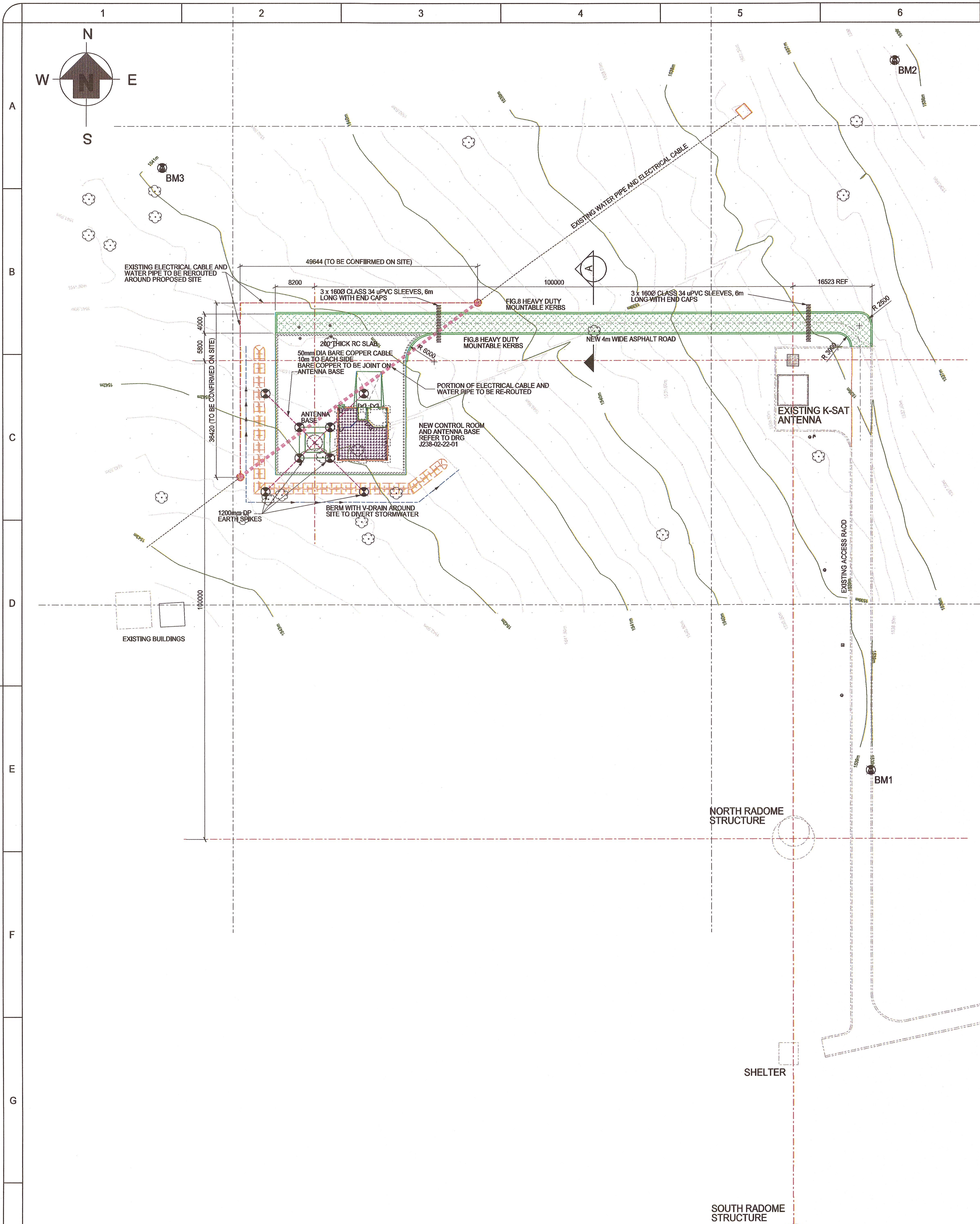
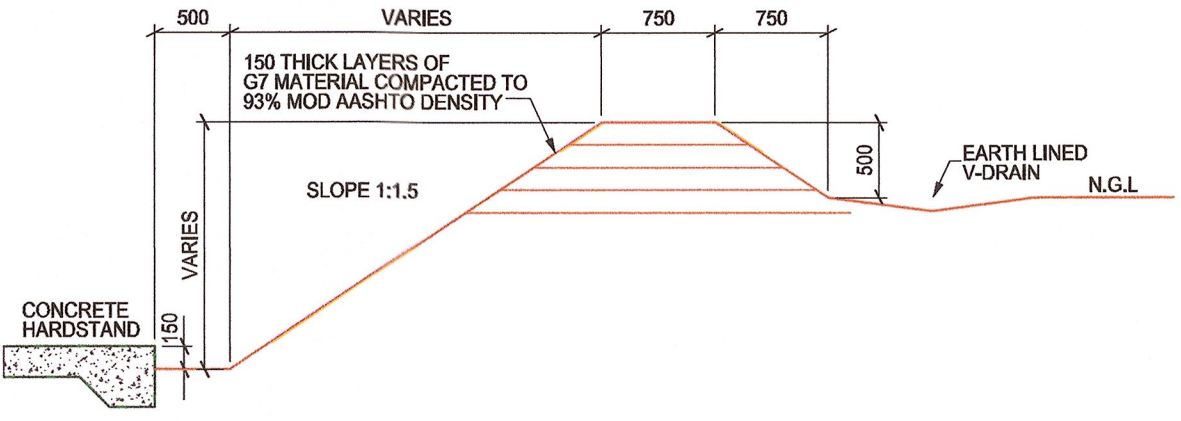
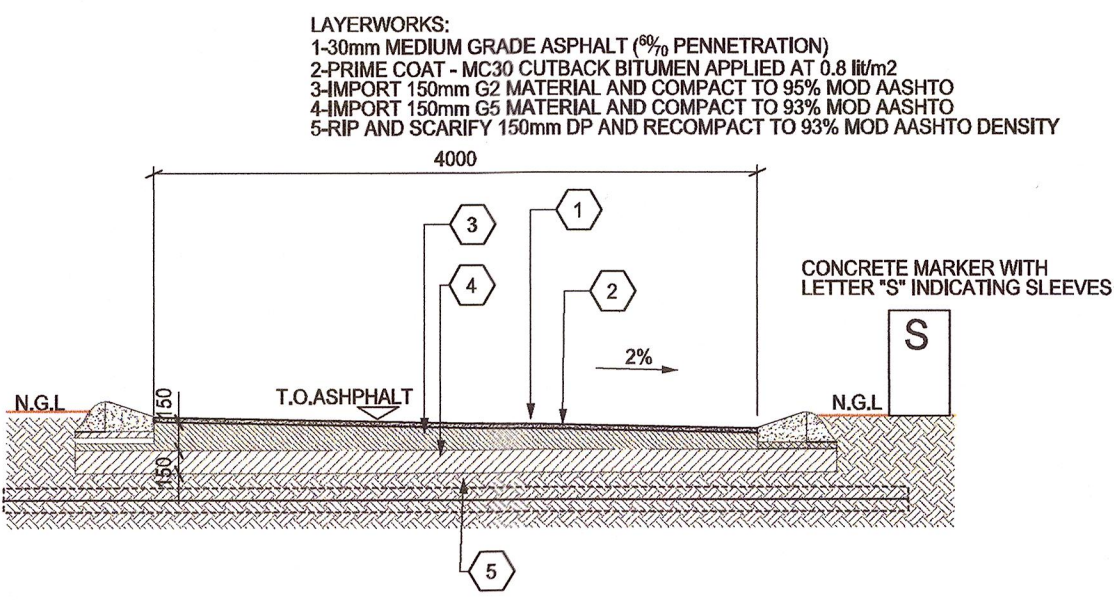
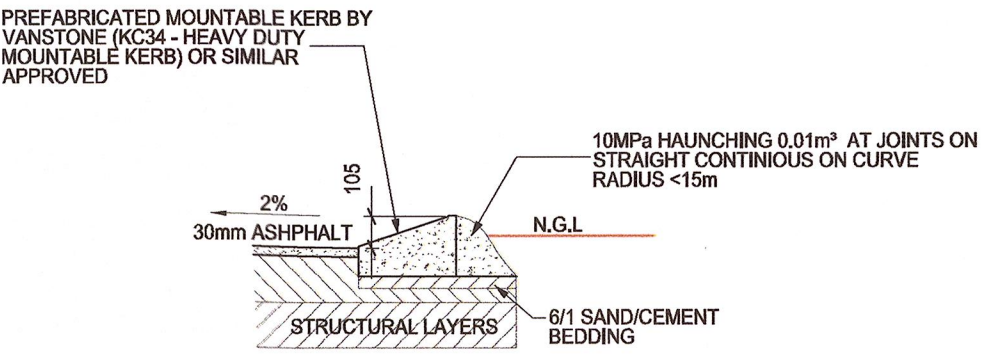




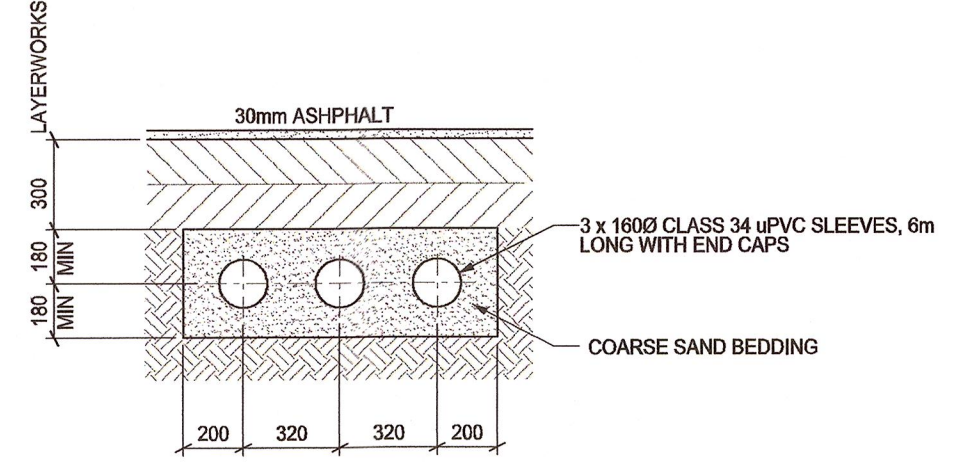
TYPICAL BERM DETAIL
SCALE: 1:25



SECTION A
SCALE: 1:50



PRE CAST MOUNTABLE KERB
(TYPICAL DETAIL)
SCALE: 1:25



TYPICAL SECTION THROUGH 1600 SLEEVES
(TYPICAL DETAIL)
SCALE: 1:25

BENCHMARKS			
	Y	X	MSL
BM1	-70733.262	2864534.672	1538.878
BM2	-70738.307	2864386.357	1536.253
BM3	-70585.207	2864408.699	1540.852

BULK EARTHWORK NOTES:
1. 150mm OF TOP SOIL NEEDS TO BE REMOVED
2. LEVELED PLATFORM NEEDS TO BE CREATED 1500mm AROUND SLAB
3. ALL COMPACTION TEST MUST BE APPROVED BY ENGINEER PRIOR TO EXCAVATION OF TRENCHES

GENERAL CONCRETE NOTES:

- 1. STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH MECHANICAL / ELECTRICAL DRAWINGS AND ANY DISCREPANCIES MUST BE IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER
- 2. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENT OF SANS 1200 G
- 3. 30 / 10 MPa CONCRETE MIX SHALL BE USED U.O.S.
- 4. ALL BUILDING WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS
- 5. 50mm OF COVER TO ALL REINFORCEMENT U.O.S
- 6. CONCRETE SHOULD HAVE A POWER FLOATED FINISH
- 7. ALL CONCRETE SHALL BE CURED AS SPECIFIED IN THE SANS 1200 G

BRICKWORK

- 1. ALL MASONRY MATERIALS, COMPONENTS, WORKMANSHIP AND TESTING SHALL COMPLY WITH SANS 0164
- 2. THE MINIMUM CRUSHING STRENGTH OF ALL LOAD BEARING BRICKWORK SHALL BE 14 MPa AND THE MAXIMUM WATER ABSORPTION 12%
- 3. THE MINIMUM CRUSHING STRENGTH OF MORTAR SHALL BE AS FOR CLASS 1 MORTAR (1:4 CEMENT : SAND, BUT NOT LESS THAN 10 MPa.) PART 1 1980.
- 4. ALL BRICK ANCHORS, WALL TIES AND STRAPS SHALL BE HOT-DIPPED GALVANISED
- 5. FULL DEPTH V-JOINTS SHALL BE MADE IN PLASTER WORK WHERE BRICKWORK AND CONCRETE JOIN
- 6. NON-LOAD BEARING BRICKWORK MAY NOT BE BUILT CLOSER THAN 20MM FROM THE SOFFITS OF BEAMS AND SLABS UNLESS OTHERWISE SHOWN
- 7. LOAD BEARING BRICKWORK SHALL BE REINFORCED WITH AN APPROVED BRICKFORCE EVERY FOURTH LAYER AND FOR THREE COURSES ABOVE ALL WALL OPENINGS
- 8. BRICKFORCE TO BE PROVIDED EVERY 5 COURSES
- 9. ALL INSIDE LEVELS REFER TO RAW CONCRETE AND NOT TO FINISHED FLOOR EXCEPT WHERE OTHERWISE INDICATED
- 10. ALL BUILDING WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS
- 11. CLAY BRICKS MUST BE WETTED BEFORE USE
- 12. WALL JOINTS MUST BE REPEATED IN ALL TILED FINISHES
- 13. ALL VERTICAL AND HORIZONTAL JOINTS TO BE FILLED SOLID WITH MORTAR
- 14. NO VERTICAL OR HORIZONTAL CHASING IS PERMITTED WITHOUT APPROVAL OF THE ENGINEER
- 15. ALL EXTERNAL JOINTS TO BE SEALED WITH AN APPROVED POLYSULPHIDE JOINT SEALER
- 16. 12MM VERTICAL SOFTBOARD TO BE PLACED WHERE THE SLAB ABUTS AGAINST A WALL
- 17. SLIPJOINT CONSISTING OF 2 LAYERS OF 3 PLY MALTHOID WITH PLASTIC IN BETWEEN TO BE FORMED ON TOP OF ALL WALLS SUPPORTING A CONCRETE SLAB
- 18. LINTOLS OVER OPENINGS TO HAVE A MINIMUM OF 230mm BEARING EACH END

The Antenna Support structure will have a natural frequency greater than 10 Hz. Simulations will be provided to justify compliance to this requirement.

REFERENCE DRG	DESCRIPTION	REV	DATE	REVISION	BY	PEER CHECK	CONCRETE STRENGTHS			APPROVAL		
J238-02-22-01	CONTROL ROOM AND ANTENNA BASE WITH GROUND FLOOR	A	2015-01-20	ISSUED FOR FINAL APPROVAL	S DRY	R.B.	MEMBER	CONCRETE CLASS	INTERNAL MIN COVER (mm)	EXPOSED MIN COVER (mm)	NAME	SIGNATURE
J238-02-22-02	CONTROL ROOM ROOF SLAB	0	2015-02-10	ISSUED FOR CONSTRUCTION	S DRY	R.B.	SLABS	30/19	50	50		
J238-02-22-03	RAISED FLOOR LAYOUT AND DETAILS						FOUNDATIONS	30/19	50	50		

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DRAWN: S DRY
DESIGN: D MERRING
CHECKED: G CAMERON
APPR: R BAKKER
DATE: MARCH 2014
SCALE: 1:50

DISCIPLINE: STRUCTURAL
SANSA
HARTEBEESTHOEK
CORMORAN-HBX ANTENNA & CONTROL ROOM
OVERALL LAYOUT
LAYOUT, SECTION AND DETAILS

DRAWING NUMBER: J238-02-10-01
REV 0