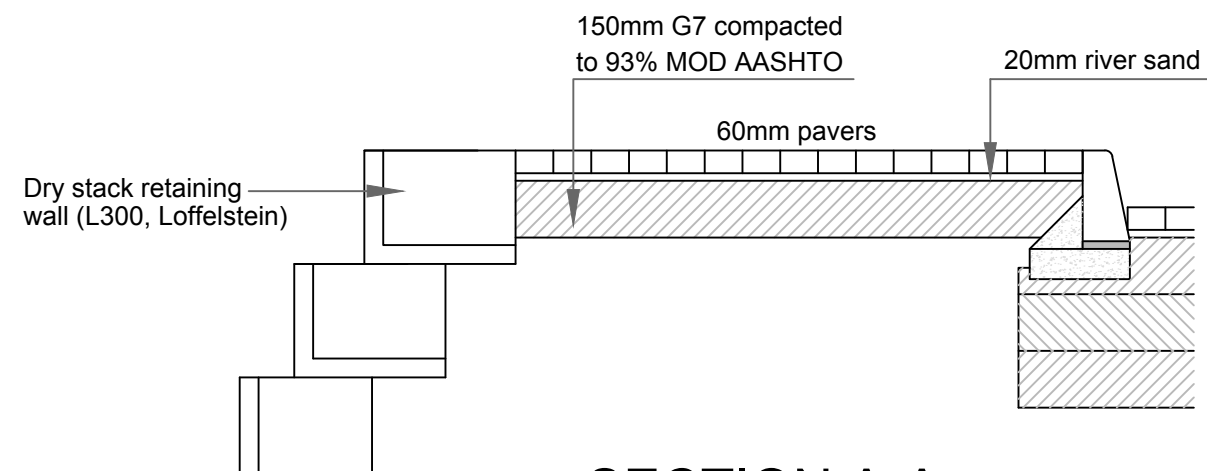
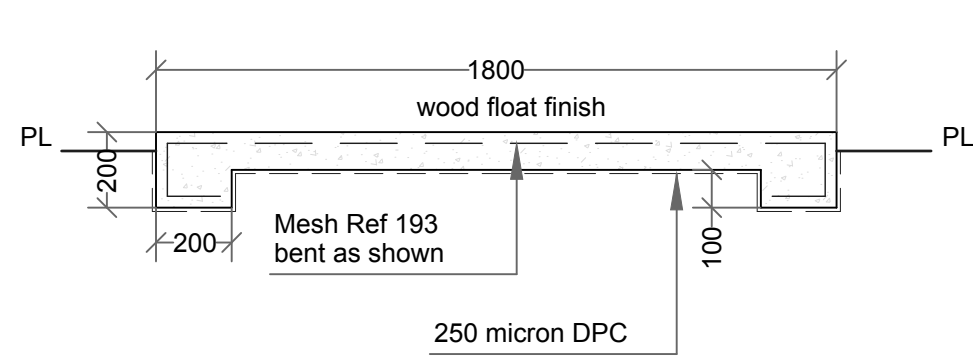


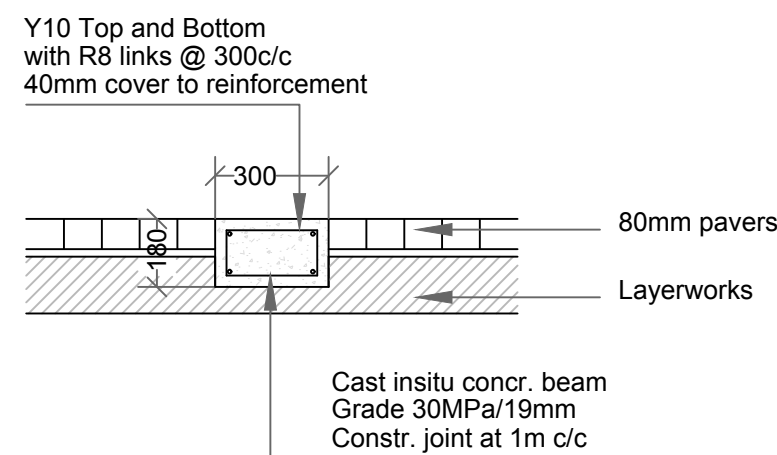
SECTION C-C  
scale: 1:20



SECTION A-A  
scale: 1:20



SECTION B-B  
scale: 1:20



ADGE and ANCHOR BEAM DETAIL  
scale: 1:20

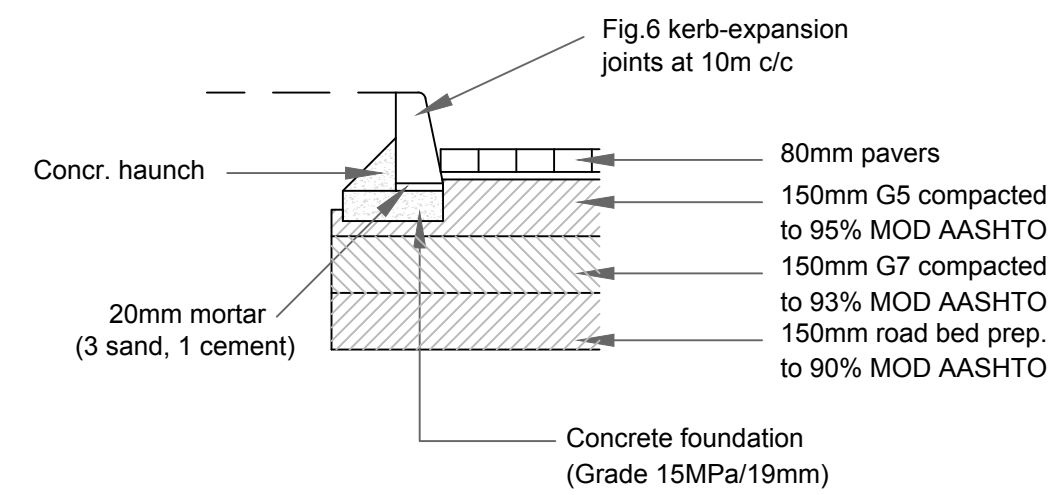
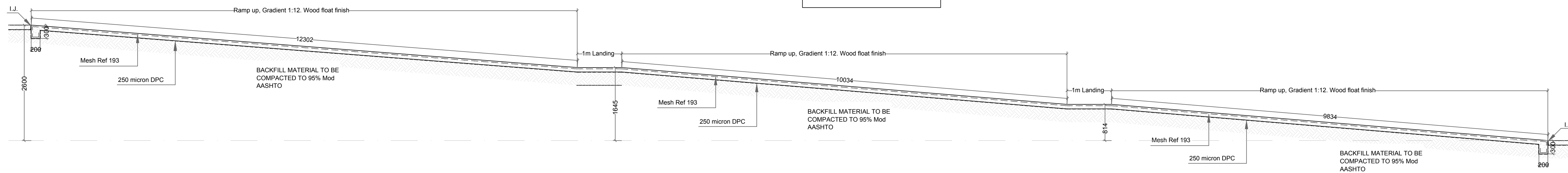


FIG. 6 KERB DETAIL AROUND  
PARKING AREA  
scale: 1:20



SECTION D-D  
scale: 1:50

#### EARTHWORKS NOTES:

- 1.MATERIAL, CONSTRUCTION, TESTING, BEDDING ETC. SHALL BE IN ACCORDANCE WITH THE RELEVANT CLAUSE OF STANDARDIZED SPECIFICATIONS SANS 1200C AND DM
- 2.LEVELS ARE BASED ON MSL DATUM.
- 3.ALL BULK EARTHWORKS AREAS SHALL BE CLEARED AND GRUBBED.
4. TOPSOIL TO A DEPTH OF 100mm SHALL BE REMOVED FROM BULK EARTHWORKS AREAS AND STOCKPILED ON SITE FOR LATER LANDSCAPING.
- 4.FILL MATERIAL SHALL BE COMPACTED TO 95% OF Mod AASHTO IN LAYERS NOT EXCEEDING 300mm (OR AS PER SPECIFICATION)
- 5.CUT AND FILL SLOPES SHALL BE 1:1.5 FOR EARTHWORKS PLATFORMS UNLESS NOTED OTHERWISE.
- 6.THE LOCATION AND DEPTH OF EXISTING SERVICES SHALL BE CONFIRMED PRIOR TO COMMENCING EARTHWORKS OPERATIONS.
- 7.ENGINEER TO APPROVE SETTING OUT BEFORE CONSTRUCTION COMMENCES.

#### NOTES:


1. GENERAL
  - 1.1 All building work must comply with Local and National Building regulations
  - 1.2 This drawing must be read in construction with architectural and electrical drawings and verified against the same. Any discrepancies must be reported to the engineer.
  - 1.3 All works to be performed in accordance with the latest version of SABS 1200G, SABS 200GE and SABS 1200GF as applicable.
  - 1.4 All notes are general unless otherwise shown on the drawing.
  - 1.5 No structural alterations without the approval of the engineer.
  - 1.6 No scaling of dimensions is permitted.
  - 1.7 All dimensions to be checked on site.
  - 1.8 Contractor must keep a full set of drawings on site.
  - 1.9 Contractor id responsible for correct setting out of building on site with particular reference to boundary and building lines.
2. CONCRETE (at 28 days):
  - 2.1 Foundations 25MPa/19mm
  - 2.2 Surface beds 25MPa/19mm
  - 2.3 Concrete channels & aprons 20MPa/19mm
  - 2.4 Ramps and walkways 25MPa/19mm
3. COVER TO REINFORCEMENT:
  - 3.1 40mm cover to all reinforcements unless otherwise noted.
4. CONSTRUCTION:
  - 4.1 No concrete may be cast until the reinforcement has been completed and approved by the engineer.
  - 4.2 Concrete to be adequately compacted by means of a vibrator.
  - 4.3 Contractor must use approved cover blocks of adequate strength in order to withstand working conditions, min. equal to concrete strength specified.
  - 4.4 No "honey-combing" in concrete must be rectified without inspection and consent of the engineer.
5. CONCRETE CUBE TESTS:
  - 5.1 The results of six concrete cube crushing tests done at an approved laboratory are to be submitted to the engineer for approval. Atleast one set of six cubes shall be taken for each day of casting and from atleast over 50 cubic meters of concrete placed.
  - 5.2 Three cubes must be crushed at 7 days and 3 at 28 days.
  - 5.3 The results submitted to the engineer must contain the date at which the samples were taken and identification by which the results may be correlated with the section of the work to which it pertains.

TO BE READ WITH DRAWING FOR  
"ACCESS ROAD, PARKING AREA  
AND WALKWAYS LAYOUT PLAN  
AND DETAILS"


#### REVISIONS

	DATE	DESCRIPTION
A	18/10/2019	DESIGN APPROVAL

#### CLIENT:

 **education**  
Department:  
Education  
PROVINCE OF KWAZULU-NATAL  
Head Office, 247 Burger Street, Pietermaritzburg, 3200  
Telephone Number: (033) 392 1203  
Fax number: (033) 392 1203

#### IMPLEMENTING AGENT:

 **DBSA**  
Building Africa's Prosperity  
Headway Hill, 1258 Lever Road, Midrand, South Africa  
Telephone Number: +27 11 313 3501  
Fax number: +27 11 313 3500 or +27 11 313 3297  
Web: webmaster@dbsa.org

#### PROJECT MANAGERS:

#### CIVIL ENGINEERS:

#### STRUCTURAL ENGINEERS:

 **Bhadama**  
Properties & Projects  
Regus Westway, 3 Floor, 18 The Boulevard  
Westway Office Park, Westville, DURBAN  
Tel: (031) 003 3137, Fax: (031) 003 3101, F2E, 086 671 3682  
sdu@bhadama.co.za, s@bhadama.co.za, s@bhadama.co.za

#### PROJECT NAME INFORMATION

#### ALTERATIONS AND ADDITIONS TO

#### KHANDISA PRIMARY SCHOOL IN DLANGEZWE

#### SECTION / BLOCK

#### GENERAL SITE LAYOUT PLAN

#### TITLE

#### CIVIL ENGINEERING DRAWING

#### DRAWING DESCRIPTION

#### ACCESS ROAD, PARKING AREA AND WALKWAYS: SECTIONS AND AND DETAILS

SCALE	AS SHOWN	DESIGNED	DATE	PI/Eng No.	SIGN.
SAM	OCT 2019	20160552			
DRAWN	DATE	PI/Eng No.	SIGN.		
SAM	OCT 2019	20160552			
APPROVED	DATE	DRAWN:	SIGN.		
RJK	OCT 2019	20060009			
DRAWING NUMBER:	P1911/10-002	REVISION			
		A			