix with roofing screws where found loose. Replace defective screws with longer screws and washers and solder defective joints and holes.

1291

ROOFING TILES (CLAY):

Cover the roof specified with clay roofing tiles as described in clause **7.2** of OW 371.

1292

ROOFING TILES (CONCRETE):

Cover the roof as shown or mentioned with concrete roofing tiles as described in clause 7.3 of OW 371.

1293

ROOFING SLATES:

Cover the roof as shown or mentioned with slate roofing slates as described in clause 7.4 of OW 371.

1294

FIBRE CEMENT ROOFING SLATES:

Cover the roof as shown or mentioned with fibre cement roofing slates as described in clause 7.5 of OW 371.

1295

ROOFING MEMBRANE:

Provide and lay on top of rafters an approved underlay of non-combustible reflective foil laminates waterproofing membrane as described in clause 7.1 of OW 371.

1296

TILE ROOFS (REPAIR):

Carefully remove broken or otherwise defective tiles and replace with new tiles to match the existing. Examine all pointing. Remove defective pointing and make good in 3:1 cement mortar.

1297

REPAIRS TO ROOFS (CONCRETE TILES):

Carefully remove broken or otherwise defective tiles and replace with new concrete tiles to match the existing. Examine all pointing. Remove defective pointing and make good in 3:1 cement mortar.

1298

REPAIR RIDGE- AND HIP TILES:

Thoroughly check over ridge- and hip tiles for cracked or damaged tiles and repair roof as follows:
Remove defective tiles. Provide new ridge- and hip tiles to match the existing in all respects. Remove mortar bed, repair or replace bituminous sheeting with similar sheeting and lay new tiles in tinted cement mortar, including the filling up of joints between roofing tiles and ridge and/or hip tiles.

1299

REPAIRS TO ROOFS (SLATES):

Carefully remove broken or otherwise defective slates, examine and repair or replace felt or bituminous sheeting soakers and replace slates to match the existing. Examine all pointing. Remove defective pointing and make good in 3:1 cement mortar.

1300

CORRUGATED IRON TO ROOF:

Cover the roof with corrugated galvanised iron roofing sheets as in clause 7.6 of OW 371.

1301

CORRUGATED IRON ROLLED EDGE:

The sheet iron covering at verges of gable ends and at eaves of flat lean-to roofs where applicable, to be finished with a neatly formed roll over barge boards and fascia boards.

1302

RIDGING (CORRUGATED IRON):

Cover the ridge of roof with galvanised iron ridging as in clause 7.7 of OW 371.

1303

RIB THROUGH ROOF COVERING:

Cover the roof with rib trough roofing sheets as described in clause 7.6 of OW 371.

1304

Provide serrated eaves closures as supplied by the manufacturers and fit in position in accordance with their specification.

1305

RIDGING (RIB-TROUGH ROOF COVERING):

Cover the ridge of roof with rib-trough galvanised iron ridging as in clause 7.7 of OW 371.

1306

Provide standard serrated infill pieces as supplied by the manufacturers and fit in position in accordance with their specification.

1307

CORRUGATED FIBRE CEMENT ROOFING:

Cover the roof shown, with corrugated fibre cement roofing sheets as in clause 7.9 of OW 371.

1308

RIDGING (ADJUSTABLE FIBRE CEMENT)
Cover the ridge of roof with adjustable corrugated fibre cement ridging as in clause 7.10 of OW 371.

1309

GALVANISED IRON ROOF COVERING (REPAIRS):

Carefully examine entire roof areas and locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings. Locate holes and solder. Replace defective screws using longer screws as "Reseal" as SABS Specification 135 where purlins are fixed on edge, and 6mm bolts where purlins are fixed on flat. Beat into corrugations damaged or buckled edges, fix in position where necessary using self-tapping screws, roofing screws or verandah bolts. Similarly examine all flashing, ridging and valley linings, repair and refix loose sections, as for roof covering.

No plastic or other compounds are to be used to render leaks watertight.

1310

CORRUGATED ROOFING SHEETS (REPLACE PORTIONS OF ROOF):

Carefully take down the roofing sheets as specified and remove from site. Provide and fix new sheets as described in clause 7.6 of OW 371.

1311

GALVANISED IRON RIDGING (REPLACE):

Carefully unscrew roofing screws. Solder screw holes in corrugated iron. Provide new ridging as described in clause 7.7 of OW 371, fixed with screws.

Lineal metres:

1312

ROOF COVERING (REPLACE ENTIRE ROOF AREA):

Take down corrugated roofing iron and other items as specified and remove from site. Provide and cover roof with new corrugated roofing iron as in clause 7.6 of OW 371.

1313

Replace defective purlins with new purlins to match the existing, and as described in clause 8.18 of OW 371.

Lineal metres:

1314
Allow for taking down items as mentioned below, for replacing of roof covering; store for re-use and refix on completion of the work.

FIBRE CEMENT RIDGING (REPLACE):

Carefully remove cracked and broken ridging and replace with new fibre cement ridging to match the existing, and as described in clause 7.10 of OW 371.

Lineal metre:

1315

REPAIR LEAKS IN FIBRE CEMENT ROOF:

Thoroughly check roof for leaks, loose or missing roofing screws and repair roof as follows:

Remove loose roofing screws, replace existing washers, if required, with new "Plaxit" or other similar approved upper galvanised cups and grey or malthoid under washers, plug holes in purlins with glued wooden pegs, and refix existing screws to purlins. Replace all damaged or missing screws with new 100mm long galvanised iron roofing screws, provided with the necessary washers and screwed to holes plugged with glued wooden pegs, all as described above. Where replacing or removal of existing screws are not required, the existing screws are to be driven in deeper, and heads of screws shall be sealed off with "Secomastic" or similar approved material.

Loose ridge plates and valley linings, shall be repaired and fixed in the same manner as above.

1316

N.B. :

Contractors must be careful in the execution of the work. Any damage done by workman must be replaced or repaired on the Contractor's expense to the satisfaction of the Representative/Agent.

1317

CORRUGATED FIBRE CEMENT ROOF COVERING (REPLACE):

Take down cracked or broken sheets and remove from site. Provide new sheets and fix to existing purlins as described in clause 7.9 of OW 371.

1318

CORRUGATED FIBRE CEMENT ROOF COVERING (REPAIR):

Carefully examine entire roof area for leaks. Replace missing or otherwise defective screws. Tighten loose screws and leave watertight.

1319

THATCHING TO NEW ROOF/S:

Thatch the roof with Tambuti grass, Lowveld thatching straw. Cape De-Kreit reeds or Transvaal (Hyperlinia) or other approved laid in bundles and tied to the battens with approved tarred yarn to a thickness of approximately 200mm, with ends pointing towards eaves.

Each bundle or section after laying to be raked or combed out with a special tool, so that the protruding ends are evenly spaced and to finish flush with adjoining thatch.

Finish ridges similarly, but to a thickness of approximately 100mm, and neatly cut and trim all edges to approval of Representative/Agent.

Cover the underside with thatching grass pushed in between battens, neatly raked and combed as above.

After the thatching is completed and before the painting is commenced, all exposed surfaces of the thatched roof to be thoroughly sprayed twice with an approved spray pump with a solution made up of the following materials:

Sulphate Ammonia	20kg
Carbonate Ammonia (lump)	10kg
Borax (lump)	5kg
Boracic Acid	5kg
Alum (lump)	10kg

All thoroughly dissolved in 340 litre of clear water.

1320

RETHATCHING OF ROOF:

Carefully remove all the existing thatching from roof and remove from site.

The Contractor is to allow in his tender for the provision of necessary dust sheets, for the proper protection of the occupants, furniture and possessions.

Inspect all roof timber and replace all broken or otherwise defective battens, box gutters and flashings to chimneys and do any other repairs that may be found necessary.

Thatching is to be carried out in Tambuti grass, Lowveld thatching straw or Cape De-Kreit reeds or Transvaal grass (Hyperlinia) **or** other approved thatching grass. Bundles are to be free from any extraneous matter, even in size, and in long lengths and a minimum thickness of 200mm.

All grass or reeds used in the thatching is to be from the same source.

The work is to be carried out by experienced workmen, and the bundles to be closely packed and whacked to a compact state and secured to the battens with 2,80mm galvanised binding wire or approved tarred yarn.

After the thatching is complete and before the painting is commenced, all exposed surfaces of the thatched roof to be thoroughly sprayed twice with an approved spray pump with a solution made up of the following materials:

Sulphate Ammonia	20kg
Carbonate Ammonia (lump)	10kg
Borax (lump)	5kg
Boracic Acid	5kg
Alum (lump)	10kg

All thoroughly dissolved in 340 litre of clear water.

Replace all flashings with new 0,60mm galvanised sheet iron flashings and stepped flashings and render the roof water-tight all to the approval of the Representative/Agent.

1321

CARPENTRY AND JOINERY

1322

TREATMENT OF TIMBER:

As described in clause 8.1 of OW 371.

1323

WOOD PRESERVATIVE:

As described in clause 8.2 of OW 371.

1324

STRUCTURAL TIMBER:

Contractor's attention is drawn to clause 8.5 of OW 371 in regard to the use of South African softwood as structural timbers.

1325

PREFABRICATED ROOF TRUSSES:

Provide prefabricated roof trusses of the sizes shown as 8.10 of OW 371, including allowing for wind braces.

1326

WALL PLATES:

Provide and bed in 6:1 cement mortar on top of walls 114 x 38mm thick plates, as specified in clause 8.16 of OW 371.

All surfaces of roof plates are to be treated with two coats wood preservative as in clause 8.2 of OW 371, before the plates are bedded in position.

1327

PITCHED ROOFS:

Construct the roof as shown on drawings with trusses of 38mm thick timbers to the forms and sizes shown and figured on drawings, all well spiked together and secured, in addition, with M10 bolt, nut and washer at each intersection of timbers. Trusses are to be spaced at not more than 1,2m apart and securely fixed to roof plates and walls with hoop iron bands, built into walls as described in clause 5.32 of OW 371.

Purlins to be 75 x 50mm with eaves purlin 76 x 76mm splayed cut, all securely skew nailed on each side to rafter. To ends of purlins at verges, provide 75 x 50mm purlins between wall face and barge board, securely spiked to purlins for fixing barge boards.

Purlins shall in addition be secured to rafters at each intersection with galvanised wire ties as described in clause 8.19 of OW 371.

All exposed woodwork to be wrought to a smooth surface as described in clause 8.3 of OW 371.
Rafter ends built into walls are to be primed with an approved primer, prior to building in.

1328

LEAN-TO ROOFS (TRUSS CONSTRUCTION):

The roof of the building shown on drawing is to be constructed with lean-to trusses of 38mm thick timbers of the forms and sizes shown, all firmly spiked together and, in addition, secured with M10 bolt, nut and washer at each intersection of timbers.

Trusses are to be spaced at not more than 1 ,2 metre apart and securely fixed to roof plates and walls with hoop iron bands,
built into walls as described in clause 5.32 of OW 371.

Purlins to be 75 x 50mm, with eaves purlin 75 x 75mm splayed cut, all securely skew nailed on each side to rafter. To projecting ends of purlins at verges provide 75 x 50mm purlins between wall face and barge board, securely spiked to purlins for fixing barge boards.

Purlins shall in addition be secured to rafters at each intersection with galvanised wire ties as described in clause 8.19 of OW 371.

All exposed woodwork to be wrought to a smooth surface as described in clause 8.3 of ow 371.

Rafter ends, built into walls, are to be primed with an approved primer, prior to building in.

1329

LEAN-TO ROOFS:

The roof of the building shown on drawing is to be a lean-to roof, constructed with 38mm thick rafters of the

sizes shown, spaced at not more than 1,2m apart, having top ends built 100mm deep into wall at top or fixed to wall plate with bottom ends securely fixed down to wall plate and wall with hoop iron bands built into wall as described in clause 5.32 of OW 371. Purlins to be 75 x 50mm all securely skew nailed on each side to rafter. To projecting ends of purlins at verges provide 75 x 50mm purlins between wall face and barge board, securely spiked to purlins for fixing barge boards.

All exposed woodwork to be wrought to a smooth surface as described in clause 8.3 of OW 371.

Rafter ends built into walls are to be primed with an approved primer, prior to building in.

1330

GANG BOARDS IN ROOF:

Provide and fix where shown or mentioned, 228 x 38mm thick rough boarding for gangways in roof and fixed to tops of tie beams.

1331

PREPARE ROOF FOR JOINING UP NEW ROOF:

Take down and remove from site corrugated iron, eaves guttering, fascia and barge boards applicable to joining up new roof as shown on drawings. Splay cut end of purlins, make all necessary alterations to existing rafters, trusses, etc., and join up new roof.

1332

EAVES PROJECTING FACE OF WALL;

Rafter feet to project over face of walls with ends splay cut and purlins to project over walls at verges, as shown on the drawings.

1333

BARGE BOARDS (WOOD):

The verges of roof to be finished with 177 x 32mm thick wrought South African pine as clause 8.5 of OW 371. Barge boards with bottom ends to be mitred to fascia, cut at apex and securely fixed to projecting purlin ends.

1334

BARGE BOARDS (FIBRE CEMENT):

The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 150mm beyond fascia board, cut at apex and securely fixed to projecting purlin ends and reinforced with 75 x 50mm purlins between wall face and barge boards as described in clause 8.22 of OW 371.

1335

FASCIA BOARDS (WOOD):

To the ends of rafters fix 225 x 32mm thick wrought South African pine fascia boards as clause 8.5 of OW 371 . Fascias to be mitred at angles, fixed to bottom purlin and to ends of rafters.

1336

FASCIA BOARDS (FIBRE CEMENT):

To the ends of rafters fix 225 x 10mm thick pressed fibre cement fascia boards, butt jointed in between barge boards and securely fixed to bottom purlin and to ends of rafters as described in clause 8.22 of OW 371.

1337

VALLEYS IN ROOF:

Form valleys in roof as clause 8.11 of OW 371.

1338

CHIMNEY GUTTERS:
Form gutter at back of chimney stack as clause 8.12 of OW 371.

1339

PLATFORM FOR TANK:

Provide and fix in roof in position and of the size shown, a platform for water supply tank, formed with three 152 x 76mm thick bearers, fixed to 114 x 38mm thick plate bedded in cement mortar on top of walls carried up above ceiling joists. Cover the top of bearers with 25mm thick sawn boarding, double nailed and with 114 x 38mm thick framed kerb prepared for galvanised iron safe.

1340

FASCIA BOARDS (REPLACE WITH NEW):
Neatly cut fascia boards as required, take down and remove from site. Provide and fix new fascia boards to match existing.

1341

FASCIA BOARDS (REPLACE WITH FIBRE CEMENT):

Carefully take down the fascia boards where shown on drawings or as mentioned and remove from site. Provide and fit in position pressed fibre cement fascia boards, neatly fitted and securely fixed to roof timbers, to match existing.

1342

BARGE BOARDS (REPLACE WITH FIBRE CEMENT):

Carefully loosen sheet iron cappings where applicable or take down and remove wooden cappings where applicable. Take down barge boards and remove from site. Provide and fix 225 x 10mm thick plain pressed fibre cement barge boards and refix existing sheet iron cappings, and leave perfect.

1343

BARGE BOARDS (REPLACE WITH NEW):

Carefully loosen existing sheet iron cappings where applicable. Take down barge boards and replace with new to match existing. Refix existing sheet iron cappings and leave perfect.

1344

WOODEN CAPPINGS (REPLACE):

Take down existing wood cappings and remove from site. Provide and fix galvanised sheet iron capping of 300mm girth and 0,60mm thick, with neatly formed roll at exposed verges and securely fixed to purlins with roofing screws and washers.

1345

RE-FIXING OF WOODWORK:

Examine all woodwork such as fascia and barge boards, eaves coverings and cover strips and all other woodwork fixed to walls and securely refix in their original positions using new plugs, longer screws, etc.

1346

VERANDAH HEAD RAILS:

Provide and fix to top of tubular posts, 152 x 76mm head rails in long lengths, halved at joints, spiked together and secured in addition with two M10 bolts with nuts and washers.

1347

Rails to be neatly mitred at angles and well spiked together and ends of returns built into walls in 6:1 cement mortar.

1348

VERANDAH ROOF:

Construct the roof over the verandah shown on drawing with 38mm thick rafters of the sizes shown, spaced at not more than 1,2m apart, having:

1349

Top ends built 100mm deep into wall.

1350

Top ends, each fixed to roof truss feet with M10-bolt with nut and washer.

1351

Purlins size 75 x 50mm as described in clause 7.6 of OW 371 with 76 x 76mm splayed purlins at eaves all securely skew nailed on each side to rafter.

1352

All exposed woodwork is to be wrought to a smooth surface as described in clause 8.3 of OW 371.

All rafter ends built into walls are to primed with an approved primer, prior to building in.

1354

VERANDAH WOODEN POSTS (REPLACE WITH MILD STEEL POSTS):

Take down existing wooden posts and remove from site. Provide 76mm diameter mild steel posts with 225 x 76 x 6mm thick mild steel plates, welded at top and threaded for and fitted with flanges at bottom with M12-bolts built into surface bed and screwed to head rail with M10-coach screws.

1355

CEILING JOISTS:

Provide and fix in position where ceilings are shown or as mentioned between tie beams and to walls and elsewhere where support for brandering is required, 100 x 38mm thick ceiling joists with 50 x 38mm hangers, spiked to joists and 76 x 38mm runners as in clause 8.21 of OW 371.

1356

HARDWOOD FOR JOINERY:

All hardwood specified to be …….., and as described in clause 8.26 of OW 371.

1357

DOOR/S AND WOODEN FRAME/S (FRAMED AND LEDGED COVERED ON INSIDE) WITHOUT FAN LIGHT/S:

The external door/s shown on drawing/s or as mentioned to be 44mm thick framed and ledged door/s with 44mm thick stiles and top rail and 16mm thick middle and bottom ledges. The edges of stiles and top rail to be rebated and grooved for and filled in with 22mm thick tongued, grooved and V-jointed boarding, twice countersunk screwed to each ledge from the inside, all as described in clause 8.33 of OW 371.

The inner edges of stiles and top rail to be rebated for on inside and filled in with 6mm thick plywood panel, faced with veneer to match, glued and pinned on.

Hang each door on a pair and half of 102mm butt hinges as sample 84 and fit with 75mm lock as sample 3 and furniture as sample 134. Frame/s to be 114 x 76mm rebated and angle rounded.

1358

DOOR/S AND WOODEN FRAME/S (FRAMED AND LEDGED COVERED ON INSIDE) WITH FAN LIGHT/S:

The external door/s shown on drawing/s or as mentioned to be 44mm thick framed and ledged door/s with 44mm thick stiles and top rail and 16mm thick middle and bottom ledges. The edges of stiles and top rail to be rebated and grooved for and filled in with 22mm thick, tongued, grooved and V-jointed boarding, twice countersunk screwed to each ledge from the inside, all as described in clause 8.33 of OW 371.
The inner edges of stiles and top rail to be rebated for on inside and filled in with 6mm thick plywood panel, faced with veneer to match, glued and pinned on.

Hang door/s on a pair and a half of 102mm butt hinges as sample 84 and fit with 75mm lock as sample 3 and furniture as sample 134.

Fill in above transom with 44mm thick fanlight in one panel with rebate stiles and rails fitted with glazing beads and fixed with panels pins.

Hang fanlight/s to open in on a pair of 76mm butt hinges as sample 84 and fit with brass fanlight opener as sample 62. Frames to be 114 x 76mm rebated and angle rounded stiles and head rail with twice rebate transom, framed in for fanlight
.
1359

DOOR/S AND WOODEN FRAME/S (FRAMED LEDGED AND BRACED WITHOUT FANLIGHT/S):

The external door/s shown on drawing/s to be 44mm thick framed, ledged and braced with 44mm thick stiles and top rail, 22mm thick middle and bottom ledges and braces. Stiles and top rails to be grooved and filled in with 22mm thick tongued, grooved and V-jointed boarding twice countersunk screwed to ledges from inside, all as described in clause 8.33 of OW 371.

Hang door/s on a pair and a half of 102mm butts as sample 84 and fit with 75mm lock as sample 3 and furniture as sample 134. Frames to be 114 x 76mm rebated and angle rounded.

1360

DOOR/S AND WOODEN FRAME/S (FRAMED LEDGED AND BRACED) WITH FANLIGHT/S:

The external door/s shown on drawing/s or as mentioned, to be 44mm thick framed ledged and braced with 44mm thick stiles and top rail, 22mm thick middle and bottom ledges and braces, stiles and top rails to be grooved for and filled in with 22mm thick tongued, grooved and V-jointed boarding, twice countersunk screwed to ledges from inside, all as described in clause 8.33 of OW 371.

Hang door/s on a pair and half of 102mm butts as sample 84 and fit with lock as sample 3 with furniture as sample 134.

Fill in above transom with 44mm thick fanlight in one panel with rebated stiles and rails fitted with 19 x 12mm glazing beads fixed with panel pins. Hang fanlight to open in on a pair of 75mm approved butt hinges and fit with brass fanlight opener as sample 62.

Frame to be 114 x 76mm rebated and angle rounded stiles and headrail with twice rebated transom framed in for fanlight.

1361

DOOR/S WITH PRESSED STEEL FRAME/S (FRAMED LEDGED AND BRACED) WITHOUT FANLIGHT/S:

The external door/s shown on drawing/s or as mentioned to be 40mm thick framed, ledged and braced with 40mm thick stiles and top rail 20mm thick middle and bottom ledges and braces. Stiles and top rails to be grooved for and filled in with 20mm thick tongued, grooved and V-jointed boarding, twice countersunk screwed to ledges from inside all as described in clause 8.33 of OW 371 .

Hang door/s on butts supplied with frame/s as specified under "Metalwork", and fit with 75mm lock as sample 3 and furniture as sample 134.

1362

DOOR/S WITH PRESSED STEEL FRAME/S (FRAMED AND LEDGED COVERED ON INSIDE) WITHOUT FANLIGHT/S:

The external door/s shown on drawing/s or as mentioned, to be 40mm thick framed and ledged door/s with 40mm thick stiles and top rail and 14mm thick middle and bottom ledges. The edges of stiles and top rail to be rebated and grooved for and filled in with 20mm thick tongued, grooved and V-jointed boarding, twice countersunk screwed to each ledge, all as described in clause 8.33 of OW 371.

The inner edges of stiles and top rail to be rebated for on inside and filled in with 6mm thick plywood panel, faced with veneer to match, glued and pinned on.

Hang door/s on butts supplied with frames as specified in

"Metalwork", and fit with 75mm lock as sample 3 and furniture as sample 134.

1363

DOOR/S WITH PRESSED STEEL FRAME/S (FRAMED AND LEDGED COVERED ON INSIDE) WITH FANLIGHT/S:

The external door/s shown on drawing/s or as mentioned, to be 40mm thick framed and ledged doors with 40mm thick stiles and top rail and 14mm thick middle and bottom ledges. The edges of stiles and top rail to be rebated and grooved for and filled in with 20mm thick tongued, grooved and V-jointed boarding, twice countersunk screwed to each ledge, all as described in clause 8.33 of OW 371.

The inner edges of stiles and top rail to be rebated for on inside and filled in with 6mm thick plywood panel, faced with veneer to match, glued and pinned on.

Hang door/s on butts supplied with frame/s as specified in "Metalwork", and fit with 75mm lock as sample 3

and furniture as sample 134.

Fill in above transom with 40mm thick fanlight in one panel with rebated stiles and rails fitted with glazing beads.

Gang fanlight/s to open in on hinges supplied with frame/s and fit with brass fanlight opener as sample 62.

1364

DOOR/S IN TWO LEAVES AND WOODEN FRAME (FRAMED AND LEDGED AND COVERED ON INSIDE) WITHOUT FANLIGHT/S:

The door/s shown on drawing/s are to be in two leaves hung folding with rebated and beaded meeting stiles. Each leaf to be framed and ledged with 114 x 44mm stiles and top rail, 150 x 16mm middle ledge and 228 x 16mm bottom ledge. The edges of stiles and head rail to be rebated and grooved for and filled in with 22mm thick tongued, grooved and V-jointed boarding, twice countersunk screwed to each ledge from inside, all as described in clause 8.33 of OW 371.

The inner edge of stiles and top rail to be rebated for on inside and filled in with 6mm thick plywood panel faced with veneer to match, glued and fix with panel pins.

Drill hole in concrete threshold and grout in a short length of copper pipe in 3:1 cement mortar, as keep for bolt.

Hang each leaf on a pair and a half 102mm butt hinges as sample 84 and fit 75mm lock as sample 3 and furniture as sample 134. Fit one leaf of each pair of doors with 28mm barrel bolt as sample 28 and 200mm necked socket bolt as sample 40.

The frame to be 114 x 76mm rebated and angle rounded with stiles neatly toned into head and securely glued, clamped wedged and dowelled together. To bottom of each stile provide a 12mm diameter mild steel dowel, 152mm long and set 76mm into stile.

1365

DOOR/S IN TWO LEAVES WITH PRESSED STEEL FRAME/S (FRAMED LEDGED AND BRACED):

The door/s as shown on drawing or as mentioned, to be 40mm thick framed, ledged and braced doors in two leaves, hung folding, with 114mm wide stiles and head rails 228 x 20mm thick centre and bottom ledges and 114 x 20mm thick braces.

The inner edges of stiles and top rail of each leaf to be grooved for and the door filled in with 20mm thick tongued, grooved and V-jointed, both sides, boarding in narrow widths, rebated on edges and top ends and fitted into grooves in frame and each board twice countersunk screwed to each ledge and brace from inside. The abutting edges of stiles and head rail with boarding to be V-jointed, all as described in clause 8.33 of OW 371.

Drill hole in concrete threshold and grout in a short length of copper pipe in 3:1 cement mortar, as keep for bolt.

Hang each leaf on butts supplied with frame as specified in "Metalwork", fit with 75mm lock as sample 3 and furniture as sample 134. Fit one leaf of each pair of doors with 200mm barrel bolts as sample 28.

1366

CHIP CORE DOOR/S PRESSED STEEL FRAME/S, WITH FANLIGHTS:

The internal door/s shown on drawing/s or as mentioned are to be 40mm thick chip core doors as described in clause 8.33 of OW 371, faced both sides with veneer as specified.

Hang door/s to butts supplied with frames as specified in "Metalwork" and fit 75mm locks as sample 3 and

furniture as sample 134.

Fill in above transom with 40mm thick fanlight in one panel with rebated stiles and rails fitted with glazing beads. Hang fanlights on butts supplied with frames and fit fanlight opener as sample 62.

1367

Both sides finish off with hardwood veneer.

1368

Both sides finish off with veneer suitable for painting.

1369

CHIP CORE DOOR/S (PRESSED STEEL FRAME/S WITHOUT FANLIGHT/S):

The internal door/s shown on drawing/s or as mentioned, are to be 40mm thick chip core doors as described in clause 8.33 of OW 371, faced both sides with veneer as specified.

Hang door/s on butts supplied with frames, as specified in "Metalwork" and fit 75mm locks as sample 3 and furniture as sample 134.

1370

Both sides finish off with hardwood veneer.

1371

Both sides finish off with veneer suitable for painting.

1372

SOLID LAMINATED FLUSH DOOR/S (PRESSED STEEL FRAME/S WITH FANLIGHT/S):

The internal door/s shown on drawing/s or as mentioned are to be 40mm thick solid laminated flush door/s as described in clause 8.33 of OW 371, faced both sides with veneer as specified.

Hang door/s on butts supplied with frame/s, as specified in "Metalwork" and fit 75mm locks as sample 3 and furniture as sample 134.

Fill in above transom with 40mm thick fanlight in one panel with rebated stiles and rails fitted with glazing beads.
Hang fanlight/s to open in on butts supplied with frame and fit fanlight opener as sample 62.

1373

Both sides finish off with hardwood veneer.

1374

Both sides finish off with veneer suitable for painting.

1375

SOLID LAMINATED FLUSH DOOR/S (PRESSED STEEL FRAME/S WITHOUT FANLIGHT/S):

The internal door/s shown on drawing/s or as mentioned, are to be 40mm thick solid laminated flush doors as described in clause 8.33 of OW 371, faced both sides with veneer as specified.

Hang door/s on butts supplied with frame/s as specified in "Metalwork" fit 75mm locks as sample 3 and furniture as sample 134.

1376

Both sides finish off with hardwood veneer.

1377

Both sides finish off with veneer suitable for painting.

1378

STABLE PATTERN DOOR/S AND FRAME/S:

Provide and fit to frame/s stable pattern door/s, 44mm thick framed and ledged in two sections with rebated meeting edges. Each portion to be formed with 114mm stiles and top rail with 225 x 22mm thick bottom ledge. The inner edges of stiles and top rail to upper and lower portions of door to be grooved for and filled in with 22mm thick boarding in narrow widths, tongued, grooved and V-jointed on outside, rebated on sides and top ends and each board twice countersunk screwed to ledges of upper and lower portions of door.

Each portion to be fitted on the inside with panel of approved 6mm thick plywood, faced one side with veneer suitable for painting, glued and pinned into rebates formed in framing.

Hang each portion of door on a pair of 102mm butts as sample 84, and fit upper portion of door with mortice lock and furniture as sample 18 and fit lower portion of door with one 150mm long barrel bolt as sample 28.

Frame to be 114 x 76mm rebated and arris rounded.

1379

DOOR/S AND FRAME/S TO LATRINES:

The door/s shown on drawing or as mentioned to be formed with 76 x 22mm thick tongued and grooved boarding, V-jointed on both sides and 152 x 22mm thick bevelled edge ledges and braces twice countersunk screwed at each intersection of boards.

The frame/s to be 114 x 76mm stop rebated and angle rounded stiles, framed to continuous head rail with angle rounded and one rebated and weathered transom framed between stiles. The stiles to the openings above the transom to be grooved for and filled in with 22mm louvre blades, set on angle of 45 degrees, arris rounded on front edges and splayed on back edges.

Hang each door on a pair of band hinges as sample 111 and fit to each door a 100mm barrel bolt as sample 28.

1380

SCREEN DOOR (IN TWO PANELS):

Provide screen door, in two panels, fix to external door frame as shown or as mentioned, constructed of 76 x 32mm thick hardwood stiles and head rail, 150 x 32mm thick middle and bottom rails.

Cover the screen door with approved gauze, with lower panel in addition covered with galvanised bird mesh, finish off edges with 19mm half round beads.

Hang door on a pair of single action 100mm "Bommer" hinges (one spring and one blank) and fit 102mm bow handles to both sides of door as sample 90.

1381

Provide to existing door frame, framework for screen door, constructed of 50 x 32mm thick hardwood stiles and head rail, securely screwed to door frame.

1382

Allow to take off existing screen door and frame and remove from site.

1383

SCREEN DOOR (IN THREE PANELS):

Provide screen door, in three panels, fix to external door frame as shown or as mentioned, constructed of 76 x 32mm thick hardwood stiles-, top- and intermediate rails.

Cover the top two panels with approved gauze and in addition covered with galvanised bird mesh, finish off edges with 19mm half round beads.

The framework of lower panel to be rebated on both sides, twice diagonally braced and covered both sides with 4mm thick tempered hardboard, let into rebate flush with and nailed to framing and joints covered with 19mm half round beads, neatly mitred at corners and securely spiked to framing.

1384

Hang door on a pair of 76mm butt hinges as sample 84 and fit to both sides of door 102mm bow handles as sample 90 and 127mm approved helical door spring.

1385

Provide to existing door frame, framework for screen door, constructed of 50 x 32mm thick hardwood stiles and head rail, securely screwed to door frame.

1386

Allow to take off existing screen door and frame and remove from site.

1387

REPLACE DOOR/S:

Remove existing defective and broken doors. Remove lock/s and furniture and store for re-use. New door/s are to be as described below:

1388

Provide and hang on existing hinges, screwed with new screws, new solid laminated flush door/s as described in clause 8.33 of OW 371 . Refit existing lock/s and furniture stored for re-use, adjust striking plates and leave in working order.

1389

Provide and hang on existing hinges, screwed with new screws, new chip core flush door/s as described in clause 8.33 of OW 371. Refit existing lock/s and furniture stored for re-use, adjust striking plates and leave in working order.

1390

Provide and hang on existing hinges, screwed with new screws, new hollow core flush door/s as described in clause 8.33 of OW 371. Refit existing lock/s and furniture stored for re-use, adjust striking plates and leave in working order.

1391

Provide and hang on existing hinges, screwed with new screws, new softwood framed and ledged batten door/s as described in clause 8.33 of OW 371. Refit existing lock/s and furniture stored for re-use, adjust striking plates and leave in working order.

1392

Provide and hang on existing hinges, screwed with new screws, new hardwood framed and ledged batten door/s as described in clause 8.33 of OW 371. Refit existing lock/s and furniture stored for re-use, adjust striking plates and leave in working order.

1393

Quantity:

1394

DOOR FRAME/S (REPLACE):

Provide new wooden door frame/s, for those which must be replaced to match existing.

1395

Provide new wooden door frame/s with fanlight, for those which must be replaced to match existing.

1396

DOOR AND FRAME COVERED WITH SHEET IRON (BOTH SIDES):

Cover the door on both sides and all edges and the frame on reveals, rebates and edges with 0,60mm thick galvanised sheet iron, riveted and soldered at all joints, neatly and sharply bent around edges of door, into rebates and around edges of frame. The sheet iron is to be secured with 19mm long countersunk screws spaced at not more than 225mm apart in any direction, except on edges of door where they are to be spaced at not more than 150mm centres. All screw heads to be flush soldered over.

1397

DOOR AND FRAME COVERED WITH SHEET IRON (ONE SIDE ONLY):

Cover the door on one side only and all edges and the frame on reveals, rebates and edges with 0,60mm thick galvanised sheet iron, riveted and soldered at all joints and neatly and sharply bent around edges of door, into rebates and around edges of frame. The sheet iron is to be secured with 19mm long countersunk screws spaced at not more than 225mm apart in any direction, except on edges of door where they are to be spaced at not more than 150mm centres. All screw heads to be flush soldered over.

1398

DOOR/S COVERED WITH SHEET IRON (DOORS ONLY):

Cover the door/s with 0.60mm thick galvanised sheet iron, riveted and soldered at all joints and neatly and sharply bent around edges of door. The sheet iron is to be secured with 19mm long countersunk screws spaced at not more than 225mm apart, except on edges of door where they are to be spaced at not more than 150mm centres. All screw heads to be flush soldered over.

1399

Door/s to be covered both sides.

1400

Door/s to be covered on one side only.

1401

WEATHER MOULDS:

External door/s shown on drawings or as mentioned are to be splay grooved and fitting with 76 x 38mm splayed and throated weather mould/s, bedded in groove in door in thick white lead and screwed to door with heads of screws sunk and pelleted.

1402

REPLACE WEATHER MOULD/S:

Remove the existing weather mould/s to external door/s prepare for and fix new 76 x 38mm hardwood splayed and throated weather mould/s, bedded in groove in door in thick white lead and screwed to door with heads of screws sunk and pelleted.

Quantity:

1403

ANGLE MOULD/S TO WOODEN DOOR FRAME/S:

To stiles and head/s of frame/s to external door/s fix 19mm quadrant angle mould/s, to both sides, of same timber as frames to which they are fixed.

1404

DOOR STOP/S:

Provide and fix door stops as sample 150 to floors where specified, securely screwed to timber or fibre cement plugs.

Quantity:

1405

WOODEN CAPPINGS TO W.C. WALLS:

Finish on top of low half brick W.C. walls and on top of door frames, with 190 x 32mm thick hardwood cappings, securely screwed to plugs in walls. At junctions of underside of cappings with walls fix 12mm quadrant moulds secured to cappings.

1406

SCREEN DOORS (REPAIR):

Ease and adjust doors, refix loose hinges and handles.

1407

Allow for the replacement of the necessary items as specified below:

1408

SCREEN DOORS (REPAIRS):
Take down gauze, bird wire mesh and beading and remove from site. Provide and cover doors with new gauze and bird wire mesh and cover edges of gauze with new 25mm half round beading. Adjust doors, refix

hinges and handles.

1409

Allow for the supply and replacement of the necessary items as specified below:

1410

COUNTER:

Provide and fit up a counter where and of the sizes shown on drawings.

The counter to be constructed out of 32mm thick hardwood top fixed to framing under and set projecting as shown.

Framing to be of softwood, spaced as shown and fixed to wall, which forms the front as previously specified and to floor to approval, complete with cupboards, drawers, shelves and furniture as shown, and neatly finished off with skirtings and quadrant at intersections.

Where shown, counter to be provided with flap of same timber and width as top, hung on a pair of 102mm hinges as sample 84 and fitted underneath with 100mm barrel bolt as sample 28.

1411

BUILT-IN WARDROBE/S IN BEDROOM/S:

Provide built-in wardrobe/s in bedroom/s where indicated or mentioned. The wardrobe/s to be divided in sections as indicated or mentioned, formed with continuous top shelf, vertical partition/s and intermediate shelves of 21mm thick blockboard, finished with hardwood veneer, as described in clause 8.30 of OW 371

Shelves to be supported on planed softwood bearers of 50 x 25mm thick, screwed to plugs in wall/s or vertical partition/s.

Provide 20mm diameter chromium-plated brass hanging rod/s. The ends to be supported on hardwood blocks, size 76 x 76 x 25mm thick, holed for hanging rod, screwed to wall/s or vertical partition/s.

Provide wardrobe/s with hollow core doors, finished with hardwood veneer, as described in clause 8.33 of OW 371.

Hang doors on butts supplied with frames as specified later in "Metalwork".

One leaf of double doors to be provided with 102mm necked socket bolt, screwed to top and bottom of leaf and fix external, a dummy handle/s to match locking push button. The other leaf to be fitted with locking push button cupboard catch as sample 56.

1412

CUPBOARD DOORS AND DRAWERS (EXAMINE):

Examine and adjust cupboard doors and counter drawers. Refix all loose items such as locks and furniture.

1413

Allow for the replacement of the necessary items as specified below:

1414

REFIT DOORS:

Doors are to be finished off to open and close freely. Oil hinges and service locks and lock furniture. Where cylinder type locks occur, the lock shall be properly cleaned and treated with graphite.

1415

WOODEN WINDOWS AND FANLIGHTS (REPAIR):

Ease and adjust and refix all loose stays, hinges and catches.

1416

Allow for the replacement of the necessary items as specified below:

1417

Allow for taking down, repair and re-fixing of the items as specified below:

1418

WOODEN CURTAIN PELMETS (REPLACE):

Take down existing wooden pelmets and remove from site. Provide and fix stock steel pelmets of approved manufacture as described in clause 13.9 of OW 371.

1419

VENETIAN BLINDS (SUPPLY AND FIX):

Provide Venetian blinds to the windows specified. The blinds are to be of the head box type, each comprising metal head box containing tilting and lifting mechanism, horizontal metal slate adjustable to various angles, metal bottom rail, tapes, cords and installation brackets complete and fitted with grommets and anti-flutter tapes, all as described in SABS Specification 947.

1420

VENETIAN BLINDS (FIXING ONLY):

Taking delivery of Venetian blinds at the nearest railway station or railway road service bus stop and carting to site, as supplied by the Department of Public Works.

Allow for fixing only the brackets of Venetian blinds, including the fixing of hooks onto window sills and apply Venetian blinds in position as shown or mentioned.

1421

VENETIAN BLINDS (REPAIRS):

Carefully examine all Venetian blinds to windows. Securely refix all loose brackets, and cleat hooks and leave in perfect working order.

Clean all slats and head boxes to Venetian blinds, using a suitable detergent to remove all dust, spots and dirt.

1422

Allow for the supply and replacement of the necessary items as specified below:

1423

REFIX WOODWORK TO WALLS (INTERNALLY):

Examine all loose skirtings, picture rails, architraves, quadrants, pelmets and all other wooden items fixed to walls and securely refix, using new plugs and longer screws.

1424

PICTURE RAILS:

To the walls of rooms on drawings shown, to have picture rails or as mentioned, fix 50 x 25mm splayed angle rounded and hollowed picture rails, neatly mitred at angles and securely fixed to plugs in walls.

1425

NOTICE BOARDS (WITHOUT DOOR):

Provide and fix in position shown, a notice board of sizes shown or specified, formed out of 19mm thick blockboard back, covered on front with 6mm thick approved cork-based board pasted on to back and finished round edges with 32 x 19mm thick twice arris rounded hardwood beads, glued and pinned on. Hang board to wall with brass plate hangers, screwed to back of board and to plugs in walls.

1426

NOTICE BOARD (WITH DOORS):

Provide and fix in position where specified, a notice board of the sizes shown or specified, formed out of 76 x 38mm thick hardwood framing, rebated on inner edges for and fitted with 19mm block board back, glued and pinned to framing. Cover face with 6mm thick "Bulletin-board" or similarly approved cork-based board, pasted into back. Fill in front of framing with a hardwood door in two leaves, with 12 x 10mm glazing beads, mitred at corners and fixed with springs.

Hang each leaf of door on a pair of 50mm brass butts and fit one leaf of door with two approved 150mm brass necked bolts and other leaf with 64mm brass lock as samples 72, 40 and 50 respectively. Glaze the doors with 4mm thick clear glass as clause 17.1 of OW 371 . Hang board to wall with brass plate hangers, screwed to back of board and to plugs in walls.

1427

PINNING BOARD (LARGE BOARD):

Provide and fix pinning board in position and according to the size as shown or as mentioned, constructed out of 50 x 25mm thick angle rounded hardwood surrounds, rebated to receive the pinning board and neatly mitred.

1428

Provide approved cork-based board, 6mm thick, glued to wall surface with approved adhesive.

1429

Provide 13mm thick softboard, nailed to wall surface with suitable length 2mm thick galvanised or cadmium plated clout headed nails.

1430

The hardwood surrounds must be screwed to wall with suitable length screws into hardwood plugs in wall, after the board has been fixed.

1431

PINNING BOARD (HUNG ON PLATE HANGERS):

Provide and fix pinning board in position and according to the size as shown or as mentioned, constructed out of 65 x 25mm thick angle rounded hardwood surrounds, rebated to receive the pinning board and neatly mitred, glued and pinned.

1432

Provide 13mm thick blockboard back, covered on front with 6mm thick approved cork-based board pasted into backboard. Lay pinning board in rebate of framing and screwed to framing with suitable length screws.

1433

Provide and fill framing in with 13mm thick softboard, securely nailed to framing with suitable length 2mm thick galvanised or cadmium plated clout headed nails.

1434

Hang the pinning board to wall surface with suitable copper plate hangers, screwed to framing and into hardwood plugs in wall.

1435

NOTICE BOARDS (PLASTIC):

Supply and fix notice boards each manufactured from approved plastic material complete with mounting brackets.

Notice boards are to be not less than 6mm thick with black surface and with engraved white lettering 20mm high in both official languages as detailed on drawings or as specified.

The notice boards are to be securely fixed with raised headed screws and cup washers where shown or mentioned.

1436

The notice boards must be of suitable length and width to suit the following wording:

1437

NOTICE BOARDS ("PERSPEX"):

Provide notice boards where shown or mentioned, constructed with 6mm thick "Perspex" or other similar and approved material, engraved from the back with 38mm high lettering. The colour of notice boards and lettering must be as mentioned below or as determined on site.

Screw notice boards to doors or door frames as directed on site, with four dome-capped screws.
The notice boards must be of suitable length and width to suit the following wording:

1438

BACKBOARDS FOR FIRE EXTINGUISHERS:

Provide and fix hardwood boards, size 680 x 127 x 25mm thick, angle rounded on exposed edges and securely screwed to plugs in walls.

1439

CUPBOARDS FOR FIRE EXTINGUISHERS:

As described in clause 16.60 of OW 371.

1440

Allow for the removal of existing fire extinguishers and remove from the site.

1441

SHELVING:

Provide and fix in position and to the widths, lengths and spacing, shown on drawing or as mentioned, 21mm thick block board shelves, finished on both sides and on edges with approved veneer. Shelves to be notched, as required to standards and standards fixed to plugs in walls.

SUPPORTS: 76 x 38mm framed standards at maximum of 900mm centres supported at the ends on 50 x 22mm cleats, screwed to plugs in wall and intermediate supports to be black Japanned shelf brackets, fixed to 50 x 22mm standards.

1442

SKIRTINGS AND ANGLE MOULDS:

To all floors specified, provide 76 x 22mm thick skirtings, mitred at angles and securely fixed to plugs in walls, and at junctions of skirtings and floors, fix 19mm quadrant angle moulds, neatly mitred at angles, close fitted and securely fixed, to skirtings.

1443

Allow for removal of the existing skirtings and angle moulds where shown or as mentioned.

1444

ANGLE MOULDS TO FLOORS;

Provide and fix to the floors shown or specified 19mm quadrant angle moulds, neatly mitred at angles and securely fixed to skirting.

1445

WOOD AND IRON BUILDINGS (REPAIR WALLS):

Examine the corrugated iron covering to the walls of the buildings specified and carry out the repairs as required. Re-secure all loose sheets with longer screws. Beat into corrugations all damaged or buckled edges. Side laps found in condition beyond beating into position are to fixed in position with self-tapping screws.

1446

Allow for replacing the items hereafter specified.

1447

PURLINS AND ROOFING SHEETS (REPLACE PORTIONS OF ROOFS):

Take down portions of roofing sheets and purlins as shown or mentioned and remove from site. Provide and fix new sheets and purlins to match existing.

1448

Roofing sheets:	Square metres:
Purlins:	Lineal metres:

1449

PURLINS (REPLACE PORTIONS OF ROOF):

Carefully take down the roofing sheets specified and store for re-use. Take down the purlins specified and remove from site. Provide and fix new purlins to match existing. Trim as required and solder screw holes in the sheets stored for re-use and fix in same original position.

Lineal metres:

1450

PURLINS (REPLACE ENTIRE ROOF):

Strut as required to existing trusses in position, and take down all existing purlins and remove from site. Provide and fix in position, new 75 x 50mm purlins fixed on edge with 76 x 76mm splayed purlins at eaves. Securely spike and tie down purlins to trusses with 4mm galvanised wire as described in clause 8.19 of OW 371.

1451

WOODEN POSTS OF VERANDAH (REPLACE WITH WOOD):

Take down existing posts and remove from site. Provide new posts to match existing, cut to length to suit the height between headrail and stoolings or floor level, fix to headrail with a pair of 32 x 6mm thick mild steel angle iron brackets 228mm girth to each post let in flush with face of post and headrail and securely screwed to rail and posts. Provide to bottom of each post 32 x 6mm thick mild steel angle iron plate, 300mm long, let in flush with face of post, securely screwed thereto and built into surface bed with 3:1 cement mortar.

1452

RE-SURFACING OF WOODEN FLOORS:

Punch down nails to strip flooring where necessary.

Sandpaper floors with a sanding machine to a smooth and even surface in accordance with SABS Code of Practice 043-1973. Prepare floors and apply one sealer coat and one coat of wax polish well rubbed in.

1453

STRIP FLOORING (REPLACE ENTIRE):

Take off skirtings and quadrants, in rooms where shown or as mentioned, and store for re-use.

Take up existing boards and remove from site. Prepare for and lay new floor boards to match existing.

1454

Refix the skirtings and quadrants stored for re-use to original position.

1455

Supply and fix new 76 x 19mm thick skirtings and 19mm quadrants to match existing.

1456

REPLACING FLOOR BOARDS IN PATCHES:

Cut as required and remove boards from site. Prepare and lay new boards to match exiting and:

1457

Level off boards to match existing.

1458

Traverse the whole floor with a drum sanding machine.

1459

REPLACE WOODEN SKIRTINGS:

Remove all rotted and damaged sections of skirtings. Provide and fix new skirtings to match existing. Fix new skirtings with approved hardened steel nails at not exceeding 450mm centres.

1460

Lineal metres:

1461

Room/s:

1462

REPLACE QUADRANTS:

Remove all rotted and damaged sections of quadrants. Provide and fix new quadrants to match existing. Fix new quadrants with approved panel pins at not exceeding 450mm centres.

1463

Lineal metres:

1464

Room/s:

1465

SKIRTINGS (REPLACE WITH WOOD):

Take off skirtings specified and remove from site. Make good plaster and provide and fix 76 x 19mm skirtings, mitred at angles and securely fixed to plugs in walls. At junctions of skirting and floors fix 19mm quadrant angle moulds, neatly mitred at angles, close fitted and securely fixed to skirtings.

1466

COVERS TO FLOOR DUCT:

The covers to duct in floor are to be in 914mm lengths, each length formed with 22mm thick approved hardwood boards closely jointed together and with two 76 x 25mm thick hardwood battens screwed on to underside. Fit each length with 38 x 29mm flush lifting ring as sample 197, let in flush and screwed on.
Sand the covers and apply a coat of penetrating sealer and polish as described in clause 10.2 of OW 371.

1467

COURT FURNITURE (GENERALLY):

All exposed wooden surfaces of court furniture, unless otherwise specified, to be Iroko, and where not exposed, unless otherwise specified, shall be SA softwood, all as clause 8.26 of OW 371. Clause 8.27 of OW 371 is also applicable to all joinery work. All particle board to be of a interior quality as described in clauses 8.30 of OW 371.

1468

MAGISTRATES BENCH (TYPE DRAWING JUS 001/2):

The Magistrates Bench is to be constructed to form and sizes shown on detail drawings, with platform constructed with 25mm thick blockboard floor panels supported on and fixed to sawn softwood bearers of size shown at 450mm centres reinforced with cross braces. The floor panels to project over framing under and the floor to be covered on top with blemish free synthetic fabric type floor covering of first Class quality fixed with adhesive strictly in accordance with the manufacturer's instructions.

Provide in the platform in position where shown a 400 x400mm removable floor section.

Finish the front of platform floor with 25mm thick particle board securely nailed to framing.

Form the five panels to the front of Magistrate's Bench with softwood framing to sizes shown, all properly framed and screwed together. Cover the front face of magistrate's Bench with 32mm thick particle board panels, finished both sides with hardwood veneer and securely screwed in position from the back through framing. The panels to be provided with recessed hardwood lipping at each end as shown on drawings.

Form the five panels at the back with 19mm thick particle board finished on both sides with laminated plastic covering of approved colour. The panels to be securely screwed from the front and the plastic finish to each panel is to be secured to each panel with adhesive as recommended by the manufacturer of the plastic covering.

Form the bench top with 19mm thick particle board, finished on both sides with plastic covering as before and with panels grooved around edges for cross tonguing securely glued to framing, all as shown on detail drawings.

Finish the top at junctions with panels with 115 x 76mm thick hardwood rail securely fixed in position.

Provide and fit under bench top drawers to sizes shown on drawings, constructed with 25mm thick hardwood front of depth shown and 12mm thick hardwood sides and back dovetailed at angles and with front and sides grooved for bottom of 6mm thick plywood, fitted in grooves and nailed to underside of back. Provide the necessary hardwood rails and stops, glued and screwed in position and provide two suitable drawer stops for each drawer. Each drawer to be fitted with drawer lock as sample 54 with sunk flush escutcheon and pull handle as sample 94.

Form the rest of the panels on both sides of the above specified panels, with framing constructed of softwood to sizes shown on drawings, with top longitudinal rail of hardwood, all properly framed and screwed together. Cover the front of each panel with dark brown hessian, securely fixed to framing with approved adhesive. The hessian to be covered with arris rounded battens, of sizes and spacings as shown and securely screwed through framing from the back.

Finish the back of each panel with 19mm thick particle board, having laminated plastic finish as before and fill the cavity between the front and back panels with glass fibre or mineral wool insulation all as shown on detail drawings.

1469

TABLE WITHOUT CUPBOARD (TYPE DRAWING JUS 001/3):

The table to be constructed to the form and sizes shown on detail drawings, with framing constructed of hardwood standards, top and bottom rails to sizes shown and with top rails provided with recess around table top and grooved for cross tonguing to table top, all properly framed together.

The framing to be grooved around the inside and filled in with 32mm thick particle board panels, tongued for and fitted into grooves in framing with particle board panels finished on both sides with laminated plastic covering of approved colour. Form the table top with 19mm thick particle board, finished on both sides laminated with plastic covering as before and with panels grooved around edges for cross tonguing securely glued to framing, all as shown on detail drawings.

1470

TABLE WITH LECTERN (TYPE DRAWING JUS 001/4):

The table with lectern to be constructed to the form and sizes shown on detail drawings, with framing constructed of hardwood standards, top and bottom rails to sizes shown and with top rails provided with recess around table top and with table top and top rails grooved for cross tonguing as shown. Form the table top with 19mm thick particle board, finished on both sides with laminated plastic covering and with table top grooved round edges for cross tonguing, all as shown.

Form cupboard to the underside of table top with 32mm thick particle board, finished on both sides with laminated plastic covering recessed as required and securely framed together.

Form the framing to top of lectern with 47 x 22 x 1,6mm thick hollow mild steel tubing, cut to similar angle and securely welded to vertical standard as shown. Finish the framing under top of lectern with cross rail of similar mild steel tubing as before welding on in position shown. Close the exposed ends of tubing with mild steel sheet 1,6mm thick welded in position, all welding to be cleaned off smooth.

Provide a 120 x 1,6mm thick mild steel strap neatly folded around tubular lectern standard as shown and four times holed for and screwed to hardwood framing from behind.

Provide height adjustment to lectern as shown with hardwood framing holed for 6mm diameter removable brass pin formed into an eye at one end passed through metal standard holed with 6mm holes at 50mm centres measured from fully collapsed position.

All mild steel metalwork to be finished with enamel paint of dark brown or other suitable colour to blend with plastic covering.

Form the top of lectern with 19mm thick particle board, finished on both sides with laminated plastic covering and provided with hardwood edging strips as shown. The top to be suitably tongued on top edge, to fit in groove of cover bead, later specified and with top fixed from the underside with four satin chrome raised head screws.

Provide and fix to front of lower and end of particle board top, a 50 x 22mm thick hardwood cover bead, grooved for and securely glued to top as shown on drawings.

1471

TABLE WITH CUPBOARD (TYPE DRAWING JUS 001/5):

The table for cupboard to be constructed to the form and sizes shown on details drawings, with framing constructed of hardwood standards, top and bottom rails to sizes shown and with top rails provided with recess around table top and grooved for cross tonguing to table top, all properly framed together.

The framing to be grooved around the inside and filled in with 32mm thick particle board panels, tongued for and fitted into grooves in framing and with particle board panels finished on both sides with laminated plastic covering of approved colour.

From the table top with 19mm thick particle board, finished on both sides with laminated plastic covering as before and with panels grooved around edges for cross tonguing securely glued to framing, all as shown on detail drawings.

Form cupboard to the underside of table top with 19mm thick particle board finished on both sides with hardwood veneer recessed as required and securely framed together. Provide cupboard with adjustable

shelf of 19mm thick particle board as above, supported on approved satin chrome or silver anodised aluminium sunk flush adjustable shelf supports at each end.

Fill in the front of cupboard with a pair of 32mm thick particle board doors having top edge of doors cut as indicated on detail drawing to form fingergrip. Finish the faces and edges of doors with laminated plastic covering, hang each door on a pair of concealed type satin chrome or silver anodised aluminium hinges as "MELPA" or other similar approved hinges and fit one door with cupboard lock as sample 54, complete with escutcheon.

Provide the other door with two 75mm long satin chromium-plated brass necked socketbolts as sample 28 one at bottom and one at top of door and with frame-work drilled for as required to keep bolts in locked position.

1472

TABLE WITH CUPBOARD (TYPE DRAWING JUS 001/6):

The table for cupboard to be constructed to the form and sizes shown on detail drawings, with framing constructed of hardwood standards, top and bottom rails to sizes shown and with top rails provided with recess around table top and grooved for cross tonguing to table top, all properly framed together.

The framing to be grooved around the inside and filled in with 32mm thick particle board panels, tongued for and fitted into grooves in framing and with particle board panels finished on both sides with laminated plastic covering of approved colour.

Form the table top with 19mm thick particle board, finished on both sides with laminated plastic covering as before and with panels grooved around edges for cross tonguing securely glued to framing, all as shown on detail drawings.

Form cupboard to the underside of table top with 19mm thick particle board finished on both sides with hardwood veneer recessed as required and securely framed together. Provide cupboard with adjustable shelf of 19mm thick particle board as above, supported on approved satin chrome or silver anodised aluminium sunk flush adjustable shelf supports at each end.

Fill in the front of cupboard with 32mm thick particle board door having top edge of door cut as indicated on detail drawings to form fingergrip. Finish the door on both sides and edges with laminated plastic covering as before specified and hang door on a pair of concealed type satin chrome or silver anodised aluminium hinges as "Melpa" or other similar approved hinges.

Fit door of cupboard with cupboard lock as sample 54 provided with sunk flush escutcheon.

1473

PUBLIC BARRIER (TYPE DRAWING JUS 001/7):

The barrier to front and between public benches for Public Spaces in Courtroom to be constructed to the forms and sizes shown on detail drawings, with framing of 50 x 34mm softwood upright and bottom rail and 50 x 34mm thick hardwood top rail, all properly framed together and at door opening the framing is to be fitted with 45 x 45 x 2,92mm thick tubular mild steel post securely bolted to framing with M10 hexagonal bolts, each provided with washer and nut and in the position shown on detail drawings.

Provide the barrier with two 31,75 x 31,75mm thick x 1040mm long mild steel intermediate posts bolted to framework as before specified for tubular mild steel post.

Provide at bottom of each mild steel post and intermediate posts a 150 x 150 x 6mm thick base plate, neatly welded on, and with each plate four times holed for and bolted to concrete floor with M10-expansion bolts as shown.

The end posts to be strengthened with 50 x 6mm thick mild steel flat bar drilled and countersunk for and

firmly fixed to wooden standards with countersunk headed screws. The barrier must be firmly fixed to end mild steel tubular posts with two M10-bolts with nuts and washers through holes. The barriers to be fixed to tubular mild steel posts with three M10-bolts with nuts and 70 x 70 x 3,17mm thick mild steel flat washers, one on each side equally spaced and fixed as shown on drawing. All holes for bolts to be drilled on site after the posts and barriers have been lined up. Mild steel washers may be used as spacers where minimal adjustments are required.

Cover the mild steel tubular intermediate posts with 80 x 20mm thick rebated hardwood cover strips recessed for nuts of bolts as shown and securely nailed to framework in position with panel pins at not more than 150mm centres.

Form the frames at door openings with 90 x 19mm and 90 x 34mm thick hardwood stiles with stiles recessed for nuts of bolts as shown and securely screwed to framing with countersunk head screws, with head of screws sunk and filled in with hardwood pellets.

Cover the barrier framing all around on both sides, except where door openings occur, with hessian and hardwood battens all as generally specified for Magistrate's Bench and fill the cavity between the two thicknesses with insulation as before.

Fill each door opening in with a 32mm thick chipcore flush panel door as clause 8.33 of OW 371, finished on both sides and exposed edges with laminated plastic covering as before specified for Magistrate's Bench. Hang each door on a pair of 75mm satin chromed brass or silver anodised aluminium hinges and fit door on the inside with a similar finished 150mm long barrel bolt as sample 28 and with door stile hold as required to form keep for barrel bolt.

Provide and fix to each door stile as shown on drawings a 50 x 19mm thick hardwood door stop screwed in position with countersunk head screws, and with heads of screws filled in with hardwood pellets. The door stops are each to be fitted with rubber or plastic door checks each full height of door stop and securely fixed with suitable adhesive as shown on detail drawing.

The barrier is to be fixed to finished floor through mild steel bottom rail as specified for stiles to framework with M10-expansion bolts embedded in concrete surface bed in cement mortar and all as indicated on detail drawings.

Finish the barrier on both sides except where door openings occur, with 3mm plywood skirting faced with laminated plastic as before specified.

1474

PUBLIC BENCHES (TYPE DRAWING JUS 001/8):

Provide and fix in the positions shown on drawings public benches according to the number and lengths shown, each constructed with 80mm wide x 31mm thick hardwood uprights, cross and longitudinal rails, and top rail, all properly framed together.

Form seat for each bench with 37mm thick laminated hardwood to sizes shown rounded on exposed edges and securely fixed with screws to framing through grooves to underside of framing. The seat to project 40mm over framing at front as shown.
Form the back rest of each bench with similar laminated hardwood 37mm thick and to sizes shown. Provide and fix between the back rest and top rail of framing a splayed hardwood filler piece to fix back rest at angle shown. The back rest to be fixed from the back through top rail and filler piece with heads of screws sunk and filled in with hardwood pellets.

Each bench to be fixed to floor through cross rail of framing with M10-expansion bolts, complete with washers and nuts and with bolts built into concrete surface bed with cement mortar as shown on detail drawings.

1475

DOCK (TYPE DRAWING JUS 001/9):

The dock to be of the form and sizes shown on detail drawings with framing at front and back of dock, constructed with 50 x 38mm thick softwood bottom and middle rails, 50 x 38mm thick uprights and 50 x 38mm hardwood top rail all spaced as shown and properly framed together and with cavity filled in with insulation as specified for Magistrate's Bench. Provide and fix to each end of framing at front where door opening occurs, a 70 x 32mm thick hardwood hanging stile securely fixed to framing and provide each end of framing at back with door meeting stile formed to sizes shown, securely framed together and fixed in position.

Cover both sides of framing on internal surfaces with laminated plastic covering of approved colour.

Provide and fix to external surfaces of framing at back and front of dock 40 x 20mm thick arris rounded battens, spaced as shown and as specified for Magistrate's Bench, including hessian covering.

Provide the dock with 215mm wide x 74mm thick arris rounded and rebated hardwood capping to serve as a handrail as shown on detail drawings, all securely fixed.

Fill each door opening in with 32mm thick chipcore flush panel door, finished on both sides and exposed edges with plastic laminated covering as before specified for Magistrate's Bench. Hang each door to swing both ways on one pair of approved satin chrome plated brass or silver anodised aluminium double action spring loaded hinges, each 75mm long and fit each door with spring catch as sample 67.

Lay floor of dock with 22mm thick blockboard floor panels supported under on 152 x 50mm thick sawn softwood floor bearers. The bearers are to be slotted size 25 x 25mm for electric cables in the positions shown. Cover the floor with soft floor finish as specified for Magistrate's Bench.

Form each removable panel in floor for access to floor mounted microphone switch to the sizes and position shown on detail drawings, having splay cut edges to panels and openings with one panel fitted with two approved satin chromed brass or silver anodised aluminium lifting rings.

The seat in dock to be constructed to the forms and sizes shown on drawings with 37mm thick laminated hardwood top and supports, with top properly fixed to supports with screws, with heads of screws countersunk and filled in with hardwood pellets.

Finish the dock all around with 13mm thick plywood skirtings with laminated plastic covering on outer faces, fixed in position with an approved adhesive.

1476

WITNESS BOX (TYPE DRAWING JUS 001/10):

The witness box to be constructed all as generally specified for dock, but of sizes shown and without doors at each end of box. In addition the battens on front face of box to be returned at each end as shown on drawings.

1477

RECORDING CABINET (TYPE DRAWING JUS 001/10):

The recording cabinet to be constructed to the forms and sizes shown on detail drawings, with sides, back and bottom constructed with 19mm thick particle board, finished both sides with hardwood veneer, recessed as required and provided with hardwood edging strips.

Fill in the front with particle board flap door, hung with approved satin chrome or silver anodised aluminium piano hinges, and fit door with pull handle as sample 94, also with approved satin chrome or silver anodised desk stays and magnetic catch all as shown on detail drawings. The cabinet to be fitted on the underside with four ball race type rolling wheels each approximately 50mm diameter.

1478

TABLE WITHOUT LECTERN:

The table without lectern to be constructed to the form and sizes shown on detail drawings, with framing constructed of hardwood standards, top and bottom rails to sizes shown and with top rails provided with recess around table top and grooved for cross tonguing to table top, all properly framed together.

Form the table top with 19mm thick particle board, finished on one side with laminated plastic covering and with panels grooved around edges for cross tonguing securely glued to framing, all as shown on detail drawings. The framing to be grooved around the inside and filled in with 38mm thick particle board panels, tongued for and fitted into grooves in framing and with particle board panels finished both sides with plastic covering as before.

1479

CLEANING OUT ETC.:

All shavings, cuttings and rubbish shall be cleaned out as they accumulate during the progress of the work.

1480

CEILINGS. PARTITIONS AND ACCESS FLOORING

1481

GYPSUM PLASTERING BOARD CEILINGS:

Provide 38 x 38mm brandering where shown or mentioned, fix to tie beams and ceiling joists, as described in clause 9.4 of OW 371.

Cover the ceilings with 6,4mm thick gypsum plasterboard, finish off with 50mm wide gypsum cover strips and 76mm gypsum cornices, as respectively described in clauses 9.5 and 9.6 of OW 371.

1482

FIBRE CEMENT CELLULOSE BOARD CEILINGS:

Provide 38 x 38mm brandering where shown or mentioned, fix to tie beams and ceiling joists, as described in clause 9.4 of OW 371.

Cover the ceilings with 6mm thick fibre cement cellulose board, finish off with 25mm wide half rounds, as described in clause 9.5 of OW 371.

1483

Provide and fix 76mm gypsum cornices, as described in clause 9.6 of OW 371.

1484

Provide and fix 38mm South African pine quadrants as cornices, neatly mitred at angles and securely fixed to walls and ceilings.

1485

TRAP DOOR IN CEILINGS:

Trim for and form trap door in ceiling, where shown or mentioned, as described in clause 9.7 of OW 371, covered on underside with board as for ceiling.

1486

CEILING INSULATION:

Provide and lay on ceiling surfaces insulation where indicated or mentioned, manufactured out of 75mm thick resin bonded glass fibre or rock mineral wool, as described in clause 9.8 of OW 371.

1487

REPAIR CEILINGS:

Refix to roof timbers, brandering and to walls all loose or sagging panels, cornices and cover strips, to all rooms to be renovated.

1488

GYPSUM PLASTERED BOARD, FIBRE BOARD OR FIBRE CEMENT CEILINGS (REPAIR WHERE WALLS WERE REMOVED):

Cut as required and remove panels adjoining the openings where walls were removed. Provide additional brandering to form panels to fit in with existing panels and cover with new material to match existing.

1489

REPLACE CEILING BOARDS (PANELS):

Remove defective section of ceiling panels where shown or mentioned.

Replace defective or missing brandering where necessary properly nailed to existing woodwork with 80mm wire nails.

1490

Provide and fix new gypsum plasterboard as described in clause 9.5 of OW 371. C

1491

Provide and fix new fibre board as described in clause 9.5 of OW 371 .

1492

Provide and fix new fibre cellulose board as described in clause 9.5 of OW 371.

1493

Joints between existing and new ceiling boards are to be covered with cover strips to match existing.

1494

Square metres:

1495

REPLACE ENTIRE EXISTING CEILINGS:

Carefully take down the cornices and ceiling boards to the ceilings where mentioned and remove from site.

1496

Nail up loose brandering. Replace broken or otherwise defective brandering. Provide additional brandering as required to suite the sizes of the new boards.

1497

Provide and fix new brandering as in clause 9.4 of OW 371 for plasterboard and fibre cement cellulose board ceilings.

1498

Provide and cover the ceilings with gypsum plasterboard as clause 9.5 of OW 371 and provide cornices as in clause 9.6 of OW 371.

1499

Provide and fix new fibre board as described in clause 9.5 of OW 371.

1500

Provide and cover the ceilings with fibre cement cellulose board as in clause 9.5 of OW 371.

1501

Room/s: .....

1502

Provide and fix 76mm gypsum cornices, as described in clause 9.6 of OW 371.

1503

Provide and fix 38mm South African pine quadrants as cornices, neatly mitred at angles and securely fixed to walls and ceilings.

1504

Provide and fix 100 x 38mm ceiling joists with 76 x 38mm runners and 50 x 38mm hangers as described in clause 8.21 of OW 371. Provide 38 x 38mm brandering and cover ceiling with gypsum plasterboard, including cornices and cover strips as respectively described in clauses 9.4, 9.5 and 9.6 of OW 371.

1505

Room/s: .....

1506

EAVES WITH SOFFIT COVERING:

To the ends of rafters projecting beyond face of wall, provide brackets formed with 76 x 38mm thick horizontal bearers and vertical hangers, all firmly spiked together at intersections of timbers and to ends of rafters. Cover the soffit thus prepared with fibre cement cellulose board, as clause 9.5 of OW 371. At junctions of walls and ceiling and to fascia boards, provide 19mm quadrant angle moulds, mitred at angles, close fitted and securely fixed.

1507

CEILINGS TO EAVES COVERING (REPLACE):

Replace the defective covering to eaves with new eave covering, including additional brandering if required, all to match existing.

Square metre:

1508

Replace defective quadrants and cover strips to eaves covering to match existing.

Quadrants Lineal metres:

Cover strips Lineal metres:

1509

CEILINGS TO EAVE COVERING (RE-FIXING):

Examine and securely refix in position all loose or sagging ceiling panels, match boarding, cornices, cover strips and quadrants.

1510

SPANDREL FILLING (WOOD):

The spandrel ends of verandahs are to be finished with 22mm thick tongued, groove and V-jointed boarding in narrow widths cut to shape and size and securely spiked to rafter and head rail returns. At junction of wall and at bottom ends of boarding fix 19mm quadrant angle moulds, neatly mitred at angles close fitted and securely fixed to boarding and rails.

1511

Allow for taking down of existing tongued and grooved boarding.

1512

SPANDREL FILLING (FLAT FIBRE CEMENT SHEETS):

Spandrel ends of verandahs are to be finished with 6mm thick fibre cement sheeting as clause 8.24 of OW 371 cut to the required shape and sizes, close fitted to walls and to underside of roof coverings and securely fixed to rafter and head rail.

1513

Allow for taking down of existing tongued and grooved boarding.

1514

MATCH BOARD CEILINGS (REPLACE WITH GYPSUM PLASTER BOARD TO TIE BEAMS - UNDER 1,4M CENTRES):

Take down existing cornices and boarding, remove from site.

Provide and fix 100 x 38mm ceiling joists with 76 x 38mm runners and 50 x 38mm hangers as described in clause 8.21 of OW 371. Provide 38 x 38mm brandering and cover ceiling with gypsum plasterboard, including cornices and cover strips as respectively described in clauses 9.4, 9.5 an 9.6 of OW 371.

1515

Room(s) ……

1516

MATCH BOARD CEILINGS (COVER WITH GYPSUM PLASTER BOARD TO TIE BEAMS - UNDER 1,4M CENTRES):

Take down existing cornices and remove from site. Securely nail existing match boarding to tie beams and

ceiling joist to obtain a flat surface.

1517

Provide and fix a new gypsum plasterboard ceiling with new cornices and cover strips as described in clauses 9.5 and 9.6 of OW 371, all securely nailed to existing boards. Room(s)

1518

CORNICES (REPLACE):

Take off defective cornices to the ceilings specified and remove from site.

1519

Provide new cornices to match existing; fix new cornices to ceiling with 40 x 2mm diameter cadmium plated clout headed nails, and to wall surfaces with approved hardened steel nails, all at not more than 200mm centres.

1520

Provide and fix 76mm gypsum cornices, as described in clause 9.6 of OW 371.

1521

Provide and fix 38mm South African pine quadrants as cornices, neatly mitred at angles and securely fixed to walls and ceilings.

1522

Room(s) -----: Completely.

1523

Room(s) ----: Lineal metre.

1524

REFIX LOOSE CORNICE/S:

Refix loose cornice/s to ceiling/s with 40 x 2mm diameter cadmium plated clout headed nails, and to wall surface/s with approved hardened steel nails, all at not more than 200mm centres.
Lineal metre:

1525

CEILING TO VERANDAH (REPLACE PORTION OF CEILING):

Replace the defective ceiling panels with new ceiling panels to match existing, including additional brandering if required.

Square metre:

1526

Replace defective cornices and cover strips to match existing.

Cornices. Lineal metre:

Cover strips. Lineal metre:

1527

CEILING TO VERANDAH (REPLACE ENTIRE CEILING SURFACES):

Remove cornices and ceiling panels of verandah ceiling, where mentioned, and remove from site.

1528

Nail up loose brandering. Replace broken or otherwise defective brandering. Provide additional brandering as required to suite the sizes of the new boards.

1529

Provide and fix 100 x 38mm thick ceiling joists, 76 x 38mm runners, 50 x 38mm hangers and 38 x 38mm brandering, as described in clause 8.21 of OW 371.

1530

Provide and fix to verandah fibre cement cellulose board, as described in clause 9.5 of OW 371.

Finish off at junction to wall and ceiling surfaces with 38mm softwood quadrants.

1531

CEILINGS TO VERANDAHS (RE-FIXING):

Examine and securely refix in position any loose or sagging ceiling panels, match board, cornices, cover strips and quadrants.

1532

HARDBOARD PARTITIONS:

Form framework for partitions in the position and to the sizes shown on drawings or as specified, constructed with 75 x 50mm thick uprights, spaced at approximately 608mm centres, with 75 x 38mm thick top, bottom and intermediate rails, spaced at not more than 608mm apart, securely nailed together and fixed to walls, floors, lintels, etc., with M10-bolts built in with 3:1 cement mortar. Cover both sides of framework with 6mm thick hardboard, securely nailed to framework with 38mm long wire nails. Cover joints with 19mm half round beads. Provide 75 x 19mm thick skirtings fixed to both sides of partitions and fix at intersections of walls, floor and lintels 19mm quadrants, fixed to framework.

1533

Provide and fix in the position shown frames for door/s, constructed with 114 x 38mm rebated and angle rounded stiles and headrail/s, securely nailed to the stiles and rails of framework. Finish both sides of frame/s with 19mm quadrants.

1534
Provide chip core doors as in clause 8.33 of OW 371, both sides finish off with veneer as mentioned below. Hang door to a pair of 102mm butt hinges as sample 84 and fit 75mm lock/s as sample 1 and furniture as sample 134.

1535

Both sides finished off with veneer suitable for painting.

1536

Both sides finished off with hardwood veneer.

1537

DRYWALL CONSTRUCTION (NON LOAD BEARING):

The framework for drywall construction is to be formed with 63,5mm mild steel channel section, secured to walls, floor and ceiling in an approved manner at a maximum of 600mm centres. Form or leave openings in the positions and of the sizes shown.

Supply and fix 63,5mm mild steel channel section studs spaced at 600mm centres, each cut 10mm shorter than dimensions required to simplify installation.

At corners, cut out approximately 83mm of one leg of the mild steel channel to form a neat corner. The corner is to be formed with a vertical stud with drywall covering securely screw fixed inside of corner with approved drywall construction screws spaced at approximately 400mm centres.

Where T-junctions are required, these are to be formed with mild steel channel sections, screwed together as described for corners and with corner joints firmly fixed together by means of pop rivets or an approved method of crimping.

Door openings in drywall construction are to be formed with pressed steel door frames designed for drywall construction with a fixing plate welded to the inside of the frame. Each jamb of door frame is to be provided at back with metal studs as previously described and fixed to fixing plate with self tapping screws.

Clad the framework on one side with 12,7mm thick gypsum plasterboard, securely fixed to framework with 25mm long screws for drywall construction, at 220mm centres.

Fill into openings in framework with glass fibre insulation as clause 9.8 of OW 371, upon which the remaining side of the framework is to be covered with 12,7mm thick gypsum plasterboard all as previously described. All joints in gypsum plasterboard cladding are to be covered with an approved cover strip as supplied by manufacturer.

1538

FLOOR COVERINGS. WALL LININGS. ETC.

1539

REFIX LOOSE FLOOR BLOCKS:

Take up loose and hollow sounding blocks, clean off all old bitumen from blocks and screeding and relay blocks in an approved adhesive or bitumen. Level off relaid blocks to a smooth and even surface and finish off to match surrounding blocks.

Square metres:

1540

Provide and lay new blocks to replace defective or missing blocks, and finish off to match existing.

1541

REPLACE WOOD MOSAIC FLOOR:

Remove damaged or loose mosaic panels and repair existing screed cote as necessary. Provide and lay new mosaic panels of the same size, thickness and type of wood to match and as described in clause 10.2 of OW 371. Sandpaper replaced panels to a smooth finish and even surface to match existing floor.

Square metres:

1542

SANDING FLOORS:

Sandpaper floors with a sanding machine to a smooth and even surface in accordance with SABS Code of Practice 043-1973. Prepare floors and apply one sealer coat and one coat of wax polish well rubbed in.
Room/s:

1543

VINYL TILE FLOOR FINISH:

Cover the floors indicated on the drawing or as mentioned, with 2mm thick semi flexible vinyl floor tiles, as described in clause 10.3 of OW 371.

1544

FLEXIBLE VINYL SHEETING (PVC):

Cover the floors indicated on drawing or as mentioned with 2mm thick flexible vinyl sheeting, as described in clause 10.3 of OW 371 .

1545

Allow for neat fuse welding of all joints.

1546

VINYL COVE SKIRTING:

To walls where floors are finished with vinyl tiles and sheeting, provide approved vinyl cove skirtings, of selected colour, 70mm high, cemented to walls with adhesive as clause 10.3 of OW 371.

1547

RE-FIXING OF VINYL COVE SKIRTINGS:

Clean down the existing loose vinyl cove skirtings, including wall surfaces and refix with adhesive as described in clause 10.3 of OW 371.

Lineal metre:

1548

RE-FIXING OF VINYL TILES OR SHEETING:

Take up loose tiles or sheeting as specified. Clean floor screeding and material and prepare for and re-lay to match existing.
Square metres:

1549

Allow for the supply and laying of broken or missing tiles to match existing.
Square metres:

1550

REPLACE DAMAGED VINYL FLOOR TILES:

Take up the damaged or loose floor tiles and repair screeding as found necessary. Provide and lay new vinyl floor tiles of similar sizes, thickness and colour to match existing, all as described in clause 10.3 of OW

371.

1551

IRONMONGERY

1552

DOOR STOPS:

Provide and fix door stops as sample 150 to floors where specified, securely screwed to timber or fibre cement plugs.

Quantity:

1553

REPLACE MORTICE CUPBOARD LOCKS:

Remove existing defective mortice cupboard locks. Provide and fit new upright two lever mortice locks, 75mm long, complete with chromium-plated furniture and one (1) key. Where rebated locks are to be replaced, new similar locks shall be provided and fitted. Fit and adjust new striking plate.

Quantity:

1554

REPLACE CHROMIUM- PLATED DUMMY HANDLES OF CUPBOARDS:

Replace broken or missing dummy handles to cupboard doors with new dummy handles to match existing chromium-plated handles of mortice locks, securely fixed with chromium-plated round-headed screws.

Quantity:

1555

REPLACE LOCKING PUSH-BUTTON CUPBOARD CATCHES:

Remove existing defective locking push-button cupboard catch.

Provide and fit a new chromium-plated locking push-button cupboard catch to match existing in every respect, complete with two (2) keys. Adjust striking plate.

Quantity:

1556

REPLACE CUPBOARD DUMMY HANDLES:

Replace broken or missing dummy handles to cupboard doors with new dummy handles to match existing chromium-plated cupboard locking catches, securely fixed with chromium-plated round-headed screws.

Quantity:

1557

REPLACE STRAIGHT CUPBOARD LOCKS:

Remove existing defective or broken straight cupboard locks. Provide and fit new brass three lever straight cupboard locks, complete with chromium-plated furniture and two (2) keys. Fit and adjust new striking plates.

Quantity:

1558

REPLACE CUPBOARD KEYS:

Provide and fit new cupboard keys as required, to the undermentioned locks:

1559

Mortice locks. Quantity:

1560

Locking push-button cupboard catch.

Quantity:

1561

Straight cupboard locks. Quantity:

1562

SERVICE DOOR LOCKS:

Remove door locks, replace worn out parts with new parts, oil locks, refit and assure that locks are working properly. Where cylinder type locks occur, the locks shall be properly cleaned and treated with graphite.

1563

NIGHT LATCH:

Provide and fit to door/s where indicated or mentioned, with night latch as sample 33.

Quantity:

1564

REPLACE NIGHT LATCH:

Remove the existing lock, provide and fit new night latch as sample 33.

Quantity:

1565

REPLACE MORTICE DOOR LOCKS:

Remove existing defective door locks. Provide and fit new mortice locks according to the sizes and quantity levers as mentioned below, including furniture as required. Each lock is to be supplied with two keys. Fit and adjust striking plates.

Quantity:

1566

REPLACE RIM LOCKS:

Remove existing defective door locks. Provide and fit new rim locks and furniture. Each lock is to be supplied with two keys. Fit and adjust striking plates.
Quantity:

1567

N.B. :

All locks shall comply with the requirements of the SABS Specification and bear the Standardisation mark of the SABS.

1568

REPLACE DOOR KEYS:

Provide and fit door keys as required, to the undermentioned locks.

1569

Mortice locks.

Quantity:

1570

Rim locks.

Quantity:

1571

REPLACE DOOR STOPS:

Replace damaged or missing door stops with new 38mm diameter rubber door stops, each properly fixed to floor with a steel screw, screwed to plug in floor.

1572

REPLACE HYDRAULIC DOOR CLOSER:

Remove existing defective hydraulic door closer. Provide and fit a new hydraulic door closer as sample 93.

Quantity:

1573

SERVICE HYDRAULIC DOOR CLOSER:

Remove existing hydraulic door closer from door. Drain oil and thoroughly clean out interior of door closer. Replace worn out or broken parts, refill with approved and suitable hydraulic oil. Refit and adjust door closer.

Quantity:

1574

CABIN HOOKS (SCREW FIXING):

Fit all doors swinging outwards with 150mm cabin hook and eye holders as sample 162, the cabin hooks securely screwed to 100 x 100 x 25mm thick hardwood blocks fixed to walls.

Length: Quantity:

1575

CABIN HOOKS (BUILDING IN LUGS):

Fit all doors swinging outwards with 150mm cabin hook and eye holders as sample 161, built into wall with 3:1 cement mortar.

Length: Quantity:

1576

NUMBERS TO DOORS (CHROMIUM-PLATED):

Provide where directed, approved chromium-plated numerals 50mm high, screwed to door frame with chromium-plated countersunk screws.

1577

NUMBERS TO DOOR (BRASS):

Provide where directed, approved brass numerals 50mm high screwed to door frame with brass countersunk screws.

1578

Allow for the supply and replacement of the necessary items as specified below:

1579

FLAT AND COAT HOOKS:

Provide and fix in the position indicated or directed, 100 x 22mm thick oiled and polished hardwood rails with chamfered edges, screwed to plugs in walls and provide hat and coat hooks as sample No. 173, at approximately 200mm centres, securely screwed to hardwood rails.

i. Hardwood rails: Lineal metres: No:
ii. Hat and coat hooks: No:

1580

REPLACE HAT AND COAT HOOKS:

Replace missing hooks with new hat and coat hooks as sample 173 Quantity:

1581

BRASS DIVIDING STRIPS:

Provide and build in 25 x 3mm thick brass strips at junction of different floor finishings as described in clause 11.3 of OW 371.

1582

DOWELS AND MORTICES:

As described in clause 11.4 of OW 371.

1583

WATER BARS TO THRESHOLDS (EXTERNAL DOOR OPENINGS):

Provide 32 x 6mm thick mild steel water bars full width between jambs of openings, set in concrete to line up in centre of rebate for door. Internal floor finishing to be carried through and finished off flush with bar thus provided.

1584

METALWORK

1585

HOT DIP GALVANISING TO STEELWORK:

All steelwork to be built in must be hot dip galvanised as described in clause 13.3 of OW 371.

N.B. :

Hot dip galvanising to steelwork is applicable on coastal services only.

1586

TABULAR POSTS AND WASH LINES:

Provide two 80mm diameter mild steel posts, 2,6mm long for wash lines, fitted approximately 50mm down from top with 50mm diameter mild steel cross arms, 1,14m long, welded to posts and fill in the posts above cross arms with fine concrete. Set the posts 760mm deep in 450 x 450 x 900mm deep Class B-concrete blocks cast in holes in ground with top of blocks 150mm below ground level. The posts to stand 6m apart, and cross arms to be holed for and fitted with three approved plastic covered wash lines, securely attached to 10mm diameter straining eye bolts passing through holes in arms, and firmly strained. The sections of posts and stays under ground shall be well tarred.

1587

REPLACE FIXED CLOTHES LINE:

Remove rusted or damaged washing-line posts and stays. Provide all materials and erect a new clothes line as described hereunder:

The two posts shall be 50mm internal diameter galvanised mild steel piping, of at least 2,36mm thick metal, 2,6m long with moulded cast iron capping pieces to top, and sole plates of 200 x 200 x 6mm thick at bottom, and approximately 50mm from top, a 50mm diameter galvanised mild steel crossbar, 950mm long, shall be welded to posts. The posts shall be set 750mm deep in ground with bottoms encased in 300 x 300 x 450mm Class B-concrete.

Fit posts with 40mm diameter galvanised mild steel stays, 1,7m long, with top ends flattened, holed and bolted to posts with M10-bolts and bottom ends fitted with 150 x 150 x 6mm thick sole plates, welded to posts. The stays shall be bedded 450mm deep in ground with bottoms each encased in 300 x 300 x 300mm Class B-concrete block.

The cross bars shall be holed for and fitted with three (3) plastic-coated wash lines, attached to 10mm diameter straining eye bolts. The sections of posts and stays under ground shall be well tarred.

N.B.:

At coastal areas, posts and stays shall be hot-dip galvanised mild steel piping as described in clause 13.3 of OW 371.

1588

REPLACE REVOLVING CLOTHES LINE:

Remove the rusted or irreparable revolving clothes line.

Provide and fix a new revolving clothes line as described hereunder:

The revolving clothes line shall be constructed of a 50mm internal diameter galvanised mild steel pipe of at least 2,36mm thick metal, 2,6m long, fitted with moulded cast iron capping piece to top and sole plate of 200 x 200 x 6mm thick, welded to bottom of post. The post shall be set 750mm deep in ground with bottom of post encased in 300 x 300 x 450mm Class B-concrete. The rotor shall have a diameter of not less than 2,5m and shall revolve on a ball bearing and shall have four (4) arms of 25mm diameter mild steel tubing, fitted with mild steel eyelets, welded to cross-arms, to take washing-lines. The arms shall be welded to stays and to take washing-lines. The arms shall be welded to stays and post. The section of post underground shall be well tarred.

The posts, arms and stays to be painted as specified later in paintwork. Four (4) strings plastic-coated washing-lines shall be passed through the eyelets, strained and secured.

N.B.:

At coastal areas, posts, arms and stays shall be hot-dip galvanised mild steel piping as described in clause 13.3 of OW 371 .

1589

FLAGSTAFF: (TYPE DRAWING NO GEN. 013):

Supply and fix in the position shown on drawing or in the position as described in clause 13.17 of OW 371.

1590

TUBULAR MILD STEEL POSTS TO VERANDAHS:

The tubular posts supporting verandah beams are to be 75mm diameter galvanised mild steel posts, having 228 x 76 x 6mm thick plates, twice holed for and screwed to headrail with M10-coach screws, welded on top end with bottom end of post threaded for and fitted with flange, twice holed for 152mm long M12-bolts, embedded into surface bed.

1591

TUBULAR MILD STEEL POSTS FOR FLAT AND LEAN-TO ROOFS:

The tubular posts supporting the beams as shown on drawings, are to be 75mm diameter galvanised mild steel posts, having a 228 x 76 x 6mm thick plate twice holed for and screwed to beam with M10-coach screws. Bottom ends of columns are to be embedded in the concrete bases as the work proceeds.

1592

STRONG ROOM DOOR (CATEGORY 2):

Provide and fix in opening in the wall where shown or mentioned a Category 2 strong room door as described in clause 13.13 of OW 371, but with front plate approximately 12mm thick.

1593

STRONG ROOM VENTILATORS:

Provide and build the ventilators into walls of strong room where directed and as described in clause 13.15 of OW 371.

Quantity:

1594

BALANCE TYPE GARAGE DOOR/S:

The door to garage to be an approved balance type steel door, of size shown or mentioned and as specified in clause 13.7 of OW 371.

1595

REPAIR BALANCE TYPE GARAGE DOOR/S:

Remove the existing rollers of balance type steel door/s, provide and fix new rollers to match existing, including the replacing of all missing parts, and leave in perfect working order.

Quantity door/s:

1596

STEEL GARAGE DOORS IN TWO LEAVES:

Provide and fit the opening to garage with a pair of steel doors and frames of sizes shown on drawing or to sizes specified.

The frame to be constructed with 76 x 76 x 6mm thick mild steel angle section to sides and head, welded at angles and fitted with 50 x 10 x 250mm long split and spread lugs and 38 x 6 x 150mm long doorstop welded to frame. Set frame in position and build the lugs into the brickwork or concrete columns.

Doors to be formed with 50 x 50 x 6mm thick mild steel angle section framing, welded at angles and fitted with 200 x 200 x 5mm thick gusset pieces at corners, 38 x 6mm thick middle rails and 38 x 6mm thick braces, all neatly mitred and welded to frame. Cover the doors with 0,60mm thick corrugated iron or ribtrough roofing sheets securely bolted to frame, rails and braces with M6-galvanised bolts and washers.

Hang each leaf of door on one and a half pairs of purpose made hinges formed from 10mm thick mild steel plate, cut and bent to the shapes and sizes shown and having a 16mm diameter steel pin and welded on and supplied with copper washer welded on all as shown.

Fit one leaf of, door at bottom with an approved 228mm galvanised bolt, bolted to door and provide 12mm diameter galvanised piping as keep, set and built into floor with 3:1 cement mortar. To the top of door provide a 203 x 50mm chain bolt as sample 45, bolted to door. Cut and form hole in head rail or frame to act as keep for bolt.

To the other leaf of door provide and fit on outside a 305 x 50mm locking bar, as sample 110, bolted to door.

Provide and hand over to the Representative/Agent a 63mm brass pad lock with two keys as sample 32, for each pair of doors.

In the ground on the outside of each leaf of door and in the positions as directed, provide stops with catches as sample 46.

1597

STEEL ROLLER SHUTTER (CURTAIN TYPE):

Provide and fit to opening of garage with an approved "push-up" type steel roller shutter door as described in clause 13.14 of OW 371, but without fusible link. Door to be of standard stock to suit daylight opening, size 2,43 x 2,13m.

1598

STEEL ROLLER SHUTTER DOORS: ("SERRANDA" OR OTHER APPROVED):

Provide and fit to openings shown on drawings "SERRANDA" or other approved gear operating roller shutter doors as described in clause 13.14 of OW 371.

1599

REPLACE GARAGE DOORS:

1600

GALVANISED TIP-UP DOOR:

Remove the existing rusted or irreparable tip-up door to garage, including guides and counter weights.

Quantity:

Provide and fix a new tip-up door as described in clause 13.7 of OW 371.

1601

HOT-DIP GALVANISED TIP-UP DOOR:

Remove the existing rusted or irreparable tip-up door to garage, including guides and counter weights.

Provide and fix a new tip-up door as described in clause 13.7 of OW 371, but shall be manufactured out of hot-dip galvanised mild steel sheeting.

Hot-dip galvanising to steelwork shall be as described in clause 13.3 of OW 371.

Quantity:

1602

HARDWOOD TIP-UP DOOR:

Remove existing rusted or irreparable garage tip-up door, including guides and counter weights.

Provide and fix a new "Tilley" or similar approved hardwood tip-up door of weatherboard, horizontal or vertical pattern. The door shall be fixed strictly in accordance with the manufacturer's instructions.

The door shall be fitted with all the required fittings and chromium-plated locking handle.

The door shall before leaving the manufacturer's works, be treated with an approved sealer coat.

All mild steel to door shall be hot-dip galvanised, where doors are replaced at coastal areas.

Where door openings are larger or smaller than the size of the new door, the necessary alterations to reveals and lintels shall be carried out to fit the size of the new door, and to match existing furnishing in all respects.

Quantity:

1603

REPLACE LOCK TO TIP-UP DOOR:

Remove the existing faulty lock to tip-up door. Provide and fit a new approved chromium-plated lock

complete with two (2) keys.

Quantity:

1604

STANDARD COMBINATION STEEL DOORS AND FRAMES:

The combination doors and frames shown on drawings are to be of the standard stock, both formed to the sizes shown or specified of 1,6mm thick mild sheet steel pressed to the required shapes and properly mitred, welded and reinforced at angles as required, with all welding cleaned off flush and smooth. The frames to doors specified to have fanlights are to be fitted with pressed steel transome of metal as for frames, with rebates for door and fanlight, and welded to frame and fitted with hinges. Provide and fit 203 x 40mm locking bar as sample 108 and 51mm padlock as sample 32.

1605

STEEL TRANSFORMER DOORS AND FRAMES:

The doors and frames for the transformer room shown on drawings are to be of standard stock combination door and frame type, formed to type and sizes shown or specified of 1,6mm thick mild steel pressed to shape, reinforced as required and welded with all welding cleaned off flush and smooth, fitted with hinges, 203 x 40mm locking bar as sample 108 and 51mm padlock as sample 32. Doors specified to have ventilation panels are to be fitted with panels formed of rolled steel standard cottage section frame, with louvres welded in and covered on inside with 2mm mesh gauze wire.

1606

STEEL ROLLER SHUTTERS TO WINDOWS:

Provide and fix to window specified, manual "PUSH UP" operated steel roller shutters of size required to suit the window opening, all as specified in clause 13.14 of OW 371.

The shutter is to stop at bottom on 76 x 76 x 6mm thick mild steel angle, securely fixed to walls with three 6mm diameter rag bolts built into walls in 3:1 cement mortar.

1607

PRESSED STEEL DOOR FRAMES:

All steel door frames where shown or as mentioned are to be of pressed steel, as described in clause 13.5 of OW 371.

1608

PRESSED STEEL DOOR FRAME/S FOR BUILT-IN WARDROBE/S IN BEDROOM/S:

Provide pressed steel door frame/s for built-in wardrobe/s, to sizes as indicated or mentioned and as described in clause 13.5 of OW 371.

1609

PRESSED STEEL DOORS AND FRAMES WITH LOUVRES:

The doors are to be standard pressed steel doors, constructed of not less than 1,2mm thick mild steel sheeting, pressed to the required.shape, and provided with the necessary stiffeners, all welded together, with all welding cleaned off flush and smooth.

Hang each door on hinges supplied with the frames and fit each door with an approved 75mm mortice lock as sample 2 and furniture as sample 134.

The frames to be of pressed steel as described in clause 13.5 of OW 371 .

Provide to each frame a transome of metal as for frame, with rebates.

Fill in above transome with 3mm thick pressed steel louvres, fixed to vertical channel fillets and welded between stiles of frame.

1610

PRESSED STEEL FRAMES AND DOORS (IN TWO LEAVES):

The doors are to be standard pressed steel doors, each in two leaves hung folding outwards and constructed of not less than 1,2mm thick mild steel sheeting, pressed to the required shape and provided with the necessary stiffeners, all welded together with all welding cleaned off flush and smooth.

Hang each leaf on hinges supplied with the frames and fit each door with 305 x 50mm locking bar and 51mm padlock as sample 110 and 32 respectively and fit one leaf of each door with two suitable steel barrel bolts, one at top and one at bottom.

Provide in each leaf of door a louvred ventilation panel, covered on inside with approved vermin proof screens.

The frames to be pressed steel as described in clause 13.5 of OW 371 .

1611

REPLACE EXTERNAL STEEL DOORS:

Remove existing defective steel door. Remove lock and furniture and store for re-use.

Provide and hang on existing hinges, new similar pressed steel door strictly in accordance with the manufacturer's instructions. Refit lock and furniture and allow door to open and close freely.

Quantity:

1612

CHEQUER PLATE COVERS (FOR CABLE DUCTS IN FLOORS):

Provide 6mm thick mild steel chequer plate covers to floor ducts, in the lengths and of widths shown to suit rebates in floor surface.

The covers to finish flush with the floor finish. Twice slot hole each length 100mm long 35mm wide with rounded ends for lifting.

The chequer plates are to be cut so that the chequers run the same way.

The chequer plates are to be dipped in hot linseed oil after cutting.

1613

BURGLAR PROOFING TO STEEL WINDOWS:

Provide to all opening sections of windows where shown or mentioned, burglar proofing, formed with 10mm diameter mild steel horizontal bars, spaced at 150mm centres and vertical bars at 125mm centres, welded together and welded to window frames, with welding cleaned off smooth.

1614

BURGLAR PROOFING TO STEEL WINDOWS(FLAT BARS):

Provide burglar bars to all opening sections of steel windows where shown or mentioned, neatly welded to framing at ends, formed of 1 9 x 5mm thick mild steel flat bars, corresponding with horizontal and vertical glazing bars, of windows, pressed and rivetted at intersections.

1615

BURGLAR PROOFING TO WINDOWS:

Provide burglar proofing to the windows where shown or specified, constructed with 38 x 10mm thick mild steel flat top, intermediate and bottom rails with ends split and spread and holed for 16mm diameter mild steel bars. The bars to be spaced at 150mm centres and are to pass through holes in rails and welded to rails.

1616

Allow for cutting and forming of holes in reveals as required, 114mm deep, building in ends of bars in 3:1 cement mortar and making good as required plaster and paint work to match existing.

1617

BURGLAR PROOFING TO STEEL WINDOWS (EXPANDED METAL):

Provide all opening sections of steel windows with expanded metal burglar proofing.

The burglar proofing is to be manufactured from 3,5mm thick mild steel sheeting, slit and expanded as to form a network of neatly shaped diamond patterns each aperture measuring 115 x 40mm with metal strands of 5mm x 3,5mm.

Form suitable openings in each burglar proof screen for access for fasteners and stays.

Surround each screen and each opening in same with 19 x 6mm thick mild steel, cut to required shape and securely welded to mesh at all intersections.

The burglar proofing to be either welded or riveted to window frames, with all welding cleaned off smooth.

1618

STEEL WINDOWS:

Provide steel windows of the type and sizes shown on drawings or as mentioned. The windows are to be constructed as described in clause 13.8 of OW 371.

1619

STEEL WINDOWS (REPAIRS):

Adjust as required and refix all loose stays and catches.

1620

REPLACE WINDOW FURNITURE:

Remove broken or defective window furniture as mentioned below. Provide and fit new similar window furniture to match existing and leave all in good working order.

1621

Window stays.

Quantity:

1622

Window handles.

Quantity:

1623

Fanlight stays.

Quantity:

1624

GAUZE SCREENS TO WINDOWS:

Provide and fix gauze screens according to sizes shown or specified and where shown or mentioned, as described in clause 13.11 of OW 371.

1625

GAUZE SCREENS TO WINDOWS (REPLACE):

Take down gauze screens to the windows specified and remove from site. Provide and fix new gauze screens as in clause 13.11 of OW 371 to match existing.

1626

GAUZE SCREENS TO WINDOWS (REPLACE GAUZE):

Take down gauze screens to the windows specified and remove the gauze from frames. Provide and fix new gauze as clause 13.11 of OW 371 to the existing frames and refix frames in original positions, using new clips or studs.

1627

METAL CURTAIN PELMETS:

Provide and fix new pelmets to windows as shown or specified. Pelmets to be of stock pattern and design and of approved manufacture as described in clause 13.9 of OW 371.

1628

REPLACE PELMETS:

Remove existing damaged or defective pressed steel, and/or timber pelmets. Provide and fit new pressed steel pelmets of stock pattern and of approved manufacture as specified in clause 13.9 of OW 371.

1629

Pelmets to all married quarters, shall be as specified above, but shall be fitted with two (2) approved I-profile curtain rails, complete with curtain runners and stop ends, twelve (12) curtain runners per running meter curtain rail.

1630

Room/s:

1631

REPLACE CURTAIN- AND HANGING RAILS:

Remove existing bent or damaged curtain- and hanging rails in servant's rooms and W.C./bathrooms.

Provide new chromium-plated brass curtain- and hanging rails of 20mm diameter, and fitted with chromium-plated brackets at ends, and securely screwed to plugs in wall with chromium-plated round-head screws. Curtain rails shall be fitted with three (3) approved curtain rings per 300mm length.

Lineal metres:

1632

REFIX CURTAIN- AND HANGING RAILS:

Refix loose curtain and hanging rails.

Quantity:

1633

REPLACE BATHROOM CABINETS:

1634

PRESSED STEEL:

Remove existing defective bathroom cabinet from wall. Provide and fix a new approved cabinet formed in pressed steel, finished internally and externally in white enamel, of minimum size 450 x 350 x 100mm deep. The cabinet shall be fitted with one shelf and a mirror of 6mm thick silvered plate glass, as described in clause 17.3 of OW 371, fixed on external face of door. Mirror shall have rounded and polished edges.

Quantity:

1635

HARDWOOD:

Remove existing defective bathroom cabinet from wall. Provide and fix a new approved hardwood cabinet, with top, bottom, sides and door of not less than 10mm thick. Door shall be hung on brass hinges and secured with brass screws. The size of cabinet to be 450 x 350 x 100mm deep.

The cabinet shall be fitted with one shelf and a mirror of 6mm thick rounded and polished edges silvered plate glass, as described in clause 17.3 of OW 371, fixed on external face of door.

Quantity:

1636

PLASTIC:

Remove existing defective bathroom cabinet from wall. Provide and fix a new approved hardened plastic cabinet, with top, bottom sides and door of not less than 6mm thick.

The size of cabinet to be 450 x 350 x 100mm deep.

The cabinet shall be fitted with one shelf and a mirror of 6mm thick rounded and polished edges silvered plate glass, as described in clause 17.3 of OW 371, fixed on external face of door.

Quantity:

1637

SERVICING OF FLAGPOLE:

Lower flagpole as required, oil pulley and paint pole and base two coats bituminous aluminium. Erect pole in its original position and securely bolt to base and leave perfect.

1638

CELL DOORS (WOOD REPLACE):

Take down the doors to the cells specified. Take the locks off and hand over to the Representative/Agent, and remove doors from site. Provide and fix doors to match existing, formed with two thicknesses of 32mm thick wrought tongued, grooved and V-jointed boarding, the inside thickness fixed horizontally and the outside thickness fixed vertically and the two thicknesses screwed together with 50mm stout screws. The finishing thickness of door without the sheet iron lining is to be 54mm. Cover the inside of door with 1,2mm thick galvanised sheet iron and trim same round edges of door to within 6mm of outside face and secure at edge with countersunk screws spaced not exceeding 150mm centres.

The iron to be secured to face of door with twenty four (24) M6-bolts with nuts on external face of doors.

N.B. :

Boards are to receive a coat of approved primer, all round including tongues and grooves prior to fixing in position.

Doors when hung are to have a 5mm play at sides and at top and are to kept 10mm up from threshold.

1639

CELL DOORS COVERING WITH SHEET IRON (EASE AND ADJUST):

Take down the doors to the cells specified, loosen the sheet iron linings to doors, cut the edges of the sheet iron off as required, plane and ease the doors on the sides and cut 10mm off the bottom of doors, fit and trim the linings around edges of doors, and fit the linings to doors with screws and bolts to match existing and solder joints.

1640

IN ADDITION ALLOW FOR:

1641

Carrying out all necessary repairs and re-fixing of sheet iron fixed to frames.

1642

Carrying out the repairs and re-setting of existing hinges as required and hang doors to existing hinges using new M10 bolts and nuts with ends of bolts hammered over after the nuts are fixed.

1643

Easing and re-fixing of locks and keeps as required.

1644

Labour only for taking down existing locks and keeps, handing over to the Officer in Charge and for fitting

and fixing new locks supplied by the Department of Public Works.

1645

CELL AND YARD DOORS (TYPE DRAWINGS POL. 001/6 AND /7):

The cell and yard doors to be flush panel mild steel doors each size 900mm wide x 1950mm high, constructed out of 50 x 50 x 4mm thick mild steel square tubing framework, intermediate and lock rails, with framework mitred at angles and all welded together and covered both sides with 2mm thick mild steel sheet iron.

The inside sheet is to be welded all round to framing and rails, and the outer sheet is to be riveted with "pop rivets" to framing and rails at not exceeding 250mm centres and welded all round to framework on outside.

The lock stile is to be stopped above and below the lock as shown to form slot for insertion of lock casing.

Each door to be hung on a pair and a half of purpose made hinges of the forms and sizes shown, bent around a 16mm diameter pin with 6mm thick shoulders, to form knuckles.

The butts are each to be three times countersunk holed for and screwed with 8mm diameter snap headed screws to door and frame. Provide and rivet to the outer face of each door, in the position indicated on door details, bow handles formed out of 38 x 6mm mild steel, bent to shape required with finger space of not less than 38mm.

1646

GRILLES TO CELL AND YARD DOOR (TYPE DRAWINGS POL. 001/6 AND /7):

The cell and yard grilles each to be size 1950 x 900mm constructed out of 50 x 50 x 4mm thick mild steel square tubing framework, mitred at angles and all welded together. The framework is to be holed for vertical bars.

Fill in the grille framing with 16mm diameter mild steel vertical bars spaced at not exceeding 100mm centres and passed through the holed top, bottom and intermediate rails and welded to same. The holes are not to penetrate both sides of the top and bottom rails.

Provide two 50 x 6mm thick mild steel flat irons, of length shown, holed for and welded to vertical rods in the position shown and also welded to lock casing. Provide and weld to the above flat irons and intermediate rail a short vertical bar as shown to secure lock and case.

Each grille to be hung on purpose made hinges of the forms and of sizes shown, each formed with 6mm thick mild steel plate cut to shape shown, bent around a 16mm diameter pin with 6mm thick shoulders, to form knuckles. The butts are each to be three times countersunk holed for and screwed with 8mm diameter snap headed screws to grille and frame.

1647

CELL LOCKS AND LOCK CASING (FIXING ONLY):

Allow for taking delivery at the nearest railway station or railway road service bus-stop and carting to site, cell locks and lock casings, supplied by the Department of Public Works.

1648

Allow for fixing only the prison locks and lock casing. (Supplied by the Department of Public Works).

1649

CELL LOCKS (REPLACE):

Carefully remove cell locks from the doors as mentioned and hand over to the Officer in Charge.

Allow for fixing only the cell locks, supplied by the Department of Public Works.

1650

PURPOSE MADE STEEL FRAME (TYPE DRAWINGS POL 001/6 AND /7):

The purpose made door frames must be formed to details and constructed out of 2mm thick mild steel, pressed to the shape shown. The frames must be properly mitred at the corners, strengthened, and neatly welded together and provide and double rebates.

The frames are to be strengthened with 50 x50 x6mm thick mild steel angle irons mitred at corners and welded to the internal surfaces at rebates and all welding to be finished of smooth and flush.

The bottom ends of stiles to be embedded 50mm deep into the concrete surface beds. Each jamb to be fitted with six building in lugs. Each frame to be prepared for lock bolt and fitted with rubber buffers and primed all as shown on drawings.

1651

PURPOSE MADE STEEL CELL WINDOW (TYPE DRAWING POL 27/2 AND 27/4;

Cell windows to be purpose made as described in clause 13.12 of OW 371.

1652

FIXED SCREENS TO CELL WINDOWS (TYPE DRAWING POL. 27/2 AND 27/4:

Provide and fix mesh screens internally to cell windows as described in clause 13.12 of OW 371.

1653

METAL SCREENS OVER EXERCISE YARDS (TYPE DRAWING POL. 001/3):

Provide and fix to upper portions of parapet walls around each exercise yard at height shown, a metal screen, formed in sections with each section constructed out of 50 x 50 x 6mm thick mild steel and according to details, mitred and welded at corners. Fill in each section with 10mm thick mild steel rods at 100mm centres in both directions, strongly welded at each intersection and to the ends of the framework.

The screen sections to be coupled together with M10 hexagon headed bolts, nuts and washers as shown. The whole screen to be welded to 50 x 50 x 6mm thick mild steel angle iron lugs, spaced as shown and built into walls in 3:1 cement mortar.

1654

CELL WINDOWS (EASE AND ADJUST):

Examine the windows to cells specified and adjust hinges and fittings and re-fix where loose with bolts and screws, etc., to match existing. Ease by grinding or filing the stiles and bottoms of sashes found dragging or catching the frames, and leave in free working order.

1655

STEEL CELL DOORS AND GRILLE GATES (EASE AND ADJUST):

Examine the cell doors and grille gates specified and adjust hinges and locks and re-fix where loose with bolts and screws to match existing. Ease by grinding or filing the bottom and edges of doors and gates or rebates in frames of the doors found dragging or catching the frames as required and leave in free working order..

1655(a)

FIXED SCREENS TO CELL WINDOWS (REPLACE):

Take down the screens to the windows specified and remove from site. Provide and, fix new fixed screens to match existing, formed with 2mm thick galvanised wire woven into a 6mm square mesh fixed in 50mm wide frames of 0,71mm thick galvanised sheet iron, turned round the out edges of the netting, mitred at angles and strongly soldered and riveted on the screen. Rivets are to be spaced at not more than 150mm centres. Hand holes size 100 x 50mm are to be formed in screens each having a 25mm wide frame of galvanised sheet iron as for screen mitred at angles and strongly soldered and riveted to screen as described above. The screens are to be fixed to walls with M10-rag bolts 100mm long spaced at not more than 300mm centres built into the lintels and walls in 3:1 cement mortar.

1656

HINGED SCREENS TO CELL WINDOWS (REPLACE):

Take down the screens to the windows specified and remove from site. Provide and fix hinged screens to match existing, formed with 32 x 32 x 4,76mm angle section frame mitred and welded at angles, filled in with mesh screen formed with 2mm thick galvanised wire woven into a 6mm square mesh fixed in 50mm wide frame of 0,71mm thick galvanised sheet iron turned round the cut edges of the netting, mitred at angles and strongly soldered and riveted to the screen. The screen to be fixed to the steel frame with 5mm thick rivets, spaced at not more than 150mm centres. Fit each screen with a 51mm dead lock, provided with two keys as sample 32. Hang each screen on the hinges fixed to existing frame.

1657

SCREEN TO CELL WINDOWS (REPAIRS):

Examine the screens to the windows specified. Take down as required and reset, trim and re-fix the sheet iron framing to screens to match existing. Screens removed are to be re-fixed in their original positions using existing bolts or new M10 by 100mm long bolts and nuts as required built into walls and lintols in 3:1 cement mortar, with ends of bolts hammered over when nuts are fixed. Ease and adjust hinged screens as required and re-fix all loose hinges, locks, fittings and screens to angle section framing.

1658

STAND FOR PRESSED STEEL TANK (TYPE DRAWING NO'S D34D TO D38D):

Provide and erect a stand for pressed steel tank in position and of sizes shown or specified, formed in sections with four vertical mild steel pipes to diameter as shown, each to be fitted on top with screwed flange and at bottom with 220 x 220 x 12mm thick mild steel base plate welded on with four 6mm thick triangle gusset pieces, welded to pipes and to base plate as shown. Each base plate to be four times holed for M12-anchor bolts.

All four sides of each section to be tied together with 32mm inside diameter horizontal mild steel pipes and with 16mm diameter mild steel rods as cross braces, with forged eye on the one end and thread on the other end. The horizontal pipes are to be fixed to the uprights with 16mm diameter bolts, fix cross bracing to 110mm diameter by 8mm thick ring in the middle of each section complete with nut and lock nut as indicated. Provide braces to the top of the stand as described above, but with both ends threaded and fixed with nuts and lock nuts. Provide on top of stand, two 152 x 76mm channel irons fixed to screwed flange with M12-bolts and with four 127 x 76mm channel iron cross braces bolted to joists with M12-bolts.

Provide 228 x 38mm thick softwood boards on top of the bearers spaced 25mm apart to form a slatted platform, bolted to bearers with M10-bolts.

Provide a cat ladder to tank stand, formed with two 50 x 12mm mild steel sides and 18mm diameter steel rungs spaced at 300mm centres and all properly welded together, fit ladder with clamps of 50 x 6mm steel bars, bent and drilled for and bolted to stand and to ladder with M10-bolts as shown. Supply the ladder with

a safety stirrup, formed with three 12mm diameter vertical mild steel rods and 35 x 6mm thick strip iron, bent and spaced as shown and welded together and to ladder.

Fix tank stand on the concrete footings as previously specified, and leave ready for pressed steel tank as specified under "Plumber".

1659

PLASTERING

1660

EXTERNAL CEMENT PLASTER ON BRICKWORK (NO BEAMS, CONCRETE LINTOLS OR DADOES): FACE BRICK FOUNDATION WALLS:

Render all external walls from top of face brick foundation walls to underside of roof covering or to 150mm above closed-in soffits of roof where occur with 5:1 cement plaster.

1661

INTERNAL AND EXTERNAL CEMENT PLASTER ON CONCRETE BEAMS:

Render the soffits, and exposed surface of beams with 3:1 cement plaster.

1662

INTERNAL AND EXTERNAL CEMENT PLASTER ON CONCRETE LINTOLS:

Render the soffits and exposed surfaces of all concrete lintols with 3:1 cement plaster.

1663

INTERNAL CEMENT PLASTER ON BRICKWORK:

Render all internal wall surfaces, except where beams, lintols, glazed tile and face brick lintols occur with 4:1 cement plaster, as described in clause 14.7 of OW 371.

1664

INTERNAL AND EXTERNAL PLASTER ON CONCRETE CEILINGS AND BEAMS:

Render the soffits of ceiling slabs and exposed surfaces of beams with 3:1 cement plaster.

1665

BARIUM PLASTER (INTERNAL WALLS OF X-RAY ROOM):

Where shown or mentioned, render the internal walls of the X-ray room with 15mm thick barium plaster, consist of two parts, according to volume fine trade barium sulphate and one part of cement, finished with steel trowel to a true and even surface.

1666

Allow for hacking off loose or defective barium plaster and remove debris from the site.

1667

Square metres:

1668

V-JOINT PLASTER:

Run sunk V-joint at top of cement plaster between brickwork and concrete beams, slabs, lintels, etc.

1669

HACK OFF AND REPLASTER (EXTERNALLY):

Hack off the plaster on the areas mentioned, wet the bare brickwork, rake out joints and render in 5:1 cement mortar, finished to a smooth and even surface to match existing.

Square metre:

1670

Allow for taking down cornices and quadrants to eave covering and quadrants to frames and other items fixed to walls as mentioned and store for re-use.

1671

On completion securely refix the items stored for re-use in their original positions

1672

REPAIR PLASTER TO UNDERSIDE OF ROOF COVERING:

Hack off, cut as required and remove loose and cracked plaster to underside of roof covering and adjoining roof timbers. Wet, fill in and well caulk in with 3:1 cement mortar, finished off flush with and to match existing plaster.

Lineal metres:

1673

HACK OFF AND RE-PLASTER (INTERNALLY):

Remove all loose and defective plaster on walls as required, rake out joints to a depth of 6mm to form key for plaster, well wet the bare brickwork and re-plaster the surfaces with 4:1 cement mortar, finished smooth and flush with adjoining surfaces to match existing.

Square metre:

1674

Number 2: Allow for taking down skirting, picture rails and cornices as mentioned and store for re-use.

1675
Number 3: On completion securely refix to plugs in walls the items stored for re-use.

1676

HACK OFF AND REPLASTER CONCRETE SURFACES (INTERNALLY AND EXTERNALLY):

Hack off the plaster on the areas specified. Slush over with 2:1 cement grout to form key for the finish as described in clause 14.4 of OW 371 and render in 3:1 cement mortar, finished to a true and even surface to match existing.

Square metre:

1677

REPAIR CRACKS IN WALLS:

Cracks 10mm to 25mm wide are to have the plaster cut away on both sides of crack, not less than 150mm from edge of crack in straight lines. The cracks, then to be filled in with 3:1 semi dry cement mortar, well caulked in, and with the joints of brickwork raked out to form key for plaster.

Provide and fix to the bare brickwork a strip of galvanised bird wire not less than 300mm wide. Well wet the brickwork and replaster the surface with 4:1 cement mortar, finished smooth and flush with adjoining surfaces to match existing.

Lineal metres:

1678

PAINTED FAIR FACE WALLS TO BE PLASTERED:

Hack off, using chisels to remove oil paint (or) emulsion finishing completely from the surfaces to be plastered. Rake out the joints and render the walls in 4:1 cement mortar.

Room/s:

1679

GRANOLITHIC FINISH TO FLOORS:

Finish floors indicated on drawings or as mentioned, with granolithic as described in clause 14.13 of OW 371.

1680

GRANOLITHIC SKIRTINGS:

The granolithic finish to floors to be turned 75mm up against walls as skirting, as described in clause 14.14 of OW 371.

1681

FINISH THRESHOLD/S WITH GRANOLITHIC:

Finish threshold/s off with granolithic as described in clause 14.13 of OW 371.

1682

POLISHING OF GRANOLITHIC:

All tinted granolithic finish to floors, steps, thresholds and skirtings at completion of all other work shall be twice polished.

1683

GRANOLITHIC STOOLING:

Granolithic stooling under jambs of door frames, and the like, to be formed as described in clause 14.15 of OW 371.

1684

REPAIR FLOORS WITH GRANOLITHIC FINISH:

Hack up loose, cracked or otherwise defective granolithic finish in panels. Remove surface skin, grout and lay new panels with granolithic as described in clause 14.13 of OW 371.

1685

Square metres:

1686

Room(s) no:

1687

EXISTING FLOOR FINISH (REPLACE):

Hack up existing floor finish and cement screeding and remove rubble from site.

Clean existing surface bed, prepare for and lay new screeding in 3:1 cement mortar to a smooth and true surface and to required heights to suit existing floor levels.

Make good plaster to walls where damaged and provide and lay the new floor finish to match existing.

1688

Room(s)

1689

Square metre:

1690

Allow for carefully taking off the existing skirtings and quadrants and store for re-use and on completion refix the skirtings and quadrants in their original positions.

1691

REPLACE GRANOLITHIC SKIRTING:

Hack off existing granolithic skirtings, make good to plaster if necessary and form new skirtings with granolithic as described in clause 14.14 of OW 371 and finish off to match existing. :

1692

Lineal metre:

1693

Room (s).....

1694

REPLACE GRANOLITHIC SKIRTINGS TO FACE BRICK WALLS:

Hack off granolithic skirtings, rake out joints to brickwork. Hack to roughen face bricks. Slush and provide new granolithic skirtings as described in clause 14.14 of OW 371 and to match existing.
1695

Square metre:

1696

Room(s):.....

1697

FINISH TO STEPS, ETC.:

The treads and risers and exposed ends to steps and the thresholds to external doors are to be finished off with:

1698

Untinted granolithic as described for floors in clause 14.13 of OW 371.

1699

Approved terrazzo step tiles with risers, 19mm thick.

1700

CONCRETE STEPS (REPAIR):

Hack off granolithic finish. Prepare for and finish off with:

1701

Granolithic including risers and sides as in clause 14.13 of OW 371 .

1702

Approved terrazzo step tiles with risers, 19mm thick.

1703

REPAIR GRANOLITHIC THRESHOLDS:

Hack off existing finish to thresholds. Cut and chisel concrete down to 38mm below floor level. Prepare for and provide a 32 x 6mm thick galvanised iron water bar set flush with floor level bedded in 3:1 cement mortar. Clean, wet and slush concrete and finish off in granolithic as described in clause 14.13 of OW 371.

Granolithic to finish flush with floor on inside and 6mm below water bar with a slight fall out and needed for a width of 100mm near front edge, as described in clause 14.16 of OW 371.

1704

SCREEDING TO FLOORS:

The surface beds of all floors, finished with wood blocks, wood mosaic, vinyl sheeting and tiles and similar finishings to be screeded as described in clause 14.18 of OW 371.

1705

REPLACE TERRAZZO TILES:

Remove the existing broken or missing terrazzo tiles, prepare floor surfaces, provide and lay new terrazzo tiles in 3:1 cement mortar, to match existing.

Square metre:

1706

TILING

1707

GLAZED TILING (WALLS IN TOILETS AND DADOES)

Tile all walls in toilets shown on drawing to full height of internal screen walls or to such other height as directed with glazed tiles as described in clause 15.4 of OW 371. Tiling is to be returned into reveals of openings and onto window sills, and onto top of screen walls, etc.

1708

GLAZED TILE DADO'S:

Where glazed tile dado's are shown on drawings the walls are to lined to height shown or specified with glazed tiles as described in clause 15.4 of OW 371.

1709

GLAZED WALL TILING ABOVE WASH HAND BASINS:

Line the walls above wash hand basins with three rows 152 x 152mm white glazed tiles as described in clause 15.4 of OW 371.

1710

GLAZED WALL TILING ABOVE BATHS:

Line the walls at back and end above baths with three rows 152 x 152mm white glazed tiles as described in clause 15.4 of OW 371.

1711

GLAZED WALL TILING ABOVE SINKS:

Line the walls at back and end above sinks with three rows 152 x 152mm white glazed tiles as described in clause 15.4 of OW 371.

1712

GLAZED SOAP RECEPTACLES:

Form openings in wall over bath and sink, where specified and provide and build in, in cement mortar 152 x 152mm approved white glazed earthenware soap receptable.

Soap receptacles are to be thoroughly wetted in water prior to fixing and neatly finished off with neat white cement grout.

1713

REPLACE SOAP RECEPTACLES:

Remove existing cracked or damaged soap receptacles, including cement mortar. Thoroughly clean out and wet hole. Provide and fit in cement mortar, a new approved white or coloured glazed earthenware soap receptable with tongued lip. Soap receptacles are to be thoroughly wetted in water prior to fixing, and neatly finished off with neat white cement grout.

Quantity:

1714

GLAZED CERAMIC TILES TO WALL IN KITCHENS:

Line the walls indicated on drawings, or the walls specified with glazed acid resisting tiles as described in clause 15.5 of OW 371 .

1715

RE-FIXING OF LOOSE GLAZED TILES:

Carefully remove loose and hollow sounded tiles. Clean and make good surfaces where required with 3:1 cement mortar. Leave to dry and refix tiles with an approved tile adhesive and fill in joints with white cement to match existing.

Square metre:

1716

Allow for the replacing of missing or broken tiles to match existing.

Square metre:

1717

REPLACE GLAZED TILES:

Hack off glazed wall tiling, including the cement backing thereto, to the areas where directed and remove rubble from site. Rake out joints of brickwork, prepare and tile the areas with new tiles as described in clause 15.4 of OW 371 and to match existing.

1718

Room(s):.....Completely; height:

Colour:.....

1719

Room(s): .....Square metre:

Colour: .....

1720

VITRIFIED CERAMIC TILES:

Cover the floors indicated on drawing or as mentioned with vitrified ceramic tiles as described in clause 15.5 of OW 371.

1721

Form vitrified ceramic tile skirting, 100mm high, rounded on top edge, laid and grouted in with 3:1 cement mortar and with joints not exceeding 2mm wide, filled in with approved epoxy compound.

1722

CERAMIC FLOOR TILES:

Cover the floors indicated on drawing or mentioned with acid resisting tiles as described in clause 15.6 of OW 371.

Form skirtings with 115mm high ceramic skirting tiles of the same manufacture as the floor tiles, laid and grouted in as described for floor tiles.

1723

PLUMBING AND DRAINAGE

1724

EAVES GUTTERS (HALF ROUND):

The eaves gutters are to be half round, 0,60mm thick galvanised sheet iron, of size specified secured to 32 x 3,5mm galvanised iron brackets as described in clause 16.12 of OW 371 .

1725

EAVES GUTTERS (RECTANGULAR):

The eaves gutters to be rectangular, 0,60mm thick galvanised sheet iron as described in clause 16.12 of OW 371, but of size specified.

1726

DOMICAL GRATINGS (GALVANISED):

Provide and fix approved galvanised domical gratings as specified to gutter outlets and to vent pipes where they occur.

1727

DOMICAL GRATINGS (ALUMINIUM):

Provide and fix approved aluminium domical gratings as specified to gutter outlets and to vent pipes where occur.

1728

GUTTERS SUPPORTS:

Provide 1,6mm thick galvanised hoop iron straps, 32mm wide, to every second gutter bracket, holed and bent to suit size of gutter, fixed to inside of gutter bracket with gutter bolts and to bottom purlin of roof with roofing screws and washers.

1729

LIGHTNING CONDUCTORS:

Provide the necessary aluminium strips, conductors, rods, etc., as required and carry out the protection of the building against lightning as described in clause 16.16 of OW 371.

1730

LIGHTNING CONDUCTORS (REPAIRS):

Carefully examine the lightning conductors to the buildings specified. Check all tapes, rods, bonding between roof covering and eaves gutters and rainwater-pipes and carry out all necessary repairs such as refixing of brackets, replacing of missing or defective bolts or rivets, etc. to match existing.

All bends found with a radius less than 200mm are to be reset to bends with a radius not less than 200mm. Bolts, nuts, rivets and brackets used are to be copper or alloy to match existing. Jointing of tapes found loose or defective are to be thoroughly cleaned and first tinned over the whole area of the joint and then bolted or riveted together.

1731

Allow for the replacing of the items as specified below:

1732

RAINWATER PIPES (CIRCULAR):

Rainwater pipes to be circular of 0,60mm thick galvanised sheet iron, to size specified, with offsets and elbows of similar sheet iron secured to walls with brackets as described in clause 16.13 of OW 371.

1733

RAINWATER PIPES (SQUARE):

Rainwater pipes to be square of 0,60mm thick galvanised sheet iron, to size specified, with offsets and elbows of similar sheet iron secured to walls with brackets as described in clause 16.13 of OW 371, built into walls in 3:1 cement mortar.

1734

REPAIR GALVANISED IRON GUTTERS AND RAIN WATER PIPES:

Gutters:

Clean out gutters, test for leaks and make watertight by soldering. Remove all damaged or rusted sections, supply and fit new sections not exceeding 600mm in length, with all new joints properly rivetted and soldered. Straighten and align gutters, including the supplying and fitting of new gutter brackets where required, to match existing.

Rain water pipes:

Repair twisted rain water pipes, offset pipes, elbows, and shoes, align and refix with approved galvanised mild steel rainwater pipe brackets, with tails built into wall with 3:1 cement mortar. Damaged or rusted sections shall be cut out and replaced with similar new rain water pipes, offset pipes, elbows or shoes, properly rivetted and soldered at joints, including the realigning of rain water pipes and if required. Provide and fit new rain water pipe brackets to match existing, with tails caulked into walls with 3;1 cement grout.

N.B. :

Laykold or other similar substance will under no circumstances be accepted as a means of sealing leaking joints.

1735

TAKE DOWN EAVES GUTTERS AND RAINWATER PIPES TO REPLACE FASCIA BOARDS (RE-USING EAVES GUTTERS AND RAINWATER PIPES):

Carefully take down eaves gutters and rainwater pipes fixed to the fascia boards to be replaced and store for re-use. On completion of the replacement of the fascia boards refix the gutters and rainwater pipes in their original positions.

1736

EAVES GUTTERS AND RAINWATER PIPES (REPLACE):

Take down eaves gutters with brackets and rainwater pipes and remove from site. Provide and fix new eaves gutters and brackets as described in clause 16.12 of OW 371 and new rainwater pipes and brackets as described in clause 16.13 of OW 371 and of sizes as specified below:

i. Size of gutters:

ii. Size of rainwater pipes:

1737

REPLACE EAVES GUTTERS AND RAINWATER PIPES (RE-USING EXISTING BRACKETS):

Take down the gutters and rainwater pipes specified. Provide and fix to the existing brackets eaves gutters as described in clause 16.12 of OW 371 and rainwater pipes as described in clause 16.15 of OW 371 and of sizes as specified below:

(i) Size of gutters:

(ii) Size of rainwater pipes:

1738

REPLACE EAVES GUTTERS (RE-USING EXISTING BRACKETS AND RAINWATER PIPES):

Take down the eaves gutters to be replaced and remove from site. Provide and fix to the existing brackets, eaves gutters as described in clause 16.12 of OW 371 and of size as specified below.

Size of gutters:

1738(a)

Form outlets to new eaves gutters and connect to existing rainwater pipes. Straighten rainwater pipes and solder defective joints and refix with:

1739

Existing brackets.

1740

New brackets as described in clause 16.13 of OW 371.

1741

REPLACE EAVES GUTTERS AND BRACKETS (RE-USING EXISTING RAINWATER PIPES):

Take down the eaves gutters and brackets to be replaced and remove from site. Provide and fix new eaves gutters and brackets as described in clause 16.12 of OW 371 and of sizes specified below:

Size of gutters:

Form outlets to new eaves gutters and connect to existing rainwater pipes.

1742

REPLACE RAINWATER PIPES:

Take down the rainwater pipes to be replaced and remove from site. Provide and fix new rainwater pipes as

described in clause 16.13 of OW 371.

Size:

Quantity:

1743

RAINWATER PIPES (REPLACE FIXING BLOCKS):

Take down rainwater pipes and store for re-use. Drill holes for and provide and build into walls new brackets as described in clause 16.13 of OW 371. Refix rainwater pipes and make good holes to walls.

1744

RAINWATER PIPES (REPLACE SHOES AND REPAIR RAINWATER PIPES):

Take down rainwater pipes. Carefully remove shoes. Provide and solder on new shoes and fix rainwater pipes in original position where shown or mentioned.

1745

RAINWATER PIPES (NEW TO EXISTING GUTTERS):

Cut as required and form outlet to existing gutters. Provide and fix new rainwater pipes complete with elbows and shoes as described in clause 16.13 of OW 371.

1746

SPREADERS TO RAINWATER PIPES:

Where rainwater pipes discharge over adjoining roof areas, provide galvanised sheet iron spreaders, each formed with two short lengths of pipes, soldered together to form T-piece, of the same dimensions as the rainwater pipe to which they are fixed, with an overall length of 460mm and with half open ends.

The spreaders are to be perforated with 25mm diameter holes at 76mm centres.

1747

RAINWATER HEAD:

To outlet of roof gutters where shown or mentioned, provide rainwater heads, each size 457 x 457 x 305mm deep of 1,25mm thick galvanised sheet iron, bent to shape with a 12mm wide fold around top of edge and neatly soldered together. The rainwater head to have an outlet to fit into the rainwater pipe and is to be securely screwed with stout round-headed screws and washers to hardwood blocks, securely spiked to plugs in wall.

1748

GALVANISED IRON TANK DRIP TRAY:

Cover the platform in roof with 0,60mm thick galvanised sheet iron, riveted and soldered at seams and turned up over top edges of kerb and close nail. Fix 38mm diameter galvanised sheet iron waste pipe to drip tray to discharge overflow water outside.

1749

TANK IN ROOF:

Supply and set on platform in roof 340 litre capacity 0,60mm thick galvanised corrugated iron circular tank as

described in clause 16.52 of OW 371.

1750

REPLACE TANK IN ROOF:

Disconnect water supply pipe. Take down and remove existing tank in roof. Provide and set on existing platform a new tank as indicated and as described in clause 16.52 of OW 371 and connect to water supply pipe in roof.

Size of tank:

1751

PLATFORM FOR STORAGE TANK (STEEL JOISTS):

Supply and fix in the position shown two 152 x 76mm rolled steel joists to act as bearers for storage tank. The bearers are to be spaced to suit the size of tank and to have 114mm bearings at each end and to be built into brickwork in 3:1 cement mortar.

1752

PLATFORM (TIMBER):

Provide and fix across top of bearers 228 x 38mm thick timber boards, bolted to bearers with M10-bolts, spaced 25mm apart to form slatted platform.

Paint bearers all round two coats approved bituminous aluminium paint.

Apply two coats carbolinium or other approved wood preservative to wooden boards, before fixing in position.

1753

WATER STORAGE TANK (CORRUGATED IRON):

Provide and fix on platform a 545 litre tank, as described in clause 16.52 of OW 371.

1754

WATER STORAGE TANK (PRESSED STEEL):

Provide and fix on platform a pressed steel tank, size approximately 1,2 x 1,2 x 1,2m, as described in clause 16.52 of OW 371 . Tank to be fitted with 20mm ball valve and connection for supply pipe.

1755

WATER STORAGE TANK (FIBRE CEMENT):

Provide and fix on platform a 450 litre standard stock fibre cement tank, complete with circular cover and overflow pipe, etc. Tank to be fitted with 20mm ball valve and connection for 25mm diameter supply pipe.

1756

SHOWER ROSES (REPLACE):

Remove existing shower roses as specified and replace with new to match original shower roses or with shower roses as specified.

1757

COLD WATER SUPPLY (CONNECTION):

Open up the existing water supply pipe where shown, cut and insert T-piece as required for 20mm diameter water supply to the building. Provide and fit to T-piece a short length of 20mm diameter galvanised mild steel piping.

Provide and fit a 20mm diameter stop cock as described in clause 16.53 of OW 371.

1758

COLD WATER SUPPLY (NO STORAGE TANK):

Connect to stop cock provided for on existing supply with 20mm diameter water piping as specified, screwed and socketed and lay not less than 300mm deep under-ground to the lines shown. Take braces as shown to building and take up through and along walls and connect to the various fittings as shown. Connect up to taps in basins and to cisterns with 15mm diameter lead or copper service piping as described. Dig trenches in ground for pipes and fill in and well ram after pipes are laid.

1759

COLD WATER SUPPLY (CONNECT TO EXISTING SUPPLY INSIDE BUILDING:

Cut existing 20mm diameter supply pipe inside building at a point nearest to the new sanitary fittings installed. Insert 20mm diameter T-piece. Provide and fit an approved chromium plated stop cock to T-piece. Connect to stop cock with 20mm diameter piping as specified and take along and through walls, branch off with 15mm diameter piping as required and connect to fittings installed, each with an approved 15mm chromium-plated stop cock and lead connection.

1760

COLD WATER SUPPLY (TO STORAGE TANK, ETC.):

Connect up to the water supply connection previously specified with 20mm diameter piping as specified, and lay not less than 300mm deep underground to the lines shown. Insert T-piece as required and take 20mm diameter branch along, up and through wall and connect to ball valve in storage tank. Connect to the T-piece provided for in 25mm main with 15mm diameter piping, take through walls and connect to taps on wash hand basins and to flushing cisterns with lead or copper service pipes.

1761

STAND PIPES:

Provide and fix where shown 20mm diameter stand pipes, connected to supply pipe in ground and carried up 760mm high and secured to walls, with approved brackets built into walls in 3:1 cement mortar and fitted with 20mm brass screw down bib tap with screwed nozzle. Stand pipes away from buildings to be secured to iron standard driven into the ground.

1762

SHOWERS (HOT AND COLD WATER):

Provide and fix in each shower cubicle an approved 150mm diameter brass chromium-plated shower rose connected with a short length of 15mm diameter galvanised mild steel piping taken down wall to height required, connect to bridge piece of similar piping fitted with T-piece in centre and an approved 15mm brass chromium-plated stop cock at each end lettered "HOT" and "COLD" respectively, and connect to hot and cold water supply as required. Pipes to be fixed to walls with approved holderbats.

1763

SHOWERS (COLD WATER ONLY):

Provide and fix in each shower cubicle an approved 150mm diameter brass chromium-plated shower rose connected with short length of 15mm diameter galvanised mild steel piping taken down on wall to height required and connect to 15mm brass chromium-plated stop cock to cold water supply. Pipes to be fixed to walls with approved holderbats.

1764

OUTLET PIPE FROM SHOWERS:

Provide and set in the concrete filling under outlet in floor of showers a 50mm diameter brass trap with the necessary extension pipe to outlet in floor. From trap take 50mm diameter galvanised mild steel waste pipe through wall to outside, fit brass inspection bend and continue down and along walls as required and connect to inlet on gulley head. Fit outlet in floor with an approved brass chromium-plated framed and hinged grating bedded in bitumen.

1765

SHOWERS (EXERCISE YARDS):

Provide and fix each ablution where shown or mentioned a shower, formed with metering push button assembly as "Cobra Watertech KM100" and ”KM9.13" push button or other approved, connected to water supply, including the necessary couplings, etc.

Take from assembly 15mm diameter copper water pipe to shower rose as "Castle Watertech Vandalmaster" or other approved.

Provide and fix to each shower unit a standard steel frame access window ref. No. NG 6 with 3mm sheet metal panel and mild steel strips.

1766

WATER BLENDER:

Provide and fix to water supply pipes where shown or directed an approved blender with 25mm inlet and 32mm outlet.

1767

STOP COCKS:

Provide and fix in "HOT" and "COLD" water supply pipes inside the building where shown or directed approved brass chromium-plated screwed down stop cocks, and as described in clause 16.53 of OW 371 .

1768

STOP COCKS TO SANITARY FITTINGS:

The hot- and cold water supply to new sanitary fittings to be fitted with chromium-plated brass stop cocks as described in clause 16.53 of OW 371.

1769

PEDESTAL WATER CLOSET PANS AND LOW LEVEL CISTERNS:

Provide and fix a pedestal closet pan in positions shown as described in clause 16.51 of OW 371 and provide low level cisterns over pans as described in clause 16.51 of OW 371. Connect to outlet of pan with 100mm diameter cast iron pan connector fitted with inspection bend and socketed and to fit over outlet of pan, taken through wall to continue down on wall with 100mm diameter cast iron pipe and connect to

upturned end of stoneware drains or to junctions on 100mm diameter cast iron soil and ventilation pipe.

1770

STAINLESS STEEL WATER CLOSET PAN/S IN CELL/S:

Provide and fix water closet pan(s) in cell(s), formed out of 1,0mm thick type 304 stainless steel as "OVE Model OSP A1" or other approved.

Connect to outlet of closet a cast iron trap and from trap connect a 100mm cast iron pan connector fitted with inspection bend and socketed end, taken through wall to continue down on wall with 100mm diameter cast iron pipe and connect to upturned end of stoneware drains or to junction on 100mm diameter cast iron soil and ventilation pipe.

1771

FLUSH VALVES (POL. 001/3):

Provide and fix on external face of cell wall(s) outside each closet pan a chromium-plated flush valve as "Castle Watertech FM 3.402" or other approved with push button assembly, complete with integral vacuum breaker and 32mm female inlet control stop, complete with chromium-plated flush pipe connector as "Castle Watertech FM 820" or equal and approved.

The flush valve is to be provided with a push fork and face plate but the contractor must provide a 20mm diameter galvanised mild steel sleeve pipe and of length to suit the thickness of wall, threaded both ends with socket and 76mm flange for securing to outside face of wall.

1772

HARNESS TO CISTERN:

Provide and fix in position 25 x 3mm flat iron bands, bent and welded to suit cisterns and secured with M8- "RAWL" or other approved bolts to walls as shown on drawing.

Quantity:

1773

REFIX LOOSE HARNESSES:

Refix loose harnesses properly and leave perfectly.

Quantity:

1774

BATHS (PRESSED STEEL):

Provide in bathrooms where shown pressed steelbaths as described in clause 16.51 of OW 371. Provide trap and from trap take 40mm galvanised mild steel waste pipe through wall, fit brass inspection bend and continue down wall and connect to inlet in gulley.

1775

STAINLESS STEEL DRINKING FOUNTAIN IN CELL/S:

Provide and fix in each cell a drinking fountain, formed out of 1,0mm thick type 304 stainless steel and as "OVE Model OSB 1A" or equal and approved, complete with 15mm diameter brass press button tap, fixed to top of fountain. The unit to be fitted with a standard 38mm diameter chromium-plated outlet fitting.

Connect to outlet of unit a galvanised mild steel waste pipe take through wall and fit brass inspection bend and connect to inlet on gulley.

1776

STAINLESS STEEL W.H.B. IN CELL YARD:

Provide and fix in each cell yard a wash hand basin, formed out of 1,Omm thick type 304-stainless steel and as "OVE Model 1B" or equal and approved, complete with "Castle Masterfountain Model KR 1-10" or equal and approved.

The unit to be fitted with a standard 38mm diameter chromium-plated outlet fitting.

Connect waste outlet to 32mm diameter galvanised mild steel pipe, bent and taken into chase in wall and returned to discharge into floor channel.

1777

STAINLESS STEEL WASH HAND BASINS:

Provide in each ablution where shown an approved stainless steel wash hand basin of 1,21mm thick type 304-stainless steel, size 609 x 406 x 280mm, complete with approved cold water push button tap supported on and fixed with 38 x 10mm T-mild steel brackets in walls. Connect waste outlet to 32mm diameter galvanised mild steel pipe, bent and taken into chase in wall and returned to discharge into floor channel.

1778

SINK WITH CUPBOARD:

Provide and fix where shown a sink with cupboard in wood or mild steel as specified approximately 1,6m long, 860mm high and 533mm deep, containing two or three cupboards with shelves and single bowl stainless steel sink and draining unit as described in clause 16.51 of OW 371. Connect to outlet of sink with 40mm lead trap and from trap take 40mm diameter galvanised mild steel pipe through wall, fit with brass inspection bend and connect to inlet on gulley. Fit the hot- and cold water supply pipes over sink with chromium-plated bib taps as described in clause 16.53 of OW 371 .

1779

WATER STORAGE HEATER/S:

Storage heater(s) where indicated or mentioned, according to type and capacity as specified and as described in clause 16.61 of OW 371 .

Type: Capacity: Quantity:

1780

Allow to disconnect existing water storage heater(s) and remove from the site. Quantity:

1781

HOT WATER SUPPLY (ELECTRIC CYLINDER MOUNTED ON WALL WITH TANK IN ROOF):

Connect to outlet of electric cylinder mounted on wall with 20mm diameter galvanised mild steel screwed and socketed piping, rise up into roof and insert T-piece. From T-piece on pipe connect 20mm diameter piping, take along in roof as required, drop down through ceilings and connect to 15mm lead or copper service pipes and connect to the "HOT" taps on fittings. From T-piece on pipe above ceiling connect 20mm diameter piping, take up to height above water supply tank, with top end turned down as expansion pipe.

1782

HOT WATER SUPPLY (COMBINATION ELECTRIC CYLINDER IN ROOF):

Connect to electric cylinder in roof with 20mm diameter galvanised screwed and socketed mild steel piping, take along in roof as required, drop down through ceiling and connect to 15mm lead or copper service pipe and connect to "HOT" taps on fittings. From T-piece on pipe above ceiling connect 20mm diameter piping, take up to suitable height above roof, with top end turned down as expansion pipe.

1783

W.C. SUITES (SERVICING):

Examine all W.C. suites throughout all buildings in contract. Refix all loose brackets and seats, etc.

1784

Allow for the replacement of the necessary items as specified below:

1785

SERVICE FLUSHING CISTERNS:

Thoroughly wash and clean out interior of flushing cisterns. Remove ball valve, remove all furring, replace washers, refit and adjust ball valves. Replace beta valve washer.

1786

Allow for the replacing of the items as specified below:

1787

REPLACE BALL VALVES:

Remove existing worn out ball valves and balls. Provide and fit new similar approved ball valves, including new balls of copper, P.V.C., plastic or polystyrene, complete with silencing pipe.
Ball valves shall bear the Standardisation mark of SABS. Adjust ball valve.

1788

For W.C. cistern.

Quantity:

1789

For supply tank.

Quantity:

1790

For geyser.

Quantity:

1791

SERVICE FLUSHING CISTERNS OF URINALS:

Thoroughly wash and clean interior of flushing cisterns. Remove ball valve, remove all furring, replace

washers, refit and adjust ball valves.

1792

REPLACE WATER CLOSET PANS:

Disconnect and remove existing cracked or damage water closet pans. Provide and install new water closet pans as described below, including the connection of pipes to closet pans as described in clause 16.25 of OW 371.

1793

Pedestal closet pans as described in clause 16.51 of OW 371.

Quantity:

1794

School type pedestal closet pans as described in clause 16.51 of OW 371.

Quantity:

1795

REPLACE FLUSHING CISTERNS:

Remove existing worn out flushing cisterns.

Provide and fix new cisterns as specified below, including the connection of pipes to cisterns and closet pans as described in clause 16.25 of OW 371. Make good in all trades.

1796

Low level flushing cistern as described in clause 16.51 of OW 371 .

Quantity:

1797

TOILET SEATS (WOOD):

The toilet seats to be double flap type, each of laminated construction with five ply hardwood fused together by pressure and heat, using waterproof urea formaldehyde adhesive and finished off with epon plastic resin for resisting household and uranic acids.

Flaps to be secured to pan complete with approved chromium-plated pillar type hinges with nuts, washers and rubber buffers as "Masterbilt everlast" or similar approved.

1798

Allow for the removing of the existing defective toilet seats.

1799

Quantity:

1800

TOILET SEATS (HEAVY DUTY PLASTIC):

Provide heavy duty plastic double flap seats to closet pans. Flap to be secured to pan, complete with rubber buffers, etc.

1801

Allow for the removing of the existing defective toilet seats.

Quantity:

1802

WASH HAND BASIN/S:

Provide and fit where shown, vitreous china or white glazed fire clay wash hand basin/s as described in clause 16.51 of OW 371.

Provide and connect a metal trap to waste outlet of wash hand basin as described in clause 16.51 of OW 371. Connect the trap to waste outlet of basin with 40mm diameter galvanised mild steel waste water pipes and take through wall. Fit a brass inspection bend, lengthen waste pipe and connect to inlet of gulley.

1803

REPLACE WASH HAND BASINS (BRACKET TYPE):

Disconnect cold, hot and waste pipes, remove wash hand basin complete with brackets. Remove taps from wash hand basin and store for re-use if required as later specified. Re-use trap, except if replacement is specified elsewhere.

Provide and fit new wash hand basin as described in clause 16.51 for vitreous china and white glazed fire clay or wash hand basins, but without taps.

1804

Fit existing taps previously specified to be stored for re-use, on new wash hand basins and reconnect water supply pipe to taps, including the reconnecting of existing traps. Test for leaks.

1805

Provide and fit wash hand basins with new chromium-plated easy clean screw down pillar taps as described in clause 16.53 of OW 371, and reconnect water supply pipes to taps.

1806

Reconnect traps stored for re-use.

1807

Provide and fit new approved metal traps.

1808

Type: Quantity:

1809

REPLACE WASH HAND BASIN/S (PEDESTAL TYPE):

Disconnect cold, hot and waste pipes, remove wash hand basin(s) complete with pedestal. Remove taps from wash hand basin and store for re-use, if required as later specified. Re-use trap, except if replacement is specified elsewhere.

Provide and fit new wash hand basin (s) as described in clause 16.51 of OW 371 for vitreous china or white glazed fire clay, but of the pedestal type. Pedestal(s) shall be provided according to the manufacturer's specification.

1810

Fit existing taps previously specified to be stored for re-use, on new wash hand basins and reconnect water supply pipe to taps, including the reconnecting of existing traps. Test for leaks.

1811

Provide and fit wash hand basins with new chromium-plated easy clean screw down pillar taps as described in clause 16.53 of OW 371, and reconnect water supply pipes to taps.

1812

Reconnect traps stored for re-use.

1813

Provide and fit new approved metal traps.

1814

Type:

Quantity:

1815

WALL MOUNTED URINALS:

Provide and fix in position where shown or mentioned, wall mounted urinals as described in clause 16.51 of OW 371.

Provide and connect to each trap a 38 to 50mm galvanised reducer, connect to each reducer a 50mm UPVC waste pipe, take through -and down walls up to ground level, fit 50 to 100mm cast iron reducer and connect to upturned end of drain pipe,

1816

TOILET ROLL HOLDERS:

Provide and fix in each W.C. chromium-plated toilet roll holders as sample 71, screwed to 178 x 127 x 19mm hardwood block to plugs in walls.

1817

TOWEL RAILS:

Provide and fix in position where directed a 20mm diameter towel rail, 760mm long, supported on chromium-plated brackets as sample 115.

1818

REPLACE BATH:

Break down brick wall to open ends of bath, where it occurs. Disconnect cold-, hot- and waste pipes and remove bath and fittings. Remove taps from bath and store for re-use, except if replacement is specified

elsewhere.

1819

Provide and fit a new metal bath as described in clause 16.51 of OW 371.

1820

Provide and fit a new acrylic bath as described in clause 16.51 of OW 371 .

1821

Reconnect existing waste pipe to new trap. Reconnect hot and cold water pipes to new taps.

1822

Reconnect existing waste pipe to new trap. Fit taps stored for re-used to bath and reconnect to hot and cold water pipes.

1823

Brick up open ends of bath with approved burnt clay bricks on edge. Build wall slightly back for plaster and/or tiling work, as required. Form a 305 x 305mm opening in brickwork at waste end of bath, to allow for access to connections for future repairs. The opening shall be provided with a 50 x 32mm timber frame, screwed to plugs in brickwork and then covered with a 6mm thick bevel-edged tempered hardboard panel, with corners screwed to frame with chromium-plated brass round-headed screws.

Tile bricked up sides of bath with 152 x 152 x 5mm thick glazed wall tiles as described in clause 15.4 of OW 371 and make good in all trades. New tiling to match existing.

Replace bath as follows:

Type: Length: Quantity:

Colour:

1824

SINKS AND DRAINING BOARDS (REPLACE):

Disconnect as required, take out sink and draining board and remove from site.

Provide and fix in position wood or steel cabinet as specified with stainless steel sink and draining board complete with new trap and taps to match existing.

Length: Quantity:

1825

RAINWATER TANK (REPLACE):

Carefully disconnect rainwater pipes feeding the tank and store for re-use. Take down existing tank from stand and remove from site.

Provide new tank as described in clause 16.52 of OW 371 and fix down with 4mm thick wire to existing hoop iron anchors. Re-fix rainwater pipes removed and make good to walls and rainwater pipes to match existing.

1826

SERVICE WASH HAND BASINS AND BATHS:

Clean overflows and fill in openings between wash hand basins and/or baths and tiling with white cement.

1827

SERVICE SINKS:

Examine and securely fix all loose hinges, catches and locks of sink cabinets and leave in good working order.

1828

REFIX TOWEL RAILS:

Remove loose towel rails from wall. Drill out the existing wall plugs and replace with new patent plastic or hardwood wall plugs. Refix towel rails with 38mm long chromium-plated round-headed screws, securely screwed to plugs in wall.

Quantity:

Room(s): ..

1829

REPLACE TOWEL RAILS:

Remove existing defective towel rails to rooms as indicated below. Provide new 19mm diameter chromium-plated towel rails fixed to wall on chromium-plated brackets as sample 115, securely screwed to plugs in wall with 38mm long chromium-plated round-headed screws.

Length: Quantity:

Room (s):.....

1830

REPLACE TOILET PAPER HOLDER:

Remove existing broken toilet paper holder. Provide a new approved chromium-plated toilet paper holder, fix to wall with 32mm long chromium-plated round-headed screws, screwed to plugs in wall.

Quantity:

1831

HEATING STOVES (FLUE THROUGH ROOF):

Provide and set in position where shown on drawings or as specified a "Rayburn" or other approved heating stove of the sizes as mentioned below.

Connect to flue outlet of heater with cast iron bend with cleaning door, and from bend take 127mm diameter fibre cement flue piping up through existing safety sleeve as directed, with top end of pipe level with ridge of roof or to such other height as specified, fitted with hood, formed with 0,60mm thick galvanised sheet iron fixed to flue pipe with brackets formed with 25 x 3mm thick galvanised hoop iron, bolted on to pipe with approved holder bats fitted under collars of bend and piping and build tails into walls in 3:1 cement mortar.

Provide a 0,80mm thick conical galvanised sheet iron cover, fitted and fixed to pipe with 38 x 0,80mm thick galvanised sheet iron collar, bolted around pipe and to safety sleeve with brackets as shown.

1832

Allow for provision of and staying the flue pipe to roof with two stays formed with 25 x 6mm thick galvanised mild steel fat bar, bent around and bolted to pipe and to roof purlins with roofing screws.

1833

HEATING STOVES (FLUE THROUGH WALL):

Provide and set in position where shown on drawings or as specified a "Rayburn" or other approved heating stove and sizes mentioned below.

Connect to flue outlet with 127mm diameter fibre cement flue piping of the length required and take through hole in wall. Provide a collar, neatly formed out of 0,60mm thick galvanised sheet iron, fitted around pipe and screwed to fibre cement panel.

Size:

1834

HEATING STOVES (REPAIRS):

Examine all the heating stoves, re-fix loose doors and pipe brackets and leave perfectly.

1835

Allow for the replacing of items as specified below:

1836

PROVIDE SAFETY SLEEVE FOR STOVE PIPES:

Cut holes through ceilings and roof covering to sizes required. Prepare for and provide a sleeve pipe complete with trimmers and flange, fixed to ceiling and trimmers with M10 bolts and finish off on top of roof covering with sole cover and cone flashings.

1837

FIBRE CEMENT PANELS BEHIND STOVES:

Provide and fix in position where directed behind slow combustion stoves fibre cement panels formed with 12mm thick fibre cement sheets of the sizes required, finished around outer edges with 0,80mm thick galvanised sheet iron frame, 44mm girth, twice bent to form rebate for fibre cement panel and flange for fixing, drilled for screws and neatly mitred and lapped at corners and screwed to hardwood plugs in walls at not exceeding 225mm centres.

1838

FIBRE CEMENT TRAYS FOR STOVES:

Provide and fix under heating stoves shown on drawing or as specified fibre cement trays formed with 12mm thick fibre cement sheets of the sizes shown or specified, finished around edges with 0,80mm thick galvanised sheet iron frame 44mm girth, twice bent to form rebate for fibre cement sheet and flange for fixing, drilled for screws and neatly mitred and lapped at corners and screwed to hardwood plugs in floor or to wood blocks floors at not exceeding 225mm centres.

1839

KITCHEN RANGE:

Set the kitchen range, supplied by the Department of Public Works in the position shown in kitchen and

connect to flue outlet of range with the necessary length of 1,2mm thick black sheet iron flue pipe of diameter required. Take up and connect to opening in wall of chimney 'breast or through roof as shown on drawings or as required.

1840

SERVICE WATER PIPING:

Examine all water piping against wall surfaces, refix loose brackets and repair all water leaks in piping.

1841

REPLACE GARDEN WATER TAPS:

Remove the defective garden water taps. Provide and fit new brass taps with screwed nozzle for hose connection. All taps shall bear the standardization mark of the SABS. Test for leaks.

Size: Quantity:

1842

REPLACE TAP WASHERS:

Provide and replace tap washers to cold- and hot water taps, sink mixers, and stop cocks to showers with approved tap washers. Remove furring to interior of each tap.

Quantity:

1843

REPLACE WATER TAPS:

Remove existing worn out bib- or pillar taps. Provide and connect new chromium-plated brass bib- or pillar taps as described in clause 16.53 of OW 371. All water taps shall bear the standardisation mark of SABS. Where washtrough taps are to be replaced, one of the taps over each compartments to be threaded for hose connection. Test for leaks.

1844

20mm Taps: Quantity:

1845

15mm Taps: Quantity

v

1846

15mm Threaded taps: Quantity:

1847

REPLACE STOP COCKS:

Remove worn out stops cocks. Provide and fit new chromium-plated brass stop cocks and described in clause 16.53 of OW 371. Make good in all trades. Test for leaks.

Type: Size:

Quantity:

1848

REPLACE SINK MIXER WITH SWIVEL NOZZLE:

Remove existing worn out sink mixer from kitchen sink and/or washtrough, complete with swivel nozzle. Provide and fit a new chromium-plated sink mixer with swivel nozzle. Mixer shall bear the standardisation mark of SABS as described in clause 16.53 of OW 371 .

Quantity:

1849

REPLACE SWIVEL NOZZLE OF SINK MIXER:

Replace worn out swivel nozzle of sink mixer with a new similar chromium-plated brass swivel nozzle, securely screwed on to existing sink mixer.

1850

REPLACE SHOWER ROSE:

Remove existing defective shower rose. Provide and connect new approved shower rose to match existing.
Size: Quantity:

1851

REPLACE TRAPS:

Remove existing damaged or rusted traps. Provide and fit to waste fittings and waste pipes a new similar trap. The trap is approximately 40mm in diameter and shall be fitted with an inspection eye, in the case of metal traps. Test for leaks.

Type: Quantity:

1852

REPLACE DOMICAL GRATING:

Replace the defective or missing domical grating with a new wire or plastic domical grating to 100mm or 50mm diameter ventilation pipes.

1853

100mm Diameter:

Quantity:

1854

50mm Diameter:

Quantity:

1855

SOIL WATER AND VENTILATION PIPE:

Provide and fix where shown on drawing, 100mm diameter cast iron soil pipe as described in clause 16.46 of OW 371. Connect ventilation pipe to upturned end of drain and carry up on face of wall to a height not less than 1m above roof or as directed and fit on top with galvanised wire balloon grating. Where the pipe passes

through roof covering, it is to be flashed as described in clause 7.20 of OW 371.

1856

GENERALLY:

Cut holes in walls, roof and ceilings, etc., for pipes and make good, test all plumbing work and examine and make good to roof, gutters and flashings, etc., as in clauses 16.61, 16.62 and 16.63 of OW 371.

1857

SOIL AND WASTE WATER DRAINAGE

1858

PREPARATORY WORK

1859

ALTERATIONS TO EXISTING DRAINS:

Excavate as required and take up branch drain where shown to be removed. Prepare the end of existing drain and extend the drain with new 100mm diameter clay piping to points where shown. Insert new cleaning eye at end of drain and extend all existing inspection eyes under new floor to height of new grano floor finish. (Cast iron cleaning and inspection eye lids to be flush with floor finish).

1860

REMOVE EXISTING DRAINS:

Excavate as required and disconnect and remove all existing soil and waste water drains on the site for the new Buildings and plug the end of drain at boundary with Class C-concrete and fill in the excavations with earth filling well rammed to ground level.

1861

REMOVE DRAIN FITTINGS:

Excavate as required and break up and remove all gullies, dished gullies, traps, bends and other drain fittings on the site for New Building and fill in the excavations as necessary with earth filling well rammed to ground level.

1862

PLUG UP END OF EXISTING DRAIN ENTERING EXISTING INSPECTION CHAMBER:

Plug up end of existing clay waste water drain where shown entering the existing inspection chamber with Class C-concrete, similarly fill in the channel in chamber and bench up same in concrete to match existing.

1863

PREPARE DRAINS FOR NEW CONNECTION:

Excavate as required cut into the existing soil and waste water drains where shown or required and insert new inspection eye junction for connecting to the new branch drains as clause 16.27 Of OW 371

On completion, fill in the excavations with earth filling well rammed to ground level.

1864

PREPARE EXISTING DRAINS FOR NEW CHAMBER:

Excavate as required and take up the existing soil and waste drains where shown, to the extent required for building new inspection chamber and build ends of remaining drains into walls of new chamber as clause 16.35 of OW 371.

After new chamber has been built, fill in the excavations with. earth filling, well rammed to ground level.

1865

PREPARE EXISTING CHAMBER FOR CONNECTING NEW DRAINS:

Excavate as required, and breaks into wall of existing inspection chamber where shown or required for connecting new soil and waste water drains. Hack up the channels in the chamber and build in new channels, etc., embedded in concrete as necessary as clause 16.35 of OW 371.

Make good to walls of chamber with brickwork in cement mortar, and on completion fill in the excavations with earth filling, well rammed to ground level.

1866

REMOVE EXISTING INSPECTION CHAMBER:

Excavate as required and break down the walls of existing inspection chamber where shown and hack up and remove the benching, channels and concrete bases on completion, fill in the excavation with earth filling well rammed to ground level.

1867

NEW WORK

1868

DRAINS AND FITTINGS:

Lay all soil and waste water drains to the lines and gradients indicated and provide cleaning eyes, inspection eyes and gullies to drains as shown on drawings. Test the entire drainage system, as described in clause 16.42 of OW 371.

1869

Allow for the necessary excavation, back filling and all material required for the joining up of the new drain to the municipal connection.

1870

Allow for hacking up and removal of existing concrete paving for the laying of the drains and for repairs on completion, with material to match existing.

1871

Allow for hacking up and removal of existing bituminous surfacing to the extent required for the laying of the drains and for repairs on completion with material to match existing.

1872

CAST IRON SOIL AND VENTILATION PIPES:

The soil and ventilation pipes to drains are to be 100mm diameter cast iron, jointed together as clause 16.25 of OW 371 and fixed to walls with hinged holderbats, pipes to be provided with the necessary junctions, bends, etc., with cleaning eyes bolted on, connected to vitrified clay pipe drain at bottom and carried up through roof to a height of approximately 1m above roof and properly flushed where passing through roof and fitted on top with balloon grating.

1873

PROVIDE INSPECTION CHAMBER IN NEW SOIL WATER DRAINS:

Excavate and build inspection chambers in the positions shown on drawing, complete with manhole covers type 8A as described in clause 16.35 and 16.36 of OW 371.

1874

CONSERVANCY TANK (TYPE DRAWING D260/251):

Form Conservancy tank in position shown on drawing and in accordance with clause 16.38 of OW 371.

1875

SEPTIC TANK (TYPE DRAWING D260/239):

Form septic tank in position shown on drawing and in accordance with clause 16.37 of OW 371.

1876

PREFABRICATED CIRCULAR SEPTIC TANK/S (DRAINAGE DETAILS D21D):

Form the bottom of the tank/s with 150mm thick Class B-concrete, projecting 150mm beyond tank walls on all sides.

Provide and set on top of concrete bottom reinforced prefabricated concrete rings to form one or two chambers, according to the quantity people as indicated below, suitably holed for inlet, centre junction and outlet pipes, having a loose precast reinforced concrete manhole cover to each of the two chambers, all jointed together in accordance with the manufacturer's, all jointed together in accordance with the manufacturer's instructions.

For…….people.

1877

FRENCH DRAIN (DRAINAGE DETAIL, PAGE 16):

Excavate and form french drain in position shown on drawing and in accordance with clause 16.39 of OW 371.

1878

SOAKAGE PITS (DRAINAGE DETAILS, PAGE 17):

Excavate and form soakage pit in position shown on drawing and as described in clause 16.40 of OW 371.

1879

AGRICULTURAL DRAINS (DRAINAGE DETAILS, PAGE 41):

Form agricultural drain with branch spreader drains of lengths shown or specified and in accordance with clause 16.41 of OW 371.

1880

COMBINED SEPTIC AND CONSERVANCY TANK:

The combined septic and conservancy tank shall be of the sizes and depths required, each formed with

bottom and outer walls and inner walls dividing the tank into four chambers in Class E-concrete, reinforced with two thicknesses of steel square welded mesh reinforcement, as ref. 193 , clause 3.33 of OW 371, bent and lapped at intersections of bottom with walls, holed for 100mm diameter vitrified clay pipes and with opening 900 x 900mm formed in wall taken through into dislodging chamber.

Cover walls on top with slab of Class E-concrete, reinforced with mild steel rods, holed for manholes and with concrete 228mm thick or one brick wall in 3:1 cement mortar around openings carried up to ground level or up to made up ground level. Fit on top with type 8A cast iron double seal manhole covers and frames as described in clause 16.36 of 371, with frames of covers bedded in 150mm thick surrounds of Class C-concrete, splayed on top and finished with 2:1 cement mortar, trowelled smooth and rounded on salient angles. Internal surfaces of walls of tanks are to be rendered with 3:1 cement plaster.

Bottoms of tanks are to be laid with falls and graded to sump in floor and to opening in wall taken through into dislodging chamber, and channel shall be formed in centre with 100mm diameter half round vitrified clay channels, jointed in 2:1 cement mortar and benched up to sides of tank with Class C-concrete and rendered with 3:1 cement mortar. Drain pipes of vitrified clay and junctions and C.E. inspection pipes etc./ shall be built into walls, with 2:1 cement mortar.

On completion the tanks shall be filled with clean water and tested, any leakages that may occur to be made good by the contractor as directed and after they have been passed the tanks shall be emptied and left clean.

1881

REPLACE MANHOLE COVERS AND FRAMES:

Hack up concrete surrounds. Prepare and provide new covers with frames as clause 16.36 of OW 371 with frames bedded in concrete surrounds finished off in 2:1 cement mortar as described in clause 16.35 of OW 371 and to match existing.

1882

MANHOLE COVER FRAMES (REFIX):

Hack up concrete surrounds. Bed existing frames in concrete surrounds and finish off in 2:1 cement mortar as described in clause 16.35 of OW 371.

1883

GULLEY GRATINGS (REPLACE):

Provide and replace missing gratings with 190mm diameter cast iron gratings laid loose in sockets as clause 16.28 of OW 371.

1884

DISHED GULLIES (REPLACE KERBING):

Hack off existing kerbing and granolithic finish to concrete bottom. Form new dished hopper, size 760 x 530mm overall, finished off in granolithic as described in clause 16.29 of OW 371 .

1885

GULLIES (REPAIRS):

Hack off the existing plaster on all exposed surfaces and replaster with 2:1 cement mortar, trowelled smooth and rounded on salient angles.

1886

ENCASE EXISTING DRAIN PIPES IN CONCRETE:

Excavate as required and encase the existing clay pipes, where passing underneath new floor in Class C-concrete as shown on page 2 of the Drainage Details.

Do all necessary filling in as required, well rammed to ground level.

1887

REPLACE GULLEY GRATING:

Remove the defective or missing gulley grating and fit a new cast iron grating to gulley head.

Quantity:

1888

CLEANING OF EXISTING FRENCH DRAINS:

The existing french drains are to be opened over their entire length, the stone filling removed, the sides and bottom of trench trimmed to remove all traces of grease, etc., and material removed from site.

On completion thoroughly clean off stone filling previously removed and re-fill as described with all additional stone as required and covered to ground level and make good.

1889

REPLACE CLEANING EYE COVERS:

Provide and replace missing cleaning eye covers with cast iron covers set in bitumen and secured with non-ferrous metal screws.

Quantity:

1890

STORMWATER DRAINAGE

1891

PREPARE EXISTING STORMWATER DRAIN FOR NEW STORMWATER CHAMBER:

Excavate as required and carefully cut the existing stormwater pipe to the extent as required for the connecting of new stormwater pipe where shown on the drawing.

Build a new stormwater chamber as described in clause 16.22 of OW 371; and execute the necessary back filling on completion and leave perfectly.

1892

PIPE UNDER CONCRETE RAMPS OR STEPS:

Provide and lay under ramps or steps at entrances as specified a 150mm diameter concrete pipe as described properly connected to surface water channels as required.

1893

SURFACE WATER CHANNELS (UNDER RAINWATER PIPES):

Form 380mm wide by 0,90m long concrete surface water channels as described in clause 16.21 of OW 371

under rainwater pipes.

1894

SURFACE WATER CHANNELS:

Form 450mm wide concrete surface water channel in position indicated or where mentioned, as described in clause 16.21 of OW 371 .

1895

CONCRETE SLABS OVER SURFACE WATER CHANNELS:

Over the surface water channels provide precast slabs of the sizes specified cast in Class E-concrete, not less than 50mm thick finished on exposed surfaces with 2:1 cement mortar before the concrete has set and finished off on top with wooden float to form a non-skid surface and laid on top of the surface water channels in 3:1 cement mortar.

1896

JUNCTION BOXES:

Provide junction boxes to stormwater drains where indicated on drawings, built as described in clause 16.19 of OW 371.

1897

STORMWATER MANHOLES:

Provide manholes to stormwater drains where indicated on drawings, built and provide with covers as respectively described in clauses 16.22 and 16.36 of OW 371. Covers to be of type 9C.

1898

CATCH PITS:

Provide catch pits to stormwater drains where indicated on drawings, built as described in clause 16.20 of OW 371, but of type as specified below:

1899

CLEAR SURFACE WATER CHANNELS:

Examine all surface water channels around buildings and on site as specified and clear all soil deposits, gravel and vegetable matter and any other obstructions.

1900

CLEAR STORMWATER DRAINS:

Examine all drains, catchpits and manholes of the stormwater disposal system as specified and clear all soil deposits, vegetable matter and any other obstructions.

1901

REPLACE CATCH PIT GRATING:

Hack up concrete surround and kerbing. Provide new frame and grating, set and bedded in 100mm thick concrete kerb of Class C-concrete, splayed down on top towards pit and finished where exposed with 2:1 cement mortar, trowelled smooth and rounded on salient angles.

1902

REPAIRS TO CATCH PITS:

Hack off the existing plaster on all exposed surfaces and replaster with 2:1 cement mortar, trowelled smooth and rounded on salient angles.

1903

REPAIR SURFACE WATER CHANNELS:

Thoroughly overhaul all surface water channels and repair where defective. All cracks to be cut out and filled in and finished off with 2:1 cement mortar to match existing.

All loose sections and sections out of alignment to be taken up and rebedded to correct falls and alignment.

Joints to be cleaned out and re-caulked with a stiff mixture of 3:1 cement mortar and left perfect.

1904

SURFACE WATER CHANNEL (REPLACE):

Take up broken sections and replace with new channels as described in clause 16.21 of OW 371 and to match existing.

1905

WATER SUPPLY. FIRE SERVICE SANITARY PLUMBING AND

1906

COLD WATER SUPPLY CONNECTION:

Open up existing supply pipe where shown or specified, cut and insert T-piece as required for piping and provide approved screw down stop cock and chamber as in clauses 16.53 and 16.55 of OW 371.

Do all necessary excavating and filling in as required and make good on completion to match existing in all trades.

1907

Type and diameter of piping:

1908

TRENCHES FOR WATER SUPPLY PIPES:

Dig trenches in ground for pipes and fill in and well ram after the pipes have been laid.

Trenches to be not less than 400mm deep.

1909

PIPE LAYING:

Provide and connect to the connection previously specified, water supply piping of type and diameter as shown on the drawing or as directed, and lay under-ground to the lines shown or as been directed.

1910

Type and diameter of piping:

1911

At various points where shown, inset T-pieces for branches and lay similar piping to the various points as shown and leave ready for internal connections.

1912

Provide all the necessary tees, bends, etc. and do all the necessary cutting and jointing of piping as required.

1913

STAND PIPES:

Provide and fix where shown 20mm diameter stand pipes, connected to supply pipe in ground and carried up 760mm high, and secured to walls, with galvanised iron brackets built into walls in 3:1 cement mortar and fitted with 20mm brass screw down bib tap with screwed nozzle. Stand pipes away from buildings to be secured to iron standard driven into the ground.
1914

FIBRE CEMENT WATER PIPES (REPLACE):

Excavate and expose existing supply pipes where specified, cut as required and replace with new piping as generally described in clause 16.47 of OW 371. Do all necessary filling in as required.

1915

GALVANISED WATER PIPING (REPLACE WITH COPPER):

Excavate and expose the existing galvanised water supply pipe where shown or specified, cut and insert T-piece as required and from T-piece lay copper piping complying with clauses 16.44 and 16.45 of OW 371.

On completion do all filling in as required and make good to match the existing.

1916

GALVANISED WATER PIPING (REPLACE WITH FIBRE CEMENT):

Excavate and expose the existing galvanised water supply pipe where shown or specified, cut and insert junction piece as required and from junction piece lay fibre cement pressure pipe as clause 16.47 of OW 371.

On completion do all filling in as required and make good to match the existing.

1917

FIRE EXTINGUISHERS:

The contractor must supply all necessary fire extinguishers with brackets and properly fixed to positions shown on drawings. All fire extinguishers must comply with SABS Specifications as described for each type as required.

1918

GLAZING

1919

CLEAR SHEET GLASS:

Glaze the windows indicated or mentioned with 3 mm thick glass and putty as described in clauses 17.1 and 17.2 of OW 371.

1920

CLEAR SHEET GLASS (FANLIGHTS):

Glaze the fanlights indicated with 3 mm thick clear sheet glass as in clause 17.1 of OW 371 and fix to rebates with glazing beads.

1921

POLISHED LAMINATED SAFETY GLASS:

Provide 6 mm thick laminated safety glass as described in clause 17.1 of OW 371 cut to required sizes having edges rounded and polished and fitted to louvred windows.

1922

LAMINATED SAFETY GLASS (CELL WINDOWS):

Glaze all cell windows with 6 mm thick laminated safety glass as respectively described in clauses 17.1 and 17.2 of OW 371.

1923

OBSCURED GLASS:

Glaze the windows indicated or mentioned with obscure glass and putty as respectively described in clauses 17.1 and 17.2 of OW 371.

1924

FLOAT GLASS:

Provide 6 mm thick glass as described in clause 17.1 of OW 371, cut to sizes specified and with edges polished and fitted to louvred windows.

Size: Quantity:

1925

CLEAR SHEET GLASS (REPLACE):

Remove broken panes to windows and doors as specified. Prime rebates and replace with glass and putty as respectively described in clauses 17.1 and 17.2 of OW 371.

Size: Quantity;

1926

OBSCURED GLASS (REPLACE):

Remove broken panes to windows and doors as specified. Prime rebates and replace with obscured glass and putty as respectively described in clauses 17.1 and 17.2 of OW 371.

Size: Quantity:

1927

CLEAR SHEET AND OBSCURED GLASS FIXED WITH BEADS (REPLACE):

Carefully take off the beading to panes and store for re-use.

Prime rebates and replace panes with new obscured glass as specified and as respectively described in clauses 17.1 and 17.2 of OW 371 and refix with beading stored for re-use.

Size: Quantity

1928

PUTTY (REPLACE):

Remove loose and cracked putty from rebates of window panes specified. Prime rebates and reputty with putty as described in clause 17.2 of OW 371.

1929

MIRRORS:

Provide mirrors where shown or mentioned, size 450 x 350 mm of 6 mm thick rounded and polished edge silvered plate glass, as described in clause 17.3 of OW 371.

Each mirror to be drilled four (4) times and countersunk screwed to plugs in wall with 38 mm long screws, fitted with domed chromium-plated cups.

Provide at each fixing point a felt washer between wall and mirror.

Quantity:

1930

REPLACE MIRRORS:

Where mentioned, remove broken or tarnished mirrors from the wall surfaces.

Provide and fix new 450 x 350 mm mirrors of 6 mm thick rounded and polished silvered plate glass, as described in clause 17.3 of OW 371.

Each mirror to be drilled four (4) times and countersunk screwed to plugs in wall with 38 mm long screws, fitted with domed chromium-plated cups.

Provide at each fixing point a felt washer between wall and mirror.

Quantity:

1931

REPLACE MIRROR OF BATHROOM CABINET:

Remove existing broken or tarnished mirror from bathroom cabinet. Provide and fix to external face of door, a new 450 x 350 x 6 mm thick rounded and polished edge mirror of silvered plate glass, as described in clause 17.3 of OW 371.

Quantity:

1932

REPLACE GLASS SLIDING DOORS:

Remove existing cracked or damaged glass sliding doors from wall unit in kitchen. Provide and fit new similar obscured glass sliding doors, 4 mm thick, with polished edges and finger grips, and to match existing sliding doors in all respects.

Size: Quantity:

1933

SAFETY POLYESTER FILM:

Provide and fix to the internal surfaces of window glass and glass doors, safety polyester film, and shall be as described hereafter:

THE MATERIAL:

Safety film is a converted product and must therefore consist of the following constituents:

First grade optically clear stabilized polyester (P.E.T.) film and must be scratch resistant. This film is to be coated with detackified pressure sensitive acrylic solvent based adhesive where a protective release line is not provided. Adhesive coating must be done by gravure or reverse roll method, so as to ensure continuous even application of adhesive, both longitudinally and transversely. Should the coating method used be Meyer rod or similar such method, a Dokter Bar must be used to ensure even adhesive coating. Ultra Violet inhibitors must be added to the adhesive at the time of coating to ensure adequate protection of both the adhesive and the film from Ultra Violet degradation where the film is not coated with a detackifier a silicone coated polyester release liner shall be applied at the time of manufacture, so as to ensure adequate protection of the adhesive and to prevent contamination of self adherence.
The base polyester must be of 50 micron (0,05mm) gauge and protected on its exterior facing (the surface facing the interior of the room) with a scratch resistant coating of a type that will not discolour with ageing. This coating must be capable of producing a haze factor of 5% or less when subjected to 100 cycles of the Standard CS10F Taber Abrader utilizing 500 gram weights, test as per ASTM test method D1044-85.

The adhesive must be acrylic pressure sensitive solvent based, and must contain Ultra Violet inhibitors, producing an inhibition factor of not less than 89%.

The adhesive deposition must not be less than 12 g/m^2 being the optimum.

The peel strength of the film to be as follows:

180° Peel Adhesive at 300 mm/min Jaw separation.

TD 35N/100 mm width minimum.
MD 40N/100 mm width minimum.

PHYSICAL PROPERTIES OF THE MATERIAL:

Colour: optically clear (water clear) when adhered to glass.
No visible distortion or marks should be apparent when examined after removal of the release liner. No contamination in the adhesive shall be evident to the naked eye.

Tensile Strength: TD 1200N/100 mm width
MD 700N/100 mm width

Elongation at Break: TD 55 to 100%

MD 120 to 180%

FIRE RESISTANCE:

Fire resistance where adhered to glass shall be rated: Class one pass, that is non-combustible and self extinguishing. (This is with regard to both fire propagation and ignitability, as well as flame spread).

WEATHERING:

All material should meet the South African Bureau of Standards Standard Specification for Safety Glazing Materials (SABS 1263 -1986 revised) in terms of the requirements set for organic coated glass i.e. glass with Safety film.

IMPACT RESISTANCE:

As above, all material submitted in terms of this specification must be capable of passing those sections of SABS 1263, which are relevant to organic materials and their use as Safety Glazing materials with particular respect to Part 1.

CERTIFICATION BY THE MANUFACTURER:

The manufacturer must clearly state on the supply invoice or on a separate letter pertaining to that specific invoice the following:

(a) That all Safety film supplied meets the prerequisites of this specification.

(b) That all Safety film supplied will be of first grade quality.

(c) That all rolls will be individually marked with a manufacturing serial number, which is to be applied both to the exterior of the outer protective cardboard box and to the inside surface of the core to which the film itself is affixed.

(d) The manufacturer must submit the quality of the film e.g. pullstrength, extensibility, peeling resistance, ultra violet resistant, etc.

The above is common procedure for all manufacturers of this product and variance from the above is not acceptable.

EXTERNAL SAFETY FILM:

Where it will be necessary to apply the safety film on this external surface of the glass, same must contain Ultra Violet stabiliser and shall be of good quality to withstand the two (2) years guarantee period. The specification in general will be applicable to the external safety film as well.

GUARANTEE:

The contractor must guarantee the film and sealing compound, after installation, against cracking peeling, discoloration and tunnelling, for a period of five (5), years where applied on the internal surfaces of the glass and where external grade film is applied on the external surfaces, the period shall be two (2) years. (Only where burglar proofing etc. should be removed at great expense). Any defected material and poor workmanship within the guarantee period shall be replaced at the contractor's own expense.

If the manufacturer will guarantee the material this shall be taken into consideration at the adjudication of the tender.

QUALITY CONTROL:

The contractor agrees as a condition of this specification that he will ensure that the film purchased and specifically allocated for the contract will be available to the SABS for quality control inspections and tests at the request of the Department. Furthermore, the contractor agrees to the random selection of samples from the installation site by the SABS inspectorate, in order to ensure that continuous maintenance of the standards set in the specification.

Non compliance with the above will result in the immediate suspension of the contract and may result in the contractor being liable to remove and replace all the film installed up until that date. In the event of a dispute between the contractor and the Department, the SABS and, or their appointed consultant will determine the final quality of the material to which both parties agree as a condition of this contract.

APPLICATION SPECIFICATION:

The application of Safety film is a specialised field requiring specialized skills and experience. Contractors not specialised in this field could inadvertently damage the film at the time of application, or even prior to application, resulting in product failure and subsequent unnecessary serious injury and loss of life. For this reason, only specialist Safety Film application companies with proven experience, major contract track records and proven trained experienced employees will be acceptable to the Department.

APPLICATION PROCEDURES:

The following procedures must be adhered to at all times.

(a) The entire glass surface must be scraped using a standard 100 mm width razor scraper. This must be done in such a manner so as not to crack or scratch the glass.

(b) After cleaning, the edges of the frame must be wiped clean of excess moisture and dirt, with a soft cloth.

(c) All film must be cut oversize and then trimmed down, once applied to the glass.

(d) Film trimming must be done with a trimming guide. No film may be trimmed free hand, unless it is applied in areas where it is impossible to fit a guide, or in difficult places, such as around window latches or handles.

(e) A uniform gap of 1 mm to 3 mm must be left between the edge of the film and the frame.

(f) Joins are to be done only where necessary. I.e. where width or height of the pane is in excess of 1524 mm in conjunction with approval of the Representative/Agent.

(g) Only horizontal splices will be acceptable.

(h) When doing a splice, the larger portion of film must be applied to the upper section of the pane

(i) All splices must be butt jointed and not overlapped. A gap of not more than 1 mm is allowable.

SPECIAL INSTRUCTIONS:

(a) No film may be installed to glass that is signwritten, damaged, sand blasted or etched, unless advised to do so by the Representative/Agent.

(b) No film is to be applied without the approval of the Agent/Representative of the method to be utilized, to frosted, opaque, tinted or reflective glass, due to the possibility of poor adherence or breakage due to thermal stress.

(c) No decals or burglar alarm tapes are to be removed or filmed over without the prior consent of Agent/ Representative.

(d) No film is to be applied to any plastic or polycarbonate type material.

(e) No such film is to be applied to cracked or damaged glass. All such glass must be noted and brought to the attention of the Representative/Agent.

APPEARANCE AFTER APPLICATION:

(a) As film requires more than thirty days to cure, visual imperfections, such as streaking, distortion,

moisture bubbles etc. may be evident. This must cure out within 30 days of application, leaving an undistorted visually clear window pane free from streaks, bubbles, creases and marks.

(b) When the film is applied and thoroughly dry, same must be optic transparent, without deformation of sight.

WORKSHEETS:

The contractor and Representative/Agent shall measure and maintain an accurate record of the glass area that film has been applied to, and shall have this available if necessary.

SEALING COMPOUND:

Sealing compound to be as supplied by the manufacturer. The sealing compound to be covered 2 mm over edge of glass and film to give resistance against peel.

SAMPLES:

The successful tenderer will be required to provide the Regional Office with fifteen (15) small samples 150 mm x 150 mm of the film to be used as well as fifteen samples of film affixed to glass.

1934

PAINTING

PREPARATION FOR PAINTING:

CLEANING DOWN: Cleaning down shall mean washing down with approved cleanser, filling as necessary, rubbing down to an even surface and hosing down to remove all dust and loose particles.

WIRE BRUSHING: Wire brushing shall mean wire crushing to a clean and solid surface, filling as necessary, rubbing down to an even surface and hosing down to remove all dust and loose particles.

RUB DOWN: Rub down to bare surface shall mean complete removal of everything to the base of material.

KNOT, PRIME AND STOP: As described in OW 371.

1935

EXTERNAL PAINTING

1936

GALVANISED IRON ROOF (NEW):

Degrease with an approved detergent or solvent, paint one coat calcium plumbate or other approved primer and one coat approved roof paint.

1937

IRON ROOF COVERING (UNPAINTED AND RUSTED):

Remove all rust by mechanical or hand cleaning methods. Treat the remaining light rust with rust neutraliser. Clean the entire area thoroughly with a strong detergent and scrubbing brush, rinse off thoroughly with clean water and allow to dry.

Paint the entire roof area with one coat calcium plumbate and two coats approved roof paint.

1938

GALVANISED IRON ROOF COVERING (UNPAINTED AND WEATHERED BUT NO RUST VISIBLE)

Clean and paint one coat calcium plumbate primer or other approved primer and paint one coat roof paint.

1939

GALVANISED IRON ROOF COVERING (IN GOOD CONDITION):

Clean down with wire brushes and paint one coat roof paint.

1940

Where occur, remove flaked paint coating to bare surface, clean properly and paint one coat calcium plumbate primer and leave ready for roof paint as described above.

Square metres:

1941

GALVANISED IRON ROOF COVERING (PAINT IN BAD CONDITION):

Remove paint coating to bare surface, clean properly and paint one coat calcium piumbate primer and one coat roof paint.

1942

UNDERSIDE OF GALVANISED IRON ROOF COVERING (UNPAINTED):

Clean and paint two coats bituminous aluminium paint.

1943

GALVANISED IRON ROOF (PAINT UNDERNEATH WHERE EXPOSED):

Degrease with an approved detergent or solvent, apply one coat calcium plumbate or other approved primer and one coat approved roofing paint. Existing painted surfaces are to be cleaned and painted one coat approved roofing paint, all as specified.

1944

UNDERSIDE OF CORRUGATED IRON ROOF COVERING PAINT IN BAD CONDITION):

Clean down to remove flaked or otherwise defective paint coating back to a bare surface and apply two coats bituminous aluminium paint.

1945

PAINT EAVES OVERHANG (FIBRE CEMENT OR GYPSUM PLASTER BOARD):

Remove all loose and flaking paint from previously painted surfaces of cave ceilings, stop up holes and sand down to a smooth and even surface and paint ceilings with two coats acrylic emulsion paint.

1946

FIBRE CEMENT ROOF (UNPAINTED):

Clean and once coat with an approved fungicidal solution and apply two coats fibre roof paint.

1947

FIBRE CEMENT ROOF (PAINTED)

Clean and apply two coats approved fibre roof paint.

1948

CLEANING OF ROOF COVERING (FIBRE CEMENT AND TILE ROOFS):

Remove all organic growth, fungus and mould off fibre cement and tile roofs by means of a water sandblast high pressure machine with a minimum operation of 6 894,759 KN/m^2, or any effective method. On completion, apply two coats of approved fugus preventing solution to entire roof surface,

N.B.:

Any damaging of roofing tiles, etc. shall be repaired or replaced by the contractor at his own expense.

1949

PAINTED FIBRE CEMENT ROOFS WITH PAINT STILL IN GOOD CONDITION (PAINT WITH ACRYLIC ROOF PAINT):

Clean down and paint two coats approved acrylic roof paint.

1950

PAINTED CONCRETE FLAT ROOFS IN MASTIC FINISH (REDECORATE WITH ALUMINIUM):

Clean to remove all dust and dirt. Clean out and prime cracks and other defects, make good and fill in cracks with an approved sealer cement and apply two coats bituminous aluminium to roofs where mentioned below:

1951

CONCRETE FLAT ROOFS COVERED WITH BITUMINOUS SHEETING AND PAINTED (REDECORATE WITH ALUMINIUM PAINT):

Clean to remove all dust and dirt and paint the whole area with two coats bituminous aluminium paint where mentioned below:

1952

CONCRETE SLABS, BEAMS AND LINTELS (PAINT WITH EMULSION PAINT):

Prepare for and paint the fronts and underside of slab at eaves projecting over beams, and exposed surfaces of beams and lintels with three coats emulsion paint, where specified.

1953

PAINT CONCRETE SLABS, BEAMS AND LINTELS CAST IN ONE OVER FACE BRICK WALLS (REDECORATE WITH EMULSION PAINT):

Clean, prepare for and paint the fronts and underside of slabs at eaves projecting over beams and exposed surfaces of beams and lintels with two coats emulsion paint, where specified.

1954

NEW GUTTERS AND RAINWATER PIPES (PAINT):

OUTSIDE: Degrease, paint one coat self-etch primer one undercoat and one coat high gloss paint.

GUTTERS INSIDE: Clean and paint one coat bituminous paint.

1955

PAINTED GUTTERS AND RAINWATER PIPES (PAINT IN GOOD CONDITION):

Clean, rub down and apply:-

OUTSIDE: One undercoat and one coat high gloss paint.

GUTTERS INSIDE: Clean and paint one coat bituminous paint.

1956

PAINTED GUTTERS AND RAINWATER PIPES (PAINT IN BAD CONDITION):

Clean down and remove existing paint coating completely. Rub down and paint:-

OUTSIDE: Primer coat, one undercoat and one coat high gloss paint.

GUTTERS INSIDE: Clean and paint one coat bituminous paint.

1957

UNPAINTED FIBRE CEMENT GUTTERS AND RAINWATER PIPES:

Clean down, prepare and treat surfaces with approved bonding liquid and paint surfaces two coats approved acrylic emulsion paint.

1958

NEW WOODEN FASCIA AND BARGE BOARDS:

Prepare and paint one primer coat, two undercoats and one coat high-gloss paint.

1959

PAINT WOODEN FASCIA AND BARGE BOARDS (PAINT IN GOOD CONDITION):

Rub down with sandpaper. Clean and paint one undercoat and one coat high-gloss paint.

1960

PAINTED WOODEN FASCIA AND BARGE BOARDS (PAINT IN BAD CONDITION):

Remove paint coating back to bare surface. Knot and stop, etc., and paint one primer coat, two undercoats and one coat high-gloss paint.

1961

UNPAINTED FIBRE CEMENT FASCIA AND BARGE BOARDS (PAINT WITH ACRYLIC EMULSION PAINT):

Clean down, prepare and treat surfaces with approved bonding liquid, prime nail heads with flat paint and paint surfaces two coats approved acrylic emulsion paint.

1962

PAINTED FIBRE CEMENT FASCIA AND BARGE BOARDS WITH PAINT STILL IN GOOD CONDITION

(PAINT WITH ACRYLIC EMULSION PAINT):

Wash down with an approved detergent, rub down, prepare and paint two coats approved acrylic emulsion paint.

1963

PAINTED FIBRE CEMENT FASCIA AND BARGE BOARDS WITH PAINT IN BAD CONDITION (PAINT WITH ACRYLIC EMULSION PAINT):

Remove paint coating back to bare surface. Rub down to a smooth surface, treat with approved bonding liquid, paint nail heads with flat paint and paint surfaces two coats approved acrylic emulsion paint.

1964

SHEET IRON CAPPING (NEW):

Degrease with an approved detergent or solvent and apply one coat calcium plumbate self-etch primer or other approved primer, one undercoat and one coat high-gloss paint.

1965

SHEET IRON CAPPING (PAINTED):

Clean down, prepare for and paint one undercoat and one coat high-gloss paint.

1966

WOODEN COVER STRIPS (NEW):

Prepare and paint new wooden cover strips one primer coat, two undercoats and one final coat high-gloss paint.

1967

SPROCKETS INCLUDING BOTTOM PURLIN (NEW):

Rub down, prepare for and paint one primer coat, two undercoats and one coat high-gloss paint.

1968

SPROCKETS INCLUDING BOTTOM PURLIN (PAINTED):

Rub down, clean and paint one undercoat and one coat high-gloss paint.

1969

NEW CLOSED IN SOFFITS TO EAVES AND VERGES WITH GYPSUM BOARD, AND FIBRE BOARD (PAINT WITH EMULSION PAINT):

Prepare for and paint wood cornices and cover strips one coat flat paint. Prime nail heads and paint two coats emulsion paint over the whole area.

1970

PREVIOUSLY OIL OR EMULSION PAINTED CLOSED SOFFITS TO EAVES AND VERGES WITH GYPSUM PLASTER BOARD AND FIBRE BOARD (REDECORATED WITH EMULSION PAINT):

Clean down and paint two coats emulsion paint.

1971

Remove all loose and flaking paint to bare surface, where same occur at eaves and verges, prepare and paint one coat bonding liquid.

Square metre:

1972

WOOD CLOSED SOFFITS TO EAVES AND VERGES (PAINTED):

Rub down, prepare for and paint one undercoat and one coat high-gloss paint.

1973

ROOF TIMERS (TIMBER PRESERVATIVE):

Clean down, prepare for and twice coat with timber preservative the eaves sprockets and purlins, etc., to the buildings specified.

1974

VERANDAH WOODWORK (NEW):

Prepare as described in clause 18.1 of OW 371 and paint one primer coat, two undercoats and one coat high-gloss paint.

1975

PAINTED VERANDAH WOODWORK (PAINT IN BAD CONDITION):

Remove paint coating back to bare surface and rub down. Clean, knot, stop and paint one primer coat two undercoats and one coat high-gloss paint.

1976

PAINTED VERANDAH WOODWORK PAINT IN GOOD CONDITION):

Rub down, clean and paint one undercoat and one coat high-gloss paint.

1977

PAINT VARNISHED EXTERNAL WOODWORK:

Remove all varnish on previously varnished woodwork by means of a varnish remover, or any other approved method and thoroughly clean woodwork. Stop up holes, treat all knots with knotting and sand down to a smooth and even surface. Paint woodwork with one prime coat, one undercoat and one coat high gloss paint.

1978

VARNISH VARNISHED EXTERNAL WOODWORK:

Thoroughly sand down all varnished woodwork to a smooth and even surface. Stop up holes or other defects with an approved stopping, tinted to match the colour of the wood surface.

Sand down surfaces to a smooth and even surface. Apply two coats of polyurethane surface coat resistant against ultra violet rays, to woodwork.

1979

NEW VERANDAH MILD STEEL TUBULAR POSTS:

Degrease and prepare as in clause 18.1 of OW 371 and paint one primer coat, one undercoat and one coat high-gloss paint.

1980

PAINTED VERANDAH MILD STEEL POSTS (PAINT IN GOOD CONDITION):

Clean down and paint one undercoat and one coat high-gloss paint.

1981

PAINTED VERANDAH MILD STEEL POSTS (PAINT IN BAD CONDITION):

Clean down and remove existing paint coating completely. Prepare as for new metal surfaces as described in clause 18.1 of OW 371 and paint one primer coat, one undercoat and one coat high-gloss paint.

1982

PAINT STOEP CEILINGS:

Thoroughly clean off all painted stoep ceilings, stop up holes and sand down to a smooth and even surface. Apply two coats of acrylic emulsion paint to all stoep ceilings.

1983

VARNISH STOEP CEILINGS:

Thoroughly clean off all varnished stoep ceilings, stop up holes and sand down to a smooth surface. Apply two coats of clear varnish.

1984

NEW PLASTERED SURFACE (TO BE PAINTED WITH EMULSION PAINT):

Prepare new plastered surfaces and paint three coats emulsion paint.

1985

PAINTED EXTERNAL WALL SURFACE WITH PAINT FILM IN GOOD CONDITION (PAINT WITH EMULSION PAINT):

Wash all greasy surfaces down with an approved detergent. Hose down with a garden hose all external surfaces to be painted to remove dust and dirt. Rub down and apply two coats emulsion paint.

1986

PAINTED EXTERNAL WALL SURFACES WITH PAINT IN BAD CONDITION:

Strip off all flaked or otherwise defective paint film, make good all surface cracks. Rub down to a smooth surface and paint:-

1987

One coat bonding liquid and two coats emulsion paint.

1988

One coat bonding liquid or other approved first coating in accordance with the manufacturers instructions of the paint being used and two coats reinforced acrylic resin based flexible texture paint, which apply to the SABS-specification.

1989

LIMEWASHED WALL SURFACES IN GOOD CONDITION (PAINT WITH EMULSION PAINT):

Remove limewash completely. Fill in cracks and make good defects as required and paint one coat bonding liquid and two coats emulsion paint.

1990

PAINT LIMEWASHED EXTERNAL WALLS (PAINT WITH TEXTURE PAINT):

Thoroughly remove all lime or distemper from external walls to bare surface by means of scrubbing and washing, with a wire brush or with the aid of a water sand blast high pressure machine, with a minimum operation of 6 894,75 KN/m^2, or any other effective method taking care that the plastered surfaces are not damaged. Stop up holes or any other defects with an approved stopping and sand down to a smooth and even surface. Paint one coat bonding liquid as supplied and required by the manufacturers as an undercoat for thermoplastic texture paint, and two coats thermoplastic texture paint strictly in accordance with the manufacturer's instructions.

1991

REINFORCED ACRYLIC RESIN BASED TEXTURE PAINT WALL SURFACES (PREVIOUSLY PAINTED WITH OIL PAINT OR EMULSION PAINT):

Wall surfaces specified to be painted with an acrylic resin based texture paint are to be thoroughly sandpapered over and washed down to remove all dust and dirt, etc. Cracks other than hair cracks and small defects are to be repaired with an approved filler. Allow to dry, then apply two coats approved reinforced acrylic resin based texture paint applied strictly in accordance with the manufacturer's instructions.

1992

PAINT TEXTURE PAINTED EXTERNAL WALLS:

Thoroughly clean off texture painted external walls, free from dirt, loose or flaking paint by means of a wire brush or any other effective method. Stop up holes or any other defects and finish off stopping. Paint walls with two coats thermoplastic texture paint, strictly in accordance with manufacturer's instructions.

1993

NEW FIBRE CEMENT WALLS (PAINT WITH ACRYLIC EMULSION PAINT):

Wall covering: clean down to remove dust, etc.; touch up nail heads with flat paint and apply one coat bonding liquid or sealer coat (in accordance with the Manufacturer's specification of the brand of paint used) and two coats approved acrylic emulsion paint where specified.

1994

PAINTED FIBRE CEMENT WALLS (PAINT WITH EMULSION PAINT):

Wash down with an approved detergent. Prepare for and paint two coats emulsion paint.

1995

PAINTED FIBRE CEMENT WALLS (PAINT IN HIGH GLOSS PAINT):

Wash down with an approved detergent. Prepare for and paint one undercoat and one coat high gloss paint.

1996

PAINTED FIBRE CEMENT WALLS OR PARTICLE BOARD AND HARDBOARD WITH PAINT IN GOOD CONDITION (PAINT WITH ACRYLIC EMULSION PAINT):
WALL COVERING:

Wash down with an approved detergent, prepare and paint two coats approved acrylic emulsion paint.

1997

PAINTED FIBRE CEMENT WALLS OR PARTICLE BOARD AND HARDWOOD WITH PAINT IN BAD CONDITION (PAINT WITH ACRYLIC EMULSION PAINT): WALL COVERING:

Strip off flaked or otherwise defective paint coating. Rub down to a smooth surface. Clean to remove dust, etc. Prime or apply one coat bonding liquid or sealer coat, etc., (in accordance with the Manufacturer's specification of the brand of paint used) and two coats approved acrylic emulsion paint.

1998

PAINTED FIBRE CEMENT WALLS OR PARTICLE BOARD AND HARDWOOD WITH PAINT IN GOOD CONDITION (PAINT WITH HIGH GLOSS PAINT): WALL COVERING:

Wash down with an approved detergent, prepare and paint one undercoat and one coat high gloss paint.

1999

PAINTED FIBRE CEMENT WALLS OR PARTICLE BOARD AND HARDBOARD, ETC. WITH PAINT IN BAD CONDITION PAINT WITH HIGH GLOSS PAINT): WALL COVERING:

Strip off flaked or otherwise defective paint coating. Rub down to a smooth surface. Clean to remove dust, etc., prepare and prime or apply one coat bonding liquid or sealer coat, etc., suitable for the purpose (in accordance with the Manufacturer's specification of the brand of paint used) and paint one undercoat and one coat high gloss paint.

2000

THERMOPLASTIC COVERING PAINT TO NEW PLASTERED WALLS:

The external plastered wall surfaces are to be filled where necessary with suitable stopping or patching plaster and given two coats approved thermoplastic covering paint, applied with a brush or roller.

The use of water as a diluting agent is to be limited to 500ml per 5 1 of the paint.

2001

REPAINT EXISTING PLASTERED WALLS WITH THERMOPLASTIC COVERING PAINT:

The external plastered wall surfaces, where indicated, shall be filled where necessary with suitable stopping or patching plaster and the whole rubbed down and given a prime coat as "Blue Circle" stabilizer agent or other approved, at least 12 hours before applying the paint coat. Two coats approved thermoplastic covering paint is then to be applied, using a brush or roller.

The use of water as a diluting agent is to be limited to 500ml per 5 1 of the paint.

2002

NEW PLASTERED BOUNDARY WALLS (DECORATE WITH EMULSION PAINT):

Prepare for and paint three coats emulsion paint.

2003

BOUNDARY WALLS PAINTED WITH OIL PAINT OR EMULSION PAINT (PAINT FILM IN GOOD CONDITION):

Wash all greasy surfaces down with an approved detergent. Hose down with a garden hose all surfaces to be painted to remove dust and dirt, rub down and apply two coats emulsion paint.

2004

PAINTED BOUNDARY WALLS (PAINT WITH REINFORCED ACRYLIC RESIN BASED TEXTURE PAINT):

Wall surfaces to be painted with an acrylic resin based texture paint, are to be thoroughly sandpapered over and washed down to remove all dust and dirt, etc. Cracks, other than hair cracks and small defects, are to be repaired with an approved filler. Allow surface to dry and apply two coats approved reinforced acrylic resin based texture paint, applied strictly in accordance with the manufacturer's instructions.

2005

FACE BRICK BOUNDARY WALLS (CLEANING DOWN):

Wash down surfaces with an approved detergent or spirits of salts, then wash with clean water and apply two coats approved masonry water repellent.

2006

WOODEN SASH OR CASEMENT WINDOWS (NEW):

Prepare as described in clause 18.1 of OW 371 and apply:-

2007

Outside: Primer coat two undercoats and one coat high-gloss paint.

2008

Inside: Primer coat one undercoat and one coat high-gloss paint.

2009

Inside: Two coats approved oil stain.

2010

Inside: Two coats approved flat varnish.

2011

Outside and inside: Two coats raw linseed oil.

2012

WOODEN SASH OR CASEMENT WINDOWS WITH PAINT IN BAD CONDITION ON OUTSIDE (PAINT BOTH SIDES):

Outside: Remove paint coating back to bare surface. Prepare for and paint one primer coat, two undercoats and one coat high-gloss paint.

Inside: Wash, clean and prepare and paint one undercoat and one coat high-gloss paint.

Average size of windows:

2013

OIL HARDWOOD SASH OR CASEMENT WINDOWS (EXISTING):

Remove existing finishing back to bare surface internally and externally of existing hardwood sash or casement windows, sandpaper to a smooth surface, prepare and apply to coats raw linseed oil.

Average size of windows:

2014

HARDWOOD SASH OR CASEMENT WINDOWS (EXISTING): (OIL VARNISH FINISHING):

Remove existing finishing back to bare surface, internally and externally of the existing hardwood sash or casement windows, sandpaper to a smooth surface, prepare and apply two coats good quality water resistance oil varnish.

Average size of windows:

2015

WOODEN SASH OR CASEMENT WINDOWS AND PAINT IN GOOD CONDITION ON BOTH SIDES (PAINT BOTH SIDES:

Wash down with an approved detergent, rub down and paint one undercoat and one coat high-gloss paint.

2016

HARDWOOD DOORS AND GATES IN YARD AND BOUNDARY WALLS (NEW):

2017

The hardwood doors and gates are to be prepared as described in clause 18.1 of OW 371 and apply two coats raw linseed oil.

2018

The hardwood doors and gates are to be prepared as described in clause 18.1 of OW 371 and to be finished off with two coats good quality water resistance oil varnish.

2019

HARDWOOD DOORS AND GATES (EXISTING):

2020

Remove existing finishing back to bare surface of the existing doors and gates, sandpaper to a smooth surface, prepare and apply two coats good quality water resistance oil varnish.

2021

Remove existing finishing back to bare surface of the existing doors and gates, sandpaper to a smooth surface, prepare and apply two coats raw linseed oil.

2022

PAINTED WOODEN DOORS AND GATES IN YARD AND BOUNDARY WALLS (PAINT IN GOOD CONDITION): DOORS OR GATES:

Wash down with an approved detergent. Prepare as in clause 18.1 of OW 371 and paint one undercoat and one coat high gloss paint both sides.

FRAMES: Clean, prepare and paint as for doors or gates.

2023

PAINTED WOODEN DOORS AND GATES IN YARD AND BOUNDARY WALLS (PAINT IN BAD CONDITION): DOORS OR GATES:

Remove paint coating back to a bare surface. Prepare as in clause 18.1 of OW 371 and paint one primer coat, two undercoats and one coat high gloss paint, both sides where specified.

FRAMES: Clean, prepare and paint as for doors or gates.

2024

STEEL DOORS AND GATES IN YARD AND BOUNDARY WALLS (NEW): DOORS AND GATES:

Clean and prepare as in clause 18.1 of OW 371 and paint one primer coat, two undercoats and one coat high gloss paint.

FRAMES: Clean, prepare and paint as for doors or gates.

2025

PAINTED STEEL DOORS AND GATES IN YARD AND BOUNDARY WALLS (PAINT IN BAD CONDITION): DOORS OR GATES:

Wash down with an approved detergent. Scrape away rust and prepare as in clause 18.1 of OW 371 and paint one primer coat, two undercoats and one coat high gloss paint.

FRAMES: Clean, prepare and paint as for doors.

2026

PAINTED STEEL DOORS AND GATES IN YARD AND BOUNDARY WALLS (PAINT IN GOOD CONDITION): DOORS OR GATES:

Wash down with an approved detergent. Prepare as in clause 18.1 of OW 371 and paint one undercoat and one coat high-gloss paint both sides.

FRAMES: Clean down, prepare and paint as for doors.

2027

MILD STEEL GRILL GATE IN YARD AND BOUNDARY WALLS:

Clean and prepare as in clause 18.1 of OW 371 and paint both sides with two coats bituminous aluminium paint.

GATE POSTS: Clean, prepare and paint as specified for gates.

2028

PAINTING METALWORK (GALVANISED): (NEW OR UNPAINTED):

Wash down with an approved detergent, paint one coat self-etch primer, one undercoat and one coat high gloss finishing paint to items as mentioned below:

2029

PAINT METALWORK (SUPPLIED WITH SHOP COAT):

Metalwork supplied with shop coat as mentioned below and built in as the work proceeds, to be cleaned and rubbed down on exposed surfaces, touched up with zinc chromate primer and painted one undercoat and one coat high gloss finishing coat.

Steel windows:

Pressed steel doors and frames:

2030

METALWORK (NOT GALVANISED OR PRIMED):

Metalwork as mentioned below, to be cleaned and rubbed down on exposed surfaces and primed with zinc chromate primer and paint one undercoat and one coat high gloss paint:
2031

PAINT ON METAL SURFACES (WITH PAINT IN GOOD CONDITION):

Clean down. Prepare and paint one undercoat and one coat high gloss paint to metal surfaces as mentioned below:

2023

PAINT ON METAL SURFACES (WITH PAINT IN BAD CONDITION):
Remove paint coating to a bare surface. Prepare and paint one primer coat and one undercoat and one coat high gloss paint to metalwork as mentioned below:

2033

STEEL WINDOWS WITH PAINT IN BAD CONDITION (PAINT BOTH SIDES):

Outside: Clean down to remove dust. Prepare for and paint one primer coat, one undercoat and one coat high-gloss paint as clause 18.1 of OW 371.

2034

Inside: Clean and prepare for and paint one undercoat and one coat high-gloss paint as clause 18.1 of OW 371.

2035

Inside: As specified for outside.

2036

Remove all rusted surfaces by means of rust solvent, wash with clean water and apply one coat neutraliser, one zinc chromate primer, one undercoat and one final coat as previously specified.

2037

Average size of windows are:

2038

STEEL WINDOWS WITH PAINT IN GOOD CONDITION ON BOTH SIDES:

Clean down. Prepare for and paint one undercoat and one coat high-gloss paint.

Average size of windows are:

2039

FROSTING OF WINDOW PANES:

All existing frosted window panes are to be properly cleaned off and paint removed with steel scraper or paint remover.

Windows to be re-frosted are to be prepared by the application of one coat of gold size and twice stippled in eggshell enamel.

Average size of windows are:

2040

PAINTED BURGLAR PROOFING TO WINDOWS (REDECORATE WITH HIGH GLOSS PAINT):

Clean down, prepare for and apply a primer coat over the bare surfaces and paint one undercoat and one coat high-gloss paint to all surfaces of burglar proofing.

2041

PAINTED WINDOW SILLS:

Clean down with an approved detergent and paint one coat stoep paint or other approved paint to all window sills.

2042

NEW GARAGE DOORS AND FRAMES (TO BE PAINTED):

Clean, prepare and paint both sides one primer coat, one undercoat and one coat high gloss paint.

2043

PREVIOUSLY PAINTED GARAGE DOORS AND FRAMES WITH PAINT IN BAD CONDITION:

Outside: Remove paint coating to a bare surface. Prepare and paint one primer coat, one undercoat and one coat high-gloss paint.

Inside with paint in good condition: Clean, prepare and paint one undercoat and one coat high-gloss paint.

2044

GARAGE DOORS AND FRAMES WITH PAINT IN GOOD CONDITION ON BOTH SIDES:

Clean, prepare and paint one undercoat and one coat high-gloss paint.

2045

PAINT FIRE EXTINGUISHER CUPBOARDS (WOOD):

Clean, prepare and paint all exposed external and internal surfaces of woodwork and both sides of door with one undercoat and one final coat high gloss paint. Paint sheet metal roof covering and flashings with two

coats roof paint. In addition paint the words "FIRE-BRAND" across the door. Cupboard to be finished with Post Office Red, and the wording finished with bright white, 100 mm high.

2046

PAINT NEW FIRE EXTINGUISHER CUPBOARDS (METAL):

The new fire extinguisher cupboards as mentioned below to be degrease, clean down and paint one zinc chromate primer, one undercoat and one final coat high gloss paint. In addition paint the words "FIRE-BRAND" across the door.

Cupboard to be finished with Post Office Red, and the wording finished with bright white, 100 mm high.

The back boards of fire extinguishers are to be finished off with two coats raw linseed oil.

2047

Fire extinguisher cupboards.

Quantity:

2048

Fire hose reel.

Quantity:

2049

EXISTING BACK BOARDS OF FIRE EXTINGUISHERS:

Clean down the existing back boards of fire extinguishers and finish off with:

2050

One undercoat and one final coat Post Office red high gloss paint.

Quantity:

2051

Apply two coats raw linseed oil.

Quantity:

2052

FIRE EXTINGUISHER CUPBOARDS (PAINTED):

Clean down and paint exposed woodwork on inside and outside and door both sides, one undercoat and one coat high gloss paint. Paint sheet iron roof and flashing two coats roof paint. In addition paint the words "FIRE-BRAND" across the door.

Cupboard to be finished Post Office Red, and the wording finished with bright white, 100mm high.

Quantity:

2053

EXTINGUISHER CUPBOARDS (SHEET IRON): (PAINTED):

Clean down, prepare for and paint all exposed surfaces in and outside and door both sides one undercoat and one coat high gloss paint. In addition paint the words "FIRE-BRAND" across the door.

Cupboard to be finished Post Office Red and the wording finished with bright white, 100 mm high.

Quantity:

2054

WASTE WATER PIPING AND WATER PIPING: 12mm TO 50mm DIAMETER (NEW AND UNPAINTED):

Degrease, prepare for and paint:

2055

One primer coat, one undercoat and one coat high-gloss paint.
Lineal metres:

2056

Two coats aluminium paint.

Lineal metres:

2057

WASTE WATER PIPING AND WATER PIPING 12 mm TO 50mm DIAMETER (PAINTED):

Clean down and paint:

2058

One undercoat and one coat high-gloss paint.
Lineal metres:

2059

Two coats aluminium paint.

Lineal metres:

2060

CAST IRON SOIL AND VENTILATION PIPES (NEW AND UNPAINTED):

Clean down and paint one coat aluminium, one undercoat and one coat high-gloss paint.

Lineal metres:

2061

FENCING AND GATES (NEW AND PAINTED):

Clean down and paint the items as mentioned below two coats bituminous aluminium.

2062

Double gates. Quantity:

2063

Single gates.

Quantity:

2064

Corner-, gate- and intermediate posts.

Quantity:

2065

Stays.

Quantity:

2066

UNPAINTED FIBRE CEMENT FENCING (MILD STEEL TUBULAR POSTS AND ANGLE SECTION CROSS RAILS):
Clean down and paint two coats approved acrylic emulsion paint to both sides of fibre cement covering, and paint two coats bituminous aluminium, on exposed surfaces of posts and rails.

2067

PAINTED FIBRE CEMENT FENCING (MILD STEEL TUBULAR POSTS AND ANGLE SECTION RAILS):

Clean down with wire brushes, etc., to remove rust and flaked paint, etc., and paint two coats bituminous aluminium paint to posts and rails and two coats acrylic emulsion paint to fencing.

2068

PAINT EXISTING FLAGPOLE:

Clean down the existing flagpole and paint:

2069

One undercoat and one final coat high gloss paint.

2070

Two coats aluminium paint.

2071

PAINT NEW CELL WINDOWS:

Clean down, prepare for and paint one primer coat, one undercoat and one coat high-gloss paint.

2072

PAINT NEW SCREENS TO WINDOWS:

Clean down, prepare for and paint one primer coat, one undercoat and one coat high-gloss paint.

2073

PAINT CELL WINDOWS AND FIXED SCREENS (PREVIOUSLY PAINTED):

Carefully take down screens bolted to walls and store for re-use.

Windows (both sides): Clean down, prepare for and paint one undercoat and one coat high-gloss paint.

Screens (both sides): Clean down prepare for and paint one undercoat and one coat high-gloss paint.

Re-fix screens removed in original positions using existing bolts or new bolts to match existing and on completion hammer over ends of bolts when nuts are fixed.

Average size of windows and screens are:

2074

PAINT CELL WINDOWS AND HINGED SCREENS (PREVIOUSLY PAINTED):

Clean down, prepare for and paint windows and screens (both sides):

2075

One undercoat and one final coat high gloss paint.

2076

Two coats aluminium paint.

2077

Average size of cell windows and screens are:

2078

SCREENS TO WINDOWS (PAINTED): REDECORATE WITH HIGH GLOSS PAINT:

Clean down, prepare for and prime the bare surfaces with an approved primer and paint one undercoat and one coat high-gloss paint to all exposed surfaces.

2079

SCREENS OVER EXERCISE YARDS INCLUDING THE STEEL BEAMS, ETC.:
PAINT WITH ALUMINIUM:

Clean down, prepare and paint one primer coat and two coats aluminium paint.

2080

SCREENS OVER EXERCISE YARDS (PAINTED): REDECORATE WITH ALUMINIUM PAINT:

Clean down, prepare for and prime the bare surfaces with an approved primer and paint two coats aluminium paint.

2081

GRILLES AND GRILLE GATES (NEW) PAINT WITH OIL PAINT:

Clean down, prepare for, prime with an approved primer and paint one undercoat and one coat high-gloss paint.

2082

GRILLES AND GRILLE GATES (PAINTED):

Wash down with an approved detergent, remove all rust and loose paint and sandpaper down to a bare surface. Touch up with an approved primer and paint one undercoat and one coat high-gloss paint.

2083

INTERNAL PAINTING

2084

PAINT NEW GYPSUM PLASTER BOARD CEILINGS (EMULSION PAINT):

Prepare, stop and paint nail heads with flat paint and paint two coats interior emulsion paint to all gypsum plasterboard ceilings and cover strips and cornices in rooms as mentioned below:

2085

PAINT NEW FIBRE CEMENT CEILINGS (FLAT PAINT):

Prepare, stop and prime with an approved Alkali resisting primer and paint one undercoat and one coat flat paint to all fibre cement ceilings, cornices and cover strips, in rooms as mentioned below:

2086

PAINT CEILINGS (REDECORATE WITH EMULSION PAINT):

Clean down and paint two coats emulsion paint to rooms as mentioned below:
2087

PAINT CEILINGS (REDECORATE WITH HIGH GLOSS PAINT):

Clean down and paint one undercoat and one coat high gloss paint to rooms as mentioned below:

2088

CEILING SURFACES (PAINT IN BAD CONDITION): (REDECORATE WITH EMULSION PAINT):

Strip off all flaked or otherwise defective paint film. Prepare for and paint one coat bonding liquid and two coats emulsion paint to rooms as mentioned below:

2089

PERFORATED HARDBOARD OR ACOUSTIC TILE CEILINGS (WITH EMULSION PAINT:

Clean down and apply two coats emulsion paint to rooms as specified below:

N.B.:

Closing up of holes in the acoustic ceilings must be avoided during painting operations.

2090

CONCRETE CEILINGS (NEW): PAINT WITH HIGH GLOSS PAINT):

Prepare for and paint one primer coat, two undercoats and one coat high gloss paint.

2091

CONCRETE CEILINGS (NEW) PAINT WITH EMULSION PAINT):

Prepare for and paint one sealer coat and two coats emulsion paint.

2092

CONCRETE CEILINGS: (PREVIOUSLY PAINTED WITH EMULSION PAINT):

Clean down, prepare for and apply two coats emulsion paint to rooms as mentioned below:

2093

CONCRETE PLASTERED CEILINGS (PREVIOUSLY HIGH GLOSS PAINT PAINTED) REDECORATE WITH HIGH GLOSS:

Clean down, prepare for and paint one undercoat and one coat high gloss paint to rooms as mentioned below:

2094

CEILINGS (PREVIOUSLY DISTEMPERED) (PAINT WITH EMULSION PAINT):

Remove all old distemper from ceiling boards, cornices and cover strips to the bare surface. Replace missing nails with new nails and nail back all loose nails. Stop up holes and sand down to a smooth and even surface. Paint timber cover strips and cornices, where same occurs, with one coat. Apply one coat bonding liquid and two coats of emulsion paint to ceiling in rooms as mentioned below:

2095

CEILINGS (PREVIOUSLY DISTEMPERED) (PAINT WITH HIGH GLOSS PAINT):

Remove all old distemper from ceiling boards, cornices and cover strips to bare surface. Replace missing nails with new nails and nail back all the loose nails. Stop up holes and sand down to a smooth and even surface. Paint timber cover strips and cornices, where same occurs, with one primer coat. Apply one coat binding liquid, one undercoat and one coat high gloss paint to rooms as mentioned below:

2096

CEILINGS (BAD PORTIONS):

Remove all the loose paint from ceilings to bare surface. Prepare and paint one coat bonding liquid and leave ready for further coats of paint as elsewhere specified.

Square metre:

Room/s:

2097

FRIEZE SURFACES (PAINT WITH EMULSION PAINT):

Wash down frieze surfaces with an approved detergent, prepare and paint two coats emulsion paint, in rooms as mentioned below:

2098

FRIEZE SURFACES (PAINT WITH HIGH GLOSS PAINT):

Wash down frieze surfaces with an approved detergent, prepare and paint one undercoat and one coat high gloss paint, in rooms as mentioned below:

2099

FRIEZE SURFACES (FINISH OFF WITH DISTEMPER) (PAINT WITH EMULSION PAINT):

Remove all old distemper from frieze surfaces to bare surface. Prepare and paint one coat bonding liquid and two coats emulsion paint, in rooms as mentioned below:

2100

FRIEZE SURFACES (FINISHED WITH DISTEMPER) (PAINT WITH HIGH GLOSS PAINT):

Remove all old distemper from frieze surfaces to bare surface. Prepare and paint one coat bonding liquid, one undercoat and one final coat high gloss paint, in rooms as mentioned below:

2101

PAINT FRIEZE SURFACES (BAD PORTIONS):

Remove all loose paint from frieze surfaces to bare surface. Prepare and paint one coat bonding liquid and leave ready for further coats of paint as specified elsewhere.

Square metres:

Room/s:

2102

PAINT NEW WALLS WITH HIGH GLOSS PAINT (INTERNALLY):

Prepare, prime with an approved Alkali resisting primer and paint two undercoats and one coat high gloss finishing paint to the new cement plastered wall surfaces.

2103

PAINT NEW WALLS WITH EGGSHELL FINISHING (INTERNALLY):

Prepare, prime with an approved Alkali resisting primer and paint one undercoat and one coat eggshell enamel finishing to the new plastered wall surfaces.

2104

PAINT NEW WALLS WITH EMULSION PAINT (INTERNALLY):

Prepare, apply one coat of either an approved pigmented filler/sealer or clear filler/sealer, mixed with finishing pint in the proportion recommended by the manufacturers and paint two coats interior emulsion paint, mixed and applied in accordance with the manufacturer's instructions, to all new plastered internal wall surfaces, full height from floor to ceiling.

2105

PAINT EXISTING WALLS WITH EGGSHELL ENAMEL PAINT:

Wash down with an approved detergent all the existing wall surfaces and paint one undercoat and one final Coat eggshell enamel paint to rooms as specified below.

2106

PAINT EXISTING WALLS WITH HIGH GLOSS PAINT:

Wash down with an approved detergent all the existing wall surfaces and paint one undercoat and one final coat high gloss enamel paint to rooms as specified below.

2107

PAINT EXISTING WALLS WITH ACRYLIC EMULSION PAINT:

Wash down with an approved detergent all the existing wall surfaces and paint two coats acrylic emulsion paint to rooms as specified below.

2108

To bad portions of existing walls; strip off all flaked or otherwise defective paint film. Prepare for and apply one coat bonding liquid and paint as described above.

Square metre:

2109

PAINT DISTEMPERED WALLS (WITH PAINT AS DESCRIBED BELOW):

Remove all old distemper from walls to bare surface.

2110

Stop up holes and sand down to a smooth and even surface. Apply one coat bonding liquid, one undercoat and one final coat high gloss paint, in rooms as mentioned below:

Room/s:

2111

Stop up holes and sand down to a smooth and even surface. Apply one coat bonding liquid and two coats emulsion paint, in rooms as mentioned below:

Room/s:

2112

PAINT NEW WALLS WITH EMULSION BASE COATING:

Prepare and paint wall surfaces of rooms where shown or mentioned with emulsion base coating as described in clause 8.3 of OW 371.

2113

PAINT EXISTING WALLS WITH EMULSION BASE COATING:

The existing painted walls are to be sanded down and thoroughly cleaned. All cracks or other defects to be properly filled with an approved filler and sanded down to a smooth and even surface flush with surrounding surfaces and all bare patches to be treated with one coat of approved sealer and paint two coats emulsion base texture cover coat and final coat of clear liquid as described in clause 18.3 of OW 371.

2114

WALLS EMULSION PAINT OR OIL PAINTED SURFACES (CLEANING DOWN ONLY):

Wash down with soft soap and water or other approved detergent until all dirt and grease are removed. Wash down with clean water and rub down with a soft cloth until dry.

2115

PAINTING TO NEW WOODWORK:

Knot, prime, stop and paint one undercoat and one coat high gloss finishing paint to all new wrought woodwork exposed internally.

2116

PAINT INTERNAL WOODWORK (PAINTED):

All previously painted woodwork as mentioned below shall be sanded down to a smooth and even surface and thoroughly cleaned, free from grease, dirt, loose or flaking paint.

All cracks, nail holes or other defects shall be stopped with approved wood filler and rubbed down to a smooth and even surface flush with the surrounding surfaces, and all bare woodwork shall be painted with one coat primer. Paint woodwork with one undercoat and one coat high-gloss paint.

2117

CHALK BOARDS (PAINTED):

Wash down with an approved detergent, prepare and paint writing surfaces of chalk boards with two coats approved writing board paint.

2118

FRAME:

Clean down framework of chalk boards and paint one undercoat and one final coat high gloss paint.

2119

FRAME:

Clean down framework of chalk boards and apply two coats oil

stain.

2120

EXISTING HARDWOOD:

Prepare for and once oil with linseed oil to which 5% of genuine turpentine is added, all hardwood doors, skirtings and picture rails etc., well rubbed in.

2121

HARDWOOD DOORS (TO BE VARNISHED BOTH SIDES):

Prepare and apply two coats approved varnish both sides of doors specified.

2122

HARDWOOD DOORS (WATER RESISTANCE OIL VARNISH):

Prepare hardwood doors and apply two coats good quality water resistance oil varnish.

2123

Allow to remove all the old finishing from hardwood doors to bare surface. Prepare for and leave ready for finishing as described above.

2124

HARDWOOD DOORS (TO BE OILED BOTH SIDES):

Prepare, stop with tinted stopping and apply:

INSIDE: One coat raw linseed oil and two coats wax polish, well rubbed in.

OUTSIDE: Two coats raw linseed oil.

2125

HARDWOOD DOORS (TO BE STAINED BOTH SIDES):

Prepare and twice stain with an approved oil stain both sides of doors specified.

2126

DOORS (TO BE PAINTED BOTH SIDES):

Prepare, stop and paint one primer coat, two undercoats and one coat high gloss-paint to both sides of doors specified.

2127

DOORS WITH PAINT FILM IN BAD CONDITION:

Remove paint film back to a bare surface. Prepare and paint one primer coat, two undercoats and one coat high gloss paint to doors specified.

2128

DOORS WITH PAINT FILM IN GOOD CONDITION:

Wash down with an approved detergent and paint one undercoat and one coat high gloss finishing paint to doors specified.

2129

HARDWOOD DOOR FRAMES WITH/WITHOUT FANLIGHTS (TO BE VARNISHED):

Prepare and apply two coats approved varnish to both sides of door frames specified.

2130

HARDWOOD DOOR FRAMES WITH/WITHOUT FANLIGHTS (TO BE OILED):

Prepare, stop with tinted stopping and apply:

INSIDE: One coat raw linseed oil and two coats wax polish, well rubbed in.

OUTSIDE: Two coats raw linseed oil.

2131

HARDWOOD DOOR FRAMES WITH/WITHOUT FANLIGHTS (TO BE STAINED):

Prepare and twice stain with an approved oil stain all door frames as specified.

2132

WOODEN DOOR FRAMES WITH/WITHOUT FANLIGHTS (TO BE PAINTED):

Prepare, stop and paint one primer coat, two undercoats and one coat high gloss paint to door frames specified.

2133

PAINT COUNTERS (NEW):

Prepare for and paint one primer coat, one undercoat and one coat high-gloss paint.

2134

OIL COUNTERS (NEW):

Prepare for and once oil with raw linseed oil and twice wax polish well rubbed in.

2135

OIL HARDWOOD TOPS (NEW):

Prepare for and once oil with raw linseed oil and twice wax polish well rubbed in.

2136

VARNISH HARDWOOD TOPS (NEW):

Prepare for and apply two coats flat varnish.

2137

FACE BRICK FRONTS OF COUNTERS:

Wash down with an approved detergent. Prepare for and apply two coats approved masonry water repellent.

2138

EXISTING COUNTERS:

2139

COUNTERS: Wash down with an approved detergent. Prepare for and paint one undercoat and one coat high gloss paint.

2140

COUNTERS: Wash down with an approved detergent. Prepare for and apply two coats flat varnish.

2141

HARDWOOD TOPS: Clean down, prepare for and once oil with raw linseed oil and twice wax polish well rubbed in.

2142

FACE BRICK FRONTS: Wash down with an approved detergent. Prepare for and apply two coats approved masonry water repellent.

2143

VARNISH NEW INTERNAL WOODWORK:

Prepare new internal woodwork and apply two coats clear varnish.

2144

VARNISH INTERNAL WOODWORK:

All previously varnished woodwork as mentioned below surfaces shall be thoroughly cleaned and sanded down to a smooth and even surface. All cracks, nail holes or other defects shall be stopped with approved tinted stopping to match the colour of the wood surface. All cracked and loose stopping shall be hacked out, similarly renewed and all stopped surfaces shall be sanded down to a smooth and even surface flush with the surrounding woodwork. Apply two coats of clear varnish.

2145

PAINTED WINDOW SILLS:

Wash down painted window sills with an approved detergent and paint one coat approved stoep paint.

2146

HARDWOOD WINDOW SILLS:

Remove existing finishing to bare surface from hardwood window sills, sand paper to a smooth surface, prepare and apply two coats good quality water resistant oil varnish.

2147

WINDOW SILLS (TO BE CLEANED):

Clean and remove old paint spots, etc. and leave perfect.

2148

PAINT PRESSED STEEL FRAMES

Clean down pressed steel frames and paint one undercoat and one final coat high gloss paint.

2149

EXISTING PRESSED STEEL FRAMES (PAINTED: (PAINT FILM IN BAD CONDITION):

Remove existing finishing to bare surface from pressed steel frames, prepare and paint one undercoat and final coat high gloss enamel paint.

2150

STEEL DOORS AND FRAMES: PREVIOUSLY PAINTED):

OUTSIDE: (PAINT IN BAD CONDITION): Remove paint surface to bare face, sandpaper, prepare for and apply primer coat, undercoat and one coat high-gloss enamel finishing paint.

INSIDE: (PAINT IN GOOD CONDITION): Clean down and paint one undercoat and one coat high-gloss

enamel paint.

2151

PAINT INTERNAL STEELWORK:

All previously painted metal surfaces shall be thoroughly cleaned and sanded down to a smooth and even surface, free from dirt and grease, and all rust, flaking paint or scale removed by means of a wire brush. Apply one coat of approved rust solvent and neutraliser to all bare surfaces, all strictly applied in accordance with the manufacturer's instructions.

Apply one coat of zinc chromate primer to all treated surfaces, prior to painting. Paint metal surfaces with one undercoat and one coat high-gloss paint.

2152

PAINT NEW WOODEN PELMETS:

Prepare for and paint one primer coat, one undercoat and one coat high-gloss paint.

2153

OIL NEW HARDWOOD PELMETS:

Prepare for and once oil with raw linseed oil and twice wax polish well rubbed in.

2154

WOOD PELMETS OILED OR VARNISHED:

Clean down wooden pelmets, prepare for and apply two coats raw linseed oil (or) two coats flat varnish as specified.

2155

PAINT NEW METAL PELMETS:

Prepare for and paint one undercoat and one coat high-gloss paint.

2156

METAL PELMETS (PREVIOUSLY PAINTED):

Clean and prepare for and paint one undercoat and one coat high-gloss paint.

2157

COURT ROOM FITTINGS AND FURNITURE (OILED OR VARNISHED):

Clean down court room fittings and furniture as mentioned below, prepare for and twice oil or apply two coats flat varnish as specified.

2158

RE-ENAMEL BATH (SPRAY APPLICATION) :

Thoroughly scrub and wash bath to remove all dirt and soap deposits. Thoroughly cover fittings and tiles surrounding bath with paper and masking tape. Apply preparation chemicals and clean off. Sand down corroded materials to clean hard base and remove rust. Apply filling materials and bake with infra-red equipment.

Apply undercoating materials using hot air delivery unit and bake with infra-red equipment. Flat down and fill imperfections thoroughly. Apply first coat enamel and allow to flash off. Apply coats allowing adequate flash time between coatings using hot air delivery equipment. Remove all masking tape and papers and thoroughly clean bathroom.

Supply customer with brochure "Hints on the up-keep of the bath" together with a reply card and envelope.

Quantity:

N.B.: The re-enamelling of the baths shall be carried out by a contractor specializing in re-enamelling of baths, and a two years guarantee is to be submitted.

2159

LEAVE PERFECT:

As described in clause 18.8 of OW 371.

2160

END OF SPECIFICATION

2161

SITE WORK

2162

BITUMINOUS ROAD SURFACES:

Protect all channels and structures in order that they may not become discoloured during the progress of spraying, etc. Provide and lay a new bituminous surface as specified in clauses 19.3, 19.4 and 19.5 of OW 371.

2163

RESURFACING BITUMINOUS SURFACES:

Protect all channels and structures in order that they may not become discoloured during the progress of spraying, etc., fill in potholes, prepare and lay a new premix carpet as specified in clause 19.5 of OW 371, but of thickness as mentioned below:

Thickness: .....mm

2164

REPAIRS TO POTHOLES IN BITUMINOUS SURFACES:

All potholes 25mm and over in depth to bituminous surfaces, are to be cleaned out and the sides cut vertically to a diamond shape in the direction of traffic.

The holes must then be filled with approved 38 to 65mm graded stone to a depth of not less than 100mm and binder of sandy soil added to form waterbound base and stamped or rolled until properly compacted to a depth of approximately 25mm below finished surface.

After filling and compacting the patch is to be sprayed with an approved tar primer at the rate of approximately 11 litres to 10m^2 of area and left ready for the premix carpet, all as specified in clauses 19.3 and 19.5 of OW 371.

2165

FENCING

2166

WIRE MESH FENCING (1,2m HIGH):

Provide and erect wire mesh fencing in the positions as shown or specified, formed with materials as described in clause 19.7 of OW 371.

2167

GATES:

Provide and fix, in the positions shown or specified, gates formed with 25mm internal diameter mild steel piping as described in clause 19.7 of OW 371.

2168

WIRE MESH FENCING (1,83m) HIGH):

Provide and erect wire mesh fencing in the position shown or specified, formed with materials as described in clause 19.7 of OW 371 but to be 1,83m high. The tubular post and stays to posts to be 2,75m long, standards 2,5m long and with fine straining wires provided for fencing. The standards are each to be surrounded with Class B-concrete block, size 400 x 400 x 400mm, finished level with the ground.

2169

GATES (1,83m HIGH):

Provide, in the fencing, in the positions shown or specified, gates as described in clause 19.7 of OW 371 but to 1,83m high, with gate posts and stays to posts 2,75m long. Main entrance gates to be 3,66m wide and small gates 1,83m wide or to such other sizes as specified.

2170

NEW SECURITY FENCE:

Provide and erect a security fence in the positions as indicated on the drawing or where mentioned.

The security fence must be 2700mm high above ground level formed with six 4mm diameter galvanised mild steel wires passed through holes in corner-, straining- and intermediate posts, tightly strained and four times bounded to corner posts to the one end and the other end bound to 12mm diameter galvanised straining eyes, each 300mm long or permanent wire strainers, passed through holes in corner posts, etc.

The fencing to be provided with 60 x 2,5mm thick mild steel straining posts, each 3 400mm long and fixed on approximately 3 500mm centres

Provide and fix at 100m centres 100 x 3,5mm thick mild steel intermediate posts.

The intermediate- and straining posts are to be provided respectively with 150 x 150 x 4mm thick- and 300 x 200 x 4mm thick mild steel sole plates, properly welded to posts.

The corner posts to be 100mm diameter x 3,5mm thick mild steel, each 3 700mm long and provided with 200 x 300 x 4mm thick mild steel sole plates, properly welded to posts.

The gate posts are to respectively 100mm diameter x 3,5mm thick mild steel. Each to be of length as indicated and provided with 200 x 200 x 4mm thick mild steel sole plates, properly welded to posts.
Each gate post to be provided with a 60mm diameter x 2,5mm thick mild steel stay post and each corner-

and intermediate posts are to be provided with two similar stay posts, of length shown and each stay posts to be provided with a 150 x 150 x 4mm mild steel sole plate, properly welded to stay posts.

The top end of each stay post to be flattened, bent, holed and bolted to posts with MI2-galvanised bolts.

The posts are to be holed for as required for wires and straining bolts. Provide and fit on top of each post a pressed steel cap, properly welded to posts, all as described in clause 19.7 of OW 371 .

All the posts and stays are to be embedded in Class B-concrete blocks of sizes as indicated on the drawing, each finished off just below ground level.

Cover the fencing with 50 x 25 x 2,5mm diameter welded rectangular steel mesh as "Bonnox" or other equal approved and fix to strands with 2,5mm diameter galvanised binding wire with the long length of mesh in a vertical direction and according to the manufacturer's instructions.

All jointing of mesh to be executed with 10mm wide x 2,5mm thick galvanised heavy duty clips (with a minimum pull open power of 1500N) fix at 100mm centres.

All wire to be according to SABS-Specification 675 and the galvanising to be of second grade quality.

Provide around gate posts 3mm diameter galvanised barb wire, properly fix to posts.

Prepare posts and stays and apply two coats bituminous aluminium paint, one coat before- and one coat after erection. The sole plates and portions of posts and stays in the ground are to be well tarred, to 100mm above ground level.

The mesh to be painted on both sides with one coat bituminous aluminium paint, applied with a roller.

2171

CONCRETE EDGE WALL:

Excavate to the extent required, underneath the full length of the new fencing for edge wall and lay in excavation 100 x 300mm deep Class C-concrete edge wall, finished on top with wooden float before the concrete has set.

Form expansion joint, every 4,5m and as described in clauses 3.15 and 3.21.

2172

DOUBLE GATES (IN SECURITY FENCE):

The double vehicle gates, as indicated on drawing/s or as mentioned to be in two leaves constructed of 50mm diameter by 2,5mm thick galvanised mild steel tubular sections, neatly mitred at angles and firmly welded together to the form and sizes shown.

Each leaf of gates is to be strongly braced with similar mild steel tubing neatly cut and firmly welded into framework in double V-form as shown.

Provide and fit each leaf of gates with two openings for padlock chains, each formed with 20mm diameter galvanised mild steel bars neatly bent to the form and size shown and each firmly welded on to inside of framework.

Provide and fit to hanging stile of each leaf of gates three mild steel collars firmly welded on.as shown and hang each leaf of gates on three 16mm diameter galvanised mild steel eye bolt hinges as shown.

Cover each leaf of gates with 50 x25 x 2,5mm diameter rectangular welded steel wire mesh, neatly cut around chain openings, tightly strained, wrapped round framework and securely tied with continuous strand of 2,5mm diameter galvanised mild steel binding wire twisted around wire mesh and framework and twist fixed at ends, with long span of mesh running in vertical direction, all in accordance with the

Manufacturer's instructions.

Provide each chain opening with a short length of approved galvanised mild steel all purpose chain complying with SABS Specification 251, welded to framework of one leaf of gate and provide each with a 63mm five pin tumbler brass padlock as Sample 32 complete with two keys.

It is requested that both locks on each gate be operated with the same key.

All wire to be according to SABS Specification 675 and the galvanising to be of second grade quality.

Provide each leaf of gates with a 400 x 20mm diameter mild steel gate bolt firmly welded to framework and provide in ground for each gate two short lengths of galvanised mild steel pipe cast into 300 x 300 x 300mm Class C-concrete block as keep for gate bolts and finished with ground level.

Provide for each leaf of gates a similar concrete block in the open position but with only one length of pipe as keep for gate bolt.

The gate frames are to be prepared for as described in clause 18.1 of OW 371 and finished with two coats approved bituminous aluminium paint, one coat before and one coat after erection.

2173

PEDESTRIAN GATE (IN SECURITY FENCING):

The pedestrian gate indicated on the drawing/s or as mentioned, is to be constructed of 50mm diameter by 2,5mm thick galvanised mild steel tubular sections, neatly mitred at angles and firmly welded together to form and sizes shown. The gate is to be strongly braced with similar mild steel tubing neatly cut and firmly welded into framework in V-form as shown.

Provide and fit leaf of gate and at back of gate post where shown, with opening for padlock chains as specified for double gates.

Cover gate with wire mesh. Hang gate on hinges and provide chain opening with chain and padlock as specified for double gates.

Provide and bolt to gate posts above gate a 50 x 50 x 6mm thick mild steel angle piece as shown.

Prepare and paint gate as specified for double gates.

2174

ERECTION OF SECURITY MESH FENCING (SUB-STATIONS):

Provide and erect a 2,5m high security mesh fence around site as shown on drawings.

The fence is to be formed with 65mm diameter 3,25mm thick galvanised mild steel tubular corner-, gate- and intermediate posts each approximately 3m long including 0,6m long overhang to security top welded on at an angle of 45°, fitted with metal top and with base plate welded on at bottom end, size 225 x 225 x 6mm thick.

Posts to be holed for five strands of 4mm diameter galvanised mild steel wires, one at top, one at bottom and three equally spaced holes intermediately to vertical portion, with similar holes to overhang, but spaced 150mm apart.

Corner-, intermediate- and gate posts to be spaced as shown and embedded in Class B-concrete 300 x 300 x 450mm deep with overhang facing towards building. Each corner- and gate posts to be fitted with stays of similar piping flattened one end, holed and bolted to post, fitted with base plate and embedded in concrete as before.

Cover vertical portion of fence to a height of 1,830m with wire mesh as clause 19.7 of OW 371, and provide overhang with 4 rows of 2,5mm diameter galvanised barbed wire bound with binding wire passed through

holes.

Provide a gate where shown constructed as generally specified above, but with 40mm diameter 2,9mm thick piping, complete with hinges and tower bolts.

2175

WIRE FENCING (REPAIRS):

Take down existing droppers and store for re-use. Take down barbed or galvanised mild steel wire to the extent specified or shown on drawing and remove from site. Carry out the repairs and straightening of standards, etc. to approval.

2176

Allow for the supply and fixing of new items as described below:

2177

FENCING AND GATES (REPAIRS):

Inspect and carry out the straightening and resetting of posts, standards, droppers, etc., as required. Adjust gate hinges and catches or replace as required and restrain the whole fence to straight and taut line.

2178

REPAIR FENCES:

Repair the existing wire mesh fences as follows:

2179

CORNER AND GATE POSTS:

Remove all damaged or rusted corner or gate posts. Provide and fix new mild steel pipe posts as described in clause 19.7 of OW 371 .

At coastal areas, the corner and gate posts shall be hot-dip galvanised mild steel posts. Refix gates, strands and wire mesh where necessary.

Quantity:

2180

STAYS:

Remove all damaged or rusted stays. Provide and fix new mild steel pipe stays as described in clause 19.7 of OW 371.

At coastal areas the stays shall be hot-dip galvanised mild steel stays.

Quantity:

2181

WIRE MESH (GALVANISED):

Remove all damaged or weathered wire mesh. Provide new 1,2m high, 50mm mesh chain link netting as described in clause 19.7 of OW 371, properly strained and secured to posts, standards and strands with 2mm diameter galvanised mild steel wire. Where the replacing of strands are not required, the existing

strands shall be properly strained and secured to posts.

Lineal metres:

2182

WIRE MESH (PLASTIC-COATED):

Remove all damaged or weathered wire mesh. Provide new 1,2m high, 50mm plastic-coated mesh chain link netting as described in clause 19.8 of OW 371, properly strained and secured to posts, standards and strands with 1,8mm diameter plastic-coated binding wire. Where the replacing of strands are not required, the existing strands shall be properly strained and secured to posts.

Lineal metres:

2183

STRANDS (GALVANISED):

Remove all broken or rusted strands. Provide new 4mm diameter galvanised mild steel wire as described in clause 19.7 of OW 371 , and passed through holes in posts and standards, with one end attached to posts with not less than four (4) turns and the other end fitted with a 12mm diameter galvanised mild steel straining eye bolt, passed through holes in posts. The strands shall be properly strained and be attached to posts. Every strand shall be provided with one staining bolt.

Lineal metres:

2184

STRANDS (PLASTIC-COATED):

Remove all broken or weathered strands. Provide new 3,55mm plastic-coated strands as described in clause 19.8 of OW 371, and passed through holes in posts and standards, with one end attached to posts with not less than four (4) turns and the other end fitted with a 12mm diameter galvanised mild steel straining eye bolt, passed through holes in posts. The strands shall be properly strained and be attached to posts.

Every strand shall be provided with one straining bolt.

Lineal metres:

2185

MILD STEEL STANDARDS:

Replace all missing or damaged standards with "H" or "T" section mild steel standards, 1,8m long, as described in clause 19.7 of OW 371.

At coastal areas standards shall be hot-dip galvanised mild steel.

Quantity:

2186

REPLACE PLASTIC-COATED WIRE MESH FENCE:

Remove existing damaged or weathered plastic-coated wire mesh fencing, including posts, stays, standards, etc. Provide all materials and erect a new fence as described in clause 19.8 of OW 371.

Complete site:

Lineal metres:

2187

WIRE FENCING (REPLACE):

Take down the boundary fence and all internal fencing where specified complete with posts, standards and droppers and remove from site. Provide new posts, standards, droppers and galvanised mild steel wire and form boundary fencing as described in clause 19.7 of OW 371 .

2188

Provide new straining bolts and straining wire and form fences with wire mesh as described in clause 19.7 of OW 371 all to match existing.

2189

GATES (REPAIRS):

Inspect and straighten where necessary and replace to match original all defective hinges, bolts and catches.

2190

Allow for removing existing mesh to all gates and re-cover with wire mesh as described in clause 19.7 of OW 371 to match existing.

2191

REPLACE GATES:

Remove irreparable gates. Provide and hang to adjustable hinges, new gates as described hereafter. Gates shall be formed of 25mm internal diameter mild steel piping with all joints welded, braced, and filled in with 50mm mesh chain link netting of 2,5mm diameter galvanised mild steel and secured to pipes with 2,0mm diameter galvanised binding wire, or in coastal areas, filled in with 50mm mesh chain link netting of 2,0mm diameter plastic-coated mild steel and secured to pipes with 1,8mm diameter plastic-coated binding wire.

Provide each single gate with a spring catch and each double gate with U-shaped catch and drop bolt engaging in a 25mm diameter pipe, encased in 300 x 300 x 300mm Class B-concrete block.

N.B. :

At coastal areas, gates shall be formed out of hot-dip galvanised heavy duty mild steel piping as described in clause 19.8 of OW 371, for gates.

Size: Quantity:

2192

FIBRE CEMENT FENCING:

Provide fibre cement fencing of the sizes shown on drawings or as specified, formed out of 65mm diameter mild steel tubular posts spaced at not more than 3m apart, bedded 600mm deep in the ground and surrounded with 450 x 450 x 600mm deep Class B-concrete blocks.

Two 50 x 50mm angle section mild steel rails set 228mm from top and bottom bolted to posts in a straight line with 10mm diameter bolts.

Cover the one face with corrugated fibre cement, fixed to railing with 8mm diameter hook bolts, all as described in clause 7.9 of OW 371 for fibre cement roofing sheets.

Paint the tubular posts and railings two coats aluminium paint.

Paint the fibre cement sheets both sides two coats emulsion paint.

2193

REPAIR FIBRE CEMENT FENCING:

Inspect and fix all loose railing and fibre sheeting and leave perfect.

2194

Allow for the replacing of items as specified below, including the painting thereof.

2195

SPLIT POLE FENCING:

Provide split pole fencing of the sizes shown on drawings or as specified, formed out of 80mm diameter mild steel tubular posts spaced at not more than 3,6m centres, bedded 600mm deep in the ground and surrounded with 300 x 450 x 600mm Class B-concrete blocks. Provide 50 x 76mm S.A. pine cross-rails set 228mm from top and bottom, bolted to posts in a straight line with 10mm diameter bolts.

Cover external face with 75 to 100mm wide barked split poles closely fitted together and twice nailed to cross rails with 75mm long wire nails. Bottom edge of split poles to be set 50mm above ground level and top edge trimmed to a perfect straight line on completion.

Paint tubular posts with two coats of aluminium paint and apply two coats of carbolineum or other wood preservative to cross rails and split poles.

2196

SPLIT POLE FENCING (REPAIR):

Thoroughly examine the split pole fencing specified to be repaired and securely refix all loose cross rails and split poles.

Paint tubular posts two coats aluminium paint and apply two coats

carbolineum or other approved wood preservative to both sides of cross rails and split poles.

2197

Allow for the supply and fixing of the items hereafter specified, including the painting thereof as specified.
2198

COMPILED BY:

END OF SPECIFICATION

CHECKED BY:

2199

2200

DEMOLITIONS

GENERALLY:

Tenders are invited for the demolition purchase of old material arising from the demolition, grubbing up of all foundations/tree stumps, roughly levelling of the site in close proximity of the actual demolition work and the removal from site of all surplus material and debris, resulting from the demolition. Adequate protection must be taken to ensure the safety of pedestrians by erecting the necessary boarding etc. as required and all necessary warning boards.

2201

SECURITY AND TERMS OF PAYMENT:

The successful Tenderer shall deposit with the Regional Representative, Department of Public Works, a security in the form of ten percent (10%) of the tendered demolition price this amount is to be paid in cash or bank initialled cheque prior to the site being handed over. The security deposit will be refunded on satisfactory completion of the service.

2202

PURCHASE OF OLD MATERIALS ARISING FROM THE DEMOLITION:

Tenderers shall purchase all old materials arising from the demolition and must indicate on the Summary Page the amount tendered as purchase price for such materials. This amount must be paid to the Regional Representative, Department of Public Works in cash or bank initialled cheque before the site will be handed over.

2203

INSURANCE:

The Contractor shall enter into a policy of insurance to cover his liability under the law in force, relating to the Workman's Compensation and liability to the Public and shall produce proof of such insurance having been effected by him, during the period of the contract.

The Contractor shall indemnify the Government from all claims due to accidents to Workmen and the Public during the execution of this Contract.

2204

TAKING POSSESSION:

The successful Tenderer will be required to take possession of the property on notification of acceptance of his tender. Any loss or damage to the property after that date will be to the account of the Contractor and on no account will any claim for compensation be entertained in connection with any loss or damage.

2205

PROTECTION AGAINST FIRE:

The Contractor shall be responsible for the protection and safety of the premises against fire and shall take such precautions as may be directed by the Representative/Agent.

2206

DUST PREVENTION:

The Contractor is to provide water and supply same by sprinkling with a hose or other approved means to prevent or allow any nuisance arising from dust, etc., during the whole of the demolition work.

2207

RELICS AND TREASURES:

Any relics or treasures found during demolition or during excavation shall remain the property of and are to be handed over to the Regional Representative, Department of Public Works.

2208

PLANT, ETC.:

The Contractor shall provide all necessary labour, plant and transport for the carrying out of the work in a satisfactory manner and to the satisfaction of the Representative/Agent.

2209

RECOVERABLE MATERIAL:

The Contractor is to submit his offer for the purchase of the old materials recovered from the demolitions and to carry same forward as required to the Summary page attached hereto and to Tender Form.

2210

MAKING GOOD:

The Contractor must make good in all trades to any adjacent work damaged or disturbed through the demolitions with all the necessary new materials to match and leave complete and perfect in every respect.

2211

REGULATIONS:

The Contractor shall comply with all Government, Local Management and other regulations, governing the demolition of buildings, and shall pay all fees legally payable and shall make provision for such amounts in his tender.

2212

LEAVE PERFECT:

As clause 18.8 of OW 371

2213

END OF SPECIFICATION

No.

2214

SERVICE:

2215

SUMMARY

The total tender price for this service must include all labour and material required for the proper execution of the work and shall be carried over to the Tender Form which must be returned together with this document.

2216

a. Amount for all work specified R ……..

b. Amount for General Regula tions and Preparation Work R ……..

Sub-total R……
Add:
Value-added Tax (VAT) R…….....

Total carried forward to Tender Form R…….....

2217

a. Amount for all work specified R. …….....

b. Amount for soil drain connection R……..

c. Amount for cell locks and boxes R…….....

d. Amount for General Regulations and Preparation Work R……..

Sub-total R…….....
Add:

Value-added Tax (VAT) R.....……..

Total carried forward to Tender Form R……..…....

2218

a. Amount for specification Part A R……..….

b. Amount for specification Part B R……...

c. Amount for specification Part C R……...

d. Amount for General Regulations and Preparation Work R……

Sub-total R……

Minus offer for recoverable material R……...

Add:

Value-added Tax (VAT) R……...

Total carried forward to Tender Form R……...

2219

a. Amount for specification Part A R……

b. Amount for specification Part B R……...

c.	Amount for specification Part C	R……
d.	Amount for General Regulations and Preparation Work	R……...
Sub-total		R……...
Add:		
Value-added Tax (VAT)		R……..….
Total carried forward to Tender Form		R……...

2220

TENDERER'S SIGNATURE:……..…..

ADDRESS:……..….

……..…

……...

DATE: ……

PRICED SPECIFICATION:

A priced specification must be submitted with the tender.

2221

GENERAL INFORMATION FOR INSPECTORATE:

TIME NECESSARY TO CARRY OUT THE WORK (IN WEEKS)

ESTIMATED COST OF SERVICE	MINOR NEW WORKS ALTERATIONS AND ADDITIONS	REPAIRS & RENOVATIONS, TARRED ROADS, FENCING SECURITY MEASURES, INDUSTRIALISED BUILDINGS, ETC.

	MAJOR CENTRES	COUNTRY AREAS	MAJOR CENTRES	COUNTRY AREAS
Up to R25 000	8	10	5	6
R25 001 to R50 000	10	13	6	8
R50 001 to R100 000	13	16	7	10
R100 001 to R200 000	16	20	10	12
R200 001 to R300 000	19	23	11	14
R300 001 to R600 000	24	30	14	18
R600 001 to R1200 000	30	38	18	23
R1200 0001 to R2400 000	38	47	22	28

N.B. :

The following must also be taken into account when using the above table.

1 The time period given above are calculated for the actual execution of the work;

2 To calculate the contract period for the service add five (5) weeks to the values given in the table.

3 An additional allowance may be made at the Inspector's discretion for services carried out under abnormal or difficult circumstances.

4. The Inspector must use his discretion for borderline cases.

5 If the contract period as calculated, with the inclusion of paragraph (2) above, exceed 6 months use clause 1009, and where the contract period is shorter than 6 months, use clause 1009 (a).