

- GENERAL**
- ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH SANS 1200 AND PROJECT SPECIFICATIONS.
  - THE CONTRACTOR SHALL CHECK ALL PROJECT DIMENSIONS ON SITE & WITH THE ARCHITECT'S DRAWINGS BEFOREHAND. ANY DIFFERENCES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
  - ALL SANS SPECIFICATIONS MENTIONED IN THE NOTES, ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS SHALL BE AVAILABLE ON SITE AT ALL TIMES.
  - ALL INSTRUCTIONS FROM THE ENGINEER SHALL BE WRITTEN IN THE SITE INSTRUCTION BOOK.
  - THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS.

- FOUNDATIONS AND EARTHWORKS**
- ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PLACING OF ANY CONCRETE FOUNDATION, BLINDING, WATERPROOFING OR GEOTEXTILE MEMBRANE. DESIGN GROUND BEARING PRESSURE = 250 kPa.
  - A 30MM THICK BLINDING LAYER OF 15 MPA/19MM SHALL BE CAST UNDER ALL REINFORCED FOUNDATIONS. NO BLINDING LAYER NEEDS TO BE CAST FOR BRICKWORK AND MASS CONCRETE FOUNDATIONS.

- CONCRETE:**
- ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.
  - CONCRETE TOLERANCE TO BE DEGREE OF ACCURACY NO. II AS SPECIFIED IN SANS 1200 G.
  - ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT.
  - CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 1200 G.
  - STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 1200 G.
  - A 20 X 20MM CHAMFER TO ALL EXPOSED CORNERS.
  - ALL EXPOSED CONCRETE WORK TO BE SMOOTH OFF SHUTTER FINISH.
  - CONCRETE CUBE STRENGTH SHALL BE AS FOLLOWS:  
25 MPa/19mm - FOUNDATIONS  
30 MPa/19mm - SURFACE BEDS, COLUMNS, THROUGH SLAB

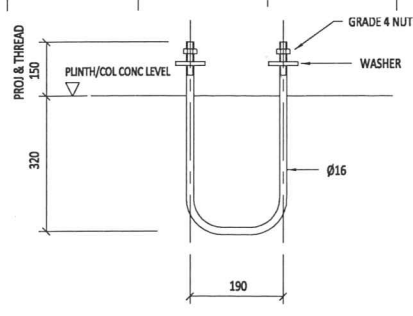
- REINFORCEMENT:**
- ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.
  - BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH SANS 082.
  - REINFORCEMENT SHALL BE FIXED TO COMPLY WITH THE TOLERANCES AS SPECIFIED IN SANS 1200 G AND/OR THE PROJECT SPECIFICATION.
  - THE CONTRACTOR SHALL INSPECT AND APPROVE THE FIXED REINFORCEMENT BEFORE THE ENGINEER IS NOTIFIED. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE CASTING OF CONCRETE MAY COMMENCE.
  - MINIMUM CONCRETE COVER TO REINFORCING AS INDICATED ON LAYOUT.

- SURFACE BED NOTES:**
- PROVIDE 10 mm SOFTBOARD JOINT WITH POLYSULPHIDE SEALER AROUND ALL COLUMNS (SIZE 12 x 12 mm).
  - SURFACE BED TO BE CAST OR SAWN IN PANELS NOT EXCEEDING 25 m<sup>2</sup> FOR 125mm SLAB WITH CONSTRUCTION AND SAW-CUT JOINTS. NO SIDE LENGTH TO EXCEED 5m. LENGTH TO WIDTH RATIO NOT TO EXCEED 1.5. POSITION OF CONSTRUCTION AND SAW-CUT JOINTS TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
  - SAW-CUT JOINTS ARE TO BE DONE AS SOON AS THE CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE, USUALLY BETWEEN 6 TO 12 HOURS AFTER CASTING.
  - JOINTS MUST BE REPEATED IN THE FINISH.
  - CONCRETE STRENGTH TO BE 25MPa/19mm
  - CONCRETE TO BE CURED ACCORDING TO SANS 1200 G

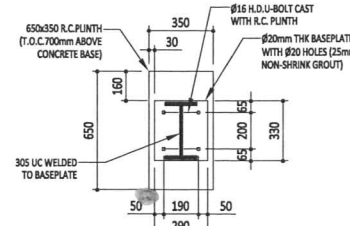
- BRICKWORK NOTES:**
- THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 34 MPa.
  - THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE 1 SABS 0164 PART I - 1980.
  - LOAD BEARING BRICKWORK SHALL BE REINFORCED WITH AN APPROVED BRICKFORCE EVERY FOURTH LAYER.
  - ALL BRICKWORK SHOWN IS LOAD BEARING UNLESS OTHERWISE INDICATED.
  - ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT DIP GALVANIZED.
  - V-JOINTS ARE TO BE MADE IN PLASTER WORK WHERE BRICKWORK AND CONCRETE JOIN.
  - WALL TIES IN DOUBLE WALLS SHALL BE OF THE VERTICAL TWISTED TYPE AS IN SABS 0164 PART I - 1980 FIGURE 1 OR SIMILAR APPROVED TYPE, PLACED EVERY FOURTH LAYER VERTICALLY AND AT 500 c/c HORIZONTALLY.
  - BRICKS TO BE WETTED BEFORE USE.
  - JOINTS IN WALLS MUST BE REPEATED IN ALL TILED FINISHES.
  - BRICK WALLS ARE TO BE TIED TO THE CONCRETE COLUMNS WITH 30x1.6 GALV. HOPIRON TIES AT EVERY 5th COURSE. FIX THE TIES TO THE COLUMNS WITH 2 HILTI SHOT STUDS EACH.

- GENERAL:**
- ALLOWANCE TO BE MADE FOR BRICKWORK AND SLAB LAYOUTS TO CHANGE DUE TO TENANTS REQUIREMENTS, ALL CHANGES TO BE CO-ORDINATED BY CONTRACTOR.

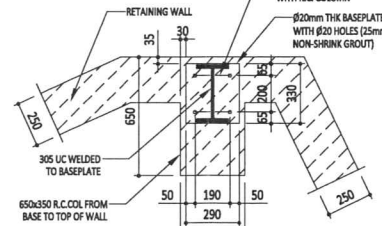
BASE SCHEDULE	
BASE TYPE	BASE DIMENSIONS (LxBxD)
A	2000x2000x300
50mm BLINDING UNDER ALL BASES	



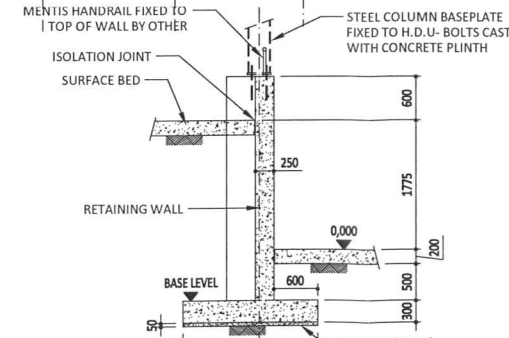
**HD BOLT DETAIL**  
112 No OFF



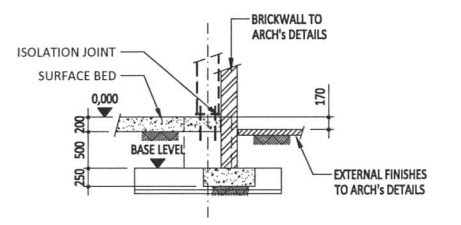
**DETAIL 1 - TYPE 1 H.D.U-BOLT**  
SCALE 1:20



**DETAIL 2 - TYPE 2 H.D.U-BOLT**  
SCALE 1:20



**SECTION B**  
SCALE 1:50



**SECTION A**  
SCALE 1:50

**FOR PRELIMINARY PURPOSES ONLY**

REV	DATE	REVISION DESCRIPTION	DRAWN

**RUSTENBURG OFFICE**  
67 BRINK STR @ OFFICE BUILDING  
OFFICE BLDG No 37, 1st FLOOR  
SOUTH BLOCK, RUSTENBURG 0299  
TEL: +27 (0)14 594 1897  
FAX: +27 (0)14 592 0729  
REG. No. 1966/006628/07

**ENGINEERING SERVICES**

THE MASTER HELD AT THE BKS  
JOHANNESBURG  
OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.

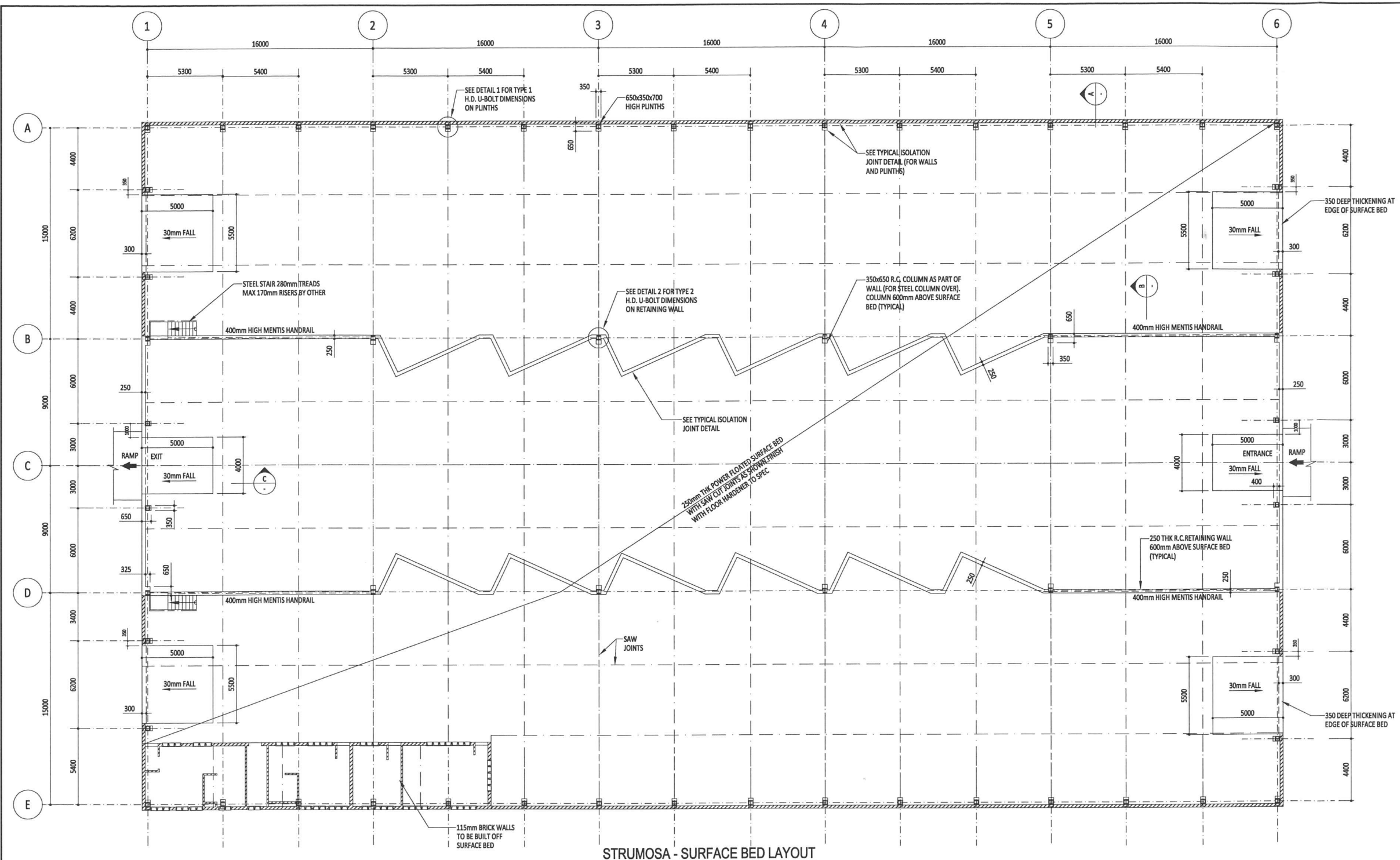
CLIENT: **RUSTENBURG LOCAL MUNICIPALITY**

PROJECT DESCRIPTION:  
**STRUMOSA WASTE DROP-OFF CENTRE**

DRAWING TITLE:  
**MAIN BUILDING FOUNDATION LAYOUT AND DETAILS**

FUNCTION	NAME	SIGNATURE
DESIGNED BY	R. PIENAAR	<i>[Signature]</i>
DRAWN BY	L. DELLO RUSSO	<i>[Signature]</i>
DESIGN CHECKED BY	D. VAN DER MERWE	<i>[Signature]</i>
DRAWING CHECKED BY	R. LABUSCHAGNE	<i>[Signature]</i>
APPROVAL - CONSULTANT		
NAME	C. VAN ZYL	SIGNATURE
DATE		PROFESSIONAL REG No. 750357

DRAWING STATUS CODES:		FIRST ISSUE DATE	MAY 2012
D-DRAFT	F-FINAL	R-REPORT	SCALE
P-PRELIMINARY	C-CONSTRUCTION	A-AS-BUILT/RECORD	1:200
T-TENDER	BKS DRAWING NUMBER		SHEET
BKS PROJ. No. SUB-No. DISCIPLINE		NUMBER	STATUS
J00740 - 05 - 36 - 100 - P - 00		1 OF 1	A1
APPROVAL - CONSULTANT		REVISION	
NAME C. VAN ZYL			
DATE			



**STRUMOSA - SURFACE BED LAYOUT**

SCALE 1:150

- GENERAL**
1. ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH SANS 1200 AND PROJECT SPECIFICATIONS.
  2. THE CONTRACTOR SHALL CHECK ALL PROJECT DIMENSIONS ON SITE & WITH THE ARCHITECTS DRAWINGS BEFOREHAND. ANY DIFFERENCES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.
  3. ALL SANS SPECIFICATIONS MENTIONED IN THE NOTES, ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS SHALL BE AVAILABLE ON SITE AT ALL TIMES.
  4. ALL INSTRUCTIONS FROM THE ENGINEER SHALL BE WRITTEN IN THE SITE INSTRUCTION BOOK.
  5. THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE DRAWINGS AND PROJECT SPECIFICATIONS.

- FOUNDATIONS AND EARTHWORKS**
1. ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE PLACING OF ANY CONCRETE FOUNDATION, BLINDING, WATERPROOFING OR GEOFABRIC MEMBRANE. DESIGN GROUND BEARING PRESSURE = 250 kPa.
  2. A 30MM THICK BLINDING LAYER OF 15 MPa/19mm SHALL BE CAST UNDER ALL REINFORCED FOUNDATIONS. NO BLINDING LAYER NEEDS TO BE CAST FOR BRICKWORK AND MASS CONCRETE FOUNDATIONS.

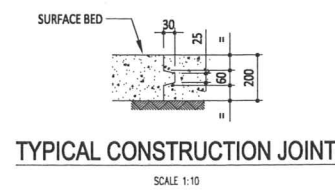
- CONCRETE:**
1. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.
  2. CONCRETE TOLERANCE TO BE DEGREE OF ACCURACY NO. II AS SPECIFIED IN SANS 1200 G.
  3. ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT.
  4. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 1200 G.
  5. STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 1200 G.
  6. A 20 X 20MM CHAMFER TO ALL EXPOSED CORNERS.
  7. ALL EXPOSED CONCRETE WORK TO BE SMOOTH OFF SHUTTER FINISH.
  8. CONCRETE CUBE STRENGTH SHALL BE AS FOLLOWS:  
25 MPa/19mm - FOUNDATIONS  
30 MPa/19mm - SURFACE BEDS, COLUMNS, TROUGH SLAB

- REINFORCEMENT:**
1. ALL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.
  2. BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH SANS 082.
  3. REINFORCEMENT SHALL BE FIXED TO COMPLY WITH THE TOLERANCES AS SPECIFIED IN SANS 1200 G AND/OR THE PROJECT SPECIFICATION.
  4. THE CONTRACTOR SHALL INSPECT AND APPROVE THE FIXED REINFORCEMENT BEFORE THE ENGINEER IS NOTIFIED. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE CASTING OF CONCRETE MAY COMMENCE.
  5. MINIMUM CONCRETE COVER TO REINFORCING AS INDICATED ON LAYOUT.

- SURFACE BED NOTES:**
1. PROVIDE 10 mm SOFTBOARD JOINT WITH POLYSULPHIDE SEALER AROUND ALL COLUMNS (SIZE 12 x 12 WIDE).
  2. SURFACE BED TO BE CAST OR SAW IN PANELS NOT EXCEEDING 25 m<sup>2</sup> FOR 125mm SLAB WITH CONSTRUCTION AND SAW-CUT JOINTS. NO SIDE LENGTH TO EXCEED 5m, LENGTH TO WIDTH RATIO NOT TO EXCEED 1.5. POSITION OF CONSTRUCTION AND SAW-CUT JOINTS TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
  3. SAW-CUT JOINTS ARE TO BE DONE AS SOON AS THE CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE, USUALLY BETWEEN 6 TO 12 HOURS AFTER CASTING.
  4. JOINTS MUST BE REPEATED IN THE FINISH.
  5. CONCRETE STRENGTH TO BE 25MPa/19mm
  6. CONCRETE TO BE CURED ACCORDING TO SANS 1200 G

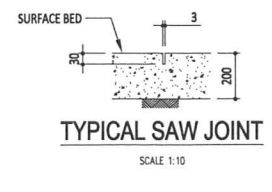
- BRICKWORK NOTES:**
1. THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa.
  2. THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS II MORTAR IN ACCORDANCE WITH TABLE 1 SABS 0164 PART I - 1980.
  3. LOAD BEARING BRICKWORK SHALL BE REINFORCED WITH AN APPROVED BRICKFORCE EVERY FOURTH LAYER.
  4. ALL BRICKWORK SHOWN IS LOAD BEARING UNLESS OTHERWISE INDICATED.
  5. ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT DIP GALVANIZED.
  6. V-JOINTS ARE TO BE MADE IN PLASTER WORK WHERE BRICKWORK AND CONCRETE JOIN.
  7. WALL TIES IN DOUBLE WALLS SHALL BE OF THE VERTICAL TWISTED TYPE AS IN SABS 0164 PART I - 1980 FIGURE 1 OR SIMILAR APPROVED TYPE, PLACED EVERY FOURTH LAYER VERTICALLY AND AT 500 c/c HORIZONTALLY.
  8. BRICKS TO BE WETTED BEFORE USE.
  9. JOINTS IN WALLS MUST BE REPEATED IN ALL TILED FINISHES.
  10. BRICK WALLS ARE TO BE TIED TO THE CONCRETE COLUMNS WITH 30x1.6 GALV. HOPIRON TIES AT EVERY 5th COURSE. FIX THE TIES TO THE COLUMNS WITH 2 HILTI SHOT STUDS EACH.

- GENERAL:**
1. ALLOWANCE TO BE MADE FOR BRICKWORK AND SLAB LAYOUTS TO CHANGE DUE TO TENANTS REQUIREMENTS, ALL CHANGES TO BE CO-ORDINATED BY CONTRACTOR.



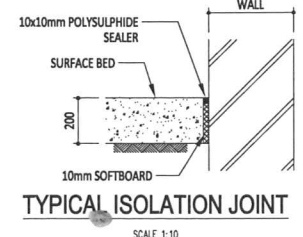
**TYPICAL CONSTRUCTION JOINT**

SCALE 1:10



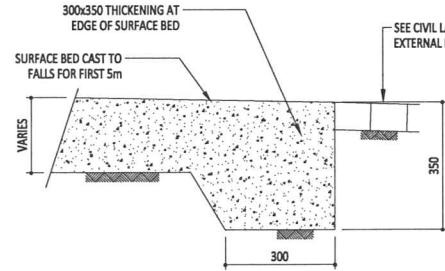
**TYPICAL SAW JOINT**

SCALE 1:10



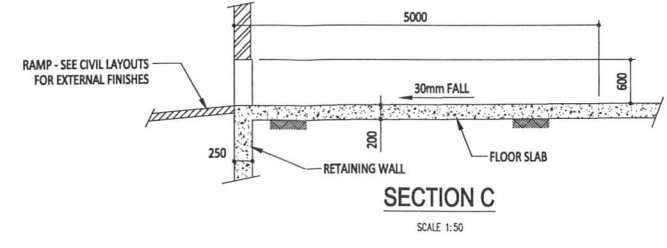
**TYPICAL ISOLATION JOINT**

SCALE 1:10



**SECTION A**

SCALE 1:10



**SECTION C**

SCALE 1:50

**FOR PRELIMINARY PURPOSES ONLY**

REV	DATE	REVISION DESCRIPTION	DRAWN

**RUSTENBURG OFFICE**  
67 BRINK STR @ OFFICE BUILDING  
OFFICE BLDG No 37, 1st FLOOR  
SOUTH BLOCK, RUSTENBURG 0299  
TEL: +27 (0)14 594 1897  
FAX: +27 (0)14 592 0729  
REG. No. 1966/00628/07

**ENGINEERING SERVICES**

THE MASTER HELD AT THE BKS  
JOHANNESBURG  
OFFICE BEARS THE ORIGINAL SIGNATURE OF APPROVAL.

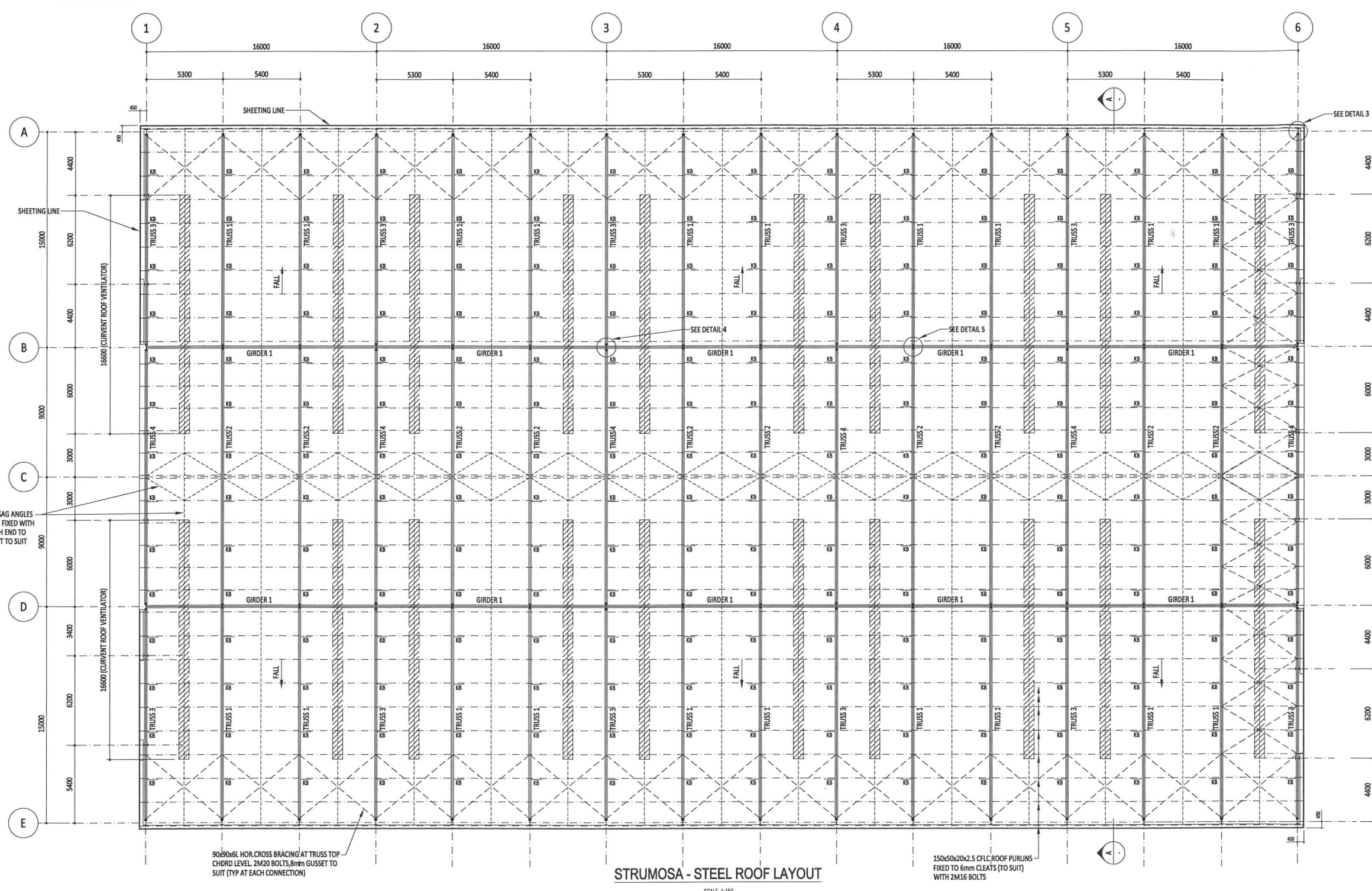
CLIENT  
**RUSTENBURG LOCAL MUNICIPALITY**

PROJECT DESCRIPTION  
**STRUMOSA  
WASTE DROP-OFF CENTRE**

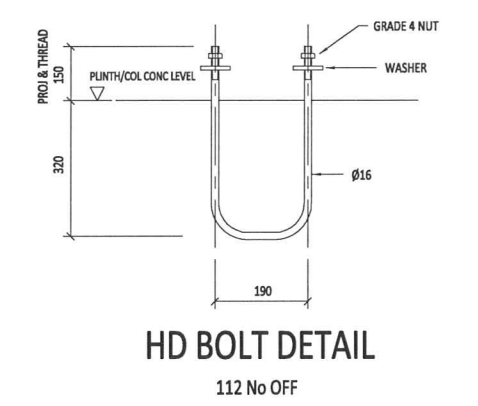
DRAWING TITLE  
**MAIN BUILDING  
SURFACE BED LAYOUT**

FUNCTION	NAME	SIGNATURE
DESIGNED BY	R. PIENAAR	<i>[Signature]</i>
DRAWN BY	L. DELLO RUSSO	<i>[Signature]</i>
DESIGN CHECKED BY	D. VAN DER MERWE	<i>[Signature]</i>
DRAWING CHECKED BY	R. LABUSCHAGNE	<i>[Signature]</i>
APPROVAL - CONSULTANT		
NAME	C. VAN ZYL	<i>[Signature]</i>
DATE		PROFESSIONAL REG No. 750357

DRAWING STATUS CODES:		FIRST ISSUE DATE	MAY 2012
D-DRAFT	F-FINAL	SCALE	SHEET
P-PRELIMINARY	R-REPORT	1:200	1 OF 1
T-TENDER	C-CONSTRUCTION	DISCIPLINE	SHEET SIZE
A-AAS-BUILT/RECORD	A-AAS-BUILT/RECORD	NUMBER	A1
BKS DRAWING NUMBER			
BKS PROJ. No.	SUB-No.	DISCIPLINE	STATUS
J00740	05	36	101 - P - 00
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- STRUCTURAL STEELWORK:**
- All structural steelwork shall be fabricated and erected in accordance with SABS 1200 H and/or SANS 2001-CS1.
  - Welds shall conform to SABS 0167 - 1984 and 044 specifications.
  - All welding to be 6mm continuous fillet weld unless otherwise specified.
  - All welds to be done with E70XX electrodes unless otherwise specified.
  - All dimensions shall be checked on site before shop drawings commence. Any discrepancies shall be brought to the attention of the engineer.
  - A complete set of shop drawings shall be submitted to the engineer for approval before fabrication commences. Engineer to approve design intent only. This includes the member sizes only, but excludes dimensions, cleats, bolts and gussets.
  - All hot rolled structural steelwork shall be grade S355JR, Cold rolled sections shall have a yield stress  $f_y$  of at least 250 Mpa, Circular hollow sections (CHS) must be at least the equivalent of grade 300W.
  - All structural bolts shall be grade 8.8 unless otherwise noted.
  - Where temporary bracing or propping is required, the contractor shall be responsible for the design, erection, maintenance and removal (where necessary) of such supports. If splices in trusses are required due to transport, proposals of this shall be submitted to the engineer at an early stage for written approval.
  - Paint Specification:- (Alkyd System D10)
    - Abrasive blast clean the mild steel surface in accordance with ISO 8501-1 (1998) to grade Sa 2.5.
    - Apply primer (Carbocoat GP18) to 75 micron DFT.
    - Apply Topcoat (Carbocoat AD51) 40 micron DFT.
    - All paintwork to comply strictly with suppliers specifications, All paint products and methods to be approved by the Engineer before fabrication.
  - Carefully inspect each coat for misses and carry out dry film thickness (DFT) testing. No single DFT reading may be less than the minimum or greater than the maximum. The mean of the readings shall equal or exceed the nominal. All critical areas, edges, welds, etc. to be given extra stripe coats. All coats to be in contrasting shades. All work to comply with the project quality requirements and the general preamble.
  - See Architectural drawings for colour.
  - Paint Specification for the bolts: 3 days before the erection of the structural steelwork, all bolts are to be cleaned and degreased. Within 2 days of erection, all bolts are to be coated with 1 coat of Sigmadur Gloss.
  - Laminated finger shaped packing to be provided under base plates.
  - Fabricator to ensure that centre of gravity of members intersect at node points.
  - All structural steel drawings to be read in conjunction with the relevant architectural, concrete drawings as well as the Bill of Materials and any discrepancy to be brought to the attention of the engineer.



**STRUMOSA - STEEL ROOF LAYOUT**  
SCALE 1:150

**FOR PRELIMINARY PURPOSES ONLY**

REV	DATE	REVISION DESCRIPTION	DRAWN

**BKS**  
 RUSTENBURG OFFICE  
 67 BRINK STR @ OFFICE BUILDING  
 OFFICE BLDG No 37, 1st FLOOR  
 SOUTH BLOCK, RUSTENBURG 0299  
 TEL: +27 (0)14 594 1897  
 FAX: +27 (0)14 592 0729  
 REG. No. 1966/006628/07

DISCIPLINE  
**ENGINEERING SERVICES**

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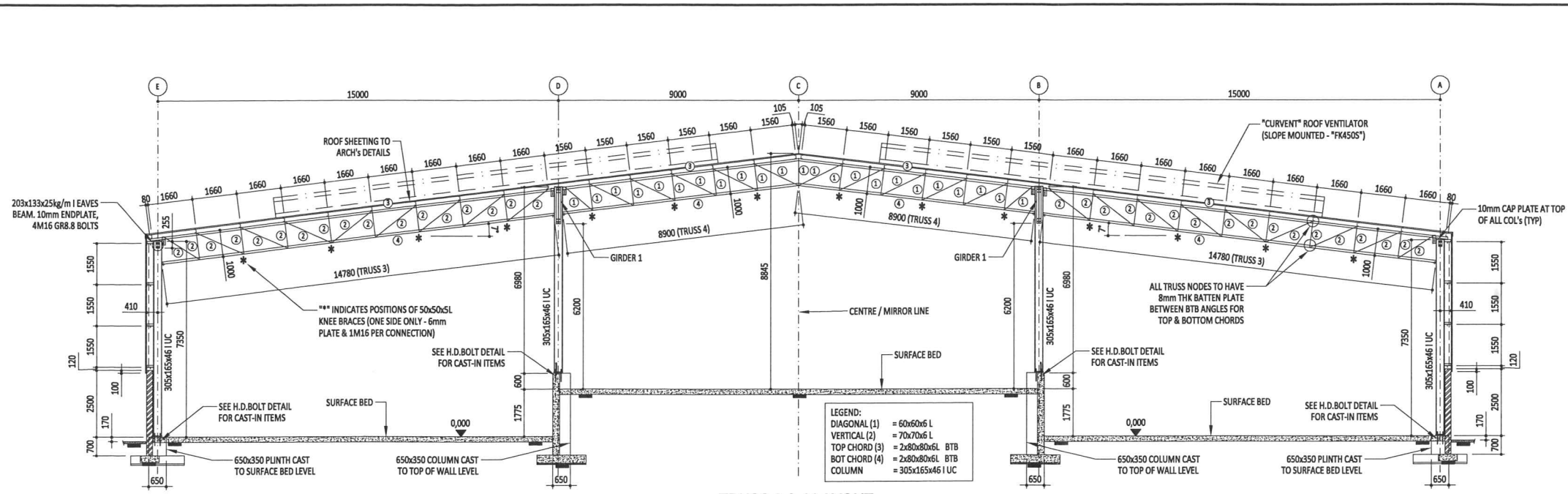
CLIENT  
**RUSTENBURG LOCAL MUNICIPALITY**

PROJECT DESCRIPTION  
**STRUMOSA  
 WASTE DROP-OFF CENTRE**

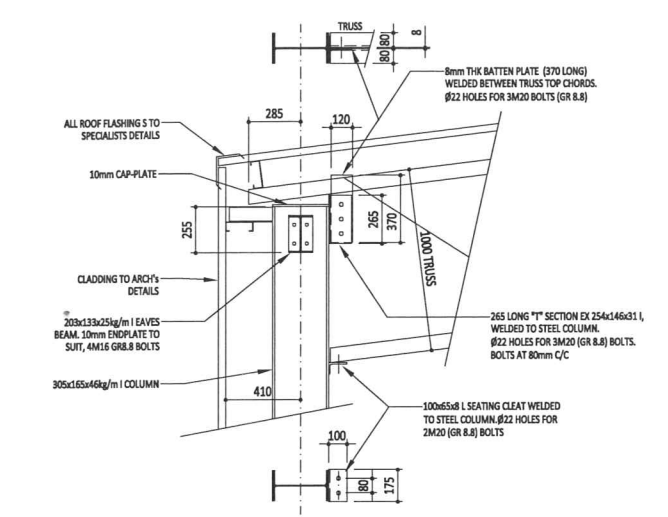
DRAWING TITLE  
**MAIN BUILDING  
 STEEL ROOF LAYOUT**

FUNCTION	NAME	SIGNATURE
DESIGNED BY	R. PIENAAR	<i>[Signature]</i>
DRAWN BY	L. DELLO RUSSO	<i>[Signature]</i>
DESIGN CHECKED BY	D. VAN DER MERWE	<i>[Signature]</i>
DRAWING CHECKED BY	R. LABUSCHAGNE	<i>[Signature]</i>
APPROVAL - CONSULTANT		
NAME	C. VAN ZYL	SIGNATURE <i>[Signature]</i>
DATE		PROFESSIONAL REG No. 750357

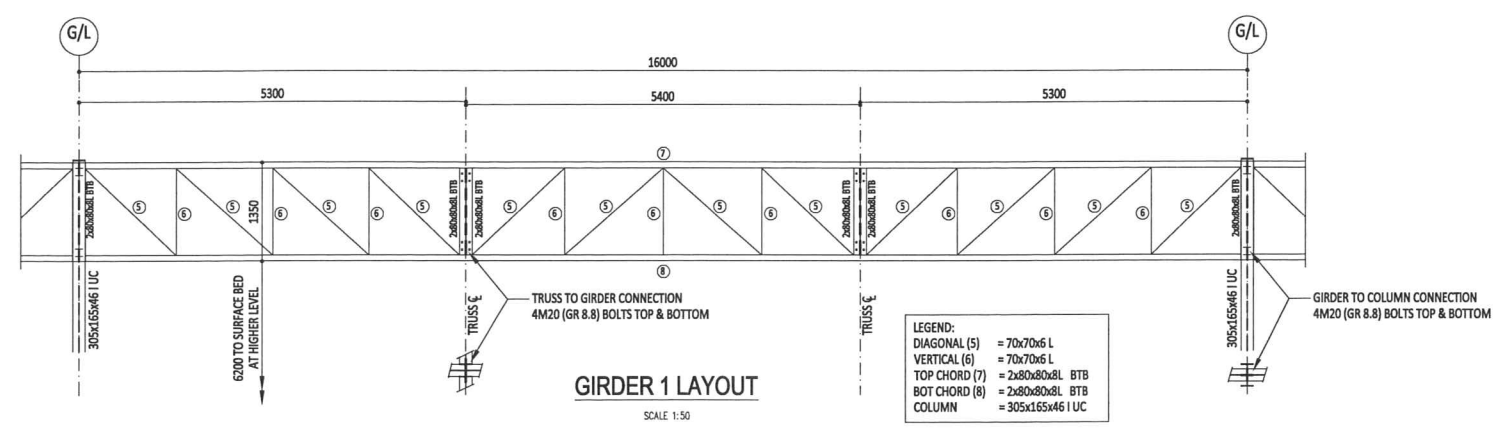
DRAWING STATUS CODES:				FIRST ISSUE DATE	MAY 2012
D-DRAFT	F-FINAL	R-REPORT	C-CONSTRUCTION	SCALE	SHEET
P-PRELIMINARY	A-AS-BUILT/RECORD			1:200	1 OF 1
T-TENDER					A1
BKS DRAWING NUMBER					
BKS PROJ. No.	SUB No.	DISCIPLINE	NUMBER	STATUS	REVISION
J00740	05	36	102	P	00
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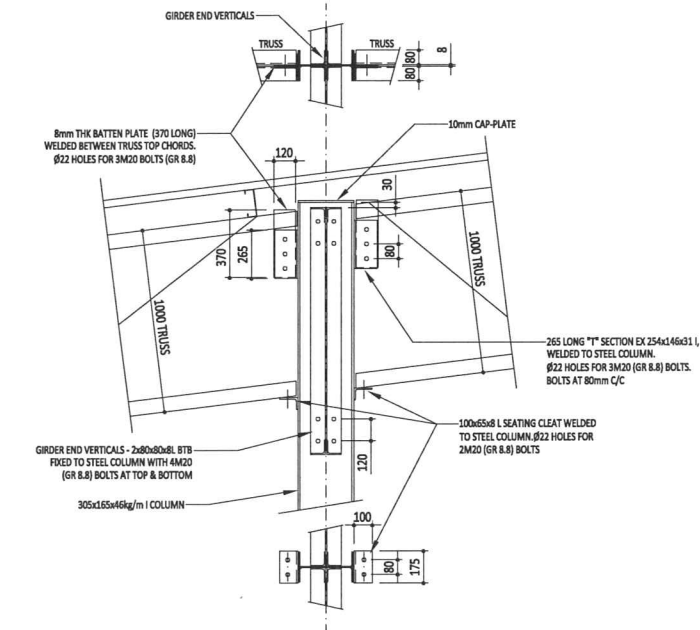
**TRUSS 3 & 4 LAYOUT**  
SCALE 1:100  
(TRUSS 1 & 2 SIMILAR BUT FIXED TO GIRDER 1)



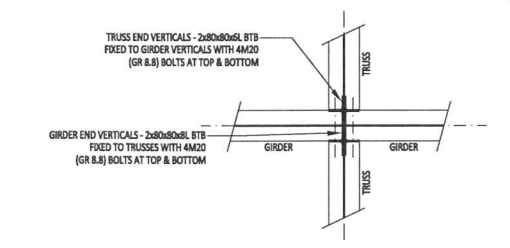
**DETAIL 3 - TYPICAL TRUSS TO COLUMN CONNECTION**  
SCALE 1:20



**GIRDER 1 LAYOUT**  
SCALE 1:50



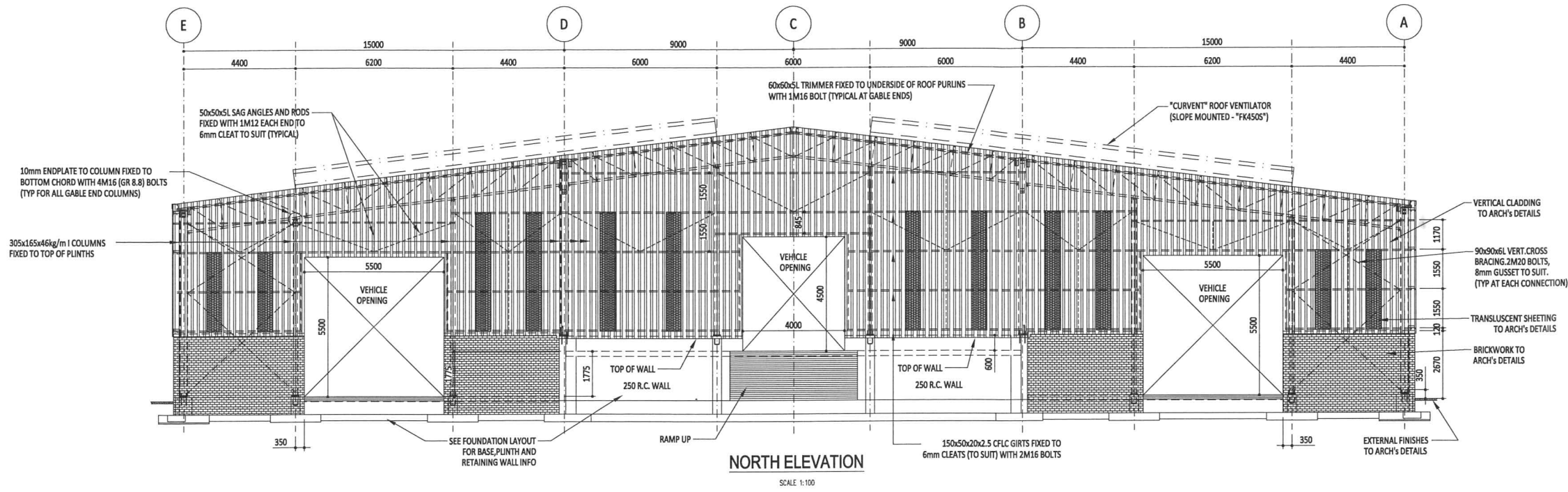
**DETAIL 4 - TYPICAL TRUSS TO COLUMN CONNECTION AT GIRDER**  
SCALE 1:20



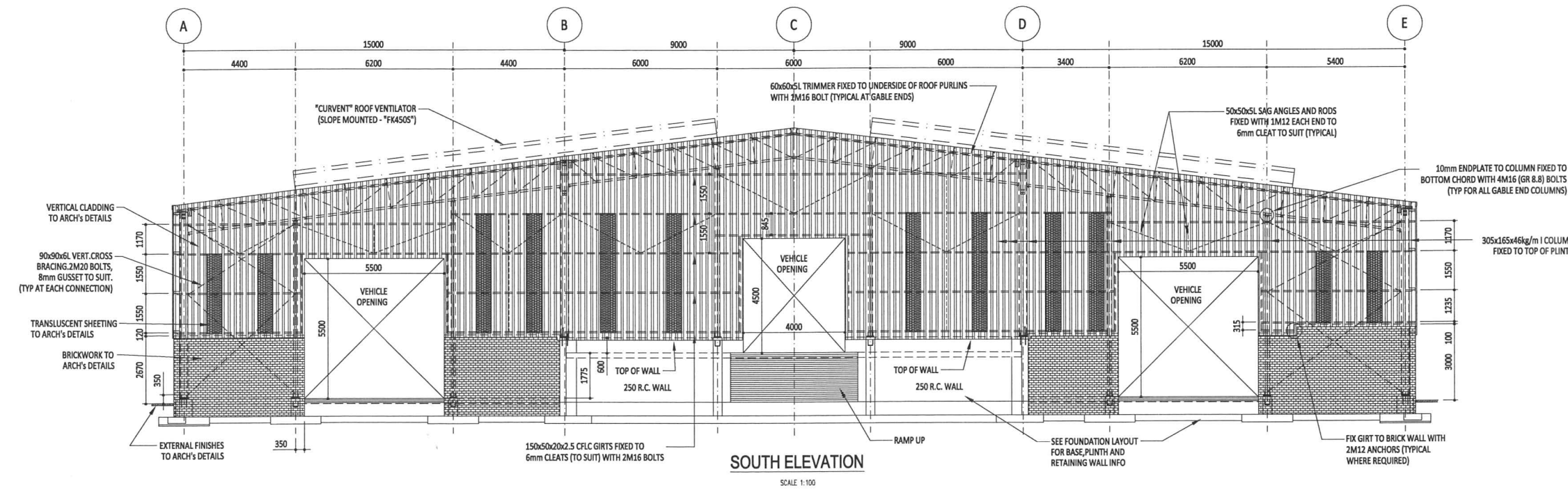
**DETAIL 5 - TYPICAL TRUSS TO GIRDER CONNECTION**  
SCALE 1:20

**FOR PRELIMINARY PURPOSES ONLY**

REV	DATE	REVISION DESCRIPTION	DRAWN	DISCIPLINE	CLIENT	PROJECT DESCRIPTION	DRAWING TITLE	FUNCTION	NAME	SIGNATURE	DRAWING STATUS CODES:	FIRST ISSUE DATE	MAY 2012
				ENGINEERING SERVICES	RUSTENBURG LOCAL MUNICIPALITY	STRUMOSA WASTE DROP-OFF CENTRE	MAIN BUILDING SECTIONS AND DETAILS	DESIGNED BY	R. PIENAAR	<i>[Signature]</i>	D-DRAFT P-PRELIMINARY T-TENDER	SCALE 1:200	SHEET 1 OF 1
								DRAWN BY	L. DELLO RUSSO	<i>[Signature]</i>	F-FINAL C-CONSTRUCTION A-AS-BUILT/RECORD	SCALE 1:200	SHEET 1 OF 1
								DESIGN CHECKED BY	D. VAN DER MERWE	<i>[Signature]</i>	BKS DRAWING NUMBER		
								DRAWING CHECKED BY	R. LABUSCHAGNE	<i>[Signature]</i>	J00740 - 05 - 36 - 103 - P - 00		
								APPROVAL - CONSULTANT		<i>[Signature]</i>	BKS PROJ. No. SUB.No. DISCIPLINE NUMBER STATUS REVISION		
								NAME	C. VAN ZYL	<i>[Signature]</i>	750357		
								DATE			COPYRIGHT RESERVED		



**NORTH ELEVATION**  
SCALE 1:100



**SOUTH ELEVATION**  
SCALE 1:100

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REV	DATE	REVISION DESCRIPTION	DRAWN

**BKS**  
RUSTENBURG OFFICE  
67 BRINK STR @ OFFICE BUILDING  
OFFICE BLDG No 37, 1st FLOOR  
SOUTH BLOCK, RUSTENBURG 0299  
TEL: +27 (0)14 594 1897  
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REG. No. 1966/006628/07

THE MASTER HELD AT THE BKS  
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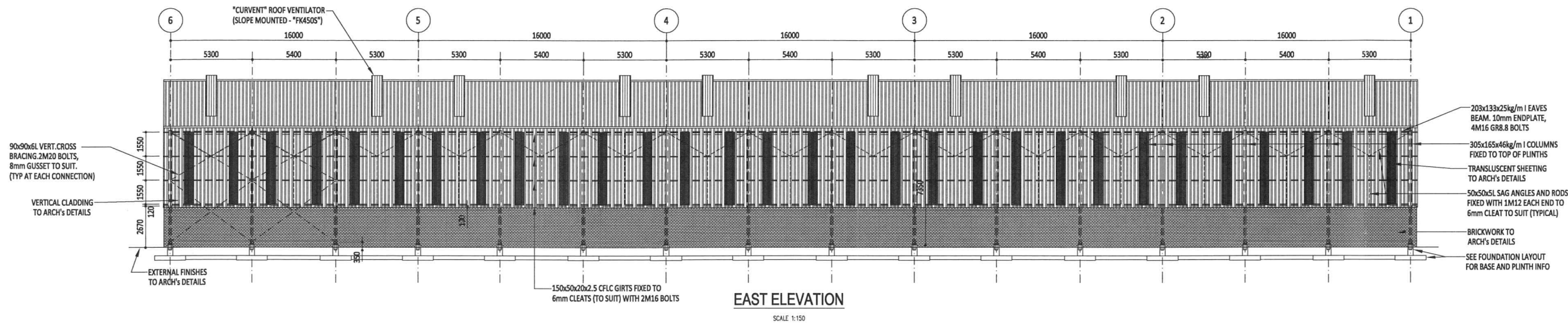
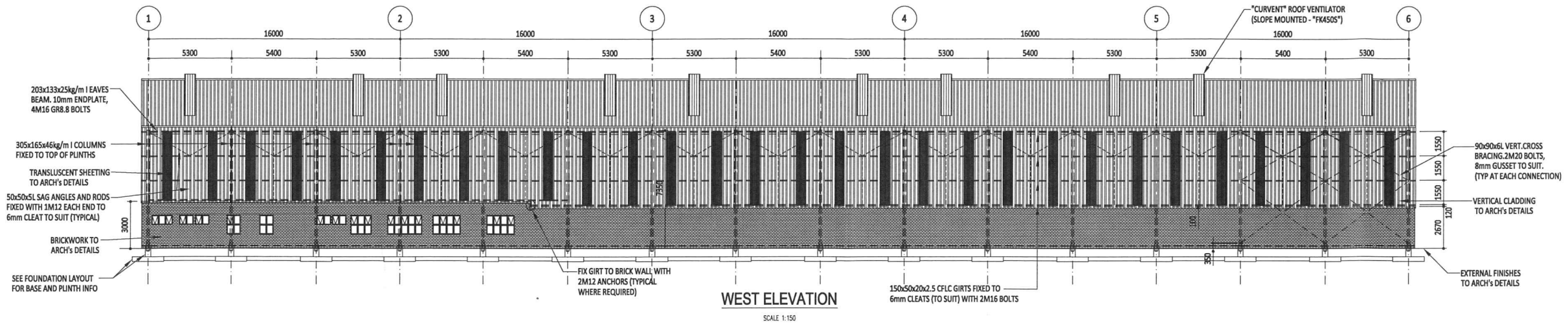
DISCIPLINE  
**ENGINEERING SERVICES**

PROJECT DESCRIPTION  
**STRUMOSA WASTE DROP-OFF CENTRE**

DRAWING TITLE  
**MAIN BUILDING ELEVATIONS**

FUNCTION	NAME	SIGNATURE
DESIGNED BY	R. PIENAAR	<i>[Signature]</i>
DRAWN BY	L. DELLO RUSSO	<i>[Signature]</i>
DESIGN CHECKED BY	D. VAN DER MERWE	<i>[Signature]</i>
DRAWING CHECKED BY	R. LABUSCHAGNE	<i>[Signature]</i>
APPROVAL - CONSULTANT		
NAME	C. VAN ZYL	SIGNATURE <i>[Signature]</i>
DATE		PROFESSIONAL REG No. 750357

DRAWING STATUS CODES:				FIRST ISSUE DATE	MAY 2012
D=DRAFT	F=FINAL	R=REPORT	C=CONSTRUCTION	SCALE	SHEET
P=PRELIMINARY	A=AS-BUILT/RECORD			1:200	1 OF 1
T=TENDER					A1
BKS DRAWING NUMBER					
BKS PROJ. No.	SUB-NO.	DISCIPLINE	NUMBER	STATUS	REVISION
J00740	05	36	104	P	00
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REV	DATE	REVISION DESCRIPTION	DRAWN

**BKS**  
**RUSTENBURG OFFICE**  
 67 BRINK STR @ OFFICE BUILDING  
 OFFICE BLDG No 37, 1st FLOOR  
 SOUTH BLOCK, RUSTENBURG 0299  
 TEL: +27 (0)14 594 1897  
 FAX: +27 (0)14 592 0729  
 REG. No. 1966/006628/07

DISCIPLINE  
**ENGINEERING SERVICES**

THE MASTER HELD AT THE BKS  
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CLIENT  
**RUSTENBURG LOCAL MUNICIPALITY**

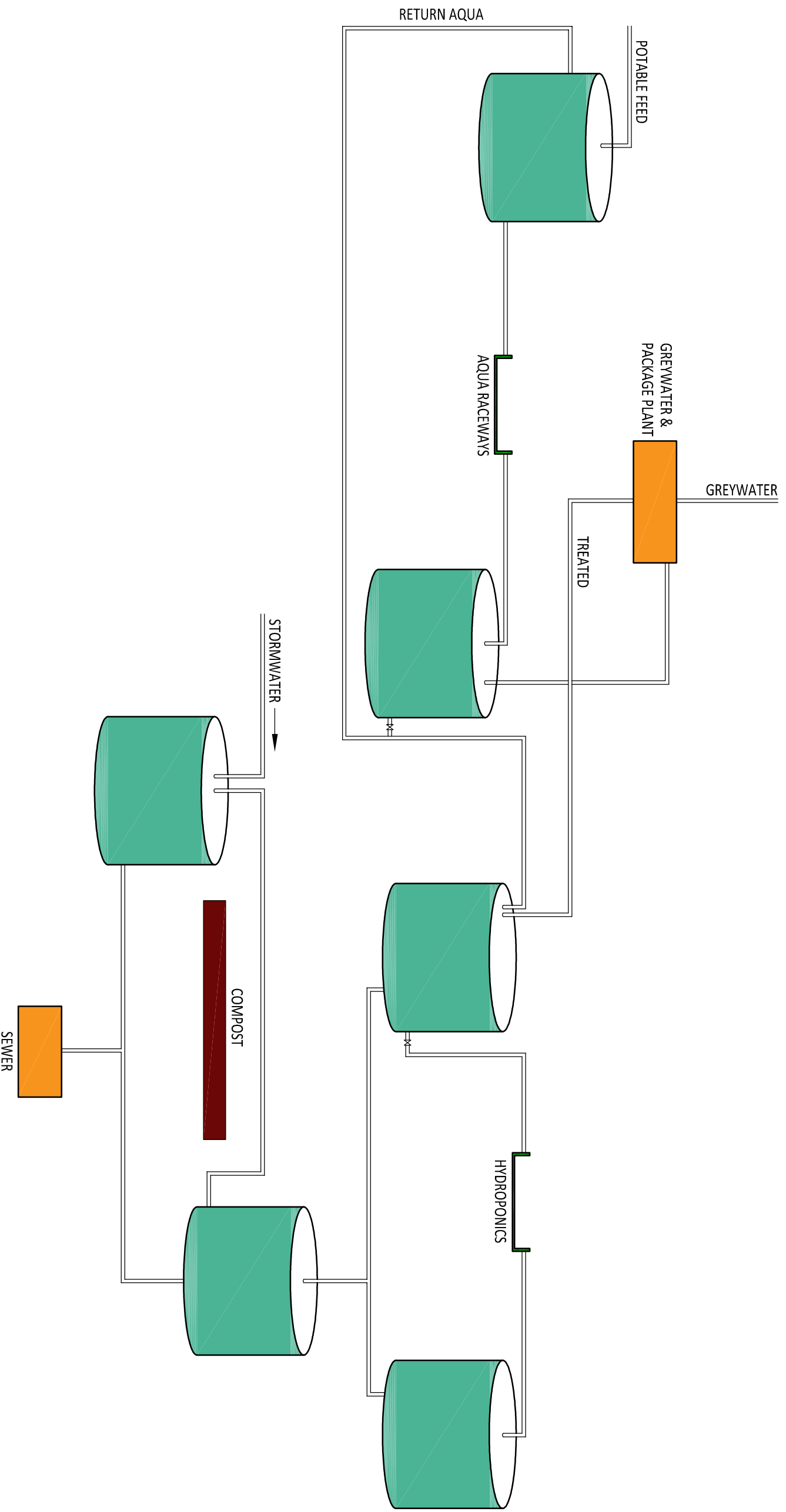
PROJECT DESCRIPTION  
**STRUMOSA  
 WASTE DROP-OFF CENTRE**

DRAWING TITLE  
**MAIN BUILDING  
 ELEVATIONS**

FUNCTION	NAME	SIGNATURE
DESIGNED BY	R. PIENAAR	<i>[Signature]</i>
DRAWN BY	L. DELLO RUSSO	<i>[Signature]</i>
DESIGN CHECKED BY	D. VAN DER MERWE	<i>[Signature]</i>
DRAWING CHECKED BY	R. LABUSCHAGNE	<i>[Signature]</i>
APPROVAL - CONSULTANT		
NAME	C. VAN ZYL	SIGNATURE <i>[Signature]</i>
DATE		PROFESSIONAL REG No. 750357

DRAWING STATUS CODES:				FIRST ISSUE		MAY 2012	
D=DRAFT	F=FINAL	R=REPORT	SCALE	SHEET	SHEET SIZE		
P=PRELIMINARY	C=CONSTRUCTION	A=AS-BUILT/RECORD	1:200	1 OF 1	A1		
T=TENDER	BKS DRAWING NUMBER						
BKS PROJ. No.	SUB-No.	DISCIPLINE	NUMBER	STATUS	REVISION		
J00740 - 05 - 36 -	105	- P -	00				
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REV	DATE	REVISION DESCRIPTION	DRAWN

**JOHANNESBURG OFFICE**  
 11 St ANDREWS ROAD  
 OAKHURST BUILDING  
 PARKTOWN  
 TEL: +27 (0)11 481 0300  
 FAX: +27 (0)11 481 0301  
 REG. No. 1966/006628/07

**I & MS SECTOR**

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CLIENT: \_\_\_\_\_

PROJECT DESCRIPTION: **URBAN AGRICULTURE PLAN**

DRAWING TITLE: **WATER BALANCE**

FUNCTION	NAME	SIGNATURE
DESIGNED BY	MIKE HOWARD	
DRAWN BY	R. LABUSCHAGNE	
DESIGN CHECKED BY		
DRAWING CHECKED BY		
APPROVAL - CONSULTANT		
NAME	SIGNATURE	
DATE	PROF. REG No.	

**DRAWING STATUS CODES:**  
 D=DRAFT F=FINAL R=REPORT  
 P=PRELIMINARY C=CONSTRUCTION  
 T=TENDER A=AS-BUILT/RECORD

**BKS DRAWING NUMBER**

BKS PROJ. No. | SUB-No. | DISCIPLINE | NUMBER | STATUS | REVISION

**J00740 - 20 - 002 - P - 00**

NOV 2012

SHEET 1 OF 1 | SHEET SIZE A3

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