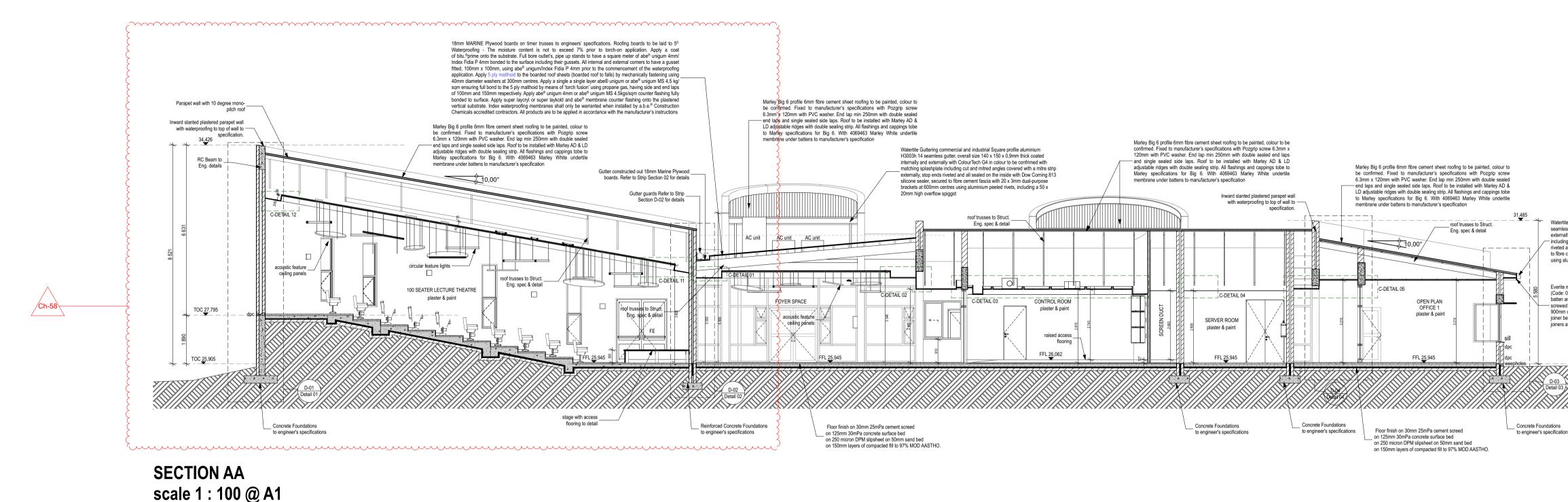
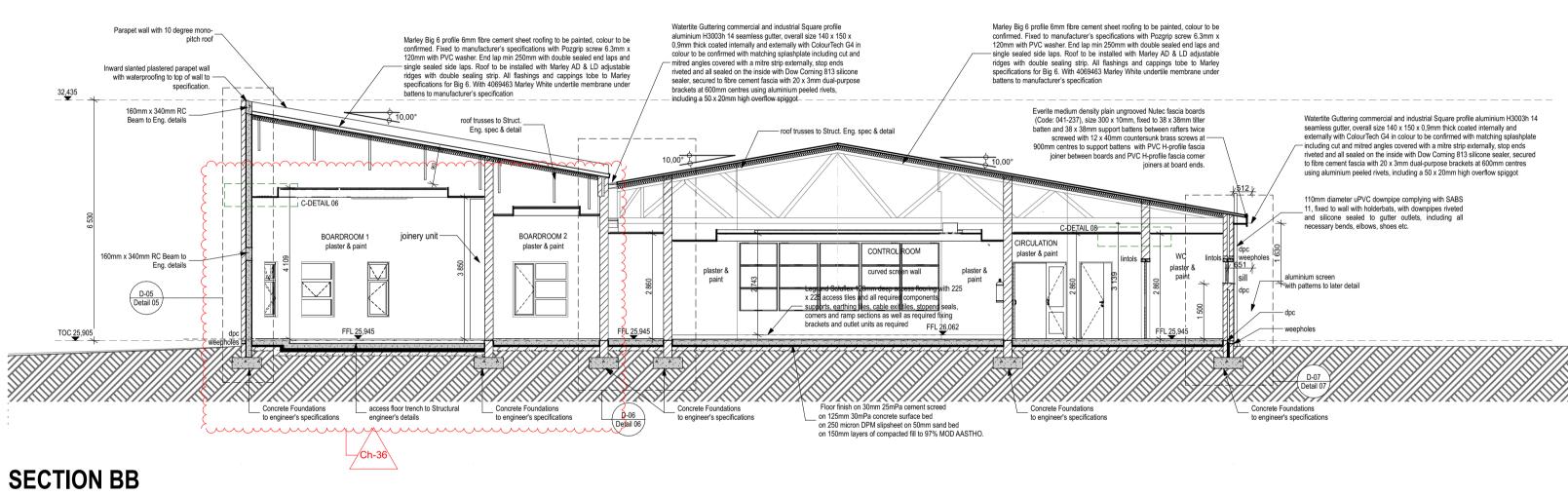


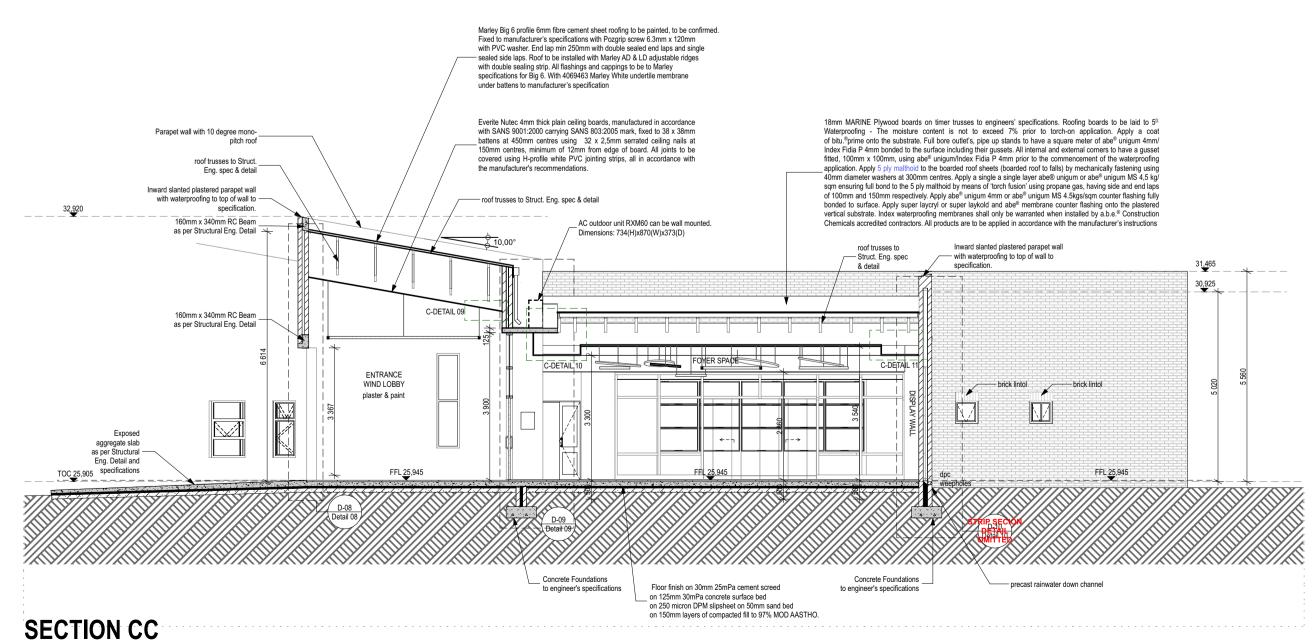
PROPERTY OF 2. ALL WORK IS N.B.R. SANS 10 3. THE DRAWING 4. ANY DISCREPA ARCHITECT	THE ARCHITECT TO BE CARRIEL 400 AND LOCAL / IS NOT TO BE SO NCIES ARE TO E NS AND LEVEL	OOUT IN ACCORE AUTHORITY REGUL	DANCE WITH TH ATIONS EPORTED TO TH	
02 2021/08/19 Ch 01 2021/08/02 Ch	-19 Door Numbers	er - Steps revised	oor plan layout	
OWNER				
Date ARCHITECT				
Date				
ENGINEER				
Date				
	GENCY		L	
	FOR ON       SOUTH AFRICAN NATIONAL SPACE AGENCY ERF : 9875         ARCHITECT         AVNA Architects and Green Building Consultants (PTY) Ltd.         Postal: Address:       PO Box 499, Belville, 7535 Address:         Postal: Mode address II, DJ Wood way, Belville, Cape Town Email:       PO Box 499, Belville, 7535 Tyger Terraces II, DJ Wood way, Belville, Cape Town Email:			
	Fax: +27 (0) 2'	1 948 2593 / 0861 652 643 1 948 3455 		
			o 7000	
	IN NATIONAL E-rn GENCY Tel: Fax	nail: spacesci-info@sansa +27 (0) 28 312 1196	anus, 7200, Western Cap	
BUILDING CLASSIF	THER CENT	ER - GROUN	ID	
A1 / G1 / H3	SIBLE PERSON LISTER	ZONE 4 DATE 2021/10/20		
	CONS ads/CT1413 Space	<b>TRUCTI</b> Weather Center -	ON	
SCALE 1:100 PROJECT No.		SHEET SIZE	DEVICION	
CT1413		а NUMBER - 1000	REVISION	



scale 1 : 100 @ A1

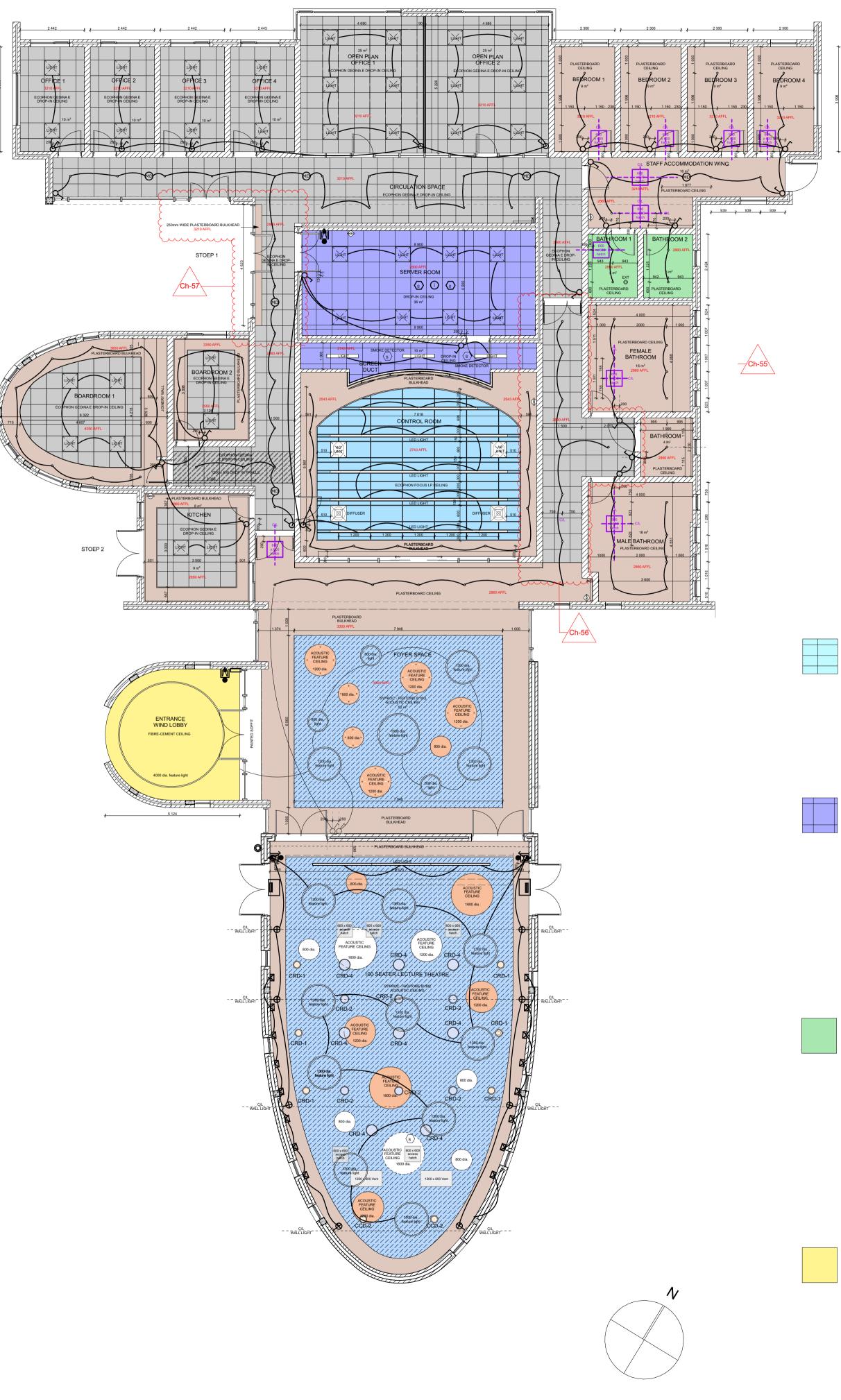


scale 1 : 100 @ A1



scale 1 : 100 @ A1

	NOTE
	<ol> <li>THE DESIGN ON THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF THE ARCHITECT.</li> <li>ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE N.B.R. SANS 10400 AND LOCAL AUTHORITY REGULATIONS</li> <li>THE DRAWING IS NOT TO BE SCALED</li> <li>ANY DISCREPANCIES ARE TO BE IMMEDIATELY REPORTED TO THE ARCHITECT</li> <li>ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION.</li> </ol>
Watertite Guttering commercial and industrial Square profile aluminium H3003h 14 seamless gutter, overall size 140 x 150 x 0,9mm thick coated internally and externally with ColourTech G4 in colour to be confirmed with matching splashplate — including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets, including a 50 x 20mm high overflow spiggot Everite medium density plain ungrooved Nutec fascia boards (Code: 041-237), size 300 x 10mm, fixed to 38 x 38mm tilter batten and 38 x 38mm support battens between rafters twice	
<ul> <li>screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends.</li> </ul>	
D-03 Detail 03 dations pecifications	
	05       2021/10/20       Ch-58       Lecture Theater roof height and roof trusses revised.         05       2021/09/22       Ch-58       Lecture Theater roof height and roof trusses revised.         04       2021/09/22       Ch-35       Section C-C revised at Foyer roof and concrte slab junction         03       2021/09/21       Ch-31       Sections A-A and C-C revised at te Foyer roof         02       2021/07/12       Ch-15       Ceiling detail markers added to all sections         01       2021/04/20       Ch-05       TOC, FFL and levels added to All Sections         Ch-04       Ceiling Heights in Control Room and Screen Duct Revised         RevID       Issue Date       Change ID         OWNER
	Date ARCHITECT
	Date ENGINEER
	Date PROJECT SOUTH AFRICAN NATIONAL SPACE AGENCY
	FOR ON       SOUTH AFRICAN NATIONAL SPACE AGENCY ERF : 9875         ARCHITECT       AVNA Architects and Green Building Consultants (PTY) Ltd.         Postal:       PO Box 499, Belville, 7535 Address:       Typer Terraces II, DJ Wood way, Belville, Cape Town E-mail:       Info@avna.co.za Tel:       +27 (0) 21 948 2593 / 0861 652 643 Fax:       Telvel State         ARCHITECT       ARCHITECT
Fibre Cement Roof Sheeting: Marley Big 6 profile 6mm fibre cement sheet roofing to be painted - colour TBC. Fixed to manufacturer's specifications with Pozgrip screw 6.3mm x 120mm with PVC washer. End Iap min 250mm with double sealed end Iaps and single sealed side Iaps. Roof to be installed with Marley AD & LD adjustable ridges with double sealing strip. All flashings and cappings to be to Marley specifications for Big 6. With 4069463 Marley White undertile membrane under battens	www.schoonraadarch.co.za         Tel 028 271 3479   Fax 086 538 361         4 Mondche 5th Avenue Kleinmond         P O Box 29 Kleinmond 7195
to manufacturer's specifications. Gutters: Watertite Guttering commercial and industrial Square profile aluminium H3003h 14 seamless gutter, overall size 140 x 150 x 0,9mm thick coated internally and externally with ColourTech G4 in colour TBC with matching splashplate including cut and mitred angles covered with a	SOUTH AFRICAN NATIONAL       Postal:       PO Box 32, Hermanus 7200         SOUTH AFRICAN NATIONAL       Hospital Street, Hermanus, 7200, Western Cape         SPACE AGENCY       Finit:       *27 (0) 28 312 1196         Fax:       +27 (0) 28 312 2039
mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets, including a 50 x 20mm high overflow spiggot, with 110mm diameter uPVC downpipe complying with SABS 11, fixed to wall with holderbats, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc.	DRAWING TITLE SPACE WEATHER CENTER - SECTIONS AA & BB & CC
Facias: Everite medium density plain ungrooved Nutec fascia boards (Code: 041-237), size 300 x 10mm, fixed to 38 x 38mm tilter batten and 38 x 38mm support battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiner between boards and PVC	BUILDING CLASSIFICATION     CLIMATIC ZONE       A1 / G1 / H3     ZONE 4       RESPONSIBLE PERSON     DATE       DESIGN     HEIDI MCALLISTER       DRAWN     JUSTINE ALEXANDER
H-profile fascia corner joiners at board ends. Insulation: 80mm Lambdaboard® closed cell Polyisocyanurate insulation with Mineral natural facing to one side, fixed concurrent with roof covering under purlins with "H" bar joiners screw fixed at 1200mm centres with 5mm gap between boards butt-joined over purlins,	FOR CONSTRUCTION DRAWING PATH /Users/justinea/Downloads/CT1413 Space Weather Center - Construction Drawings - Current-2.pln
<ul> <li>all in accordance with the manufacturer's recommendations.</li> <li>Board width: 1220mm</li> <li>Board thickness: 80mm</li> <li>Board facing: Mineral natural</li> <li>Core density: 35kg/m<sup>3</sup>.</li> </ul>	Scale     Sheet size       1 : 100     A1       PROJECT No.     DRAWING NUMBER       CT1413     SWC - 3000
	· /



**SPACE WEATHER CENTER - CEILING PLAN** scale 1 : 100 @ A1

	LEGEND:	
	AC WIRED CONTROL PANEL	
AME	CCD1	
REFERRED RODUCT	RICKARD CCD Ø150 NECK CEILING DIFFUSER	
ERFORMANCE	62 I/s @ 20Pa WITH 2m THROW, 98 I/s @ 50Pa WITH 3m THROW	
INISH	EPOXY POWDER COATING	
	COLOUR BY ARCHITECT	
AME	CRD1	
REFERRED RODUCT	RICKARD CRD Ø150 NECK CEILING DIFFUSER	
ERFORMANCE	64 I/s @ 20Pa WITH 2m THROW, 101 I/s @ 50Pa WITH 3m THROW	
INISH	EPOXY POWDER COATING	
	COLOUR BY ARCHITECT	
AME	CRD2	
REFERRED RODUCT	RICKARD CRD Ø200 NECK CEILING DIFFUSER	
ERFORMANCE	107 l/s @ 20Pa WITH 2m THROW, 165 l/s @ 50Pa WITH 3.2m THROW	
INISH	EPOXY POWDER COATING	
	COLOUR BY ARCHITECT	
AME	CRD4	
REFERRED RODUCT	RICKARD CRD Ø300 NECK CEILING DIFFUSER	
ERFORMANCE	191 I/s @ 20Pa WITH 2.5m THROW, 306 I/s @ 50Pa WITH 3.7m THROW	
INISH	EPOXY POWDER COATING	

COLOUR BY ARCHITECT

The ceiling should consist of suspended glass fiber ceiling panels Ecophon Focus (edge LP) has a semi-concealed

System: Install Connect T24 Main Runners HD at 300mm c/c suspended using Connect Adjustable Hanger and Connect Hanger Clip installed at 1200mm c/c (max

distance from wall 600mm). Fix T-Profile to Connect Wall

bracket. Install Connect T24 Cross Tee (300mm long) at 600mm centres to Connect T24 Main Runners. Install Connect Perimeter Tile Clip 300-400mm on any cut edge. Connet Angle Trim 15/22, fixed at 300mm c/c. Connect Wall spring. Install Connect Support clip Dg 20 (2 per perimeter tile, cut on the long side). Edges of cut

perimeter tiles should be coated with Edge Sealant

Lay Gyprex White Tiles (Size: 600 mm x 600 mm.

DROP IN CEILING TILES SERVER ROOM :

grid system and is used for highlighting direction in a room. There is a wide gap between the tiles in the emphasized direction and narrow gap in the other.

Thickness: 12.5 mm) into the framework. Install Gypframe®/DONN T38FR Main Tees (0.4 mm thickness, Z150 galv coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 mm centres. Suspend Main Tee using Gyproc Hanger Strap/ Gyproc Suspension Wire fixed to Main Tee web using 2 steel poprivets or one Gyproc Wafer-Head Tek screw. Hangers to be at maximum 400 mm from perimeter wall. Install Gypframe®/DONN T38FR Cross Tee (1200 mm long) (0.4

DROP IN CEILING TILES :

mm thickness, Z150 galv coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 600 mm c/c to create a 1200 mm x 600 mm ceiling grid. Install Gypframe®/DONN T38FR Cross Tee (600 mm long) (0.4 mm thickness, Z150 galv coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) into the 1200 mm long cross tee to create a 600 mm x 600 mm ceiling grid. Install Gyproc Hold down clips per tile in areas susceptible to draught (2x per 1200 mm Cross Tee). Perimeter - Fix Gyproc/DONN SM25 Wall Angle (locally manufactured) to the wall using fixings at 300 mm centres. Fix Main Tee's to the wall using Gyproc Angle Cleats to ensure straight grid and stability.

PLASTERBOARD CEILING FOR SHOWERS :

Flush plastered Ceilings

1 layer Gyproc RhinoBoard® 9.5mm is fixed to Gypframe<sup>™</sup> UltraSTEEL® Brandering installed at maximum 400mm centres. Fix Gyproc RhinoBoard® using Gyproc Sharp-point Screws 25mm at maximum 150mm centres. All joints shall be staggered. Apply Gyproc RhinoTape® to all joints and skim the ceiling using Gyproc RhinoLite® CreteStone®. Ceiling grid consisting of Gyproc Suspension Brackets fixed to tie beam/joist using one line of 2 Gyproc Sharp-point Screws 32mm. Install Gyproc Galvanised Steel Angle 25mm x 25mm at ceiling level to the wall running perpendicular to the direction of steel brandering. Install Gypframe™ UltraSTEEL® Brandering onto the suspension brackets. Fix steel brandering to the galvanised steel angle using Gyproc Wafer-head Tek Screws 13mm. Install Gyproc RhinoArt Cove fixed Gyproc RhinoBed® or Gyproc RhinoArt Cornice fixed using Gyproc RhinoArt adhesive. Ceiling System: Gyproc Skimmed Ceiling System 9.5mm/SB

Ceiling Grid: concealed ceiling grid.

FIBRE-CEMENT CEILING BOARD :

Everite Nutec 4mm thick plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, fixed to 38 x 38mm battens at 450mm centres using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered using H-profile white PVC jointing strips, all in accordance with the manufacturer's recommendations.

PLEASE NOTE: contractor to provide samples on site for final approval







<section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<ol> <li>THE DESIGN ON THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF THE ARCHITECT.</li> <li>ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE N.B.R. SANS 10400 AND LOCAL AUTHORITY REGULATIONS</li> <li>THE DRAWING IS NOT TO BE SCALED</li> <li>ANY DISCREPANCIES ARE TO BE IMMEDIATELY REPORTED TO THE ARCHITECT</li> <li>ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION.</li> </ol>
Flush plastered Ceilings 1x RhinoBoard® 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe®/DONN T32K Cross Tee (0.4mm thickness, Z150 galv coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) using Gyproc Sharp-point Screws 25mm at maximum 150mm centres. Gypframe®/DONN T37K Main Tee installed at 1200mm centres and suspended using Gyproc Galvanised Angle 25mm x 25mm hangers at 1200mm centres. Gypframe®/DONN T32K Cross Tee at 400mm centres. Hanger to be maximum 400mm from perimeter wall. Apply Gyproc RhinoTape® to all joints. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus® (phosphogypsum, locally manufactured). Install Gypframe® Corner Bead to all external corners. Gyproc/ DONN Plaster Trim 9.5mm (locally manufactured) to the wall using fixings at 300mm centres. 135mm thick flexible, non-combustible, lightweight Aerolite insulation material between the roof trusses and over brandering/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification. • Ceiling System: Gyproc Skimmed Ceiling System 9.5mm/SB • Ceiling Grid: concealed ceiling grid.	04       2021/10/13       Ch-57       Ceiling in passage revised         04       2021/10/13       Ch-57       Ceiling type changed from Flush plasterboard ceiling to the Ecophon Gedina E ceiling         03       2021/10/07       Ch-55       Ceiling type rositions revised         03       2021/10/07       Ch-42       Diffuser positions revised and access hatches added to Ceiling layout         02       2021/09/29       Ch-37       Ceiling hatch position revised         01       2021/07/12       Ch-11       Ceiling Specifications revised         01       2021/07/12       Ch-14       Ceiling Heights in Control Room and Screen Duct Revised         RevID       Issue Date       Change ID       Change ID
Bulkheads Skimmed plasterboard bulkhead(s) to Architects's details - 1x RhinoBoard® 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe®/DONN T32K Cross Tee (0.4mm thickness, Z150 galv coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) using Gyproc Sharp-point Screws 25mm at maximum 150mm centres. Gypframe®/DONN T37K Main Tee installed at 1200mm centres and suspended using Gyproc Galvanised Angle 25mm x 25mm hangers at 1200mm centres. Hanger to be maximum 400mm from perimeter wall. Apply Gyproc RhinoTape® to all joints. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus® (phosphogypsum, locally manufactured). Install Gypframe® Corner Bead to all external corners. Gyproc/ DONN Plaster Trim 9.5mm (locally manufactured) to the wall using fixings at 300mm centres. 135mm thick flexible, non-combustible, lightweight Aerolite insulation material between the roof trusses and over brandering/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification. • Ceiling System: Gyproc Skimmed Ceiling System 9.5mm/SB • Ceiling Grid: concealed ceiling grid	OWNER Date ARCHITECT Date ENGINEER Date
ACOUSTIC CEILINGS : Gyproc Rigitone Acoustic Ceilng Rigitone® 8/18 Q 12.5mm (ISO 9001 & 14001 certification) fixed to Gypframe@/DONN T32K Cross Tee (0.4mm thickness, Z150 galv coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) using Gyproc Sharp-point Screws 25mm at maximum 150mm centres. Gypframe®/DONN T37K Main Tee installed at 1200mm centres and suspended using Gyproc Galvanised Angle 25mm x 25mm hangers at 1200mm centres. Gypframe®/DONN T32K Cross Tee at 300mm centres. Hanger to be maximum 400mm from perimeter wall. Finish the joints and spot the screw heads using Rigitone® Vario Joint Filler. Install Gypframe® Corner Bead to all external corners. Gyproc/DONN SM25 Wall Angle (locally manufactured) to the wall using fixings at 300mm centres. 50mm thick non-combustible, lightweight Energylite Glasswool insulation blanket/batts of 47.5 kg/m3 density for improved acoustic performance. Install in accordance with the manufacturers detail and specification. • Ceiling System: Gyproc Acoustic Ceiling System (Boards) Rigitone® 8-18 Q • Ceiling Grid: concealed ceiling grid.	<section-header><section-header><section-header>PROJECT SOUTH AFRICAN SALLONAL SPACE AGENCE DECEMENTEDDARE SOUTH AFRICAN NATIONAL SPACE AGENCY TER : 9875DARE SOUTH AFRICAN NATIONAL SPACE AGENCY TER : 9875DARECHITECTDARE AGENCIAL Source of the server in the server</section-header></section-header></section-header>
ACOUSTIC FEATURE CEILING PANELS : Glass fibre acoustic free-hanging units Ecophon Solo Circle 1600 dia. / 1200 dia. / 800 dia. x 40mm, Colour : White Frost, hanging position TBC on site, with a weight of approximately 6.5 –14,5 kg. Panels installed using of the following systems: Connect Adjustable wire hangers, Connect One-point fixing or ConnectAbsorber brackets-all in combination with the Connect Absorber anchor (patented) to give the possibility to create several layers and angles. The system should be installed according to Ecophon installation diagrams M404, M405,M406,M407 and M408. ACOUSTIC FEATURE CEILING PANELS : Glass fibre acoustic free-hanging units Ecophon Solo Circle 1600 dia. / 1200 dia. / 800 dia. x 40mm, Colour : Sunset Heat, hanging position TBC on site, with a weight of approximately 6.5 –14,5 kg. Panels installed using of the following systems: Connect Adjustable wire hangers, Connect One-point fixing or ConnectAbsorber brackets-all in combination with the Connect Absorber anchor (patented) to give the possibility to create several layers and angles. The system should be installed according to Ecophon installation diagrams M404, M405,M406,M407 and M408.	CLIENT         VOUCTATE         VOUCTATE         Sector         Partial         Partial <td< th=""></td<>
	SCALESHEET SIZE1 : 100A1PROJECT No.DRAWING NUMBERCT1413SWC - 130004

NOTE