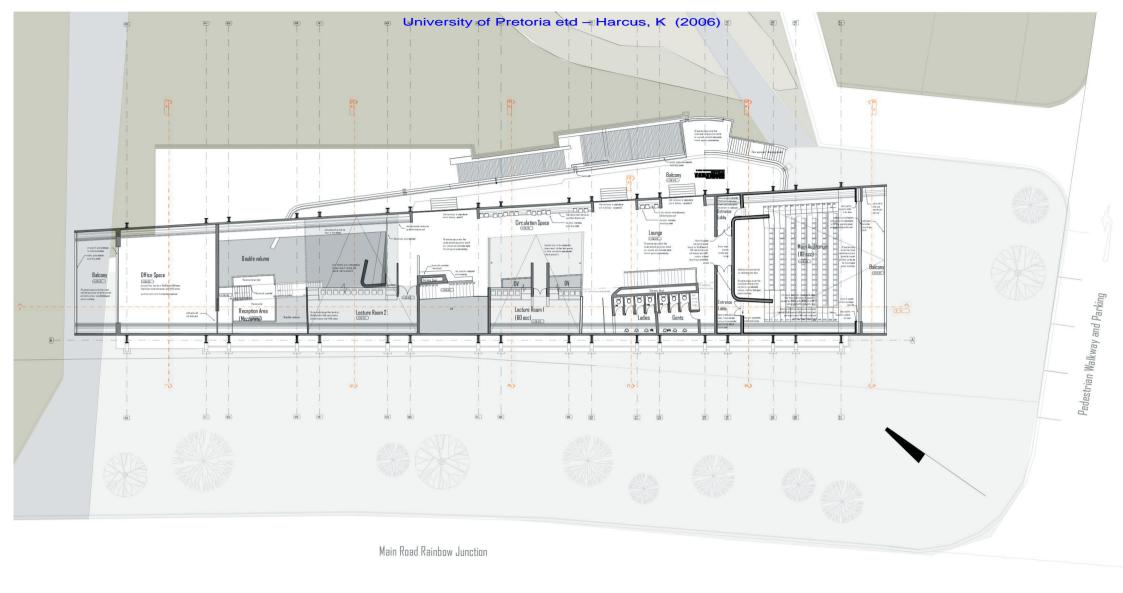


Scale 1:400

Ground Floor Plan

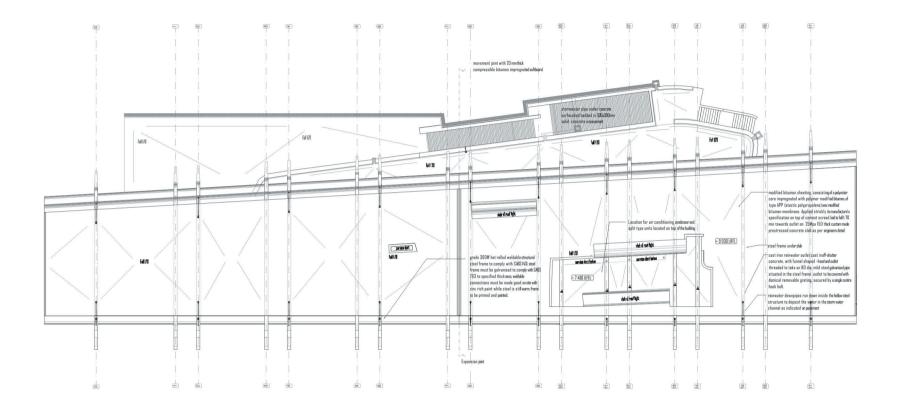
November 2005



First Floor Plan

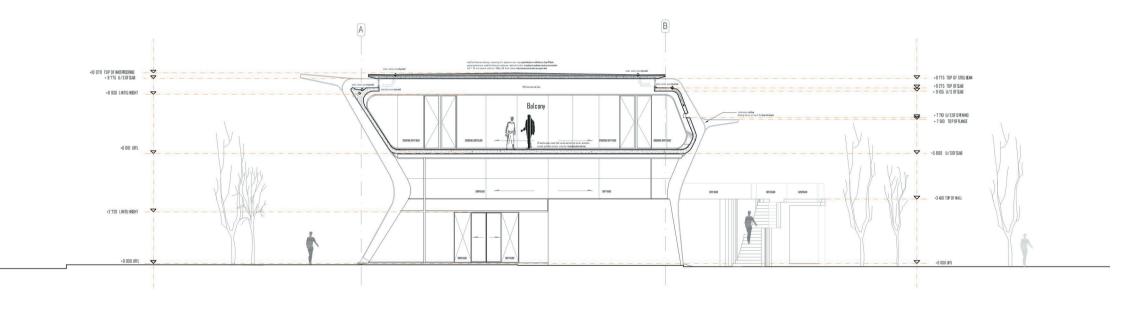
November 2005

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Roof Plan November 2005 Scale 1:400

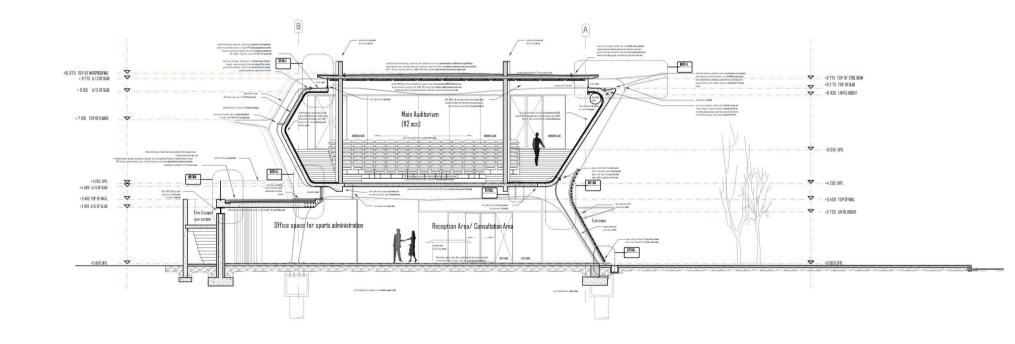
University of Pretoria etd – Harcus, K (2006) 170 reinforced off-shutter concrete, using purpose made steel formwork with top beam steel end plate to be flush with flange to construction/day joints at every 2500 mm. accompdate a flat surface for the window to be the concrete to be worked to smooth finish to comply with SABS 0155, construction mounted on joints to be sealed after curing. grade 300W hot rolled weldable structural steel frame to comply with SABS 1431, steel frame must be galvanised to comply with SABS 763 to specified thickness, weldable connections must be made good on site with zinc rich paint while steel is still warm. frame to be primed and painted. ends of off shutter concrete tapered as a result of the modified bitumen sheeting, consisting of a polyester core impregnated with construction joints at every 2500mm in the formwork/ polymer modified bitumen, of type APP (atactic polypropolene) wax modified construction joint at the end of the day's casting or where bitumen membrane. Applied strickly to manufacture's specification on top of concreting has stopped for more than 45 minutes, the joint cement screed laid to fall 1: 70 min towards outlet on 25Mpa 150 thick face of keyways must be coated with a suitable sealant, round custom made prestressed concrete slab as per engineers detail off all enstruction joints to a radius of 3mm. 1200 x 150 thick custom made prestressed concrete slab as per engineers detail to soan between steel frames 30 cement screed and 20 seemless epoxy concrete upstand with waterproofing on mortar floor screed used with grey primer top to isolate water from steel column worked to a smooth polished surface. stop the fininsh against patent metal strips. 255 power-troweled reinforced concrete slab as per engineer's specification fixed window located between off-shutter concrete wall and under prestressed concrete roof refer to details/ sections for rainwater outlets and waterproofing 170 reinforced off-shutter concrete. using purpose made steel formwork with construction/day joints at every prestressed concrete slab thinned to 2500 mm, the concrete to be worked the concrete slab rests on 170 according to the structural system to a smooth finish to comply with SABS steel flange but do not rely on of the building 0155, construction joints to be sealed flange alone, the bottom beam steel end plate after curing. beam is supported by bent according to detail steel reinforcing that is welded to the steel web. 25 steel base plate flush with ffl to detail Isometric Sketch of the Structure November 2005 FACILITIES FOR THE DEVELOPMENT OF SPORT IN CONJUCTION WITH THE 2010 SOCCER WORLD CUP: sports administration building



Section A-A

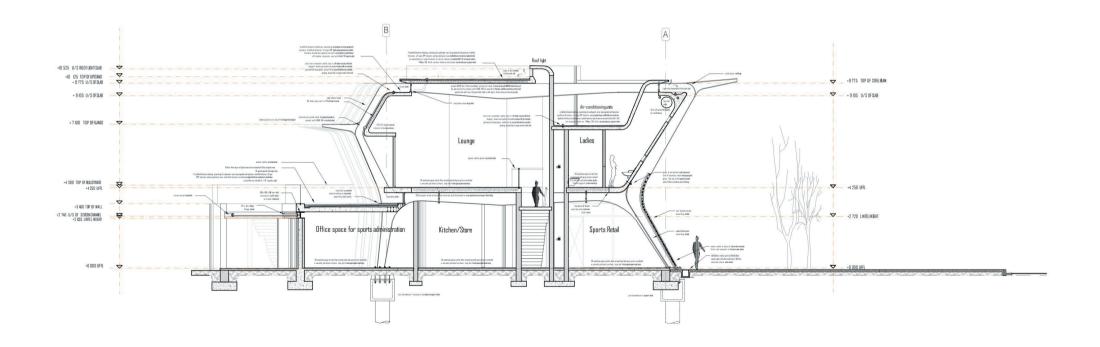
November 2005

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Section B-B

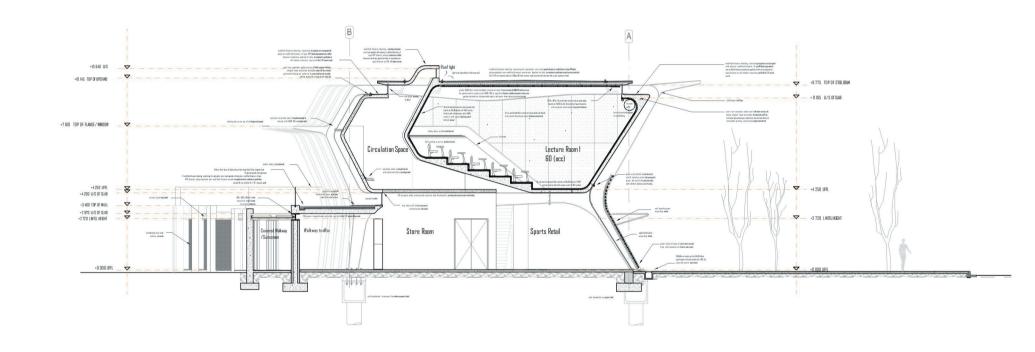
November 2005



Section C-C

November 2005

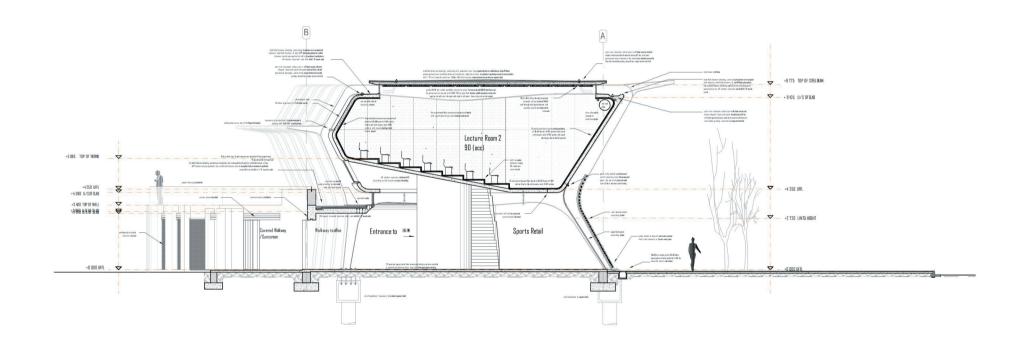
FACILITIES FOR THE DEVELOPMENT OF SPORT IN CONJUCTION WITH THE 2010 SOCCER WORLD CUP: sports administration building



Section E-E

November 2005

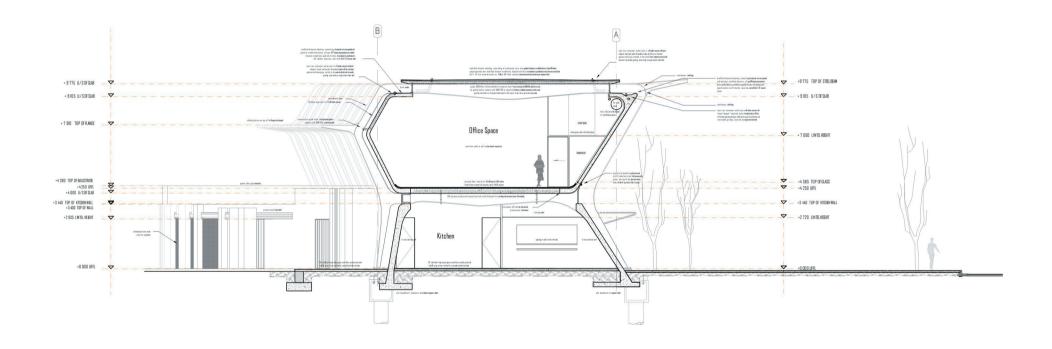
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Section G-G

November 2005

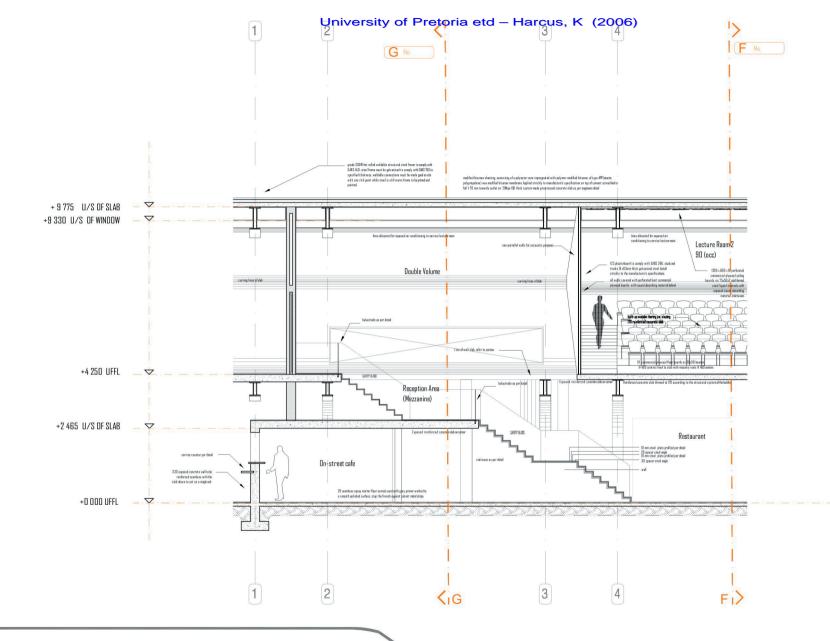
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Section 1-1 Scale 1:200

November 2005

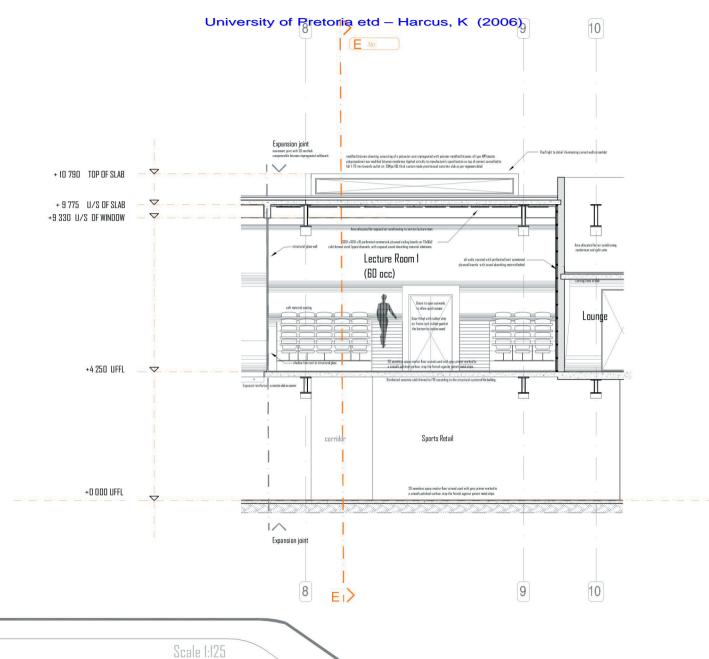
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Detail A of section 1-1

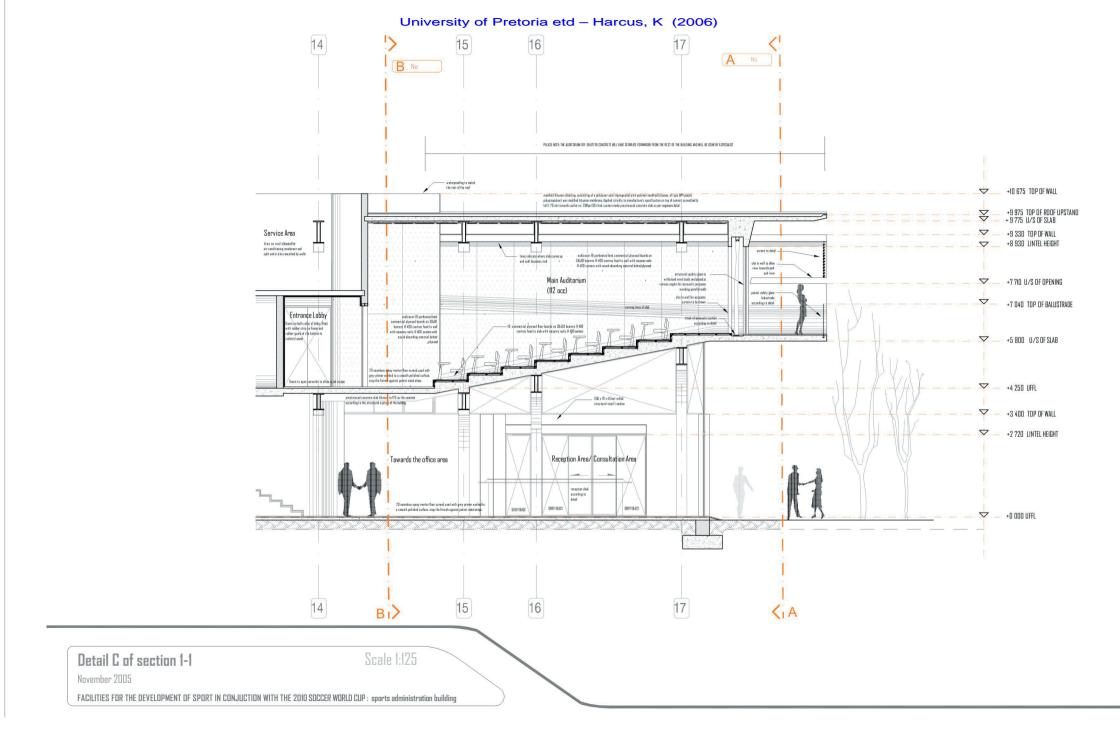
November 2005

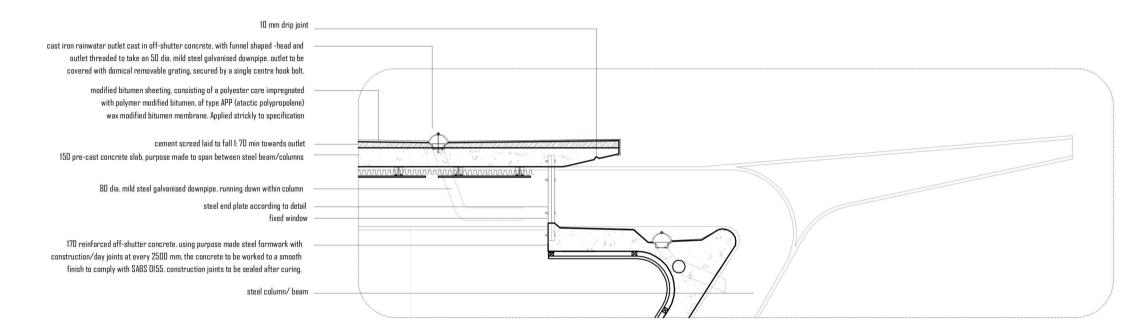
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Detail B of section 1-1

November 2005

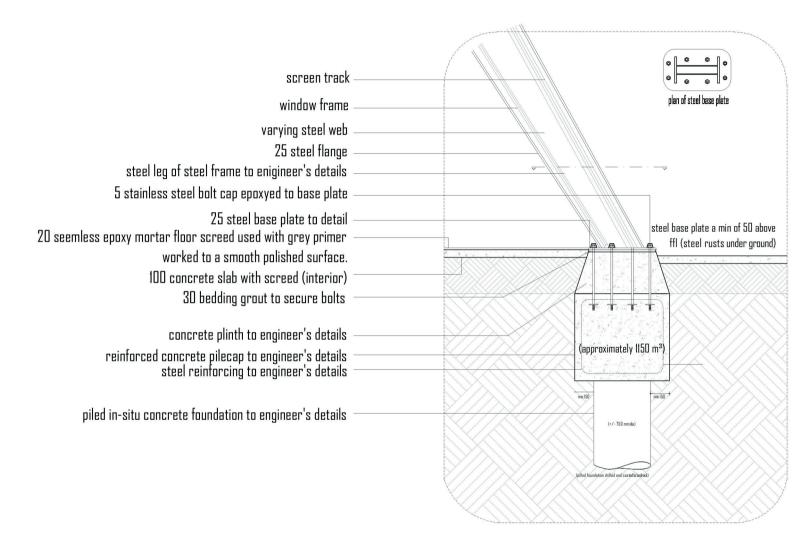




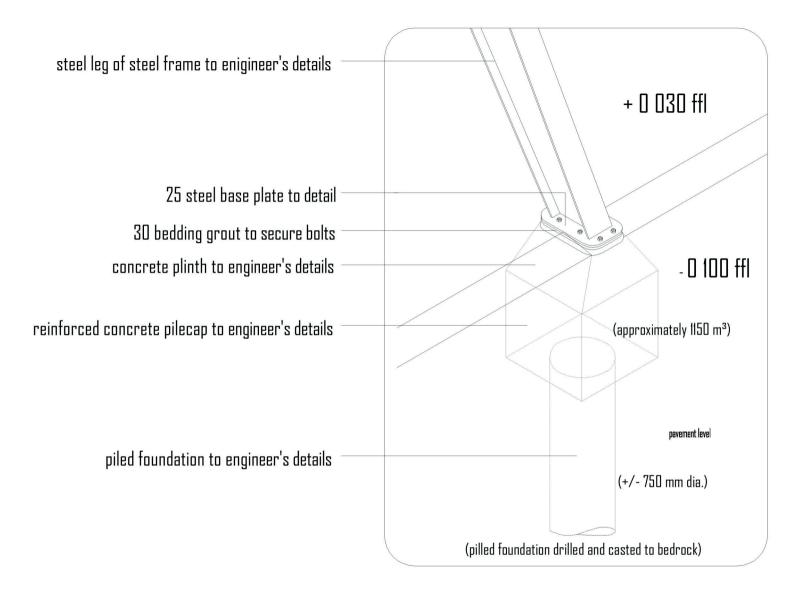
Detail of western roof edge

Scale 1:25

November 2005



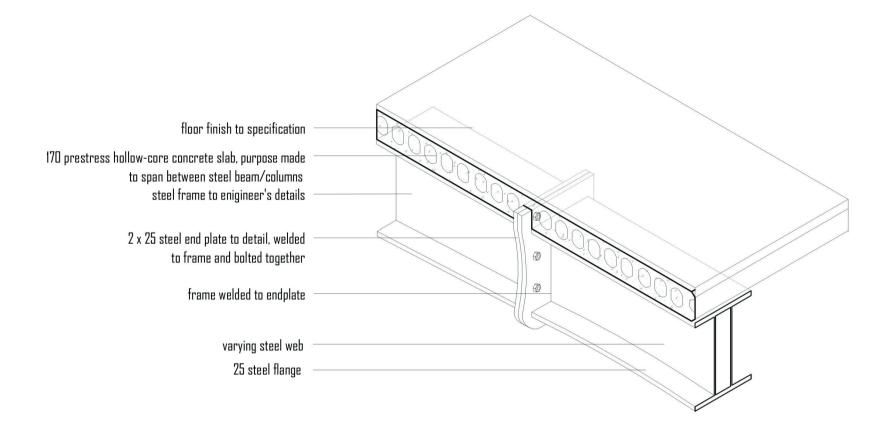
Detail of pile foundation



Isometric detail of steel columne foundation

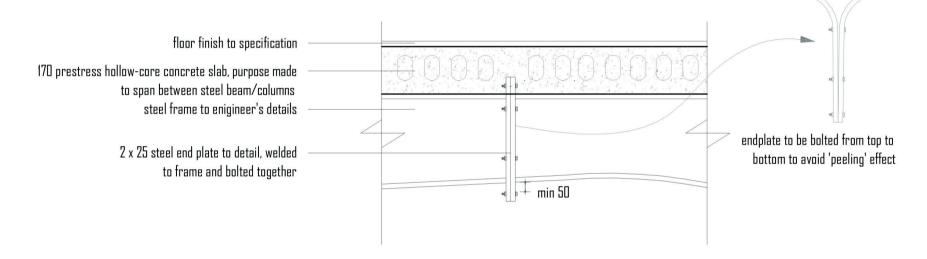
Scale 1:20

November 2005



Isometric detail of endplate

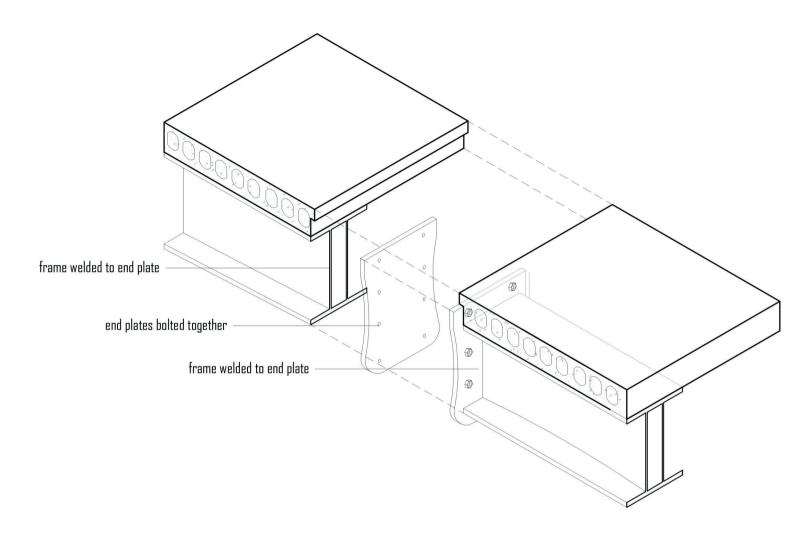
November 2005



Elevation of end plate

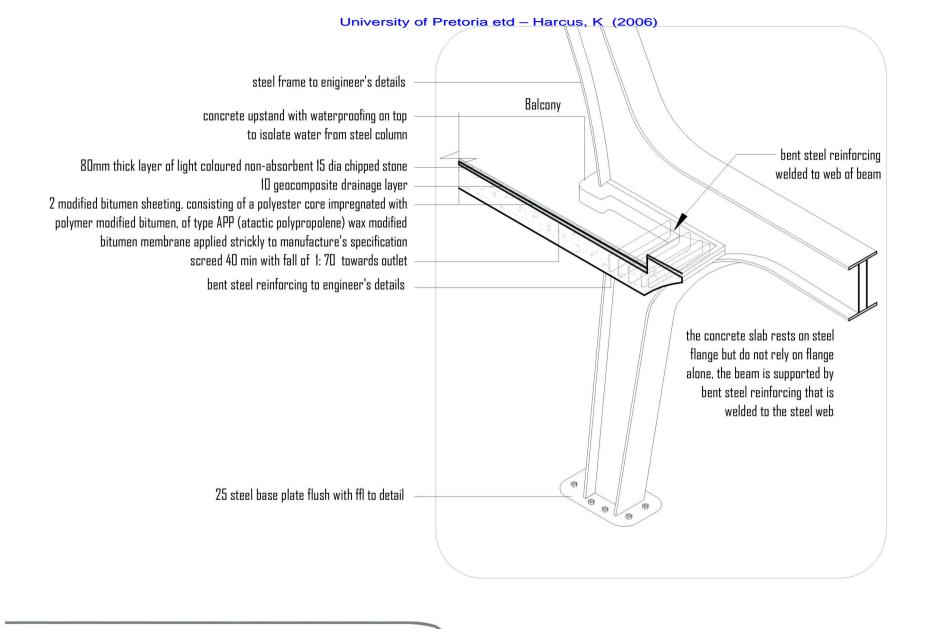
Elevation of end plates

November 2005



Exploded view showing end plate connection

November 2005



Isometric sketch of balcony edge and column connection

Scale 1:20

November 2005

Balcony

floor/wall finish to specification ____ steel frame to enigineer's details ____ 170 off-shutter concrete slab ____

window as specified cement screed laid to fall I: 80 min concrete upstand with waterproofing on top to isolate water from steel column

80mm thick layer of light coloured non-absorbent 15 dia chipped stone—
10 geocomposite drainage layer—
2 modified bitumen sheeting, consisting of a polyester core impregnated with—
polymer modified bitumen, of type APP (atactic polypropolene) wax modified
bitumen membrane applied strickly to manufacture's specification
screed 40 min with fall of 1: 70 towards outlet

255 power-troweled reinforced concrete slab—
bent steel reinforcing welded to web of beam—