

<b>WESTERN CAPE: CAPE TOWN : ROBBERN ISLAND MUSEUM - MAXIMUM SECURITY PRISON</b>		BUILDING		
		SECTION NAME		
<b>REPAIRS, RENOVATIONS AND MINOR WORKS PROJECT FOR THE DEPARTMENT OF PUBLIC WORKS WCS NO 021448</b>		ROOM NO		
		ROOM NAME		<b>GENERAL SPECS</b>
<b>GROENEWALD PRELLER ARCHITECTS CC</b> TEL 021 423 5915 FAX 021 423 5949 E-MAIL : gparch@new.co.za		REF NO <b>01/423</b>		DOC NO <b>SPGEN</b>
		DATE <b>NOV 2004</b>		REVISION NO <b>A</b>
EXHIBIT INTENT		FILM		PHOTO
SPECIAL NOTES	<i>All codes for paint colours refer to PLASCON EXPRESSION range unless specified otherwise</i>			
ELEMENT	SURFACE PREPARATION		PAINT APPLICATION SYSTEM	
<b>EXISTING FABRIC:</b>				
<b>a) PREVIOUSLY PAINTED SURFACES</b>				
<b>1a. ENAMEL PAINT SYSTEM A:</b> (previously painted surfaces: ENAMEL PAINT)	<u>PLASCON ENAMEL PAINT SYSTEM A (previously painted with enamel) or similar product with equal performance properties:</u> Remove loose - and peeling paint and any unsound material back to a firm edge by scraping or sanding, feather edges. Scrub with sugar soap solution to remove dirt, powdery residues and other contaminants. Rinse thoroughly with fresh water, dry. Make good plaster cracks (specified in the room schedules) with Mendall 90 (or equal exterior quality crack filler) or refer to Flexible Joint Sealing Compound System, as per the room schedule instruction. Smooth crack treatment off whilst still wet and allow to dry and then sand to a smooth finish. Sand old enamel paint to an even matt finish to provide key. All surfaces must be clean, sound and dry before painting.	To suitable prepared surfaces apply: Spot Prime: Plaster Primer One coat All Purpose Undercoat Two coats Super High Gloss Enamel or Eggshell Enamel <b>Application:</b> <b>Primer:</b> Spot prime bare and repaired areas with Plaster Primer thinned 5 parts Primer to 1 part Mineral Turpentine by volume. Apply copiously to achieve continuous barrier coat. Allow to dry overnight. <b>Undercoat:</b> Apply an overall coat of All Purpose undercoat and allow overnight drying. <b>Final coats:</b> Apply 2 x coats of Super High Gloss Enamel or Eggshell Enamel to achieve complete obliteration, allowing overnight drying between coats		
<b>1b. ENAMEL PAINT SYSTEM B</b> (previously painted surfaces: ACRYLIC PAINT) (TG to check?)	<u>PLASCON ENAMEL PAINT SYSTEM B (previously painted with acrylic) or similar product with equal performance properties:</u> As above (taking care to remove all loose paint) but apply Plaster Primer to prepare acrylic surface for gloss enamel paint.	To suitable prepared surfaces apply: Spot Prime: Plaster Primer One coat All Purpose Undercoat Two coats Super High Gloss Enamel or Eggshell Enamel <b>Application:</b> <b>Primer:</b> Spot prime bare and repaired areas with <u>Plaster Primer</u> thinned 5 parts Primer to 1 part Mineral Turpentine by volume. Apply copiously to achieve continuous barrier coat. Allow to dry overnight. <b>Undercoat:</b> <u>Apply an overall coat of All Purpose undercoat and allow overnight drying.</u> <b>Final coats:</b> Apply 2 x coats of Super High Gloss Enamel or Eggshell Enamel to achieve complete obliteration, allowing overnight drying between coats		

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<b>2. EMULSION (acrylic) PAINT SYSTEM:</b>	<u>PLASCON EMULSION PAINT SYSTEM or similar product with equal performance properties:</u> Remove loose paint and peeling paint and any unsound material back to a firm edge by scraping or sanding, feather edges. Scrub with sugar soap solution to remove dirt, powdery residues and other contaminants. Rinse thoroughly with fresh water, dry. Make good plaster cracks with e.g. mendall 90 or refer to Flexible Joint Sealing Compound System.. Smooth off whilst still wet and allow to dry and then sand to a smooth finish. All surfaces must be clean, sound and dry before painting.	To suitable prepared surfaces apply: Spot Prime: Plaster Prime Two coats Pure Acrylic Low Sheen <b>Application:</b> <b>Primer:</b> Spot prime bare and repaired areas with Plaster Primer thinned 5 parts Primer to 1 part Mineral Turpentine by volume. Allow to dry overnight. <b>Final coats:</b> Apply 2 x coats of Pure Acrylic Low Sheen to achieve complete obliteration, allowing 2 hours drying between coats @ 23°C.		
<b>3. SILVER PAINT SYSTEM:</b>	<u>MIDAS STANDARD ALUMINIUM PAINT SYSTEM or similar product with equal performance properties:</u> Standard aluminium is a blend of synthetic resin and drying oils pigmented with aluminium paste which dries to a satin finish Used as a finishing coat on fencing posts, telegraph poles and also on metal gates or roofing sheets <i>Standard Aluminium needs to be stirred before and during use, due to its low viscosity.</i> Prepare by removing all loose and flaking paintwork, scraping down and sand papering to remove all inadequately adhering paint . Brush down and wash to remove dust and surface contamination. Brush down areas of mould and fungus growth with stiff fibre brush, treat such areas with Midas Fungiwash and allow to react for at least 24 hours. Wash off with clean water. Apply a second coat of Midas Fungiwash. Rake out and prime inside of cracks and other imperfections with Midas Masonry Primer and fill flush with Interplast to match existing surface or refer to Flexible Joint Sealing Compound System. Sand lightly and wipe clean.	Solvent Cleaner: Mineral Turpentine Application: Brush, roller or Spray Spreading Rate: ± 10m <sup>2</sup> /Litre Over coating Time: 24 hours  To suitable prepared surfaces apply: Spot Prime: bare and filled areas with Midas Masonry Primer, as supplied. <b>Application:</b> <b>Primer:</b> Apply one coat of Midas Universal Undercoat as supplied. <b>Final coats:</b> Apply two coats of Midas Standard Aluminium as supplied.		
<b>4. SILVER PAINT FOR STEEL COMPONENTS</b>	<u>MIDAS STANDARD ALUMINIUM PAINT SYSTEM or similar product with equal performance properties:</u> Standard aluminium is a blend of synthetic resin and drying oils pigmented with aluminium paste which dries to a satin finish Used as a finishing coat on fencing posts, telegraph poles and also on metal	Solvent Cleaner: Mineral Turpentine Application: Brush, roller or Spray Spreading Rate: ± 10m <sup>2</sup> /Litre Over coating Time: 24 hours		

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	<p>gates or roofing sheets Standard Aluminium needs to be stirred before and during use, due to its low viscosity. Prepare by scraping down and sand papering to remove all inadequately adhering paint. Chip away all rust scale and sandpaper down to achieve a surface free of rust (as far as practically possible) Apply Midas Rust Neutraliser to all surfaces affected. Allow the chemical reaction to proceed to completion before washing down with clean water. Allow to dry.</p>		<p>To suitable prepared surfaces apply: Spot Prime: all bare metal areas with Midas Metal prime Red, as supplied <b>Application:</b> <b>Primer:</b> Apply one coat of Midas Universal Undercoat as supplied. Allow to dry, sand lightly and wipe clean. <b>Final coats:</b> Apply two coats of STANDARD ALUMUNIUM as supplied.</p>	
<b>5. INTERNAL/ EXTERNAL STEEL COMPONENTS PAINT SYSTEM (PREVIOUSLY PAINTED)</b>	<p><u>PLASCON STEEL COMPONENTS PAINT SYSTEM or similar product with equal performance properties:</u> Strip all paint (coarse sanding/ scraping/ Stripclean Super Paint Stripper), wash with sugar soap, rinse, dry. Remove rust completely back to bright metal (using: power tools, scraping, sanding or Rust Remover) Where rust cannot be removed completely: remove all loose rust scraping/chipping: Rusist Rust Converter may be applied. Sand open ends of hollow steel sections for clean substrate. Seal off open ends with Waterborne epoxy Filler Putty and dry. Surfaces must be clean, sound and dry before painting.</p>		<p>To suitable prepared surfaces apply: Spot prime: Rusist Rust Converter One coat Zinc Phosphate Primer Two coats of Velvaglo Gloss <b>Application:</b> <b>Primer:</b> Areas where tight rust remains: Apply Rusist Rust Converter copiously to penetrate hidden and recessed areas as thoroughly as possible. Allow at least 4 hours at 23°C for chemical reactions to complete. Product changes to blue-black colour. Then apply one overall coat of Zinc Phosphate Primer to a DFT to 50 ±5µm covering areas where Rusist has been applied also. Allow 16 hours drying at 23°C before overcoating. <b>Final coats:</b> Apply 2 coats of Velvaglo Gloss to achieve complete obliteration, allowing 16 hours drying between coats. NB: Rinse paint surfaces which have dried overnight with fresh water and dry before applying successive coats.</p>	

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<b>6. INTERNAL/ EXTERNAL GALVANISED IRON SYSTEM</b>	<u>PLASCON STEEL COMPONENTS GALVANISE SYSTEM or similar product with equal performance properties:</u> Strip off all remaining paint by most suitable means such as scraping or with Stripclean Super Paint Stripper following the directions on the container. Clean all galvanised areas with Galvanised Iron Cleaner to achieve a water break-free surface. Rinse thoroughly with fresh water. Allow to dry. Sand off red rust on metal brackets and galvanised areas back to bright metal.	<b>PLASCON SYSTEM:</b> Spot prime: Plascosafe 18 Primer One coat Plascosafe 18 Primer Two coats Velvaglo Gloss <u>Application:</u> <b>Primer:</b> First spot prime previously rusted metal areas with Plascosafe 18 Primer. Allow 4 hours drying @ 23°C. Then apply an overall coat of Plascosafe 18 Primer. Allow at least 24 hours drying @ 23°C. Final coats: Apply two coats of Velvaglo Gloss to achieve complete obliteration, allowing overnight drying between coats.		
<b>7. INTERNAL CEILING PAINT SYSTEM:</b>	<u>PLASCON INTERNAL CEILING PAINT SYSTEM or similar product with equal performance properties:</u> Brush off loose particles. For concrete ceilings: make good damaged areas and joint with Mendall 90 or For gypsum ceiling boards: make good damaged areas with gypsum based skimming agent e.g. Rhinolite Allow to dry overnight and sand smooth.	To suitable prepared surfaces apply: Two coats of Professional Super Acrylic <u>Application:</u> <b>Primer:</b> Spot prime all repaired and skimmed areas with Plaster Primer thinned 5 parts Primer to 1 part Mineral Turpentine by volume. Allow to dry overnight. <b>Final Coat:</b> Apply two full coats of Super Acrylic to achieve complete obliteration allowing 1 hour drying at 23°C between coats. NB: avoid overspreading, otherwise a third coat may be required to obliterate.		

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<b>8. PREVIOUSLY VARNISHED WOODEN SURFACES</b>	<p><u>PLASCON PREVIOUSLY VARNISHED WOODEN SURFACES SYSTEM or similar product with equal performance properties:</u> Clean all surfaces with Lacquer thinner and clean cloths to remove oily and other contaminants. Remove loose and peeling varnish back to firm edge and feather edges. Make good defects with Wood filler in a matching shade. Allow to dry and sand smooth. Sand surfaces to an even matt finish to remove scratch marks as far as possible and to create a key between old and new coats. Wipe down with a damp cloth to remove dust. Seal any bare knots and resinous areas with and allow 1 hour to dry.</p>	<p>To suitable prepared surfaces apply: Touch-up: Ultra Varnish Two coats of Ultra Varnish <b>Application:</b> <b>Touch-up</b> Apply a touch-up coat of Ultra Varnish thinned 3 parts Varnish to 1 part Mineral Turpentine by volume to aid penetration into carte wood and repaired areas. Allow to dry at least 6 hours at 23°C. Then sand lightly with fine paper to denib and remove dust. <b>Final coats:</b> Apply two full coats of Ultra Varnish unthinned allowing 6 hours drying at 23°C between coats and denibbing between coats as before. Allow final coat to dry a minimum of 24 hours at 23°C before commissioning to light use.</p>		
<b>9. PREVIOUSLY PAINTED WOOD</b>	<p><u>PLASCON PREVIOUSLY PAINTED WOODEN SURFACES SYSTEM or similar product with equal performance properties:</u> Wash with sugar soap, rinse with fresh water. Remove loose and peeling paint by scraping or sanding for a firm edge and feather edges. Fill defects with Woodfiller. working off smoothly, allow to dry, sand to even smooth finish, Seal bare and resinous areas with Knot Seal and allow 1 hour to dry, sand old enamel paint to an even matt finish to provide a key, remove dust.</p>	<p>To suitable prepared surfaces apply: Spot prime: Wood Primer Two coats: Velvagio Gloss <b>Application:</b> <b>Primer:</b> Spot prime bare wood and repaired areas with wood primer. Allow 24 hours drying @ 23°C. <b>Final coats:</b> Apply two coats of Velvagio Gloss to achieve complete obliteration allowing 16 hours drying @ 23°C between coats.</p>		
<b>10. STOEP ENAMEL PAINT</b>	<p><u>PLASCON STOEP ENAMEL PAINT SYSTEM or similar product with equal performance properties:</u> Verify compatibility between old and new. Measure moisture content with moisture meter, should be less than 5%. Wash with Aquasolve Degreaser (removing oil, grease &amp; dirt), rinse with fresh water and dry by vacuuming to prevent excessive water absorption. Allow to dry. Make good substrate defects with Masonry Patching Plaster. Allow to dry. Abrade old paint surfaces with fine-medium emery cloth to provide key.</p>	<p>To suitable prepared surfaces apply: 2 x coats of Stoep enamel <b>Application:</b> First coat: Apply the first coat of Stoep Enamel thinned 5 parts Stoep Enamel to 1 part Mineral Turpentine by volume to aid penetration into bare and repaired areas. Allow to dry 16 hours @ 23°C. <b>Final coat:</b> Apply the second coat of Stoep Enamel to unthinned to achieve complete obliteration. Allow to dry for at east 24 hours @ 23°C before subjecting to light traffic.</p>		

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<b>11. ASBESTOS CEMENT GUTTERS; DOWNPIPES and WATER TANKS PAINT SYSTEM</b>	<p><u>PLASCON PAINT SYSTEM FOR ASBESTOS CEMENT GUTTERS; DOWNPIPES and WATER TANKS or use a similar product with equal performance properties:</u> Surface preparation: Apply sodium hypochlorite solution (household bleach thinned 1 part bleach to 2 parts water) to all areas containing algae and fungi. Leave for at least one hour. Scrub with sugar soap solution and scrubbing brush to remove all traces of bleach, dirt, algae residues and chalked material. Rinse thoroughly with fresh water and allow to dry. Remove all loose and peeling paint back to a firm edge and feather edges. Make good any cracks and defects with Mendall 90 and allow to dry.</p>	<p>To suitable prepared surfaces apply: Spot prime: Plaster Primer Two coats: Pure Acrylic Low Sheen <u>Application:</u> Primer: Spot prime bare and mended areas with plaster primer thinned 5 parts primer to 1 part mineral turpentine by volume. Allow 16 hours drying @ 23°C. Final coats: Apply two coats of Pure Acrylic Low Sheen to achieve complete obliteration allowing 1 hour drying @ 23°C between coats.</p>		
<b>12. EXTERNAL WALLS PAINT SYSTEM</b>	<p><u>PLASCON PAINT SYSTEM FOR EXTERNAL WALLS or use a similar product with equal performance properties:</u> Surface preparation: Apply sodium hypochlorite solution (household bleach thinned 1 part bleach to 2 parts water) to all areas containing algae and fungi. Leave for at least one hour. Remove all loose and peeling paint, dirt, chalked material and algae residues by hydroblasting and scraping or other suitable means. Allow to dry. Open and rake out structural cracks. Where excessive plaster has been removed, replaster using Masonry Patching Plaster leaving a 5mm valley, to be filled and smoothed off with Mendall 90. Repair plaster cracks with Polycell Mendall 90. (NB: The texture of plaster should be imitated as close as possible.) All surfaces must be clean, sound and dry before painting.</p>	<p>Approved Plascon System To suitably prepared surfaces apply: Primer: Plaster Primer Two coats: Crown Micatex  <u>Application:</u> Primer: Apply an overall coat of Plaster Primer diluted 5 parts of Primer to 1 part Mineral Turpentine by volume. Allow 16 hours drying @ 23°C. Final coats: Apply two coats of Crown Micatex not exceeding 5m<sup>2</sup>/l allowing 1 hour drying @ 23°C between coats and working material well into fine haircracks.</p>		

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13. EXISTING INTERIOR GLASS FIBRE PAINT SYSTEM	<u>PLASCON PAINT SYSTEM FOR EXISTING INTERIOR GLASS FIBRE or use a similar product with equal performance properties:</u> Remove all loose material and flaking residue by means of wire brushing, wash with Polycell Sugar Soap or weak spirits of salts, and rinse_	Approved Plascon System To suitably prepared surfaces apply: Primer: Plascon Glatex 8 White Undercoat Two coats: Plascon Glatex 8 Polyurethane Enamel Application: Primer: Apply one coat Plascon Glatex 8 White Undercoat Final coats: Apply two coats Plascon Glatex 8 Polyurethane Enamel paint to general existing interior painted glass fibre surfaces.	
14. EXISTING INTERIOR PLASTIC PAINT SYSTEM	<u>PLASCON PAINT SYSTEM FOR EXISTING INTERIOR PLASTIC or use a similar product with equal performance properties:</u> Remove all loose material and flaking residue by means of wire brushing, wash with Polycell Sugar Soap or weak spirits of salts, and rinse_	Approved Plascon System To suitably prepared surfaces apply: Primer: Apply one coat Plascon Merit Plaster Primer Final coats: Apply one coat Plascon Velvaglo Polyurethane Enamel paint to general existing interior painted plastic surfaces.	
<b>b) CRACK REPAIRS:</b>			
15. FLEXIBLE JOINT SEALING COMPOUND FOR CRACKS	<u>SIKAFLEX-pro2hp or similar product with equal performance properties</u> All surfaces should be clean, dry and free from all loosely adhering particles.	Refer to manufacturer's instructions: Priming: On porous surfaces such as concrete, render, brickwork and timber use Sika-Primer 1 Application: Sikaflex-pro2hp is installed direct from the cartridge with the normal skeleton gun or in the case of vacuum bag packaging or tins use the larger barrel gun. Cleaning: Clean tools and equipment immediately after use with Colma- Cleaner	
<b>c) WATERPROOFING SYSTEMS</b>			
16. DAMPSEAL PAINT SYSTEM	<u>PLASCON DAMPSEAL PAINT SYSTEM or similar product with equal performance properties</u> Surface must be firm and clean, wash with sugar soap, spot prime all cracks with Plascon Dampseal before filling with appropriate filler	Stir contents for 5 minutes Apply 1 <sup>st</sup> coat: thinned with 25% with Mineral Turpentine. Apply 2 <sup>nd</sup> coat	

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<b>17. MORTAR MIX FOR EXTERNAL CRACKED JOINTS</b>	<u>SIKA MORTAR MIX FOR EXTERNAL CRACKED JOINTS SYSTEM (or use equivalent approved product)</u> Clean walls without loosening or disturbing any of the structure. All loose materials and dirt must be removed.	Repair cracks in mortar joints with 1 part cement OPC, 4 parts sand and 1 part SIKA CEMFLEX to 4 parts water.		
<b>18. SIKA WETSEAL WATERPROOFING SYSTEM</b>	<u>SIKA WETSEAL WATERPROOFING SYSTEM or use a similar product with equal performance properties:</u> Wetseal is a 2-component Epoxy resin based dispersion coating that can be thinned with water. Surface preparation: Remove <i>all</i> existing paint to expose the masonry surface and in the case of new concrete or mortars remove laitance by sand blasting or other mechanical means. Surface should be sound, clean and free from oil, standing water, grease and other contaminants.	Mixing: Stir component A well prior to adding fully to component B. Mix thoroughly with flat bladed implement or preferably by mechanical means (low speed hand drill paddle). Mixing time approximately 3 minutes until a smooth homogeneous liquid is produced. Application: By brush, roller or spray. For damp-proofing application it is recommended that the first coat is brushed on. Ensure surfaces are pre-dampened with water prior to application. A minimum of 2 coats is recommended. Cleaning: Clean with luke warm water white Wetseal is still wet.		
<b>19. SIKA CEMFLEX WATERPROOFING SYSTEM</b>	<u>SIKA CEMFLEX WATERPROOFING SYSTEM or use a similar product with equal performance properties:</u> Surface Preparation: Strip all old paint to clean plaster. Concrete mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. Steel and iron surfaces must be free from scale, rust, grease and oil. Saturate absorbent surfaces thoroughly with water.	Mixing: Waterproofing: Cemflex Slurry is prepared by mixing Cemflex, water and cement ratio 5 litre Cemflex to 4 litre water ti 17kg cement (1/3 of 50kg pocket). Mix Cemflex and water first then add cement slowly. It is preferable to use a slow speed mechanical mixer. Mixing should be continue until slurry is totally homogeneous and lump free. The slurry should be mixed periodically during application to prevent settlement. Application: Waterproofing: Whilst the surface is still damp apply a prime coat of slurry to the surface. Precut the Cemflex membrane into convenient sizes for application, then soak the fabric in the slurry mix. Remove the soaked fabric from the slurry mix and without wringing out all, smooth the fabric onto the prepared wall or floor making sure to eliminate air bubbles under the fabric. The application must allow for a minimum of 50mm overlap of the fabric. Once the area to be treated is covered then a generous coat of Cemflex Slurry is painted over the whole area and allowed to dry and thereafter a further coat is applied. Leave to dry.		



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20. TREATMENT OF FACE OF WINDOW FRAMES ABUTTING TO WALLS	Description: Solvent borne blend of bitumens. Surface preparation: Any surface to which abe ravenol is to applied must be clean, mechanically sound and dry Surfaces should be free of oil, grease, loose material and old paint.	Mixing: Stir well before use. Application: ravenol may be applied directly from the can. If used in a dipping batch, the bath should be as narrow as possible to present minimum surface area to the atmosphere and thus reduce volatile loss. Apply a minimum of 2 coats, drying @ 25°C (touch dry: 1 hour; Hard dry: 24 hours)– over coating time @ 25°C: 2hours minimum	
<b>d) SPALLED CONCRETE REPAIR SYSTEMS:</b>			
21. CONCRETE SPALLING REPAIR SYSTEM	<u>SIKA CONCRETE REPAIR SYSTEM (or use equivalent approved product)</u>  Identify and inspect cracks in order to investigate the cause of cracking. Any cracks containing corroding reinforcing steel must be cut open and treated as a repair item. All concrete areas to be broken out are to have rebated perimeter of at least 10mm deep and ±50mm either side of defected steel. Break out all defective concrete by approved mechanical means. Thoroughly clean down all exposed steel by abrasive blast cleaning to remove all rust and to expose clean bright steel.	Repair to concrete: Immediately after cleaning down the reinforcing steel, apply a coat of approximately 1mm thick of SIKA TOP ARMATEC 110 EPOCEN anti-corrosive coating to the reinforcing steel. Allow to dry for approximately 2-3 hours (at 20°C) before applying a second coat of similar thickness to the reinforcing steel and surrounding concrete. Allow to dry for a similar period before applying patching mortar to the repair. Apply onto the bonding slurry SIKA REP LW patching mortar of earth consistency. SIKA REP LW mortar is to be well compacted in layers not exceeding 50mm and is to be trowelled off to the profile of the surrounding concrete. All SIKA REP LW mortar repairs are to be suitably cured and protected by approved means. For cracks that are difficult to access: use the system and a pourable non-shrink grout, SIKA GROUT 212 (prepare and use according to manufacturer's instructions)	
<b>e) EXISTING SANITARY:</b>			
22. WASH HAND BASINS	WASH HAND BASINS: Remove all basins from walls; clean basins and paint underneath according to <u>PLASCON EXTERNAL STEEL &amp; CAST IRON SURFACES PAINT SYSTEM or a similar product with equal performance properties:</u> <b>Surface preparation:</b> Remove as much paint as is practically possible using the most suitable methods for this type of substrate. Ensure a clean, dry and firm surface. Ensure that all loose rust/rust scaling is removed. Prepare the steel surface by whatever means practical in order to achieve a faint metallic appearance. Lightly sand all existing paint work which is in sound condition with a suitable fine grit graded sandpaper in order to achieve an overall matt finish and to		

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<p align="center"><b>GROENEWALD PRELLER ARCHITECTS CC</b>                  TEL 021 423 5915 FAX 021 423 5949                  E-MAIL : gparch@new.co.za</p>		REF NO <b>01/423</b>		DOC NO <b>SPGEN</b>
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EXHIBIT INTENT		FILM		PHOTO
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	<p>provide a suitable key. Dust off thoroughly.                  Feather all edges.                  Sand open ends of hollow steel sections for clean substrate. Seal off open ends with Waterborne epoxy Filler Putty and dry.  <b>Rust Conversion:</b>                  To suitable prepared (faint metallic appearance), apply one coat of Plascon Rusist 84 Rust Converter (Code EMS21). Ensure complete application to rust prepared areas. Avoid an excessively thick application. Allow a minimum of 4 hours drying at 25°C.  <b>Priming- Zinc Phosphate:</b>                  Apply one coat of Plascon Namelcoat Metal Primer (Code UC53). Allow a minimum of 24 hours and 72 hours maximum drying. Ensure obliteration of substrate.  <b>Undercoat:</b>                  Apply one coat of Plascon Universal Undercoat (Code UC1). Allow a minimum of 24 hours and 72 hours maximum drying. Ensure obliteration of primer.  <b>Top coat:</b>                  Apply 2 coats for Plascon Velvagio Polyurethane Enamel (Code VLO). Allow 24 hours minimum and 48 maximum drying between coats.</p> <p>SHARP EDGES TO BASINS:                  File down all sharp edges carefully</p> <p>BRACKETS:                  Replace all brackets with new 'old fashioned' basin brackets (<i>acquire sample from Lance Goodale: Victorian Bathrooms</i>)</p> <p>MISSING BASINS:                  Where basins are missing, similar 2<sup>nd</sup> hand cast iron enamel basins should be sourced. (Lance Goodale from Victorian Bathrooms could assist)</p> <p>TAPS:</p>			

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	Where taps are missing: reinstate Star taps (Cobra: 111-15 Star Pillar Tap)			
<b>23. LAUNDRY TUB BIPTAPS</b>	- Reinstate brass taps: COBRA 100-20 Standard Brass Biptap - In the 1990's ablution areas 1 x (authentic) brass biptap should be connected to the water supply system			
<b>24. SHOWERHEADS</b>	A) 1960's ABLUTION AREAS: -All missing shower heads should be replaced: Reinstate bent copper pipes as shower arms Reinstate new 60's showerheads: COBRA: 079CP 85mm showerhead with 1 x D-10xs-15 Conex Connection. B) 1980's- and 1990's ABLUTION AREAS: - Reinstate new 80's: COBRA 078CP 'Easi Spray' Shower Rose with COBRA 063 connector and COBRA D-10XS-15 Conex connection			
<b>25. WATER SUPPLY</b>	<b>WATER SUPPLY:</b> Re-instate the cold water supply system throughout the precinct where sanitary fittings are reinstated. All fittings should be reconnected to the water supply system, and be fixed to working order. Where fittings cannot be reconnected to the water supply or where part of the installation has been removed or disconnected, the ends of pipes should be capped.			
<b>26. 1980's URINAL CISTERN</b>	-URINAL CISTERN: SHIRES LYNX AUTOMATIC reversible black duranite automatic flushing cistern to BBS 1876 with screw down lid, decorative beading, concealed fixing brackets and 15mm side-entry petcock, fitted with automatic siphon with 1-in. BSP outlet. -WC's: Clean WC's Replace all missing cistern lids & flush handles (unless otherwise specified) -URINALS: Stainless Steel Specialist to clean, disinfect and neutralise all rust from urinal			

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<b>27. COPPER PIPE PAINT SYSTEM</b>	<p><u>PLASCON PAINT SYSTEM FOR COPPER or use a similar product with equal performance properties:</u> Strip all paint (coarse sanding/ scraping/ Stripclean Super Paint Stripper), wash with sugar soap, rinse, dry. Sand pipes and open ends of hollow steel sections for clean substrate with 220 grit sandpaper. Seal off open ends with Waterborne epoxy Filler Putty and dry. Surfaces must be clean, sound and dry before painting.</p>	<p><b><u>PLASCON SYSTEM:</u></b> Copper prime: PL200 Twin pack Etch Primer One coat Plascosafe 18 Primer Two coats Velvaglo Gloss</p> <p><b><u>Application:</u></b> Primer: Apply PL200 Twin pack Etch Primer . Allow 4 hours drying @ 23°C. Then apply an overall coat of Plascosafe 18 Primer. Allow at least 24 hours drying @ 23°C. <b><u>Final coats:</u></b> Apply two coats of Velvaglo Gloss to achieve complete obliteration, allowing overnight drying between coats.</p>		
<b>28. VINYL FLOORS</b>	<p>All vinyl floors are to be stripped &amp; sealed with three coats of water based floor dressing complying to SABS 1042. (SABS 1042: Polymer floor dressing: hard, slip-resistant, water based polymer floor dressing suitable for vinyl asbestos and vinyl. Requirements for odours, flow-out, drying time, leveling, gloss, water spotting, recoatability, powdering, resistance to detergent, removability, durability slip-resistance, freeze-thaw stability and heat stability.)</p>			

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<b>29. BITUTHENE 3000 WATERPROOFING SYSTEM FOR CONCRETE FLAT ROOFS</b>	<b>BITUTHENE 3000: OF EQUALLY APPROVED PRODUCT:</b> All surfaces must be clean and dry, free from protrusions and nails, and any hollows filled with high strength mortar. Prime all surfaces with Primer B1 at a rate of 10m <sup>2</sup> per litre. Allow to dry completely before Bituthene 3000 is applied.	Lay Bituthene 3000 by peeling back the protective silicone release paper and apply the self-adhesive face onto the prepared surface. Adjacent rolls are aligned and overlapped 50mm minimum at side and ends, and the overlaps well rolled with a firm pressure using a Bituthene Lap Roller to ensure complete adhesion and continuity between layers. Following the application and inspection care should be taken to prevent damage following trades, As soon as practicable after the application, Bituthene 3000 should be protected from exposure to the weather and physical damage using Servipak protection boards, insulation or Hydroduct drainage composites laid to dry. Damaged areas to be repaired by patching with an oversized patch applied to a clean, dry surface extending 100mm beyond damage, and firmly rolled. The membrane should be protected against damage using Servipak 3 or Hydroduct draining sheets Bituthene Liquid Membrane is to be applied at all internal and external corners, penetrations etc, prior to applying the overall membrane. Bituthene should be brushed onto the surface to ensure good initial bond and exclude air. Exposed vertical flashings should be protected against damage from UV degradation using Solarshield. Both Bituthene 3000 and Solarshield to be terminated into a tuck & chase and sealed with Bituthene Mastic or LM to prevent infiltration of moisture behind the membrane. The junction between the slab and parapet shall have Bituthene Fillet placed firmly into position before using 300mm wide reinforcing corner strips of Bituthene 3000 placed centrally over the axis of the change of direction. During installation of insulation and before the UV protection is applied, plain insulation boards must be protected from excessive solar gain from reflective flashings such as Solarshield or similar parapets and upstands.		
<b>NEW WORK:</b>				
<b>NEW PAINT SYSTEMS:</b>				

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30. ENAMEL PAINT SYSTEM FOR NEW/ UNPAINTED WOOD	<u>PLASCON ENAMEL PAINT FOR WOODEN SURFACES SYSTEM or similar product with equal performance properties:</u> Sand smooth with 150 grit paper working in the direction of the grain, round off all sharp edges, dust.	To suitable prepared surfaces apply: Primer: Wood Primer Two coats: Velvagio Gloss <u>Application:</u> <b>Primer:</b> Prime bare wood and repaired areas with wood primer. Allow 24 hours drying @ 23°C. <b>Final coats:</b> Apply two coats of Velvagio Gloss to achieve complete obliteration allowing 16 hours drying @ 23°C between coats.		
31. ENAMEL PAINT SYSTEM FOR NEW/UNPAINTED INTERNAL FIBRE CEMENT	<u>PLASCON PAINT SYSTEM FOR INTERNAL FIBRE CEMENT WALLS PAINT SYSTEM or use a similar product with equal performance properties:</u> Surface preparation Remove any mould/shutter release agents by scrubbing with Aqausolve Degreaser (GR1) followed thorough rinsing with fresh water and allow to dry completely.	Approved Plascon System To suitably prepared surfaces apply: Primer: Plaster Primer Two coats: Velvagio Gloss or Super Eggshell Enamel <u>Application:</u> <b>Primer:</b> Prime with Merit Plaster Primer (UC 56) thinned 5 parts primer to 1 part Mineral Turpentine (AZH1) per volume. Allow 24 hours drying @ 23°C. <b>Final coats:</b> Apply two coats of Velvagio Gloss or Super Eggshell Enamel to achieve complete obliteration allowing 16 hours drying @ 23°C between coats.		
32. ENAMEL PAINT SYSTEM FOR NEW/UNPAINTED EXTERNAL FIBRE CEMENT	<u>PLASCON PAINT SYSTEM FOR EXTERNAL FIBRE CEMENT WALLS or use a similar product with equal performance properties:</u> Surface preparation Remove any mould/shutter release agents by scrubbing with Aqausolve Degreaser (GR1) followed thorough rinsing with fresh water and allow to dry completely.	Approved Plascon System To suitably prepared surfaces apply: Primer: Plaster Primer Two coats: Velvagio Gloss <u>Application:</u> <b>Primer:</b> Prime with Merit Plaster Primer (UC 56). Allow 24 hours drying @ 23°C. <b>Final coats:</b> Apply two coats of Velvagio Gloss to achieve complete obliteration allowing 16 hours drying @ 23°C between coats.		

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33. ENAMEL PAINT FOR NEW INTERIOR SMOOTH CONCRETE	<u>PLASCON PAINT SYSTEM FOR NEW INTERIOR SMOOTH CONCRETE or use a similar product with equal performance properties:</u> Prepare surfaces and remove all loose material, and rinse. Apply Polycell Mendall 90 flexible crackfiller to holes and cracks.	Approved Plascon System To suitably prepared surfaces apply: Primer: Plaster Primer Two coats: Velvaglio Gloss <u>Application:</u> <b>Primer:</b> Prime with one coat Merit Plaster Primer (UC 56). Allow 24 hours drying @ 23°C. <b>Final coats:</b> Apply two coats of Polyurethane Enamel paint to achieve complete obliteration allowing 16 hours drying @ 23°C between coats.	
34. NEW INTERIOR PLASTIC PAINT SYSTEM	<u>PLASCON PAINT SYSTEM FOR NEW INTERIOR FOR NEW INTERIOR PLASTIC or use a similar product with equal performance properties:</u> Prepare surfaces, sand down, remove all dust, grease and dirt with a strong detergent solution, and rinse.	Approved Plascon System To suitably prepared surfaces apply: Primer: Apply one coat Plascon Merit Plaster Primer Final Coat: Apply one coat Plascon Velvaglio Polyurethane Enamel paint to general new interior plastic surfaces.	
35. EXTREME SPALLED CONCRETE REPAIR SYSTEM	<u>SIKA MONOTOP 612 WET SPRAYED/HAND PLACED FIBRE REINFORCED REPAIR MORTAR or similar product with equal performance properties:</u> <b>Sika to confirm this system:</b> Sika MonoTop 612 is a cementitious, polymer modified, low permeability, high strength mortar containing silica fume and synthetic fibre reinforcement. Precise and efficient surface preparation is essential to achieve the high adhesive qualities of Sika MonoTop. The concrete substrate must be sound, clean and free from oils, grease or surface contaminants. All loose materials and surface laitance must be removed by high pressure water jet blasting or similar mechanical means. Small areas and 'spot' repairs should be mechanically prepared by needle gunning, bush hammering or similar means. The prepared substrate should be thoroughly soaked with clean water until uniformly saturated, leaving no standing water. Take care to remove any cement slurry or dust produced during surface preparation; the use of a fan-shaped water jet is ideal. Apply Sika MonoTop 610 as the bonding bridge. Steel	Thoroughly wet the substrate to a saturated surface dry condition. Apply Sika MonoTop 612 by the wet spray method. It can also be applied wet on wet by hand with a trowel or spatula onto the Sika MonoTop 610 bonding bridge. For depths greater than 30mm thick, Sika MonoTop 612 should be applied in layers. In this case, as soon as the material has reached initial set, the surface should be given an open texture by rubbing with a wooden or plastic float prior to application of the next layer. Use Sika MonoTop 610 bonding bridge for day joints and between layers if they are left to cure for more than 24 hours. If a finer surface finish is required or a protective coating is to be applied, Sika MonoTop 612 can be overcoated with Sika MonoTop 620 surface leveling compound as required. <b>CURING:</b> Sika MonoTop 612 must be kept moist while curing and protected from sunshine and extremes of temperature. Standard concrete curing practice is recommended.	

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	reinforcement should be gritblasted to a bright steel condition to remove all traces of rust contamination prior to applying Sika MonoTop 610 corrosion protection. MIXING: Pour clean water in the correct proportion into a clean mixing vessel. Add the Sika MonoTop 612 slowly while mixing continuously. To avoid entraining too much air, use a low speed mixer for minimum of 3 minutes. By gradually adding the powder in portions, the desired application consistency can be obtained.			
36. SKIMMING OF EXISTING PLASTERED WALLS	<p><b><u>STILL APPLICABLE?</u></b>  <u>BPB GYPSUM CRETSTONE</u> or similar product with equal performance  <u>properties:</u>                      -Cretestone is a vermiculated, retarded hemihydrate Gypsum plaster.</p> <p>MIXING:                      Add Cretestone slowly to clean water. Allow to soak for 5 minutes. Stir slowly to a creamy texture. Do not add foreign materials to Cretestone. Always use clean utensils. Mix with clean water in a clean container. Do not over-stir. Do not mix more Cretestone than can be used in 45 minutes. Do not re-stir nor add more Cretestone or water to the mix after mixing is complete.</p>	<p>APPLICATION:                      On rough concrete surfaces no hacking or slushing is necessary. Scrub the concrete surface with a cleansing agent to remove all grease and oil. All traces of the cleansing agent must be removed by rinsing with copious quantities of water.</p> <p>Brush off all loose particles of cement using a wire brush. Apply Grippon plaster bonding liquid (or equally approved product) using a brush or roller and whilst it is still wet and tacky apply the Cretestone neatly to a thickness of not less than 4mm by using a steel trowel, pressing the Cretestone well onto the concrete surface. The pressure is essential, as without it air may be trapped between the Cretestone and the concrete destroying the bond. As soon as this layer has stiffened, but not set, apply another layer of approximately 4mm thick, with a steel trowel. Use a feathered-edge straight edge to rule off and straighten the plaster. Where hollows show between the feathered-edge and plaster surface additional Cretestone must be applied and ruled off again. Apply a finishing layer of Cretestone. Allow to stand until the initial set takes place (25-35 minutes). As this layer begins to stiffen, temper the surface with just sufficient water on a brush preceding the trowel, and trowel to a smooth finish free of blemishes.</p> <p>DECORATION:                      Before decorating check the entire surface carefully to see that the plaster has set hard and is dry. It is recommended that all Cretestone surfaces be sealed with an oil - or solvent based sealer (e.g. a paint bonding liquid or pigmented plaster primer suitably thinned down with mineral turpentine). Allow 24 hours before applying two coats of paint as required.</p>		