

**PORTFOLIO
OF
EVIDENCE
FOR
ETWATWA EXT 35**

PORTFOLIO OF EVIDENCE OF: ETWATWA EXT 35

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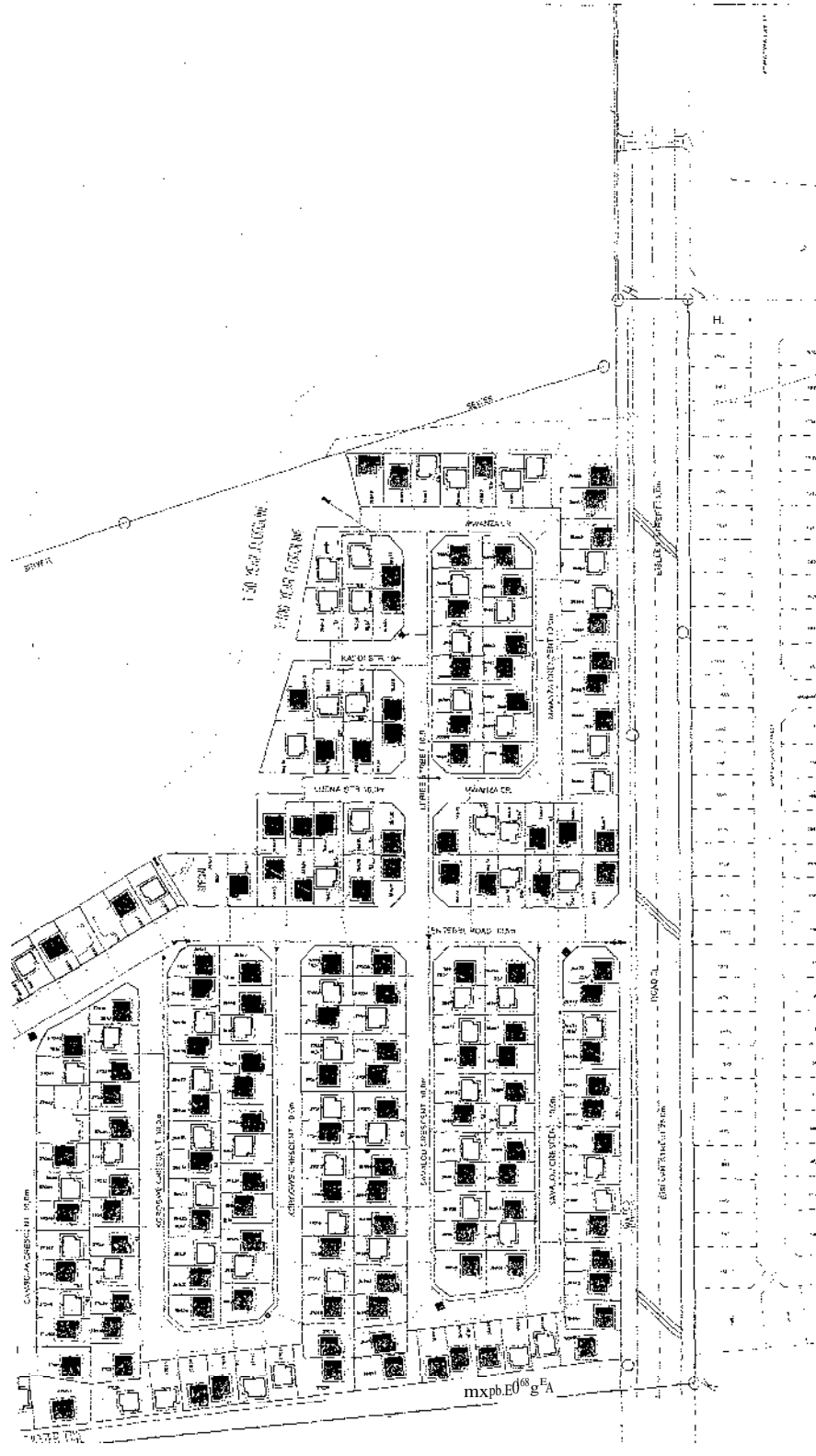
- FOUNDATION
- TOP STRUCTURES

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3.3 EPWP REPORT

ETWATWA EXT 35 TOWNSHIP LAYOUT



...101.1.0.1 111.1.9.0. 0117114 PORMILMILVo..;



EKWULENI HOUSING

EKWULENI HUMAN SETTLEMENTS DEPARTMENT.

ETWATWA EX. 35 - TOWNSHIP LAYOUT

GENERAL NOTES

- 1) ALL WORK TO COMPLY WITH THE THE NBA BUILDING CODES.
- 2) 01.1 DIMENSIONS TO BE READ, DO NOT SCALE.
- 3) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE
- OLSCPEPANCS 090 0 TO APclspicy
- 1) PROVIDE UPC UNDER ALL NEW WALLS, GILLS. 8
- VER: DAL WALLS SELOW
- 5) FL ASHINGS TO BE PROVIDED AT ALL ROOF; PARAPET
- 6) ALL GLAZING TO COMPLY WITH PART 11 OF THE NBR (SASSAIRES SAES 0137).
- 7) PROVIDE LINTELS ABOVE ALL OPENINGS, DOORS & WINDOWS.
- 8) NO WORK TO BE CARRIED OUT WHICH IN MY WAY COMPROMISES ANY SUPPLIER'S GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT

DRAINAGE NOTES

- 1) ALL WORK TO COMPLY WITH THE THE NOR. DRAINAGE IN ACCORDANCE TO DEEM TO SATMFT WITH SANS 10254 (GEYSERS) SANS 10252 (WATER) SANS 1100 (DRAINAGE)
- 2) ALL DRAINAGE BENDS AT JUNCTIONS TO BE FITTED WITH 150mm WITH MARKED COVERS AT GROUT LEVEL, PROVIDE R.E. AT THE START OF EACH DRAIN RUN AND R.E. NAT EVERY 25m THEREAFTER
- 3) ALL DRAINS - PO BY CALL ENDS LAID MIN. A MINIMUM FALL OF 1:100.
- 4) DRAINS UNDER BUILDINGS TO BE FULLY ENCASED IN CONCRETE OR BRIDGED SO THAT NO STRUCTURAL LOAD IS TRANSFERRED TO THE DRAIN.
- 6) WASTE FITTINGS TO HAVE RESEAL TRAPS AND TO BE FULLY ACCESSIBLE.
- 7) 100mm DIAMETER WASTE PIPES TO BE USED FOR ALL WHO AND MEN'S WASTE PIPES TO BE USED FOR ALL SINKS, BATHS & SHOWERS.

HOUSE TYPE 1: In



HOUSE TYPE 2: In

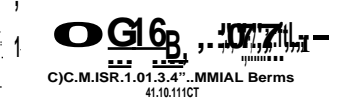


HOUSE TYPE 3: In

IMPORTANT NOTE TO ALL CONTRACTORS

- 1) ALL 1:1000.1:100 DRAWINGS ART FOR SETTING-OUT AND LOCATING UNITS ONLY.
- 2) ALL BUILDING DETAILS TO BE OBTAINED FROM ISODRAWINGS AND DETAILS TO BE FROM ISO DRAWINGS.
- 3) ALL INFORMATION COAINED IN 1:50 DRAWINGS ALWAYS SUPPLEMENTED WITH INFORMATION CONTAINED IN 1:100 DRAWING LAYOUT.

REVISION TABLE		



191501. MTTOV..... :OMMIL.1.1.1 00°0Mr
1 a 10° No.w. s. a 4.....H.....a

4S4

NEW HOUSING DEVELOPMENT. ETWATWA EXT-35
FOR EKWULENI METROPOLITAN MUNICIPALITY

TOWNSHIP LAYOUT

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01.1.0011 GAIN ;:1.201, As

A.1.1:2000ji

ETWA 3S 51001.01 II

185:19,92S)

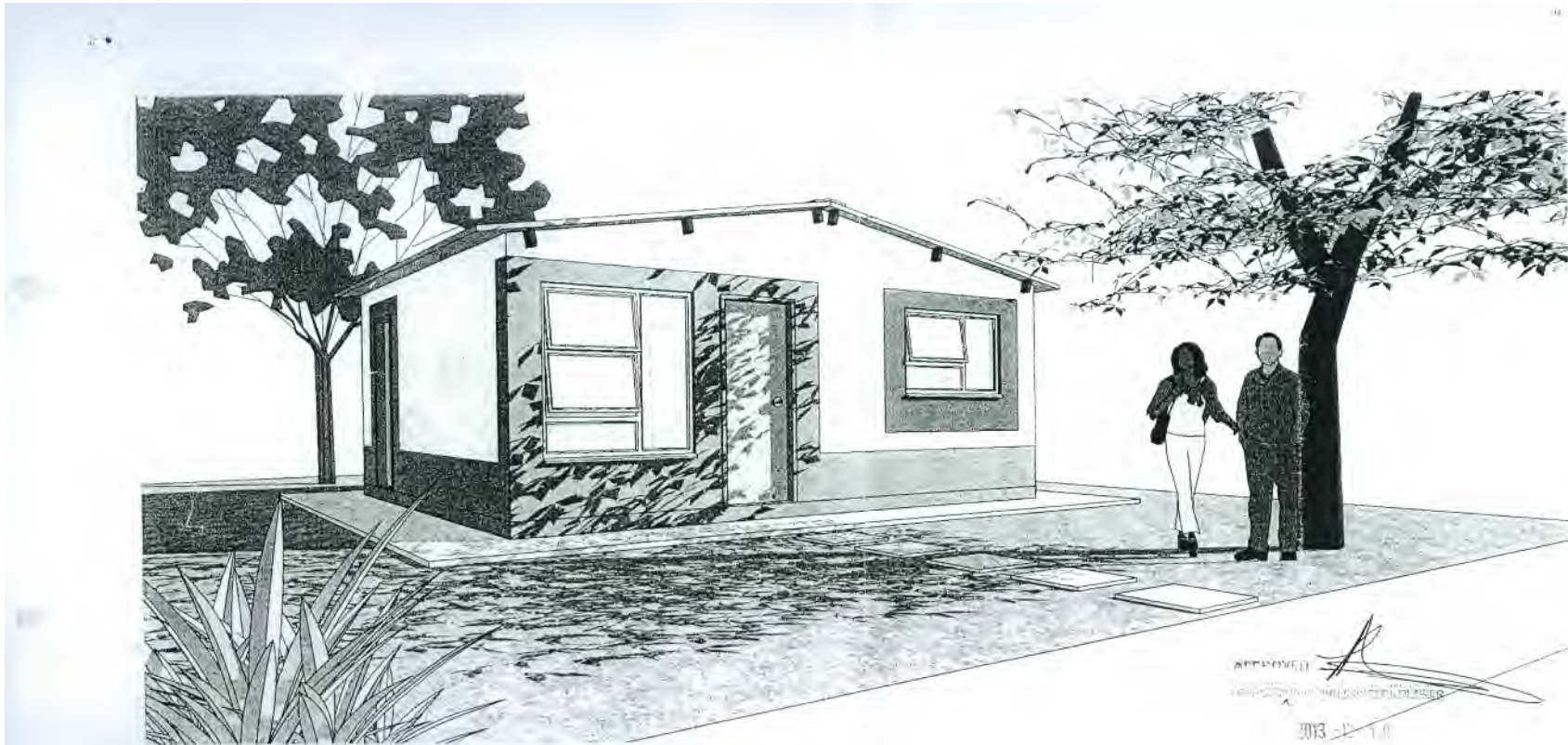


1. APPROVED BUILDING PLANS

1.1 TYPOLOGY ALLOCATED TO THE PROJECT

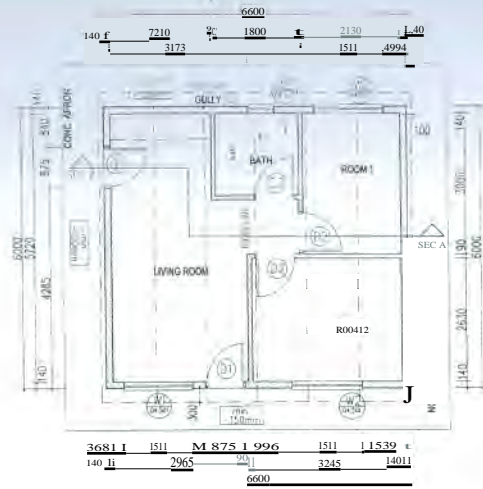
- **TYPE 1**
- **TYPE 2**
- **TYPE 3**

TYPE 1- STAND ALONE HOUSE

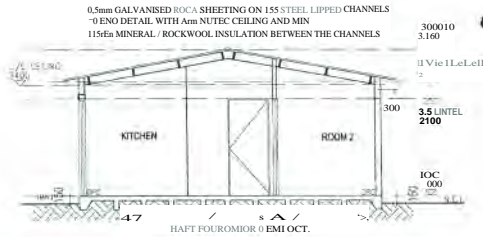


TYPICAL BUILDING PLANS FOR FULL SUBSIDY HOUSING
Ekurhuleni Human Settlements Department

MA



GROUND FLOOR PLAN SCALE 1:100



SECTION A-A SCALE 1:50

SANS 0400 -NA Requirements to achieve compliance. - SIMPLEX

4.1 Hot Water Supply

WA, heating to be provided by solar heating syMem M accordance with SANS 1107, 10106, 10254 & 10152-1

All hot water piping to be lagged and insAated to achieve a min % value of 100

4.4.3.09190191 W4114

140mm masonry wall plastered internally a. render. mternally.

4.4.4 Penetration

Room Type	Level	Nett Area	Window Area	%	corno Ies*	Localn	Window TMe	Window Area
Single	Grnd	36m ²	5.4	15.00%	yes	Lounge	042.00.1	1.35
						Bathroom	02401	1.43
							ml	0.19

4.5 roof Assemblies - Metal Sheet/Mg

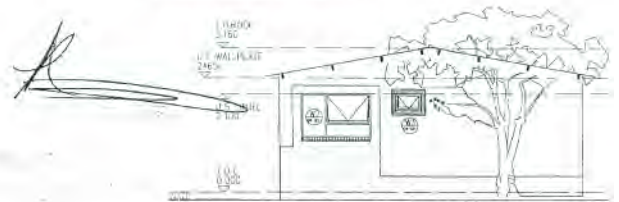
Climatic Zone • Zone

roof assembly to achieve a Minimicm total aimain of 3.7 as per SANS 0404.50 4.4.5.117ame 7) insulation required 115mm mineral wool or similar approved.

5-value (Me too Assembly	
roof Assembly	0.35
roof sheeting	
board	
air cavil	
roof Insulation	3.35
	3.7



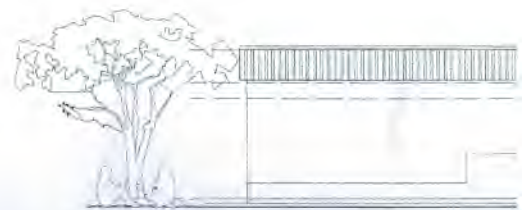
NORTH ELEVATION SCOOT DEEE



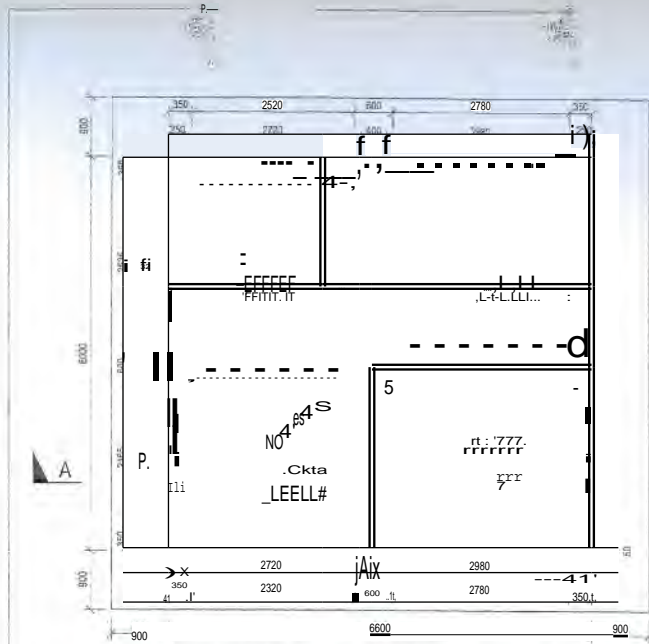
SOUTH ELEVATION SCALE 1:100



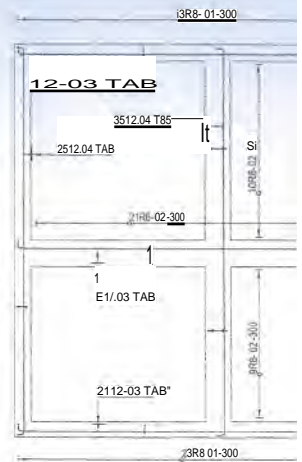
EAST ELEVATION scoot Ion



WEST ELEVATION 501.0 401.0



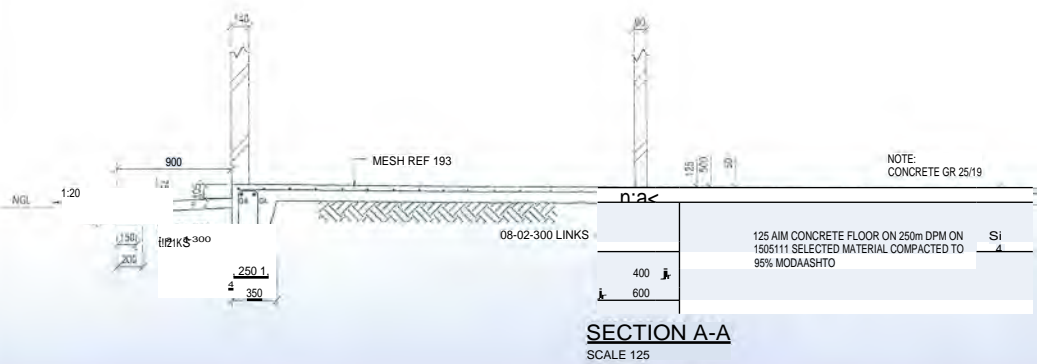
PLAN: FOUNDATIONS AND SURFACE BED
SCALE 1:50



PLAN: REINFORCEMENT
SCALE 1:50

NOTE:

1. ONE DCP TEST MUST BE CONDUCTED 1m BELOW UNDERSIDE OF FOUNDATION
2. IF ANY READING IS MORE THAN 4 MATERIAL MUST BE REMOVED.



SECTION A-A
SCALE 1:25



Members	No. of Mbrs	Type & Size	No. of Bars	Cutting Length	Total Bars	Mark	Shape Code	A	B	C
RAFT	1	R8	86	1250	86	01	60	400	150	
	1	R8	40	1300	40	02	72	400	300	
	1	Y12	14	6700	14	03	35	6500		
	1	Y12	14	6100	14	04	35	5900		
	6	8	10	12	16	20	25	32	40	TOTAL
R	0	63	0	0	0	0	0	0	0	63
Y	0	0	0	159	0	0	0	0	0	159
TOT	0	63	0	159	0	0	0	0	0	222

<PROJECT ETWATWA EXTENSION 35 HOUSING PROJECT		Reference Orig. No. SCO1	Project No. J33064
<DETAIL UNIT TYPE 1 — STAND ALONE HOUSE AREA: 40m ² — FOUNDATION BENDING SCHEDULE		Designed By A MILES	Reviewed By P LOUBSER

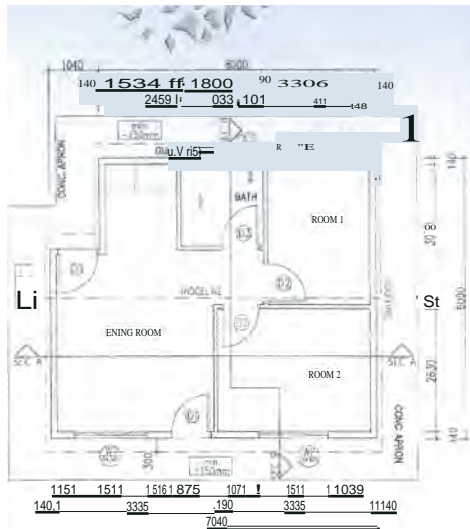
This drawing is not to be used in whole, or pa, other than for the Intended purpose and project as defined on this drawing.
 Refer to the contract for full terms and conditions.

TYPE 2- STAND ALONE HOUSE



TYPICAL BUILDING PLANS FOR FULL SUBSIDY HOUSING
Ekurhuleni Human Settlements Department

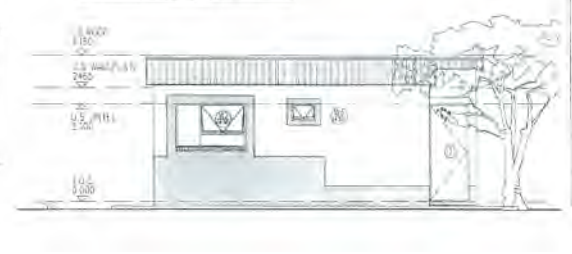
MA



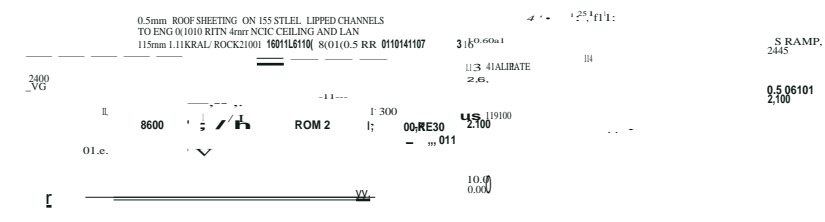
GROUND FLOOR PLAN SCALE 1/100



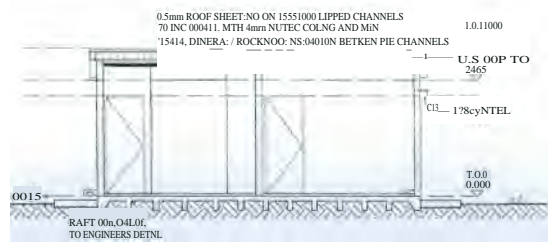
NORTH ELEVATION SCALE 1/100



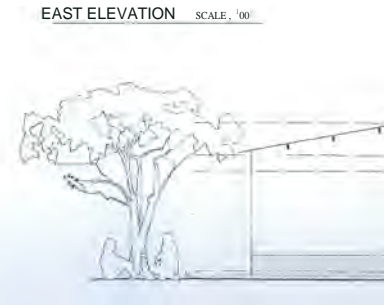
SOUTH ELEVATION SCALE 1/100

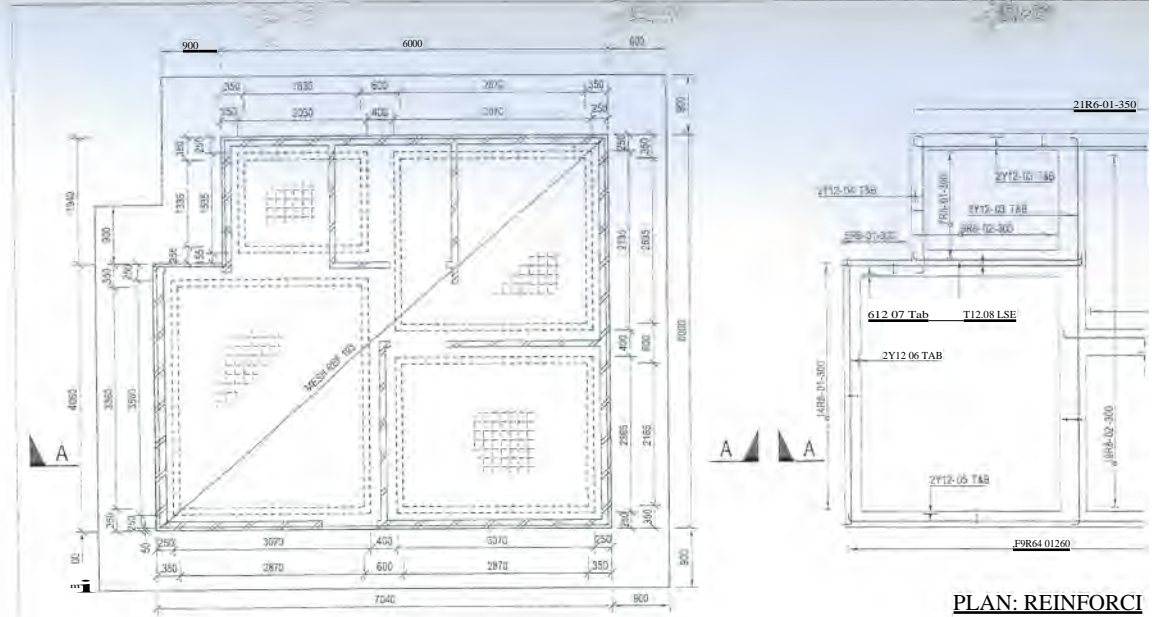


SECTION A-A SCALE 1/100



SECTION B-B SCALE 1/100





PLAN: FOUNDATIONS AND SURFACE BED

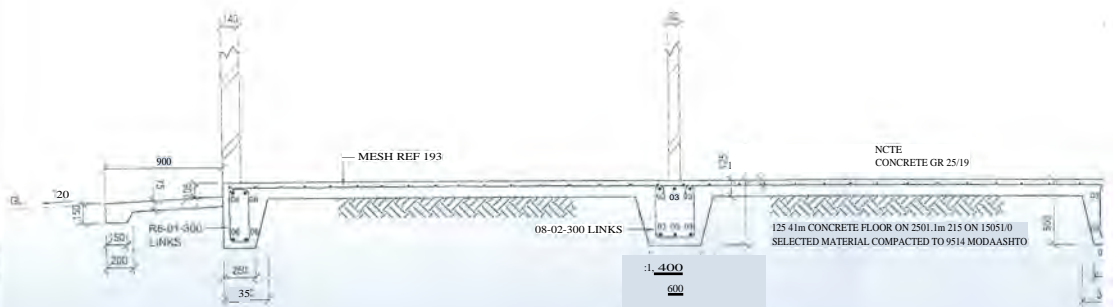
SCALE 1:50

PLAN: REINFORCI

SCALE 1:50

NOTE:

1. ONE DCP TEST MUST BE CONDUCTED P
i m BELOW UNDERSIDE OF FOUNDATION
2. IF ANY READING IS MORE THAN 40mm P
MATERIAL MUST BE REMOVED.



SECTION A-A

SCALE 1:29

Members	No. of Mbrs	Type & Size	No. of Bars	Cutting Length	Total Bars	Mark	Shape Code	A	B	C
RAFT	1	R8	92	1250	92	01	60	400	150	
	1	R8	39	1300	39	02	72	400	300	
	1	Y12	14	6100	14	03	35	5900		
	1	Y12	4	2300	4	04	35	2100		
	1	Y12	4	7150	4	05	35	6940		
	1	Y12	4	4150	4	06	35	3950		
	1	Y12	10	3800	10	07	35	3600		
	1	Y12	2	2800	2	08	35	2580		
	6	8	10	12	16	20	25	32	40	TOTS
R	0	65	0	0	0	0	0	0	0	65
Y	0	0	0	163	0	0	0	0	0	163
TOT	0	65	0	163	0	0	0	0	0	228

PROJECT ETWATWA EXTENSION 35 HOUSING PROJECT		Reference Own. No. SC02	Project No. J3306
UNIT TYPE 2 - STAND ALONE HOUSE AREA: 40m ² - FOUNDATION BENDING SCHEDULE		Designed By A MILES	Reviewed By P LOUBSER

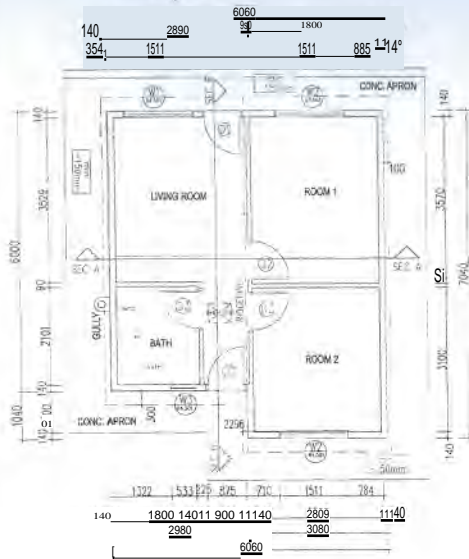
This drawing is not to be used in whole, or part, other than for the intended impose and project as defined on this drawing. Refer to the contract for terms and conditions.

TYPE 3 - STAND ALONE HOUSE



TYPICAL BUILDING PLANS FOR FULL SUBSIDY HOUSING
Ekurhuleni Human Settlements Department

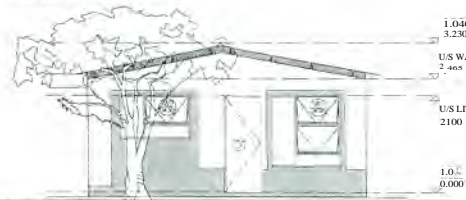
ASA



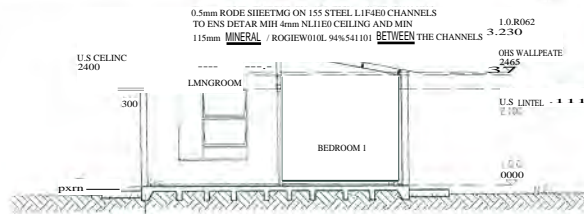
GROUND FLOOR PLAN scck 1:100



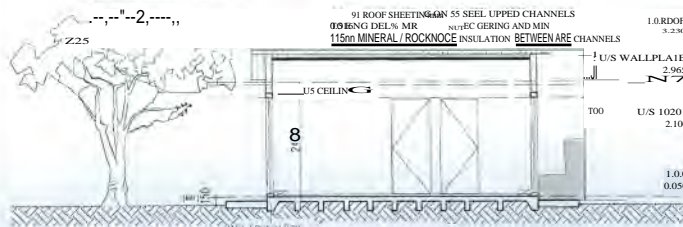
NORTH ELEVATION SCALE 1:100



SOUTH ELEVATION SCALE 1:100



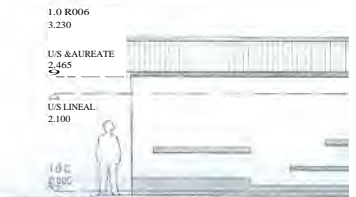
SECTION A-A SCALE 1:100



SECTION B-B SCALE 1:100



EAST ELEVATION SCALE 1:100



WEST ELEVATION SCALE 1:100

SANS 0900

4.1 Hot WatE

Water heatin

10254 & 102

All not water

44.3 Wert.

100mm mas.

4.4.4 Fitmstr

1:100

U.S WA

2.465

99.4 Roof ass

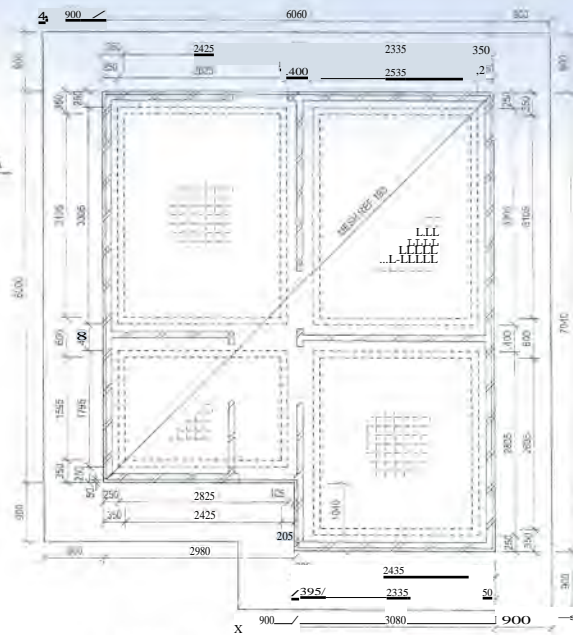
Climatic Cone

Eol assem.

Insulation rep

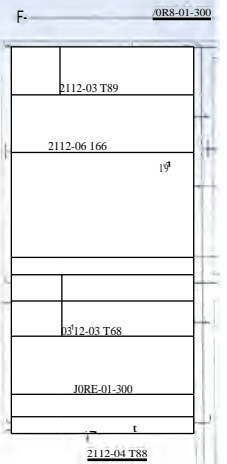
1:100

0.000



PLAN: FOUNDATIONS AND SURFACE BED

SCALE 1:50

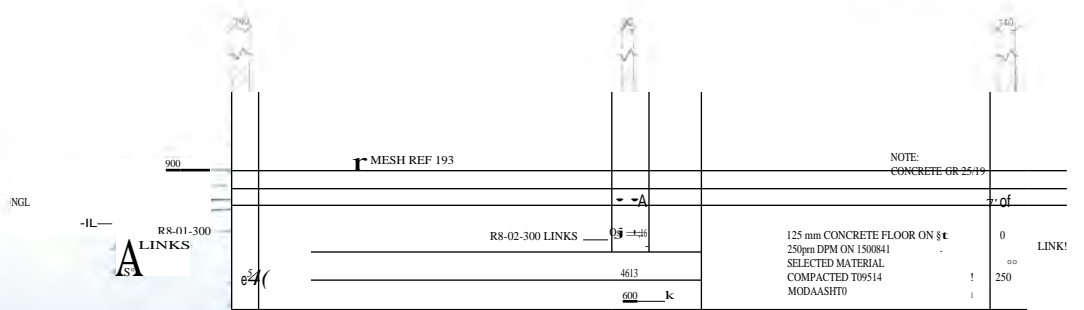


PLAN: REINFI

SCALE 1:50

NOTE:

1. ONE DCP TEST MUST BE CONDU 181 BELOW UNDERSIDE OF FOUN
2. IF ANY READING IS MORE THAN 4 MATERIAL MUST BE REMOVED.



SECTION A-A

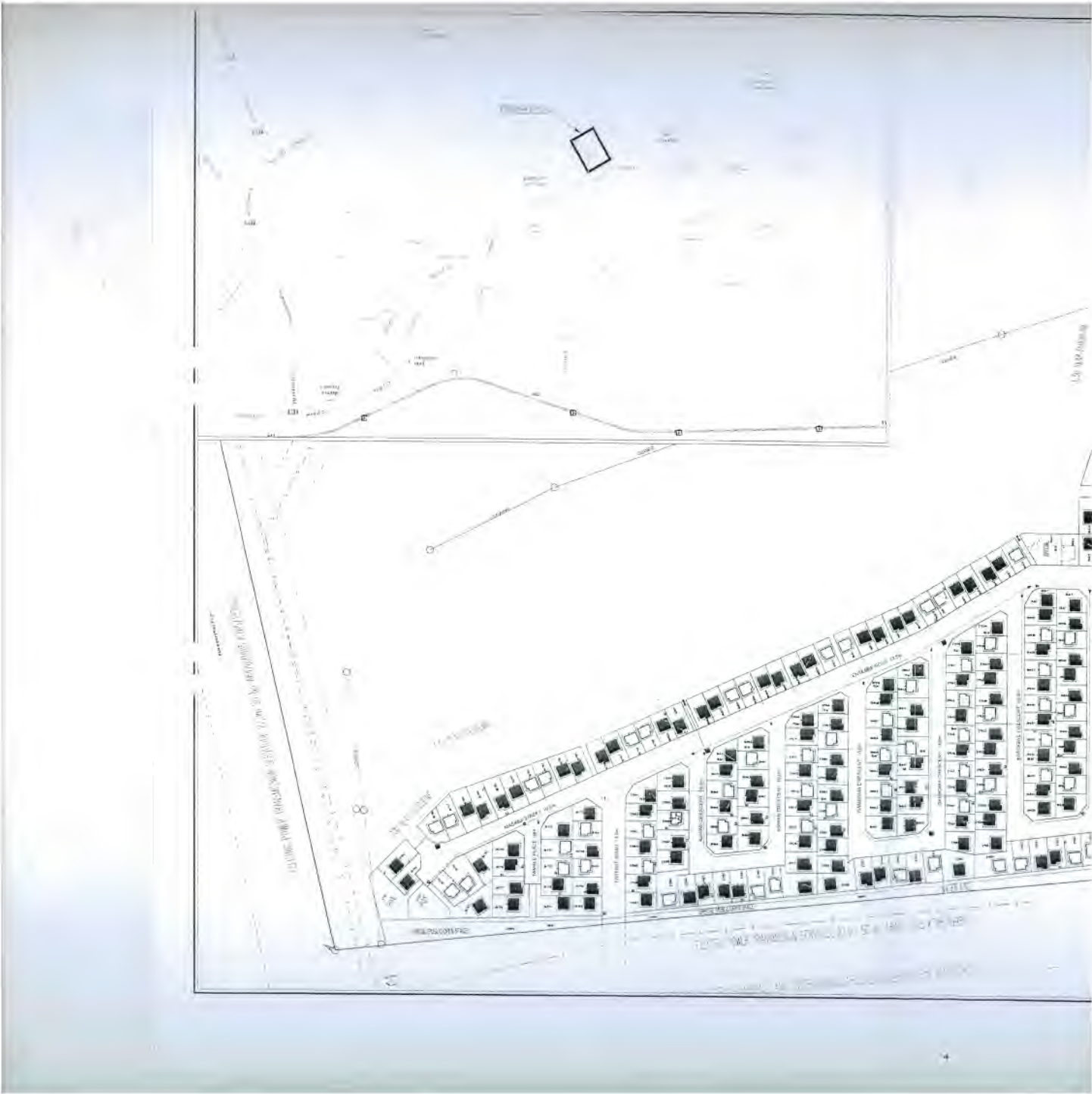
SCALE 1:25



Members	No. of Mbrs	Type & Size	No. of Bars	Cutting Length	Total Bars	Mark	Shape Code	A	B	C
RAFT	1	R8	86	1250	86	01	60	400	150	
	1	R8	44	1300	44	02	72	400	300	
	1	Y12	10	6150	10	03	35	5950		
	1	Y12	4	3350	4	04	35	3150		
	1	Y12	4	3150	4	05	35	2950		
	1	Y12	6	6100	6	06	35	5900		
	1	Y12	8	7150	8	07	35	6950		
	6	8	10	12	16	20	25	32	40	TOTAL
R	0	65	0	0	0	0	0	0	0	65
Y	0	0	0	161	0	0	0	0	0	161
TOT	0	65	0	161	0	0	0	0	0	226

PROJECT ETWATWA EXTENSION 35 HOUSING PROJECT		Reference Owg. No. SC03	Project No. J33064
DETAIL	UNIT TYPE*- STAND ALONE HOUSE AREA: 40m ² - FOUNDATION BENDING SCHEDULE	Designed By A MILES	Resnewea By P LOUBSER

This drawing is not to be used in whole, or part, other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and condone.



1.2 LIST OF APPROVED SITE PLANS

OCCUPATION CERTIFICATE		ETWATWA									
STAND	PTN I PLAN No	OCC. DATE	EST COST	AREA	EXT	DATE APPR	COMMENTS	BUILD	NOT BUILD	FOUND	2ND PLAN
36868	459/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36869	460/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36870	461/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				12444r-1S
36871	462/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				1344r-15
36872	463/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36873	464/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				13-Mar-1 S
36874	465/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				1341..15
36875	466/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				13-Mar-15
36876	467/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36877	468/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				13410143
36917	471/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36918	472/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36919	473/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36920	474/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36921	475/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36922	476/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36923	477/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36924	478/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36926	479/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36926	480/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36927	481/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36928	482/14		R 56,000.00	40	35	01-Apr-16	SUBMIT 12 MAY 2014				
36929	483/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36930	484/14		R 56,000.00	46	35	01-Apr-15	SUBMIT 12 MAY 2014				
36931	486/14		R 56,000.00	40	36	01-Apr-15	SUBMIT 12 MAY 2014				
36932	486/14		R 56,000.00	40	35	01-Apr-16	SUBMIT 12 MAY 2014				
36933	487/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36934	488/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36935	489/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36936	490/14		R 66,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36938	492/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				

OCCUPATION CERTIFICATE				ETWATVVA							
STAND	PTN	PLAN No	OCC. DATE	EST COST	AREA	EXT	DATE APPR	COMMENTS	BUILD	NOT BUILT FOUND	
36895		135/14		R 56,000.00	40	35	05-Mar-15	siesta 1.-FE82414			
36896				R 56,000.00	40	35	05-Mar-15	SUBMIT 144E12.2014			
36897		137/14		R 56,000.00	40	35	05 -Mar-15	Smarr 144E04014			
36898		138/14		R 56,000.00	40	35	05 - M ar-15	sum.. 14408.2014			
36899		139/14		R 56,000.00	40	35	05 - M ar-15	sueMIT 144E84014			
36900		140/14		R 56,000.00	40	35	05 Mar-15	SUBMIT 144E84014			
36901		141/14		R 56,000.00	40	35	05 - Mar-15	sum, *44E13.2014			
36902		142/14		R 66,000.00	40	35	05 - M ar-15	sue.....rFee.4.14			
36903		143/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 144013-2C14			
36904		144/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 14488.2014			
36905		145/14		R 56,000.00	40	35	05 -7, ar-15	SUBMIT 144E8.2014			
36907		146/14		R 66,000.00	40	35	05 Mar-15	sueonor 144E040.			
36908		147/14		R 66,000.00	40	35	05-Mar-15	SUBMIT 144E8.2044			
36909		148/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 144E8.2014			
36919		149/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 144E84014			
36911		150/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 14.20144014			
36912		151/14		R 56,000.00	40	35	05-Mar-15	suspar1CFEB.2014			
36913		152/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 144E9.2014			
36914		153/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 1.-Fee.2ola			
36915		154/14		R 56,000.00	40	35	05-Mar-15	WOW 14.ree.20...			
36916		155/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 144E84014			
36990		171/14		R 66,000.00	40	35	05-Mar-15	SUBMIT 14.F66.2014			
36991		172/14		R 56,000.00	40	35	05-Mar-15	sumerree.2oi.			
36992		173/14		R 56,000.00	40	35	05-Mar-15	sus....., ..ea.20.,			
36993		174/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 14E8.20.4			
36995		175/14		R 66,000.00	40	35	05-Mar-15	suemir 144E8.2014			
36996		176/14		R 56,000.00	40	35	05-Mar-15	SUBMIT144 E111.2014			
36997		177/14		R 56,000.00	40	35	05-Mar-15	swamr ..44E54014			
36998		178/14		R 56,000.00	40	36	05-Mar-15	stoma 14.FE0-2014			
36999		179/14		R 56,000.00	40	35	05-Mar-15	suabur1440.2014			
37000		180/14		R 56,000.00	40	35	05-Mar-15	SUBMIT 144E84014			

OCCUPATION CERTIFICATE			ETWATINA									
STAND	PTN	PLAN No	OCC. DATE	EST COST	AREA	EXT	DATE API: i	COMMENTS	BUILD	NOT BUILD	FOUND	2ND PLAN
36971		524/14		R 56,000.00	40	35	01-Apr-15	SUSMIR, 1 MAY 2014				
37027		525/14		R 56,000.00	40	35	01-Apr-15	SUEMIR +2 MAY 2014				
37028		526/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37029		527/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37030		553/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37031		528/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37032		529/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37033		530/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37034		531/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37035		532/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37036		533/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37037		534/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37038		535/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
L 37039		63 ⁸ /14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
I 37040		537/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37041		538/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37042		539/14		R 56,000.00	40	36	01-Apr-15	SUBMIT 12 MAY 2014				
37043		540/14		R 58,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37044		541/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37045		542/14		R 56,000.00	40	35	01-Apr-15	SUE 12 MAY 2014				
37046		543/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37047		544/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37048		545/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
37049		546/14		R 56,000.00	40	36	01-Apr-15	SUBMIT 12 MAY 2014				
37050		547/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
LA7051		548/14		R 56,000.00	40	35	01-Apr-16	SUBMIT 12 MAY 2014				

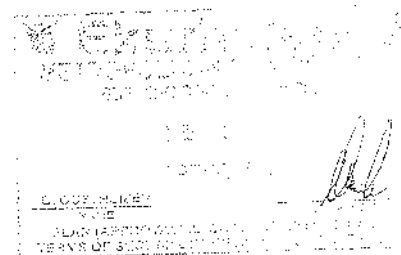
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!IDCCUPATION CERTIFICATE			ETWATWA									
ESTAND	PTN	PLAN No	OCC. DATE	EST COST	AREA	EXT	DATE APPR	COMMENTS	BUILD	NOT BUILD	FOUND	2ND PLAN
36919		493/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
16240		494/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
2.5j 21		495/14		R 66,000.00	40	35	01-Apr-15	motor, how 2014				
o. 12		196/14		R 56,000.00	40	35	01-Apr-15	sax, 12 MAY 2014				
6143		:97/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
5944		:98/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36945		:99/14		R 56,000.00	40	35	01-Apr-15	sumit 12 MAY 2014				
36946		500/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36947		501/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36948		502/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36949		503/14		R 56,000.00	40	35	01-Apr-16	SUBMIT 12 MAY 2014				
36950		504/14		R 56,000.00	40	35	01-Apr-15	suemir 12 MAY 2014				
36951		505/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36953		506/14		R 56,000.00	40	35	01-Apr-15	swim 12 MAY tom				
36954		507/14		R 56,000.00	40	35	01-Apr-15	sue... t 1214AV 2014				
36955		508/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36956		509/14		R 56,000.00	40	35	01-Apr-15	SUMMIT 12 MAY 2014				
36957		510/14		R 56,000.00	40	35	01-Apr-15	sumt 12 MAY 2014				
36958		511/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36959		512/14		R 66,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36960		513/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36961		514/14		R 56,000.00	40	35	01-Apr-15	suemir 12 MAY 2014				
36962		515/14		R 56,000.00	40	35	01-Apr-15	nem 12 MAY 2014				
36963		516/14		R 56,000.00	40	35	01-Apr-15	sumt 12 MAY 2014				
36964		517/14		R 56,000.00	40	35	01-Apr-15	suemir 12 MAY 2014				
36965		518/14		R 56,000.00	40	35	01-Apr-15	suemir 12 MAY 2014				
36966		519/14		R 56,000.00	40	35	01-Apr-16	suemir 12 MAY 2014				
36967		520/14		R 56,000.00	40	35	01-Apr-15	suemir 12 MAY 2014				
36968		521/14		R 56,000.00	40	35	01-Apr-15	SUBMIT 12 MAY 2014				
36969		522/14		R 56,000.00	40	35	01-Apr-15	suemir 12 MAY 2014				
36970	J	523/14		R 56,000.00	40	36	01-Apr-15	suemir 12 MAY 2014				

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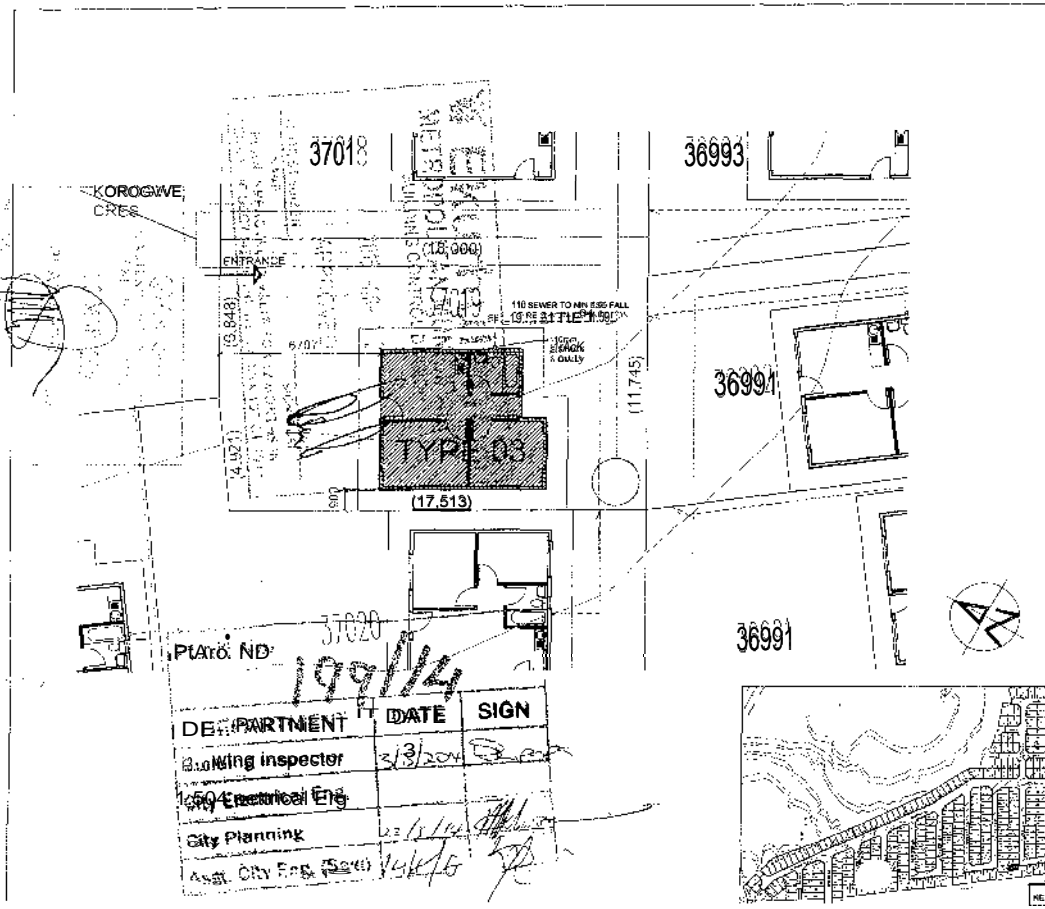
OCCUPATION CERTIFICATE ETWATWA

STAND	PTN PLAN No	OCC. DATE	EST COST	AREA	EXT	DATE	APPR	COMMENTS	BUILD NOT	BUILD FOUND
37001	181/14		R 56,000.00	40	35	05-Mar-15		SUBMIT FEB 2014		
37002	182/14		R 56,000.00	40	35	05-Mar-15		SUBMIT FEB-2014a		
37003	183/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14 FEB 2014		
37004	184/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 1a-FEB-2014		
37005	185/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14 FEB-2014.1		
37006	186/14		R 56,000.00	40	35	05-Mar-15		SONE, 14-FEB-2014		
37007	187/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37008	158/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37009	189/14		R 56,000.00	40	35	05-Mar-15		SANT 14.FEB-2014		
37010	190/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 1a-FEB-2014		
37011	191/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37012	192/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 1a FEB-2014a		
37013	193/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 1a-FEB-2014a		
37014	194/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37015	195/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37020	200/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37025	205/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37026	206/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		
37052	207/14		R 56,000.00	40	35	05-Mar-15		SUBMIT 14-FEB-2014		



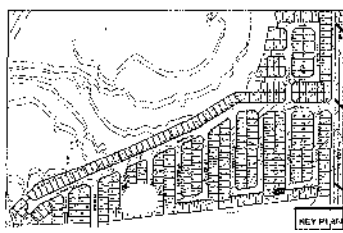
 Faded stamp and signature area, possibly containing a date and name.

**1.3 COPIES OF INDIVIDUAL APPROVED
SITE PLANS**



PLAT NO: 37020
199/14

DEPARTMENT	DATE	SIGN
Building Inspector	2/3/2014	[Signature]
Electrical Eng		
City Planning	22/11/14	[Signature]
Asst. City Eng. (Sewer)	14/1/16	[Signature]



AREA: ETWA
STAND NUMBER: 3

BENEFICIARY
HOUSE TYPE 03(M)

GENERAL NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
2. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
3. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
4. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
5. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
6. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
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9. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
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11. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
12. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
13. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
14. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
15. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
16. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
17. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
18. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
19. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm
20. ALL SEWER LINES SHALL BE 110mm DIA. WITH A MINIMUM COVER OF 1000mm

DRAINAGE NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
2. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
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11. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
12. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
13. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
14. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
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16. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
17. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
18. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
19. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES
20. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 110 MAIN SANITARY CODES

REVISION TABLE

NO.	DATE	DESCRIPTION

Ekurhuleni HUMAN SETTLEMENTS DEPARTMENT

ASA

NEW HOUSING DEVELOPMENT - ETWA EXT 35 FOR EKURHULeni METROPOLITAN MUNICIPALITY

SITE PLAN

NO.	DATE	DESCRIPTION

KEY PLAN



AREA: ETWATU

STAND NUMBER: 310.

BENEFICIARY

HOUSE TYPE 01(M)

GENERAL NOTES
 1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE TOWN AND COUNTRY PLANNING ACT, 1976 (ACT NO. 308 OF 1976) AND THE TOWN AND COUNTRY PLANNING REGULATIONS, 1977 (REGULATIONS NO. 193 OF 1977).
 2. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.
 3. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 4. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 5. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 6. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 7. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 8. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 9. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 10. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.

DRAINAGE NOTES
 1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE TOWN AND COUNTRY PLANNING ACT, 1976 (ACT NO. 308 OF 1976) AND THE TOWN AND COUNTRY PLANNING REGULATIONS, 1977 (REGULATIONS NO. 193 OF 1977).
 2. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.
 3. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 4. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 5. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 6. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 7. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 8. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 9. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.
 10. THE DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SERVICES (ELECTRICITY, WATER, SEWERAGE, TELEPHONE, ETC.) FROM THE RELEVANT AUTHORITIES.

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EKURHULENI HUMAN SETTLEMENT DEPARTMENT

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ASA

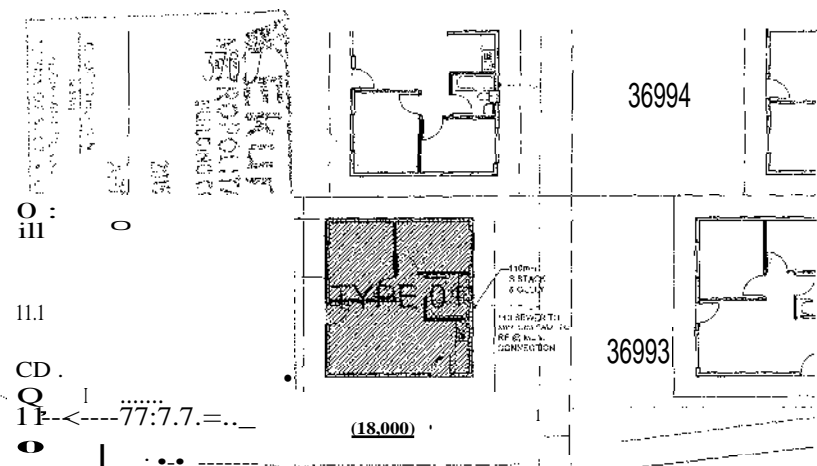
NEW HOUSING DEVELOPMENT - ETWATWA EXT FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN



1E3

04.3701001



PLAN NO. 198/14		
DEPARTMENT	DATE	SIGN
Building Inspector	23/14	[Signature]
City Electrical Eng.		
City planning	std /44'1	[Signature]
AFst.		

AREA: ETVI
STAND NUMBER:

BENEFICIARY

HOUSE TYPE 03

GENERAL NOTES
 1) ALL WORK TO COMPLY WITH THE NEIR BUILDING CODES.
 2) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS BE DETERMINED BY THE (DETRACTOR ON SITE) DISCREPANCIES TO BE REPORTED TO A/R/C/M.
 3) NO INOPATO BE CARRIED OUT WITH ANY WAY COMPROMISE, AND SUPPLIERS GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT.
DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE NEIR DRAINAGE ACCORDANCE TO or, 1) TO SATISFY WITH SANS 1024 (400) (SANS 1022 (WATER) & SANS 1000 (DRAINAGE)). ALL DRAINAGE BENDS & JUNCTIONS TO BE FITTED WITH LEO W/ MARKED COVERS AT GROUND LEVEL, PROVIDE I.E. THE START OF EACH DRAIN FAN AND FLE. AT EVERY 20m THEREAFTER.
 2) ALL DRAIN SIZES BY CIV. ENG. LAID WITH A MINIMUM FA. OF 1:80.

REVISION TABLE	
NO.	DATE



EKURHULENI HUMAN SETTLEMENTS DEPARTMENT

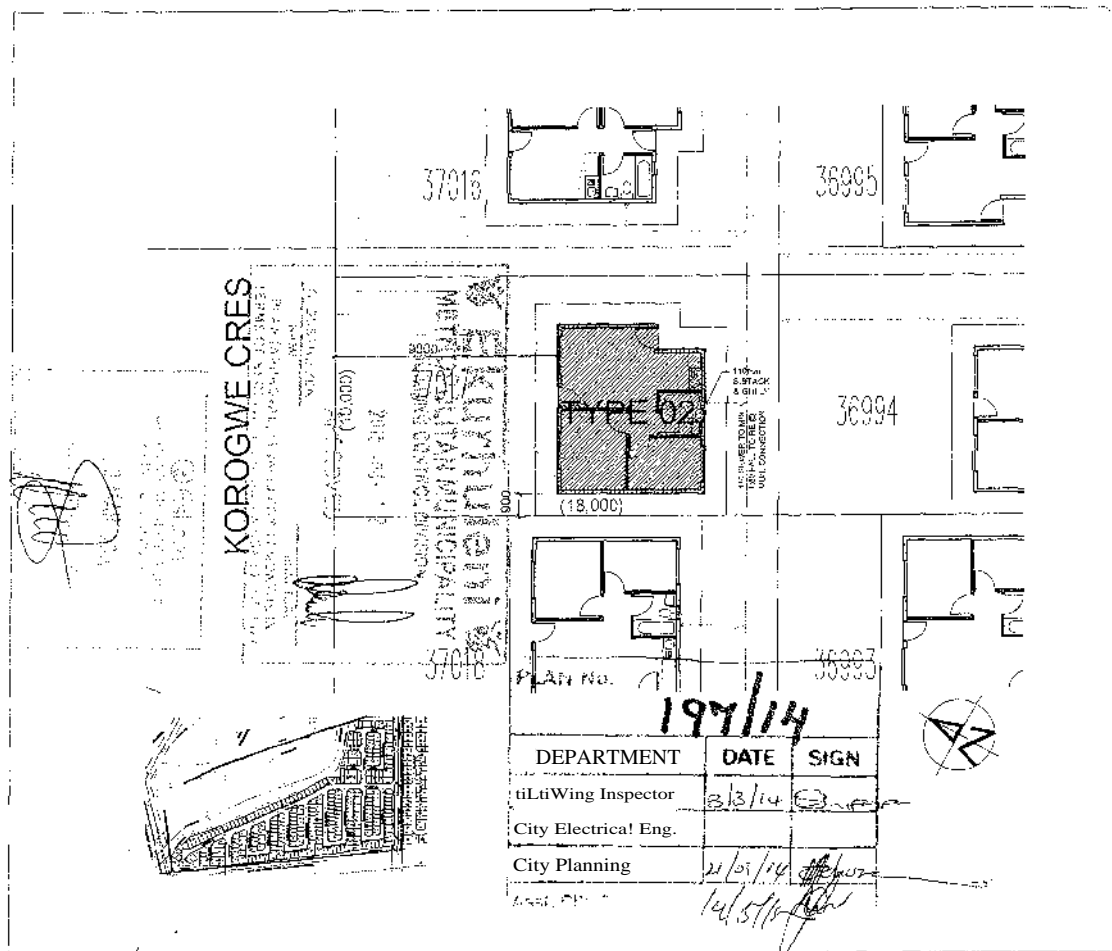
Ekurhuleni
 HUMAN SETTLEMENTS DEPARTMENT
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ASA

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NEW HOUSING DEVELOPMENT - ETWATINA EXT U FOR EKURHOLENI METROPOLITAN MUNICIPALITY

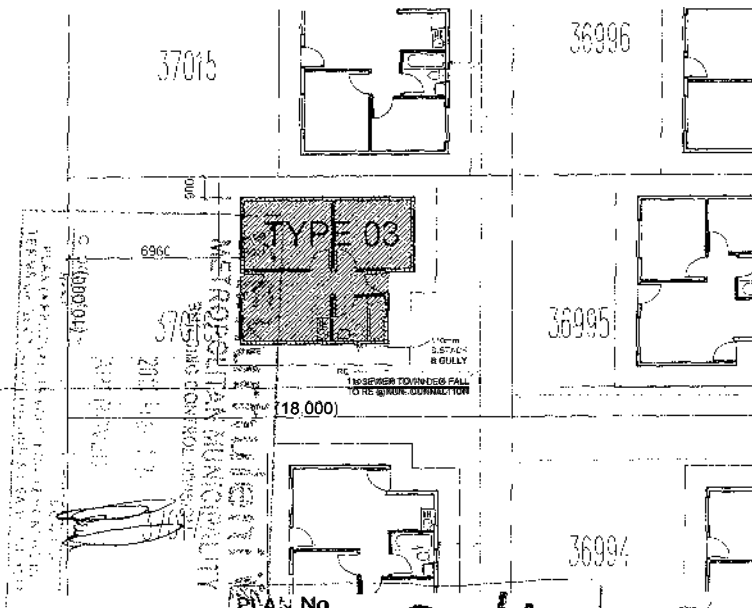
SITE PLAN

A71200	GMH	JAN 2014	AS
ETWA GS	043E017 01		



DEPARTMENT	DATE	SIGN
City Planning	21/01/14	[Signature]
City Electrical Eng.	3/3/14	[Signature]
City Planning	14/5/14	[Signature]

KOROGWE CRES



PLAN No. 196/14

DEPARTMENT	DATE	SIGN
City Electrical Eng.	3/3/14	[Signature]
City Planning	21/05/14	[Signature]
Asst. City Eng. (Sew)	11/06/14	[Signature]

AREA-EN

STAND NUMBER

BENEFICIARY

HOUSE TYPE 03

GENERAL NOTES

- 1) ALL WORK TO COMPLY WITH THE BUILDING CODE
- 2) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS TO BE DETERMINED BY THE LOCAL AUTHORITY ON SITE DISCREPANCIES TO BE REPORTED IMMEDIATELY
- 3) CONTRACTOR TO VERIFY ALL DIMENSIONS WITHIN ANY WAY COMPROMISES ANY SUPPLIERS GUARANTEE FOR THAT PRODUCT WITH THE ARCHITECT & ARCHITECT

DRAINAGE NOTES

- 1) ALL WORK TO COMPLY WITH THE NEW DRAINAGE IN ACCORDANCE TO THE CITY OF JOHANNESBURG (BYE-LAWS) & SPANS (2002) WATER, SANITATION & DRAINAGE
- 2) ALL DRAINAGE SYSTEMS TO BE INSTALLED TO THE START OF EACH DRAIN RUN AND R.E. TO AT LEAST EVERY 300 THEREAFTER
- 3) ALL DRAINS WED ST CIVIL ENG 4 LAD WITH A MINIMUM OF 800

REVISION TABLE

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	11/06/14
2	ISSUED FOR CONSTRUCTION	11/06/14



EKURHULENI HUMAN SETTLEMENTS DEPARTMENT

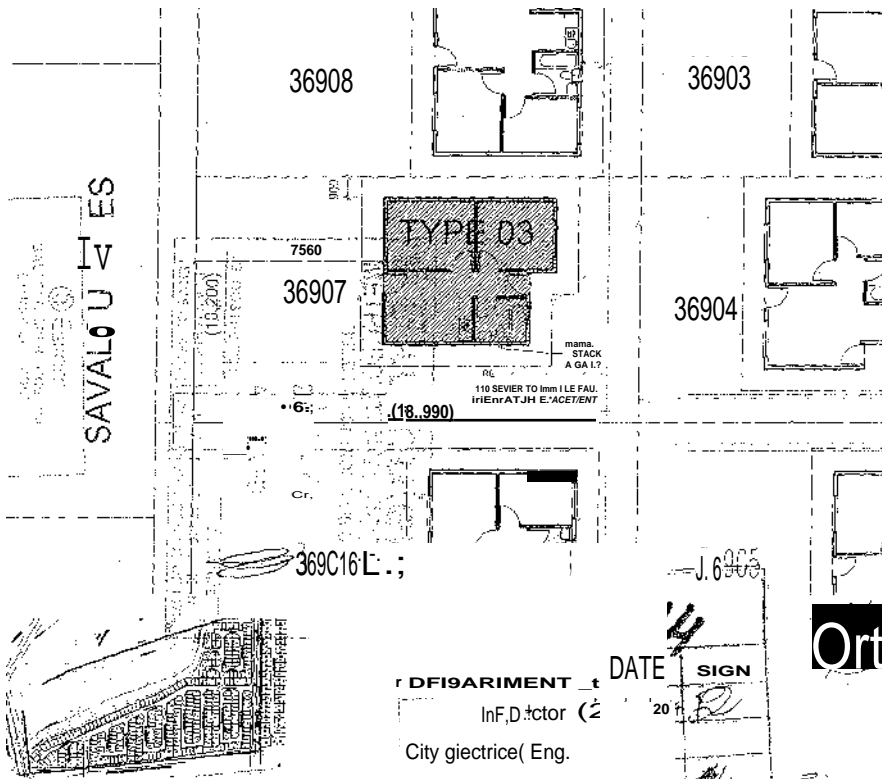
Ekurhuleni

120101-RESURFACING AND PAVING (2013)

PROJECT: NEW HOUSING DEVELOPMENT - ETWAIWANA EXT FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	11/06/14
2	ISSUED FOR CONSTRUCTION	11/06/14



AREA: ETWATWA
STAND NUMBER: 3690

BENEFICIARY
HOUSE TYPE 03

GENERAL NOTES
 NRE TO COMPLY WITH THE THE HER & HONG CODE
 JALL OFFERSATAS TO SI RI ITO WT SCA. F.
 IAEA LEVELEA OLENSOHS, maIGHTS OV. IH OE
 EXCAVATIONS, AND EARATER OF STEPS O S, DEIHTHT.S.T
 ET THE CCOMPACTOR OA smE OOCASFAAKrns+C SL
 REPORTED TO ARCH TEC.
 OHOWORR TOSE CARAMO .11 WHICH AI ANYWAY
 OFFERROMIES M¹¹ SUPELFERS GUARAHFEE FOR TVA?
 PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT

DRAINAGE NOTES
 Set WORM TO COWAN PATH Tnk THE HER 0000000
 ACCORDANCE TOMER TO SAIVE, 007H005'S.WSA
 IGETSERS) + SAPS HMI WATERS SAYS ICRE ERAREEMEE
 2) ALL OPAPRAGE MOS & RMC CHS MBE " FROWN/1
 RATH EARRES COVERS AT OKOURO LIVE. /KOWE RE AI
 THE START OA EACH MEN RUM AND RA MAT EVERY 2.
 THEREAFTER
 TIALE ORA. SIZED ST CITA Em0 at LAID MTH AF/ Yaw.. FN
 OF

REVISION TABUS

NO.	DESCRIPTION	DATE

EKURHULENI
 ipol HUMAN SETTLEMENTS
 DEPARTMENT

emornarm mumTamm.mme., H.A.

ASA

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HOUSE G DEVELOPMENT-MARNA Err 35
 NOTEKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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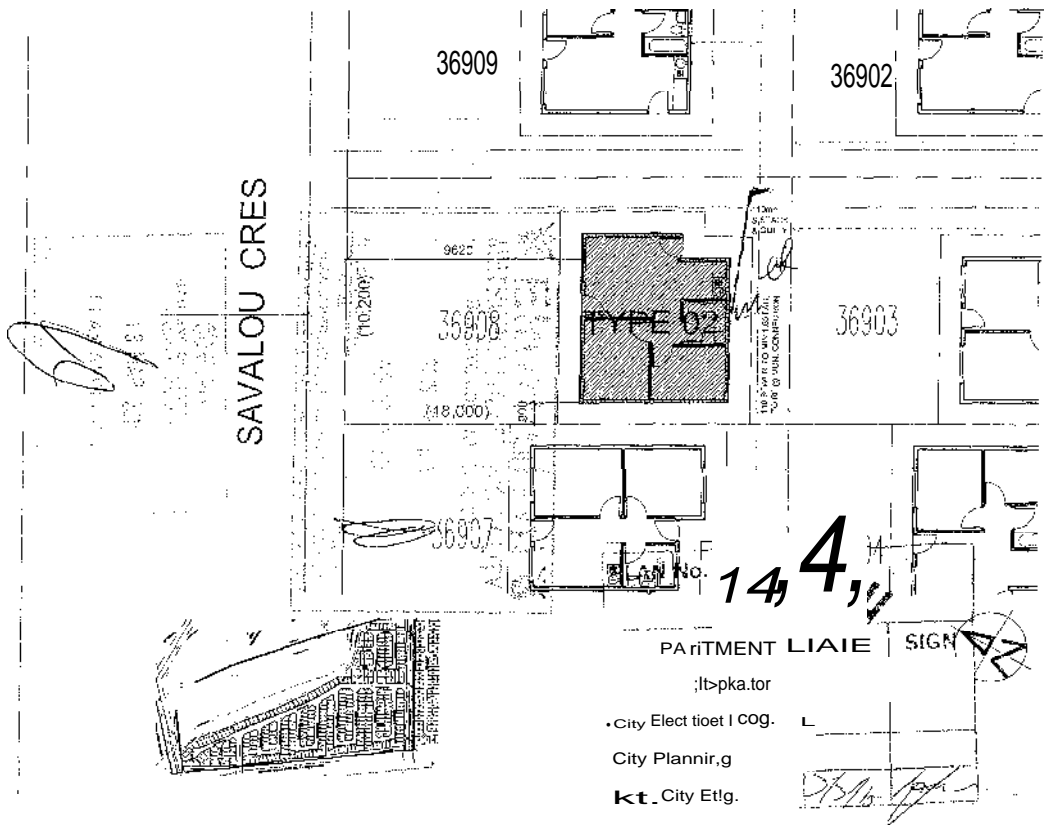
DATE SIGN

InF.D.tctor (2

City giectrice(Eng.

i City PieffniNg

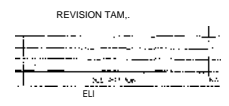
Asst. City E@. (Sew) Fitt-



AREA: Eh,
STAND NUMBL

BENEFICIARY
HOUSE TYPE 02

GENERAL NOTES
 1) ALL WORK TO BE DONE TO THE NEAREST MILLIMETER.
 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 3) ALL LEVELS, DIMENSIONS, HEIGHTS, MILLIMETERS.
 4) EXISTING WALLS, NUMBER OF STAIRS TO BE DEVERINED BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE REPORTED TO BECHT.
 5) ALL WORK TO BE CARRIED OUT WITHIN IN ANY WAY COMPROMISES TO SUPPLIERS GUARANTEE FOR PART PRODUCT BUT HOLD THE APPROVAL OF THE ARCHITECT.
DRAINAGE NOTES
 ALL WORK TO COMPLY WITH THE TNE NOR...AGE IN ACCORDANCE. DO NOT SATISFY PATH SANS 1025A (DISYERS) IS 5.5 11252 (W/PTZ) SANS MO (DRAINAG /ALL ORA... SENDS JUNCTIONS TO BE FITTED WITH MERGED COVERS AT GROUND LEVEL PROVIDE RE. d THE START OF EACH DRAIN R. AND R.E. AT EVERY 2. T.YEAFATER.
 ALL DRAINS S.D BY Civa ENG & LA.0 MTH A UJININ. OF ISO.



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HUMAN SETTLEMENT
DEPARTMENT

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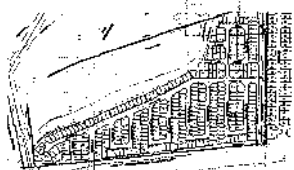
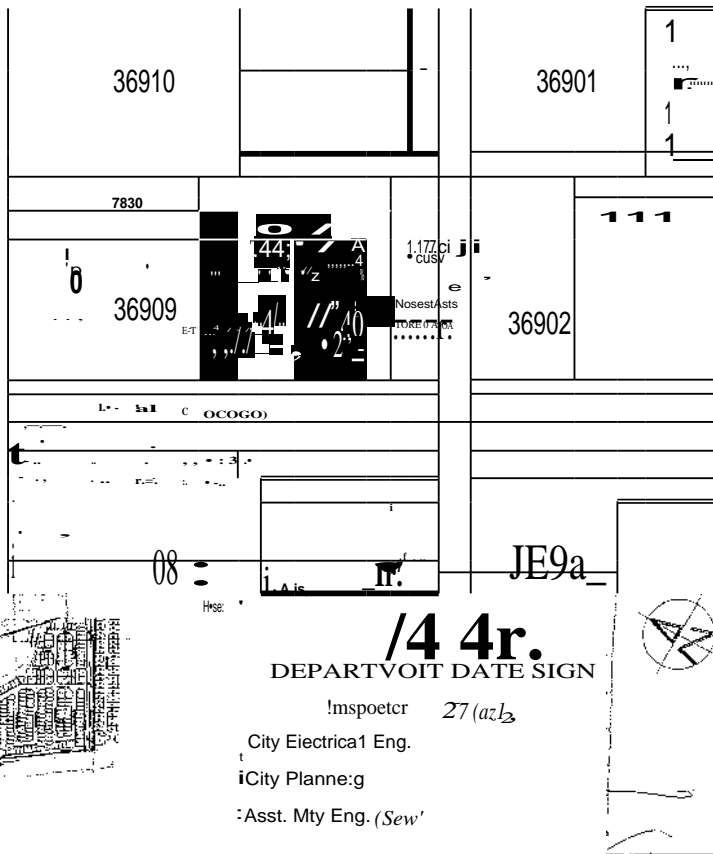
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IEW HOUSING DEVELOPMENT - ETWATWA EXT 3
OR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN
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SAVALOU CRES



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DEPARTVOIT DATE SIGN

!mspoeter 27 (az)z
City Electrica1 Eng.
iCity Planne:g
:Asst. Mtg Eng. (Sew'

STAND N.

BENEFICIARY
HOUSE TYPE 01(M)

GENERAL NOTES
ALL WORK TO COMPLY SAM THE THE HIM Sd 0510 CODES
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IST THE CONTRACTICH ON SITE INSCRPAK/ES10 RE
REPORTED TO ARCHITECT
JAW WORK TOV "ANNS" OIT VAUCH "JAWWAY
CCARTROHES ab" S-PAL MRS CASARAMTSE POP MAT
PNTOTICTO TIBOUT THE APPROVAL OF THE ARCHITECT
DRAINAGE NOTES
WIBI TOGS... WITH THE OCT MR ORANAOE P.
ACC MOAKI TO OZEH TO SAHSTN VAT. SANS MS.
IEE - 8511 E HAK MET TOA IER. C SAHA HIMS (CARNAGE
ZUCK - 501.1001 DE 505 JUNCTIONS TORE FROM 711TH II
0510 057KED COVERS AT ORISONS LEVEL. PROVORA A
SEA L1070 01 EACH ORAN. 111.0 ARI R.S. AT EMBH 2871
THEAT. E.
II. ALL OR. 36e0 BY CV11. Ewo LAO Wm. • Imam. AA FA
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REVISION TABLE

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HUMAN SEULEMENT:
DEPARTMENT

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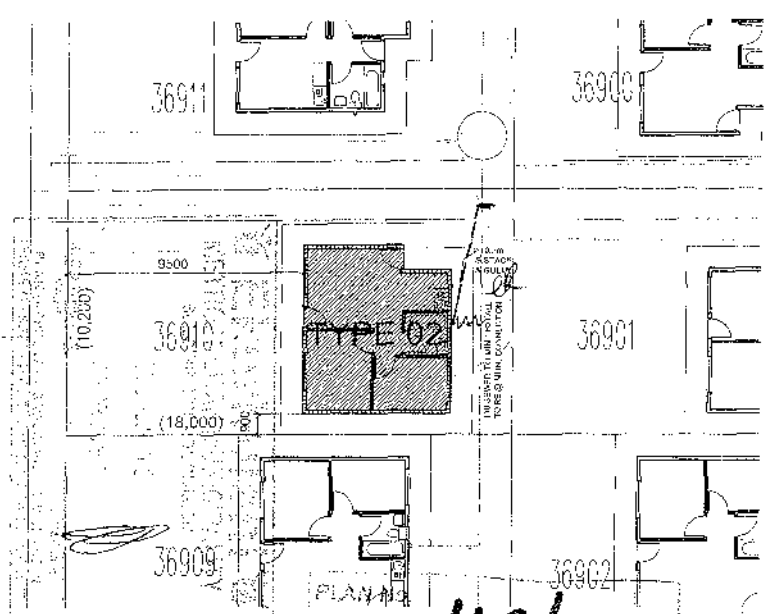
NEW HOUSISIG DEVELOPMENT • ETWATWA EXT 35
FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN



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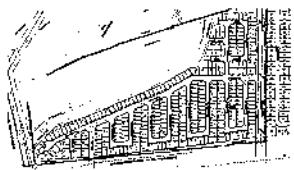


AREA: h
STAND NUMBEn.

BENEFICIARY
HOUSE TYPE 02

- GENERAL NOTES
- 1) ALL WORK TO COMP. OV. T.I. THE NBR BUILDING CODES
 - 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 - 3) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, ANY NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE TO ARCHITECT.
 - 4) NO WORK TO BE CARRIED OUT MOWN ANY WAY COMPROMISES ANY SUPPLIERS GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT
- DRAINAGE NOTES
- 1) ALL WORK TO COMPLY WITH THE THE MR DRAINAGE IN ACCORDANCE TO P.M TO SANS 10284
 - 2) (OE YSERS) e. SANS 10252 (WATER) 6 SANS 10004 (0.014A0E)
 - 3) ALL DRAINAGE JOINTS TO BE FITTED WITH I.E.0 WITH MARKED COVERS AT GROUND LEVEL PROVIDE R.E. AT THE STANT OF EACH DRAIN RUN AND RA., AT EVERY 05r. THEREAFTER.
 - 4) ALL ORA NS SIZED BY CIVIL ENGA LAID WITH A MINIMUM FAU OF 1:60

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PLAN 10

149/14

DATE	SIGN
27/02/2014	<i>[Signature]</i>
20/05/14	<i>[Signature]</i>

REVISION TABLE	
NO.	DESCRIPTION

1:1 HUMAN SETTLEMENTS DEPARTMENT

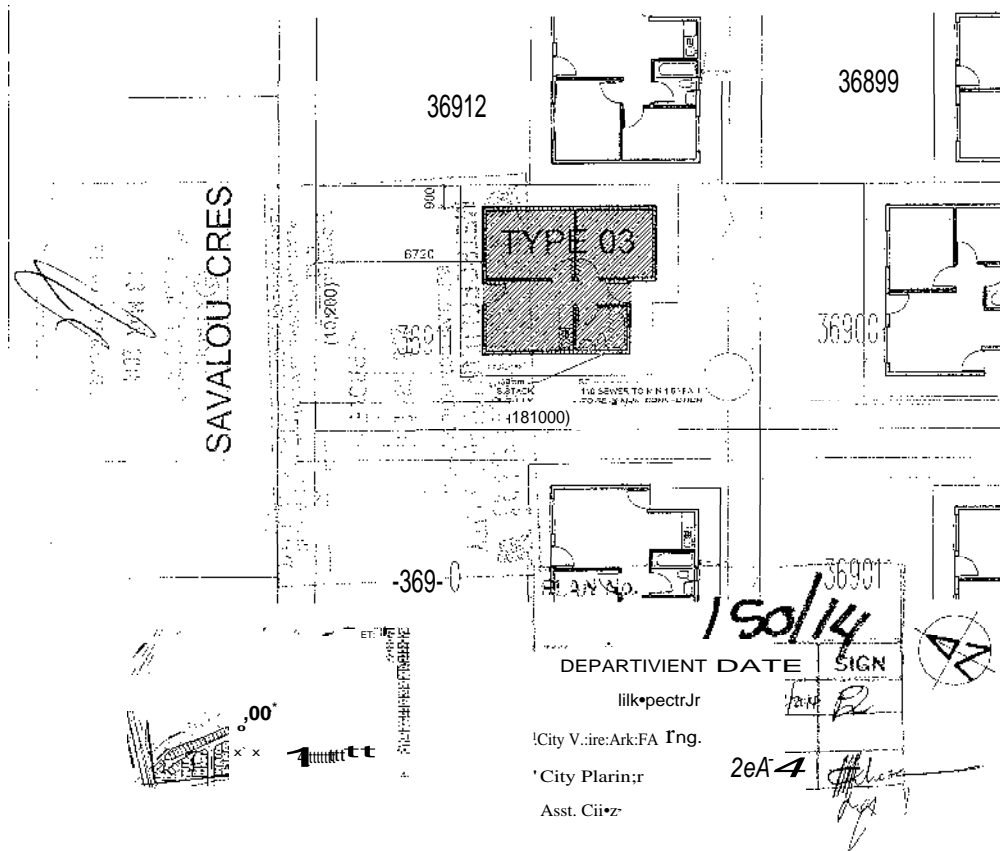
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NEW HOUSING DEVELOPMENT - ETWATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN
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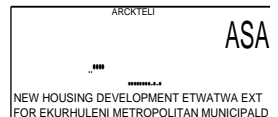
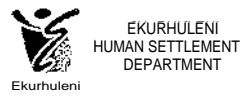


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BENEFICIAR)
HOUSE TYPE

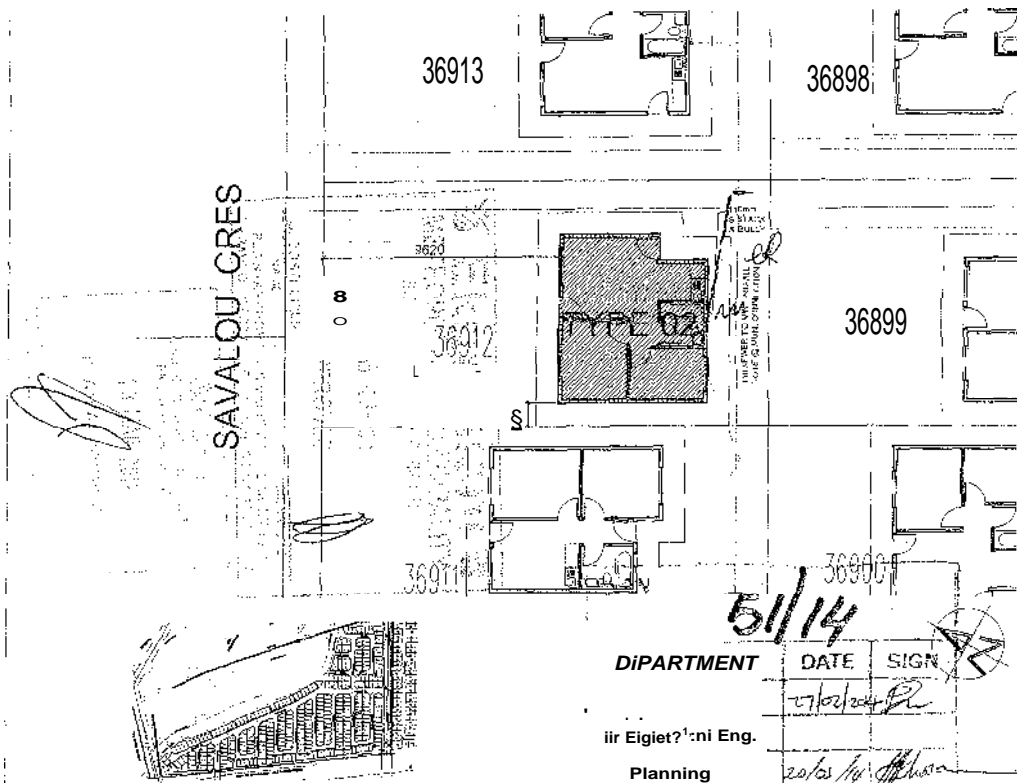
GENERAL NOTES
 1) ALL WORK TO COMPLY WITH THE TOWN OR BUILDING CODE.
 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 3) ALL LEVELS, OFFSETS, POSITIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 4) NO WORK TO BE CARRIED OUT WITHOUT THE APPROVAL OF THE ARCHITECT.
DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE TOWN MUNICIPAL DRAINAGE CODE ACCORDANCE TO DEEMED TO SATISFY BOTH SANS 1040 (GEYSERS), SANS 1032 (WATER) & SANS 1040 (DRAINAGE MALL, TRAPS, BEADS & JUNCTIONS TO BE PITTED WITH 114 LE WITH MARKED COVERS AT GROUND LEVEL PROVIDE REFERENCE TO START OF EACH DRAIN RUN AND R.E. 1 AT EVERY CORNER AFTER.
 2) ALL DRAINS SIZED BY GIBB ENGINEERING WITH A VINSALUM FACTOR OF 1.25

REVISION TABLE	
NO.	DESCRIPTION
04/01/2011	



NEW HOUSING DEVELOPMENT ETWATWIA EXT FOR EKURHULENI METROPOLITAN MUNICIPALITY

NO.	DATE	BY	FOR
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STAND NUivh..

**BENEFICIARY
HOUSE TYPE 02**

GENERAL NOTES
 A... (VORIL TOGAWLY MTH TIC THE OR W.H.ONG GOOF
 INA DRAENSONS TO BE READ 00 NOT SCALE
 ALL LEVELS, DIMINSIONS, HEIGHTS, DEPTH OF
 EAGVATIONS, AND HINDER OP STEPS TORE DEIERANM
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 ONO WORN TORE CHARIEDOLI vov. si ANT WA -
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 PROONAT TATNOUT THE APPROVAL OF THE ARCHITECT
DRAINAGE NOTES
 I) ALI WA, TO CONCH, wan TOR THE ERR. OPANAOR
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**EKURHULENI
HUMAN SETTLEMENT
DEPARTMENT**

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NEW HOUSING DEVELOPMENT - ETWATWA EXT 3
 FOR EKURHULENI METROPOLITAN MUNICIPALITY
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SITE PLAN

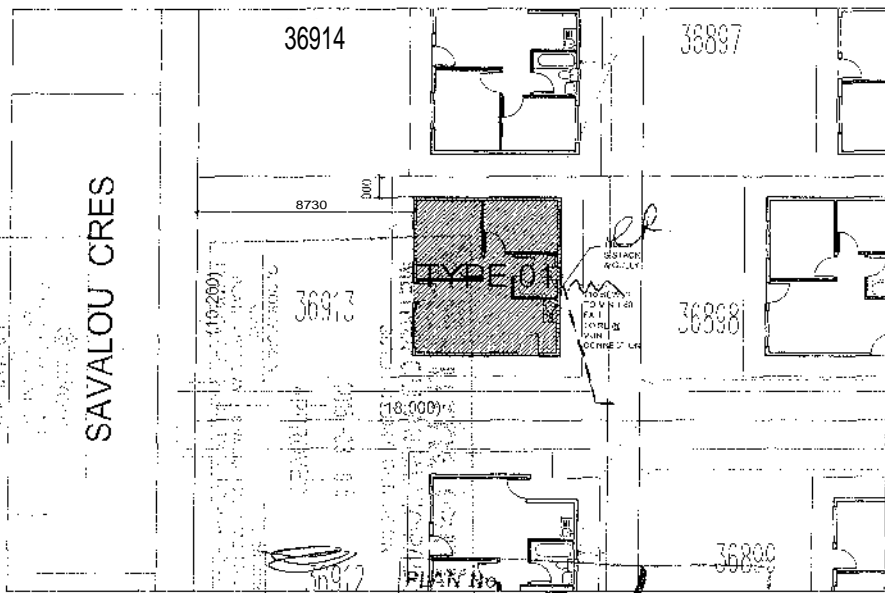
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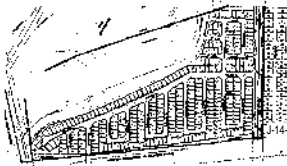
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Planning	20/05/14	[Signature]
	13/15	[Signature]

5/1/14



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152/14
 DEPARTMENT! DATE SIGN
 Author: n. n. pattor 20/05/14 Akijj
 City Eng: Oric: il Eng.
 City Mar: 20/05/14
 Asst. City (58-w) 17/04

AREA: E1
STAND NUMb.

BENEFICIARY
HOUSE TYPE 01(M)

GENERAL NOTES
 ALL WORK TO COMPLY WITH THE IHE No. / AuFOIND moss
 (ALL ENRIEMMANS TO BE R200) NOT SCALE
 ALL LEVELS, DIMENSIONS, MEAS. DEPTH OF
 EXCAVATIONS AND NUMBER OF STEPS TO BE DETERMINED
 BY THE CONTRACTOR ON SITE. DISCREPANCIES TO BE
 REPORTER TO ARCHITECT
 1) NO WORK TO BE CAMEO OUT WHICH IN ANY WAY
 COMPROMISES ANY SUPPLIERS GUARANTEE FOR THAT
 FROM: WITHOUT OLE APPROVAL OF THE ANCHTECT
DRAINAGE NOTES
 ALL DRAINAGE TO COMPLY WITH THE NPR OF ANGE I
 ACCORDANCE TO SEEM TO SATSIFY WITH SANS 10255
 85000005) A SANS 10252 (WATER) 5 PANS 10000 (DRAINAGE)
 2) ALL FRANKA, SENDS & JUNCTIONS TO BE FIN ED VATA LEN
 WITH MAILHEL COVERS AT GROUND LEVEL. PROVIDE 15.E AT
 THE START OF EACH GRAN FILM AND EA AT EVER: 20m
 THEREAFTER.
 3) ALL DRAINS BRED eV CIVIL ENG 6 1.13 VA, A NAM/ FAO
 OF 1:50

REVISION TABLE

EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT

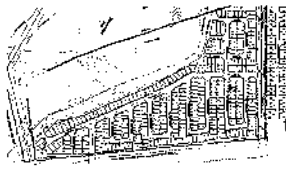
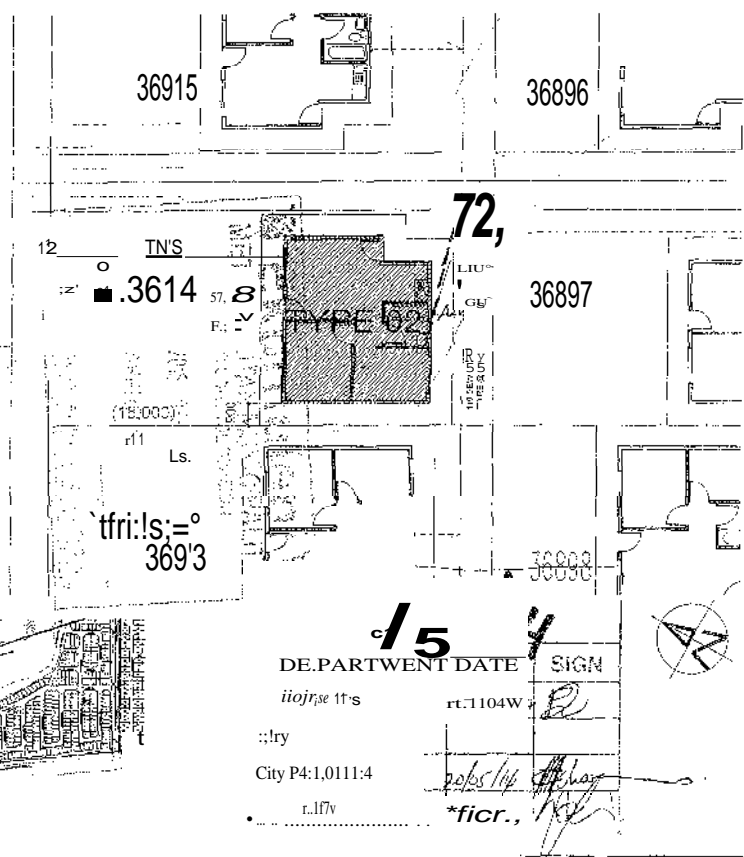
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NEW HOUSING DEVELOPMENT - E1WATWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN
<p>1:200 1/200</p> <p>TWA 35</p>



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DEPARTMENT DATE SIGN
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STAND 1.

**BENEFICIARY
HOUSE TYPE 02**

GENERAL NOTES
 WOOD, SO COW, MD THE RODER O.D.O.D0 C0015
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 3/4 LEVELS, OWEWORKS ROLLIES, DE NEW
 ILNCANTIONS, MO MANED 04 STEPS TO M 09-2, D50E",
 BY IDE COOMAMA ON SOS ENSEDEDADOSS 10E",
 REPORTO TOPALCERECT.
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 \$500.11 W. M. J. I. E. APPROVAL OF THE ADO, CRECT

DRAINAGE NOTES
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 EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT

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NEW HOUSING DEVELOPMENT • ETWATWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

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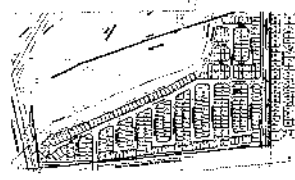
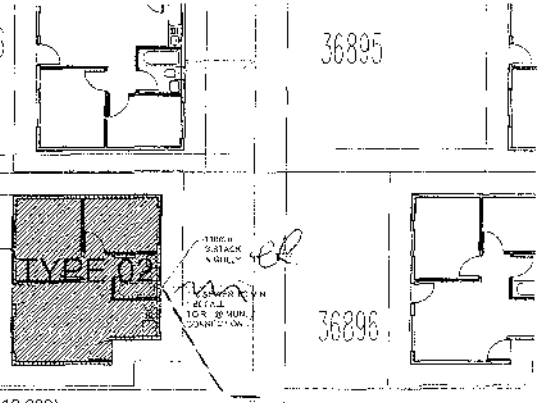
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DEPARTMENT	DATE	SIGN
City Electrical Eng.	27/02/2014	[Signature]
City Planning	26/02/14	[Signature]
Asst. City Eng. (S...)	27/02/14	[Signature]



AREA: ETWATWA EX1.
STAND NUMBER: 36915

BENEFICIARY
HOUSE TYPE 02(M.)

GENERAL NOTES
 ALL WORK TO COMPLY WITH THE HER BUILDING CO
 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE
 3) ALL 2E 16, 09, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

PROVISION 78.2

NO.	DATE	DESCRIPTION

Ekurhuleni HUMAN SETTLEMENTS DEPARTMENT
 15/1/14

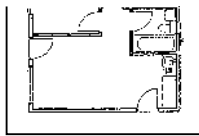
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NEW HOUSING DEVELOPMENT - ETWATWA EX7 FOR EKURHULENI METROPOLITAN MUNICIPAL

SITE PLAN

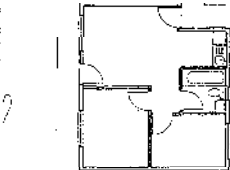
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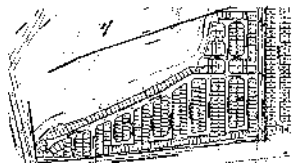
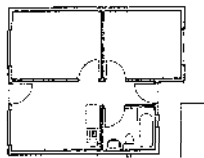


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APPROVED
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BUILDING...
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1 LPARTNIENT
Building inspector
City ON:tricot Eng

DATE SIGN
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SAVALOU CRES



BENEFICIAK

HOUSE TYPE 03(%, ,

GENERAL NOTES
1. WOODWORK TO BE 18MM
2. FILL WITH...
EXCAVATIONS...
AL NO WO. LO RE CARRRO 0, L.A. R4 ANYWAY
CONROLESSES ANY 60901 QUARATREE FAR THAT
PRODUCT WITHOUT T. A.R., Oc THE ARCHITECT

DRAINAGE NOTES
1. AL...
2. ALA DRA.C. MN. if ... TO. TON PIOTSO OTTO 01:6
WHOI ALORTIO COVERS AT GR. LEVEL R AT
T. ALAPTER.
RI ALL IALAINS fanner ovn F. LAO mix A Leozaks
OF COO.

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EKURHULENI
HUMAN SETTLEMENT:
DEPARTMENT

ASA

10/24
NEW HOUSING DEVELOPMENT • ETWATWA EXT
FOR EKURHULENI METROPOLITAN MUNICIPALITY
011.10.44

SITE PLAN
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CA 36E99.01

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SAVALOU ORES

BENEFICIAK

HOUSE TYPE 03(M)

GENERAL NOTES
 1) ALL WORK TO COMPLY WITH ONE THE N. BOWING 00000.
 2) ALL DIMENSIONS TO BE READ 00 NOT SCALE.
 3) ALL LEVELS, MEANS'S, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STERS TO BE DETERMINE BY THE CO./ FRACTOF ON SITE DISCREPANCES TO BE REPORTED TO ARCHITECT.
 4) NO PORTN TO BE CARRIED OUT WHICH IN ANY WAY COMPROMISES ANY SUPPLIERS GUARANTEE FOR THAT PRODUCT WITHOL THE APPROVAL OF THE ARCHITECT.

DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE THE NBR DRAINAGE NAL ORD. TO -1 TO SATISFY WITH SANS 10400 (OR SANS 10400) (OR SANS 10400) (OR SANS 10400) (OR SANS 10400)
 2) ALL FINS & JUNCTIONS TO BE FITTED WITH WITS VS ***0 COVERS AT GROUND LEVEL PROVES, R.E. THE STA'S OF EACH DRAIN RUN AND REV AT EVERY 20M THEREAFTER.
 3) ALL DRAINS WED BY CIVIL ENG 6.6) WITH A MINIMUM FALL OF 1ES.

REVISION TABL

EKURHULENI
A. HUMAN SETTLEMENT;
DEPARTMENT

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ASA

NEW HOUSING DEVELOPMENT, ETWATWA EXT NT
FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

NO.	DATE	BY	REVISION
1	15/02/14	ASA	1
2	25/02/14	ASA	2
3	04/03/14	ASA	3

110 SEWER TO MIN 1.0 FAL
Opt 911-6.4Y CONNECT

TYPE 03

DLPART

DATE SIGN

Inspector

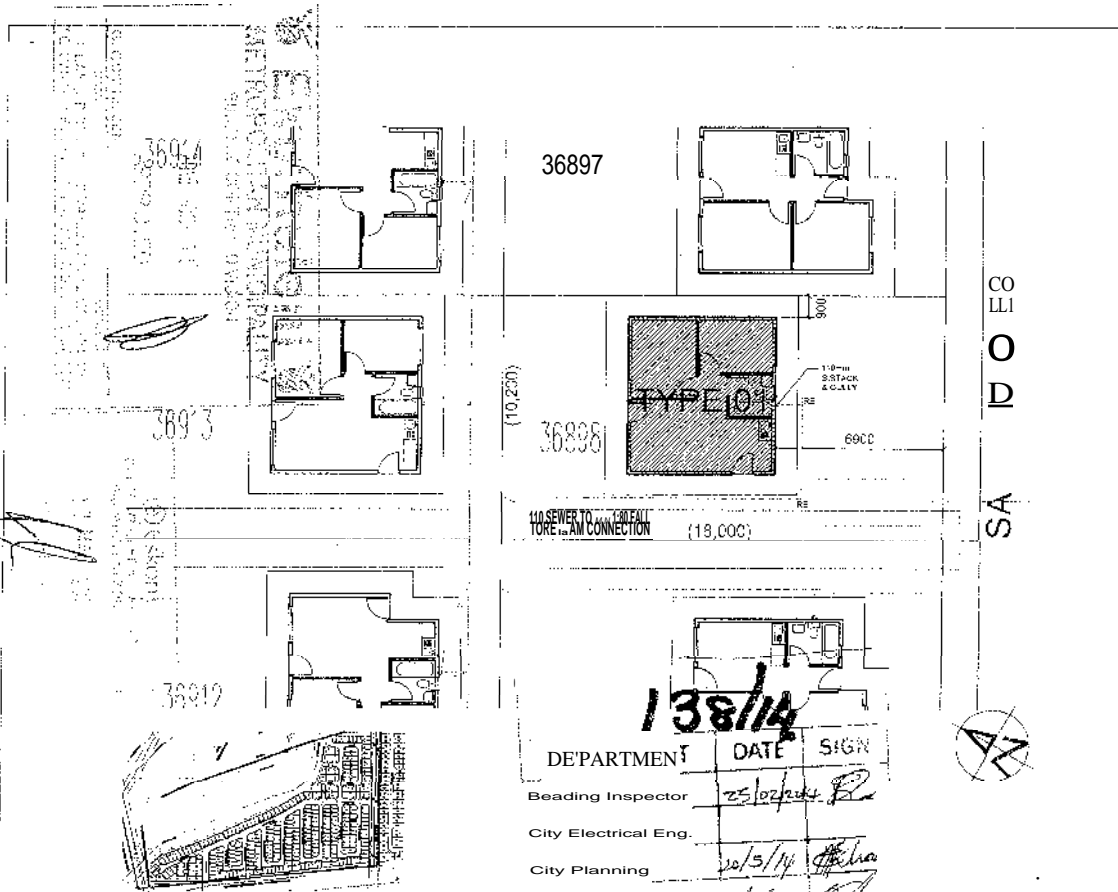
25/02/14

City Elet-tftfil Eng.

City Planning

04/03/14

08/01/15



AREA: ETWATUEXI
 STAND NUMBER: 36898

BENEFICIARY

HOUSE TYPE 01(M)

- GENERAL NOTES
- 1:1 50025 TO C0.2
 - 2: ALL DIMENSIONS TO BE READ: DO NOT SCALE
 - 3: ALL DIMENSIONS, HEIGHTS, DEPTHS OF EXCAVATION AND ADJAGES OF STEPS TO BE DETERMINED BY REPORT: C02145501-014 ON SITE DISCREPANCIES TO BE REPORTED TO THE ARCHITECT
 - 4: INC. RA. MG Rm. IN ANY WAY
 - 5: PHA JOA TYPE APPROVAL OF THE ARCHITECT DRAINAGE EES
 - 6: ALL V. W. THE THE NSR DRAINAGE IN ACC. DEEM TO SATISFY SANS 10281 (Gan. v-1S 102 SANS 11,01 DRAINAGE)
 - 7: ALL DRAINAGE MARKERS TO BE WITH LE. MARKERS AT GROUND LEVEL. NOE R.F. A. TOE START OF SALA DRAIN RUN AND R.E.S.A. VERY JS. HEREAFTER
 - 8: ALL DRAINS WEED PIT CIVIL ENO SI AIO WITH A MINIM. FAI OF ISO.

ION TABLE

EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT

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ASA

NEW HOUSING DEVELOPMENT - ETWATWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

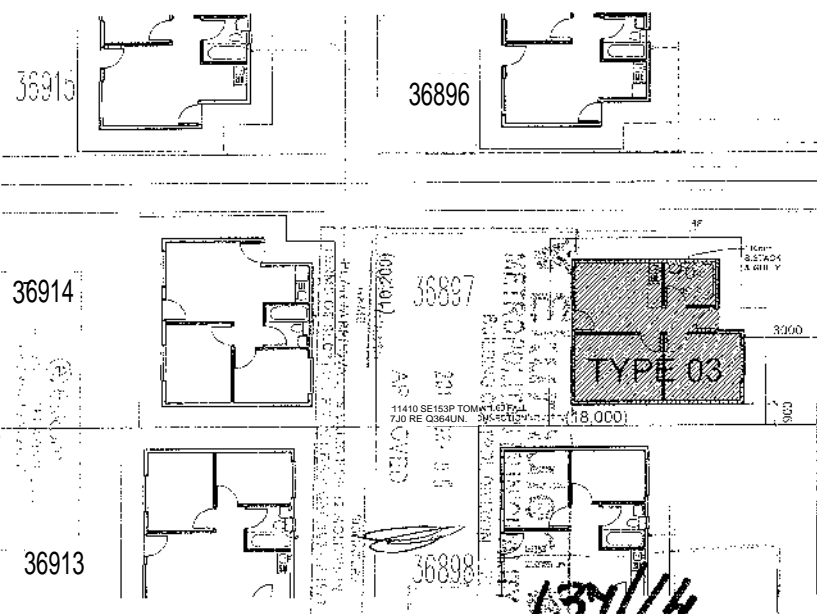
SITE PLAN

200 GMH JAN. 2014

ETw.4 04 36898.01

138/14

DEPARTMENT	DATE	SIGN
Beading Inspector	25/02/14	[Signature]
City Electrical Eng.	20/3/14	[Signature]
City Planning	2/8/10	[Signature]
Asst.		



SAVALOU ORES

AREA: at ..

STAND NUMBL

BENEFICIARY

HOUSE TYPE 03(M)

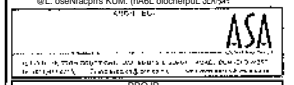
GENERAL NOTES
 1) ALL WORK TO COMPLY WITH THE NBN BUILDING CODES
 2) DIMENSIONS TO BE READ, DO NOT SCALE
 3) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR. SITE DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 4) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY COULD PROMISE A SUPPLIER'S GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT

DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE NOT DRAINAGE ACCORDANCE TO DEEM TO SATISFY WITH SANS 10234 (KEYS E) & SANS 10263 (WATER), SANS 10400 (DRAINAGE) & SANS 10263 (WATER). SANS 10400 (DRAINAGE) MAINTAIN DRAINAGE BENDS & JUNCTIONS TO BE FITTED WITH MARKED COVERS AT GROUND LEVEL. PROVIDE R.E. AT THE START OF EACH DRAIN RUN AND R.E. AT EVERY 250 THEREAFTER.
 2) ALL MAINS SIZED BY CIVIL ENG 6 LAID WITH A MINIMAL SLOPE OF 1:100.

NO.	REVISION	DATE	BY	CHKD.



EKURHULENI HUMAN SETTLEMENTS DEPARTMENT
 EEkurhuleni
 @L.oseNtramps KUM. (nAbL olonreput. SE) 541



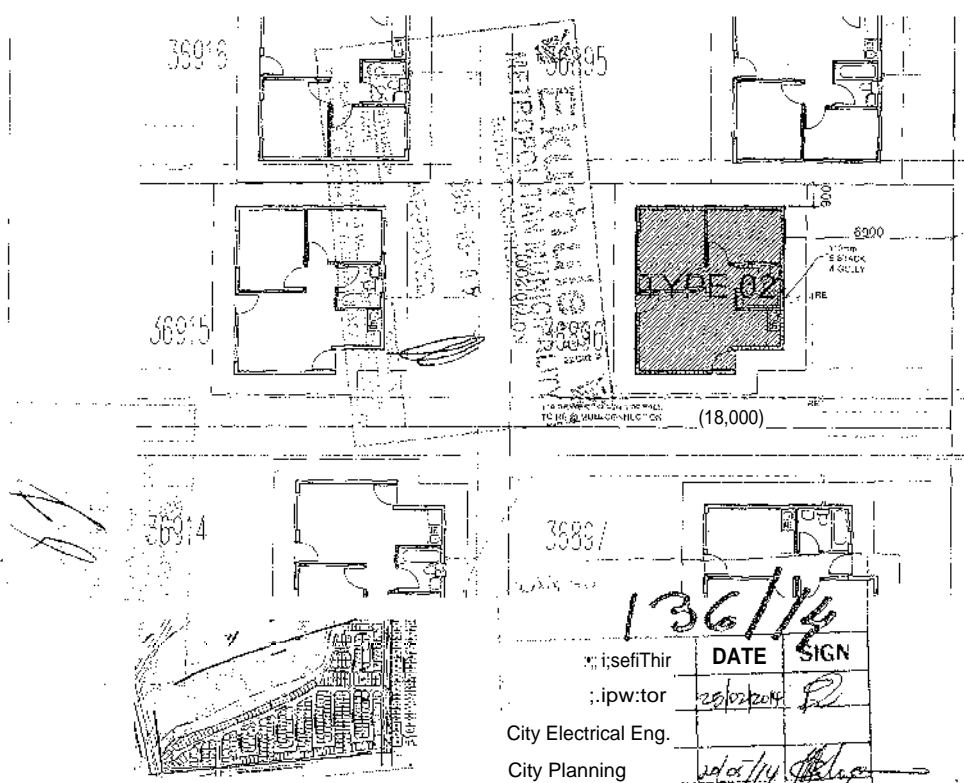
PROJ. NEW HOUSING DEVELOPMENT - ETNATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN			
Scale: 1:200	Drawn: GMB	Rev: 01	Date: 20/11/14
Project No: 1371/14	Drawn: GMB	Rev: 01	Date: 20/11/14

DESCRIPTION	DATE	SIGN
City Lic. C1 (rCO) Erg.	20/12/2014	[Signature]
City Pil. V1	20/11/14	[Signature]
Asgl. C1-5	20/11/14	[Signature]

1371/14





Handwritten initials/signature.

DATE	SIGN
20/02/14	[Signature]
20/02/14	[Signature]
21/3/15	[Signature]

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AREA: ETWA
STAND NUMBEN.

BENEFICIARY
HOUSE TYPE 02(M)

GENERAL NOTES
 1. TO COOKY. 1v 11-0111E AM RU COME
 2. OMIENSONS TO BR MAD, CO NOTE.
 3. Lw., ovEHENs. BH715.00. CF
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 BY TL CONTR. TOR ON SITE DISCROI -VOES TORE
 REDUKTED TO ARCHTECT
 4. ISU WORS TOW CAREER. DT DICOR ANY WAY
 CU W TIDASEI AN. 30R14RS ORARAMMI at TART
 DROVIL. 300101001 APPROVAL 01-TOE ARO. IET

DRAINAGE NOTES
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 2. 3. H252. V1A743474241103. IDRA- AAOO
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 VAN 4.00 CUS ATSKRAA. OIEMEVE. PRONIDC n E
 TM. STATO OF MA RAMA FUN ARO REY AT EVERY Y.
 THERACRE
 JAALL. TWA. WOO BY C-V M EAR S LAO vna A ML.. CNA
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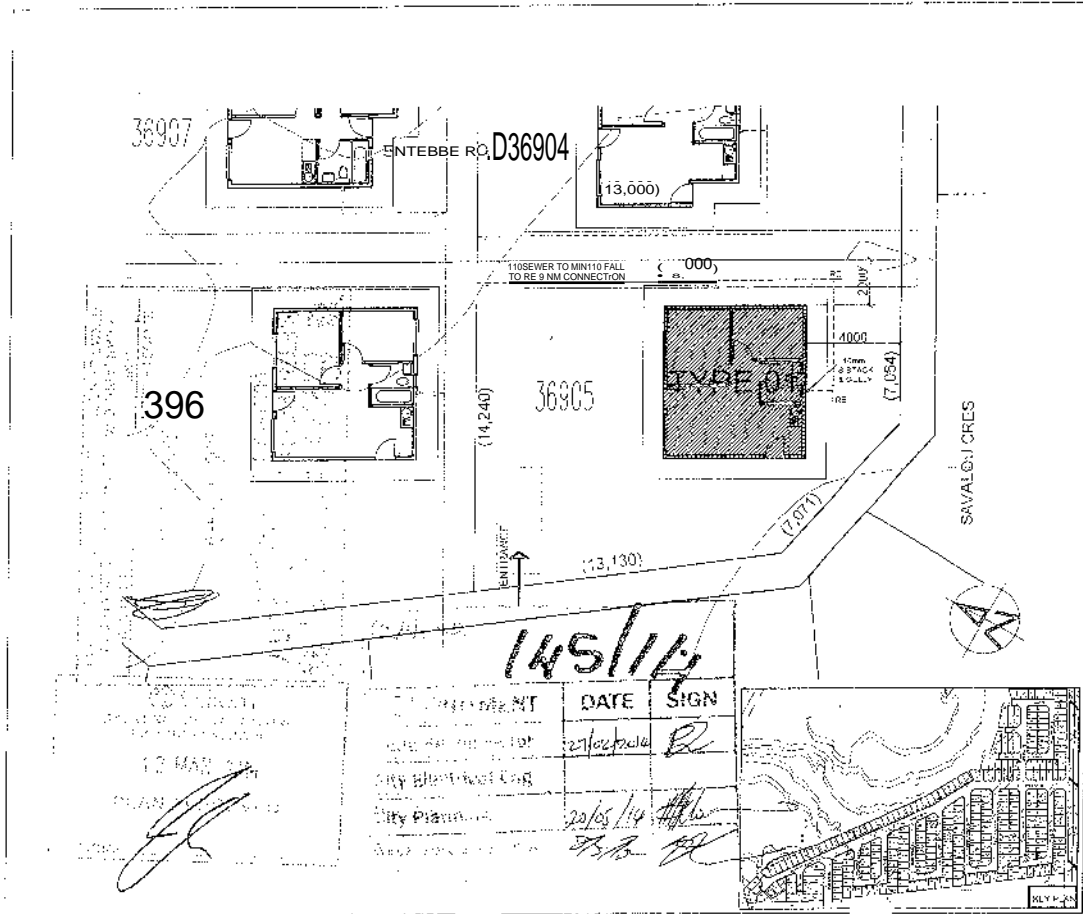
N EKURHULENI
HUMAN SETTLEMENTS
DEPARTMENT

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NEW HOUSING DEVELOPMENT • EPNAIWA EU 35
FOR EKURHULENI METROPOLITAN MUNICIPALITY

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STAND NUMB.

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HOUSE TYPE 01(M)

GENERAL NOTES

1. ALL DIMENSIONS TO BE READ DO NOT SCALE

2. ALL DIMENSIONS TO BE READ DO NOT SCALE

3. IS. H.M.S. DEPT. OF CALCUTTA AND NUMBER OF E. E. TO BE GET. C. H. E. BY THE C. H. E. TO BE DISCREPANCIES TO BE REPORTED TO ANM.

4. 0.0 V. TO GO OUT WHICH IN ANY WAY

5. CHANGES AND E. E. TO BE GET. C. H. E. TO BE DISCREPANCIES TO BE REPORTED TO ANM.

DRAIN

1. ALL DRAIN WITH THE THE NBR. DRAINAGE IS APPROXIMATE TO POLY. C. H. E. TO BE GET. C. H. E. TO BE DISCREPANCIES TO BE REPORTED TO ANM.

2. ALL DRAIN. 0. BESS. JUNCTIONS 1000 FT. WITH 10.1

3. ETZ T= 7.174', 31rA1MITZgyll, T THEREAFTER

4. NE DRAINS SIZED 8" CIVI ENG. S. 10 WITH n. FALL OF 1:50

REVISION TABLE			
NO.	DATE	DESCRIPTION	BY

Ekurhuleni HUMAN SETTLEMENTS DEPARTMENT

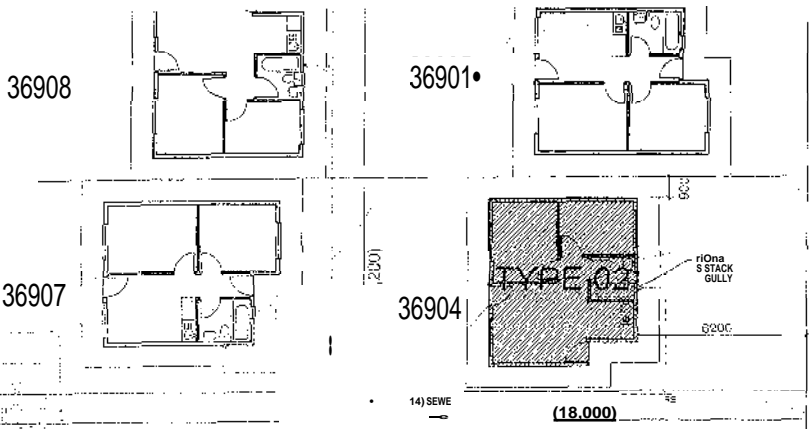
ASA

NEW HOUSING DEVELOPMENT - ETWATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

DATE	12 MAY 2014
BY	
FOR	
BY	
FOR	

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AREA: E
STAND NUM.

BENEFICIARY
HOUSE TYPE 02(M)

GENERAL NOTES
 1A) WORK TO COA, wax TO INC)S'tao-ll COX 3
 SI AU. ONAENSONS TO PS READ 00 NO I 3C4S.
 A) ALL ONENSIONS: PRIG-03, 05FTN OF
 EXCAVATIONI. MAGER OF STEPS TO BE 0E'ER.040
 13" THE CONTRACTOR ALE SITE TESCREFANCIES TOSE
 REPORT!!
 q. WORK TO BR QARREO COT YAIZN IN ANT WAS
 QDAPROBES MAY SUNI, ENS GUARANM FOR OCT
 NROOMCT. NDMOUT TNG APPROVAL OF no MOAT.:
DRAINAGE NOTES
 1) ALL .0.1 TO CORKY Mom RIG ITN NRE. DRAINAGE
 ACC-COWICS TOSSSES TO 3, 13F-WRY SANS 10051
 IOATNATSIS SANS 13332 CAA -FR. Sv. 3 X. (SNA NAGE
 21.0.2 MANAGE BENDS AS-CT. TO BE FITTEN WITHCI
 WFN WAGED COVERS AT ENDING LOVE) PROPOS TEST
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HUMAN SETTLEMENTS
DEPARTMENT
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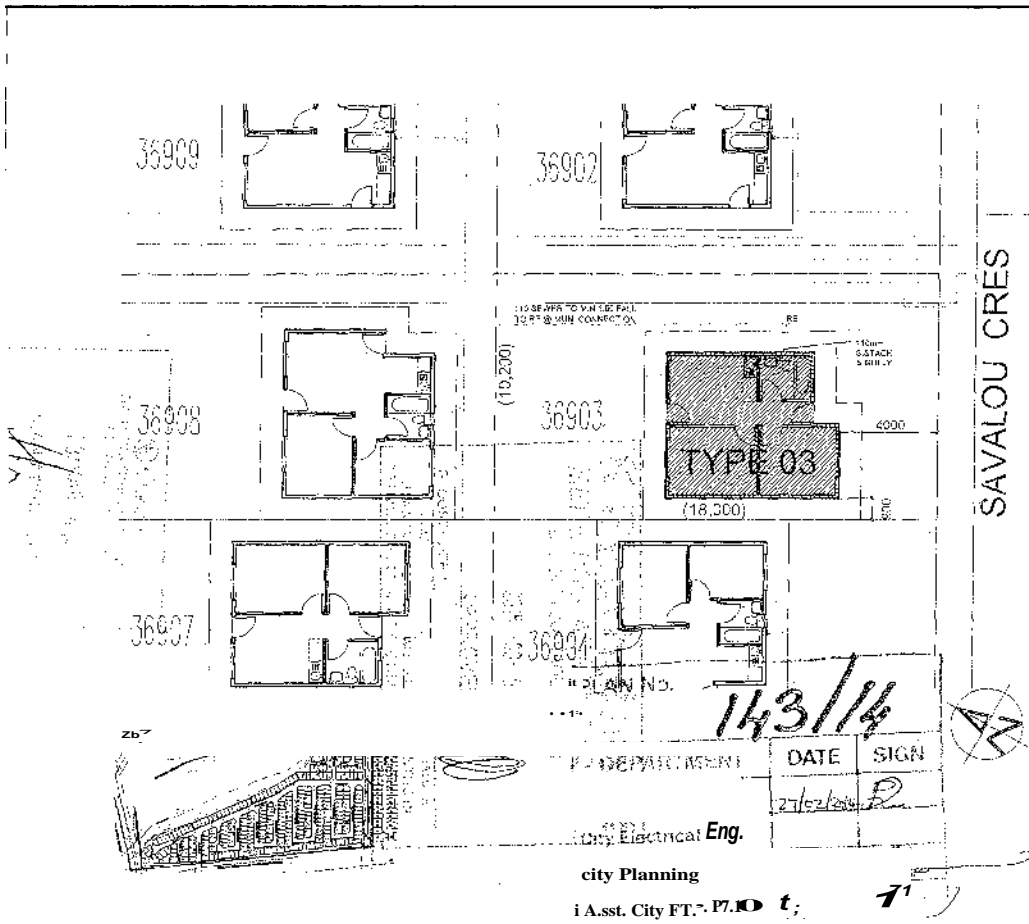
NEW HOUSING DEVELOPMENT- EIWAV/VA EXT 35
FOR EKURHULENI METROPOJTAN WINICAPALRY

SITE PLAN	
Scale: 1:200	GAIN JAS. 2014 AS
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BENEFICIARY

HOUSE TYPE 03(M)

GENERAL NOTES
 1. ALL WORK TO COMPLY WITH THE THE HER BOUM COCEE
 2. ALL SHEDS TO BE READ DO NOT SCALE
 3. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
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 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.

DRAINAGE NOTES
 1. ALL WORK TO COMPLY WITH THE THE HER BOUM COCEE
 2. ALL SHEDS TO BE READ DO NOT SCALE
 3. ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
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 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.

REVISIONS			
No.	Description	Date	By

Ekurhuleni
 HUMAN SETTLEMENTS
 DEPARTMENT
 Ekurhuleni
 ETIWAIAWA EXT 3S
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

ASA
 HOUSING DEVELOPMENT - ETWAIWA EXT 3S
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

DATE	14/03/14
BY	ASA

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M9/14

HO BERM TO NW ISO FALL TO RE NWA COSINE TION (18,000)

SAWALOUORES

AREA: Eli.
STAND NUMb.

BENEFICIARY
HOUSE TYPE 01(M)

- GENERAL NOTES
- 1) ALL WORK TO COMPLY WITH THE IHE NSIR BUILDING CODES
 - 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE
 - 3) ALL IONE, DIMENSIONS, OHM DEPTH OF CAVATIONS, ANN NSMBER OF S IMPS TO BE DETERMINED BY THE CONTRACTOR ON SI, DISCREPANCIES TO BE REPORTED TO ARCHIE
 - 4) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY COMPROMISES ANY SUPPLIERS GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT
- DRA [NAGE NOTES
- 1) ALL WORK TO COMPLY WITH THE MR. DRAINAGE IN ACCORDANCE TO DEEM TO SATISFY WITH SANS IBS (GESSER) SONS 10000 MATER, S SANS INSDRAINAGE
 - 2) ALL DRAINAGE BENDS & LINCT,ONS TO BE F, WITH LES WITH RIGROSD BENDS AT GROUND LEVEL, PROVIDE R.E. AT THE START OF EACH DRAW RUN AND KEST AT EVERY 25W THEREAFTER
 - 3) ALL DRAINS SITED BY CIVIL E. A LAID WITH A AIWA. FA, OF MG.

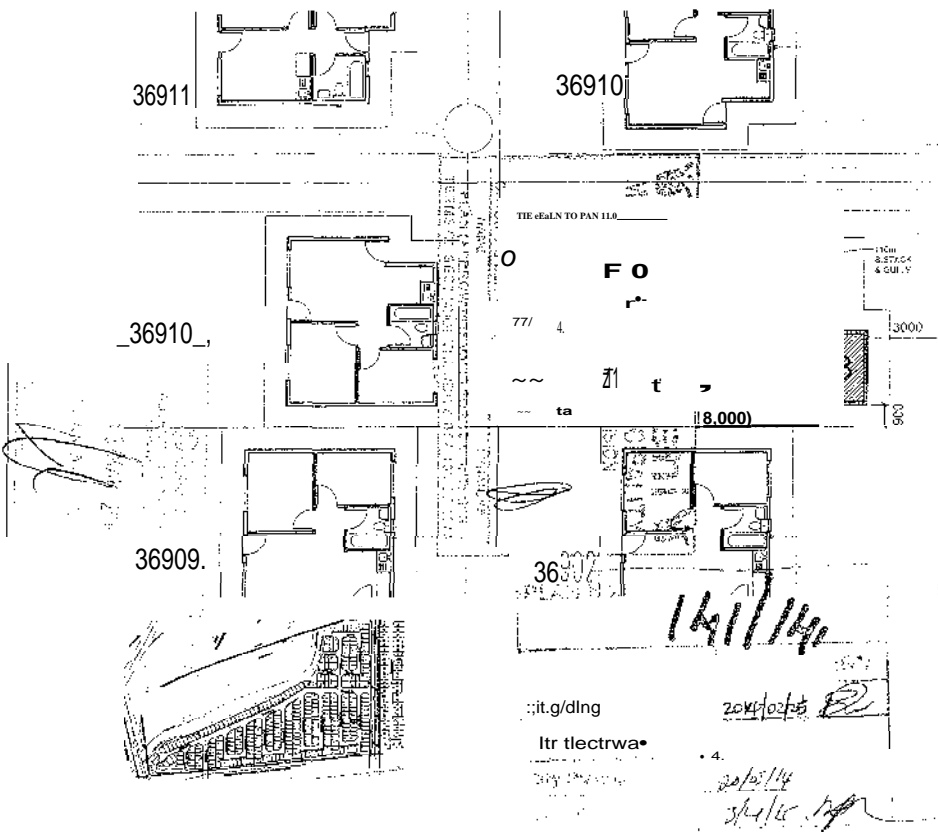
REVISION TABLE	
NO.	DATE



EKURHULENI
HUMAN SETTLEMENTS
DEPARTMENT

Ekurhuleni

ARCHITECT		ASA	
NEW HOUSING DEVELOPMENT - ETWATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY			
SITE PLAN			
DATE	SCALE	NO.	REVISED
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PROJECT NO.	CLIENT	DATE	SCALE
11/11/14	04/30001.01		



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BENEFICIARY
HOUSE TYPE 03(M)

GENERAL NOTES
 ALL DIMENSIONS TO FACE WITH TOLERANCE AS PER CODES.
 ALL DIMENSIONS TO BE READ ON NOT SCALE.
 ALL LEVELS TO BE AS SHOWN. NEONTS, OOP, CE
 ELEVATIONS, AND FINISHES TO BE CONFIRMED BY
 THE CONTRACTOR ON SITE ON RECEIVING TO BE
 REPORTED IMMEDIATELY.
 4. NO WORK TO BE DONE WITHIN 3000mm OF
 COMPROMISE AND SUPPLY GUARANTEE FOR THAT
 PRODUCT AND NOT THE APPROVAL OF THE ARCHITECT

DRAINAGE NOTES
 ALL DRAINAGE TO COMPLY WITH THE TOE NSA 0411A06
 ACCORDANCE TO DESIGN TO SATISFY THE SANS 1041
 (MATERIALS SANS 1041) AND SANS 1041-2000
 SHALL DRAINAGE SENSITIVE JUNCTIONS TO BE PIPED TO THE
 MAIN MARKED COVERS CROWN LEVEL MONDE RC AT
 THE START OF EACH 00001 RUN AND RA... AT E.g., 2.00.
 THEREAFTER
 GRADES EATS ENV OVR. ENG - LAO VETS A PLAN WU RAI
 (or 1A)

REVISION TABLE	



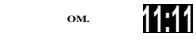
**EKURHULENI
 HUMAN SETTLEMENT
 DEPARTMENT**

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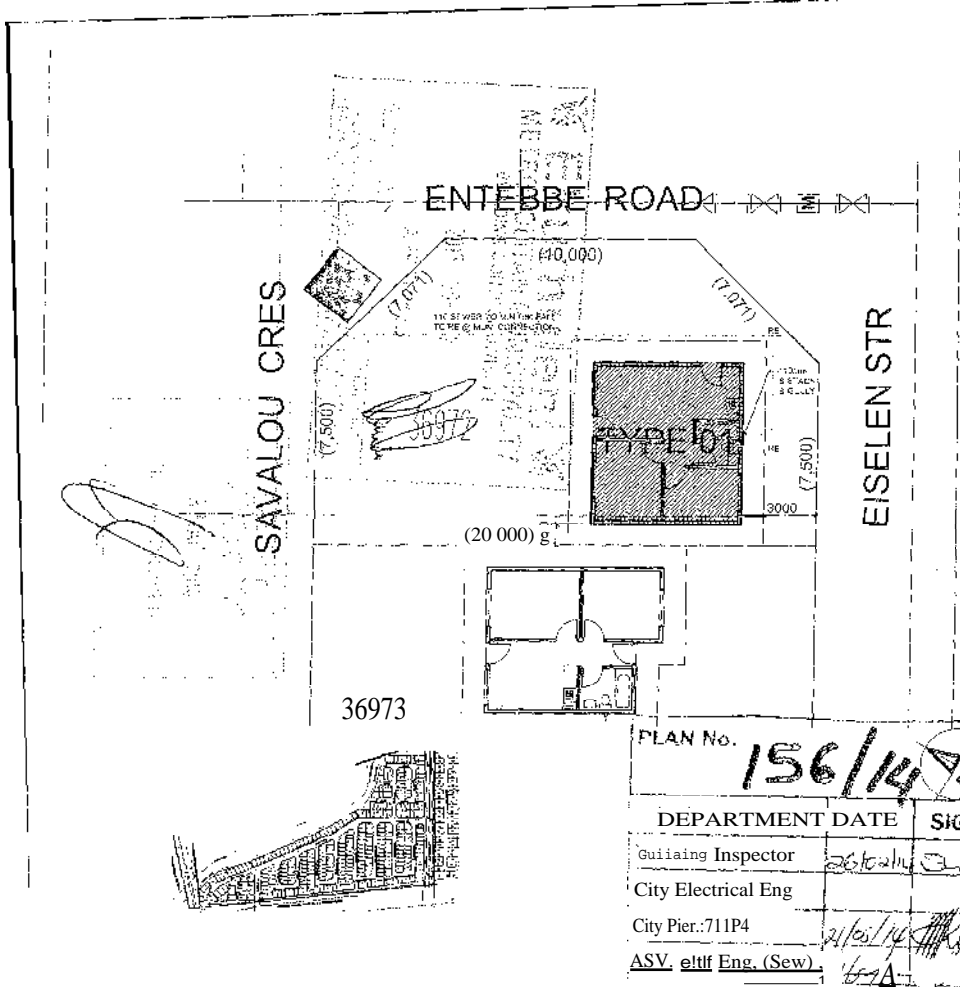
ASA

PEW HOUSING DEVELOPMENT - ETWATWA EA*
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN



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 E7wA C4 3440, 01



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STAND Nu..

BENEFICIARY

HOUSE TYPE 01

GENERAL NOTES

- 1) ALL WORK TO COMPLY WITH THE N.O.R. DRAINAGE IN ACCORDANCE TO DE. TO S.A.P.S. VATR SANS 0254 (GEYSERS) S SANS 10252 MUTERS SANS SODS (DRAINAGE)
- 2) ALL DRAINAGE BENDS & JUNCTIONS TO BE FITTED WITH I.E.M WITH MARKED COVERS AT GROUND LEVEL. PROVIDE RE. AT THE START. EACH DRAIN FUM ANS R.E.S.S AT EVERY 25m THEREAFTER.
- 3) ALL DRAINS SIZED BY CNAL ENO P. (us) WITH A MIN. I. FALL OF 1:100.

DRAINAGE NOTES

1) ALL WORK TO COMPLY WITH THE N.O.R. DRAINAGE IN ACCORDANCE TO DE. TO S.A.P.S. VATR SANS 0254 (GEYSERS) S SANS 10252 MUTERS SANS SODS (DRAINAGE)

2) ALL DRAINAGE BENDS & JUNCTIONS TO BE FITTED WITH I.E.M WITH MARKED COVERS AT GROUND LEVEL. PROVIDE RE. AT THE START. EACH DRAIN FUM ANS R.E.S.S AT EVERY 25m THEREAFTER.

3) ALL DRAINS SIZED BY CNAL ENO P. (us) WITH A MIN. I. FALL OF 1:100.

DR VISO TABLE

NO	DESK	DATE	DESIGNER

Ekurhuleni HUMAN SETTLEMENT DEPARTMENT

Ekurhuleni

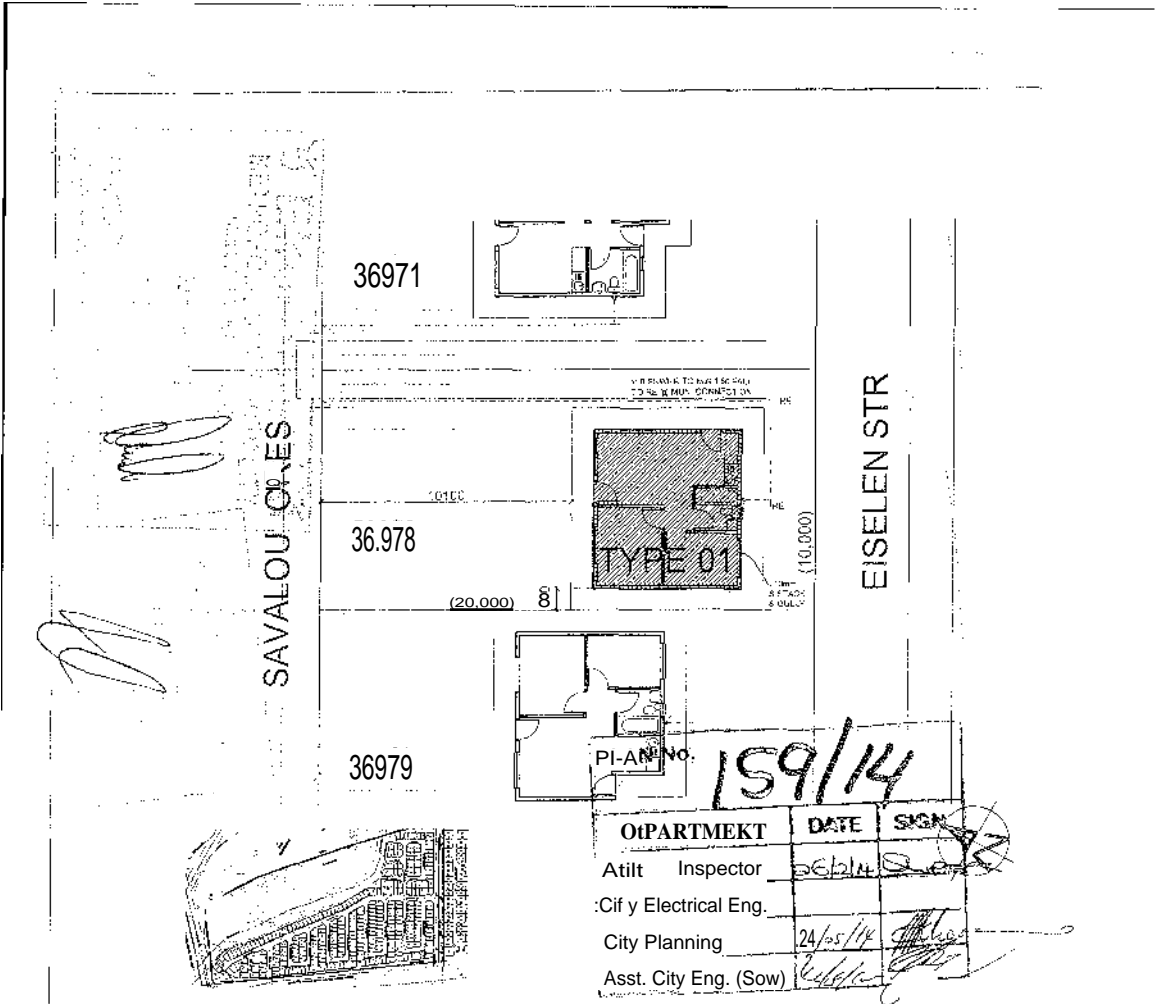
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ASA

NEW HOUSING DEVELOPMENT - ETWATVPA EXT SE FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

NO	DATE	NO	DATE
04-11-2006	06/06/2014	04-11-2006	06/06/2014
ETNA 35	04.36972.01	ETNA 35	04.36972.01



PI-AN No. 159/14

DEPARTMENT	DATE	SIGN
Atilt Inspector	26/11/14	[Signature]
City Electrical Eng.		
City Planning	24/05/14	[Signature]
Asst. City Eng. (Sow)		[Signature]

Att. STAND h.

BENEFICIARY

HOUSE TYPE 01

GENERAL NOTES
 1. ALL WORK TO COMM WITH IN TNE NOR WILD. 10
 2. ALL DIMENSIONS TO BE READ TO NOT SCALE.
 3. TA LEVELS, DRENCHAS, FIDONTS, DE
 4. ESCAVATIONS, NO NUMBER OF STIFF TOSE DETERMAB
 BY THE CONTRACTOR. SITE OORCREMCHES 10
 5. RECRUIT TO ARCHITECT.
 6. WASH MAIL WASH QW WINGEN w ANY WASH
 7. CONINTOPANES ANY SHASH, R6 CAIARANTES FON INT
 8. PRODUCT TATOU, THE APPROVAL CO THE ARCHITECT

DRAINAGE NOTES
 1. ALL WORK TO CHANLY WITH 1110 THE NOR DEANA, IN
 ACCORDANCE TO MS. TO SATISFY VAT, SANS -026
 2. (WYMAN 6 SANS ROW (WATER; SANS WAGO (DRAINAI
 3. REPAIRAGE AFROS, JUNCTIONS TO SE MED VAM
 4. VAT, LIARROD 00-Eac. AT DROINO LEVEL PRO LOE R E
 5. THE START SA C M DRAIN RUN ME, BY AT EVERY Me
 6. THEREAFTAN
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REV. TABLE

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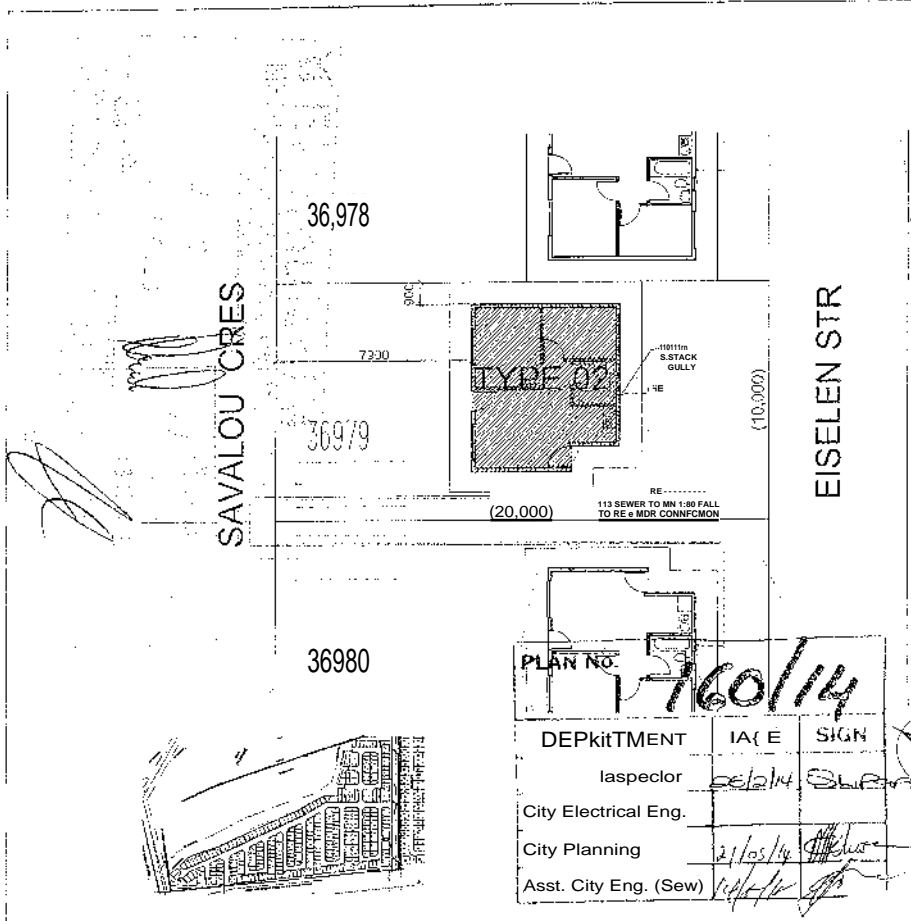
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NEW HOUSING DEVELOPMENT • ETWATWA EXT FOR EKURHULENI METROPOLITAN MUNICIPAL

SITE PLAN

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1:1	1:1	1:1	1:1



AREA:

STAND NUNI,

BENEFICIARY

HOUSE TYPE 02(M)

GENERAL NOTES

- 1) ALL A.S.T. 10 00 READ, DO NOT SITT.
- ALL LEVELS: DIMENSIONS, HEIGHTS, DEATH OF EXCAVATION: 40 NUMBER OF STEPS TO BE OTTER VINE ST TH: ON SITE DISCREPANCIES TO SE
- 4) NO W: CARRIES OUT WHICH AIR WAY COMM: SUPPLIERS SJARANTEE FOR THAI PROO. THE APPROVAL OF THE ARCHITEDI
- ERAS: APPLY WITH THE NPR DRAINAGE IN SEEN, TO SAT-SFY WITH SANS (C.D. WYSE: 510252 (WATER), 10200 (DRAINAI 2)M DRAINAGE BENDS JUNCTIONS TO BE FITTED WITH I WITH MARKED COVERS AT GROUND LEVEL. PROVIDE R.E. THE START OF EACH ORAN RUN AND R.E.1 AT EVERY 25IT THEREAFTER
- 3) ALL DRAINS SIZED Or CIVIL ENG S LAO WRH A INILILP4

REVISION TABLE	



EKURHULENI HUMAN SETTLEMENTS DEPARTMENT

PIV211

PLAN NO.	760/14	
DEPARTMENT	IA (E)	SIGN
Inspector	22/2/14	[Signature]
City Electrical Eng.		
City Planning	21/05/14	[Signature]
Asst. City Eng. (Sew)	14/2/14	[Signature]

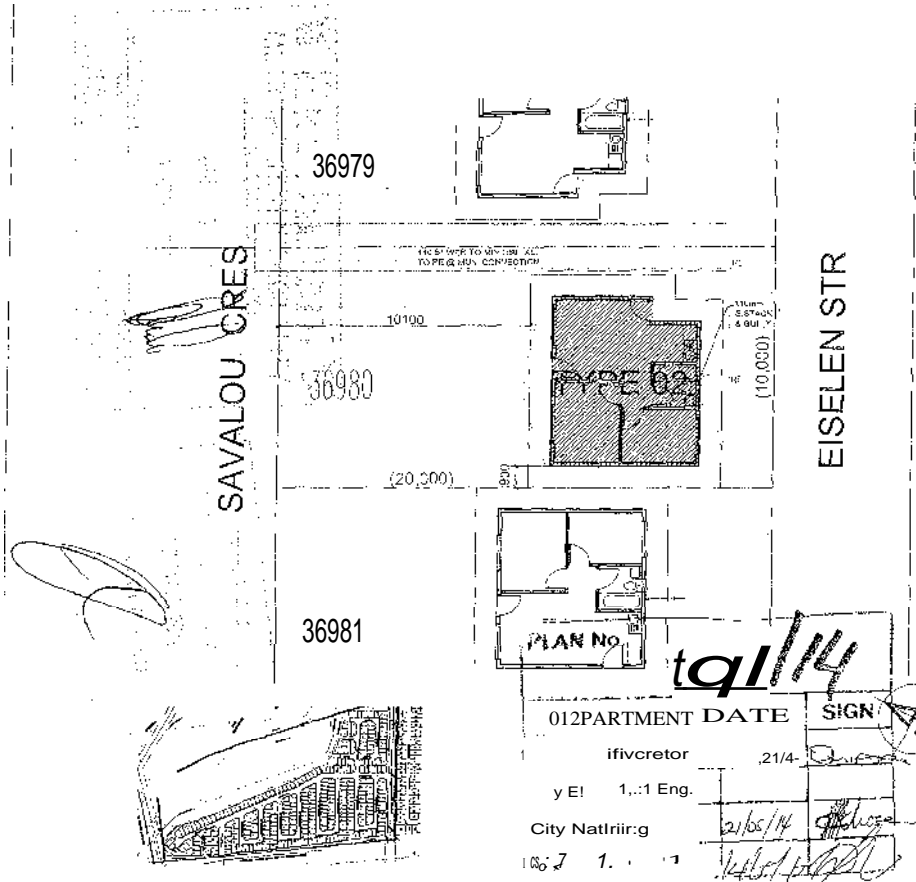


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NEW HOUSING DEVELOPMENT - ETWATWA EEO FOR EKURHULENI METROPOLITAN MUNICIPAL

SITE PLAN	DATE: 4/2/14	SCALE: AS
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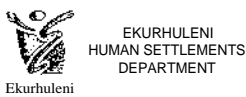
BENEFICIARY

HOUSE TYPE 02

GENERAL NOTES

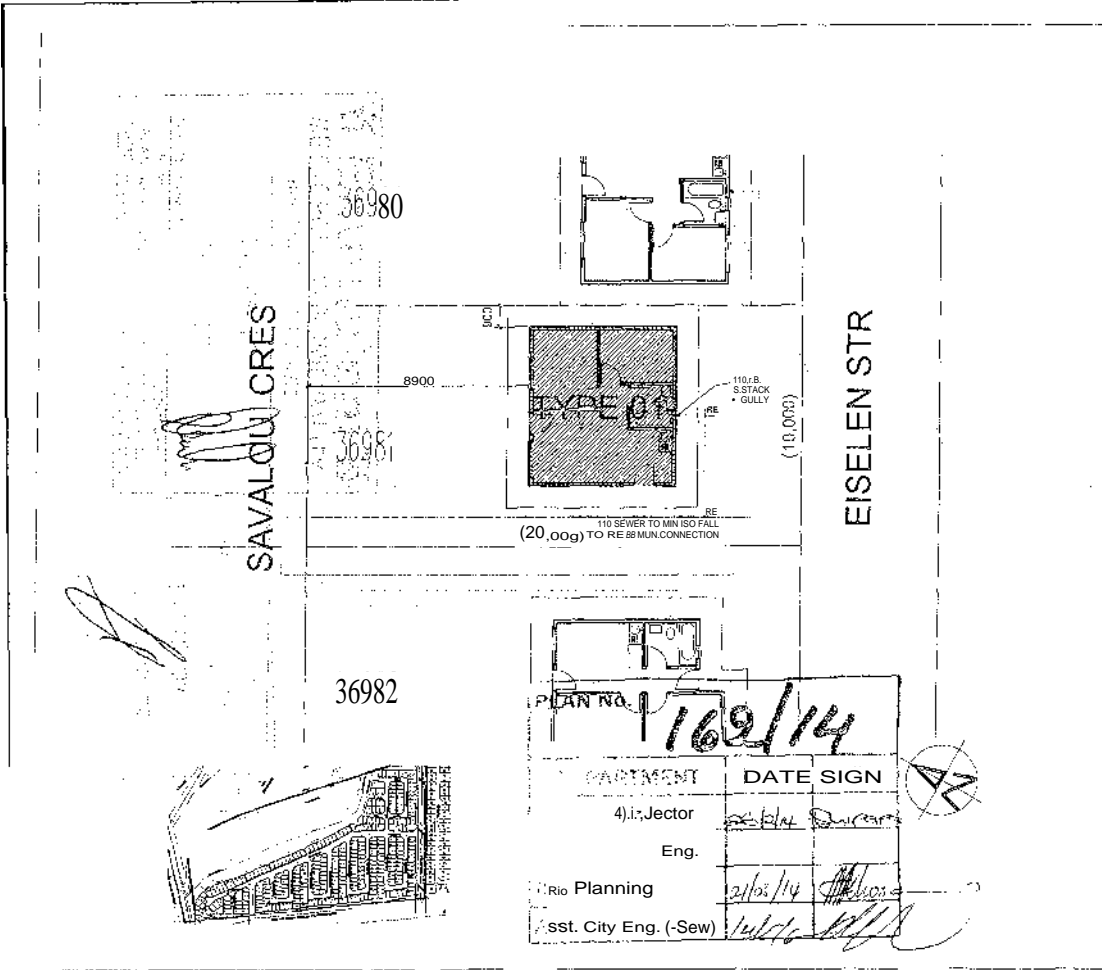
- 1) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 2) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 3) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 4) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 5) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 6) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 7) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 8) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 9) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.
- 10) ALL CONDUITS SHALL BE 100MM DIA. UNLESS OTHERWISE SPECIFIED.

REVISION TABLE	
NO.	DESCRIPTION



ASA
 PROJECT
 NEW HOUSING DEVELOPMENT. ETWATWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY
 00.N.0505
SITE PLAN

012PARTMENT DATE	SIGN
ifivcretor .21/4	
y El 1:1:1 Eng.	
City Natlriir:g	21/05/14
10:7 1:1	14/05/14



L
AREA:
STAND NUN.
BENEFICIARY
HOUSE TYPE 01(M)

- GENERAL NOTES**
- 1) ALL DIMENSIONS TO BE HEAD, 00 NOT SCALE.
 - 2) ALL LEVELS, OBSTRUCTIONS, HEIGHTS, DEPTH OF EXCAVATIONS, NO NUMBER OR STEPS TO BE DETERMINED BY THE CONSULTANT, ON SITE DOCUMENTS TO BE NEPOTIALLY ARCHITECT.
 - 3) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY COMPROMISES THE SUPPLIER'S GUARANTEE FOR THE PRODUCT, MATERIALS OR THE APPROVAL OF THE ARCHITECT.
 - 4) ALL DRAINS SHALL BE LAID WITH THE MINIMUM FALL OF 1:100.

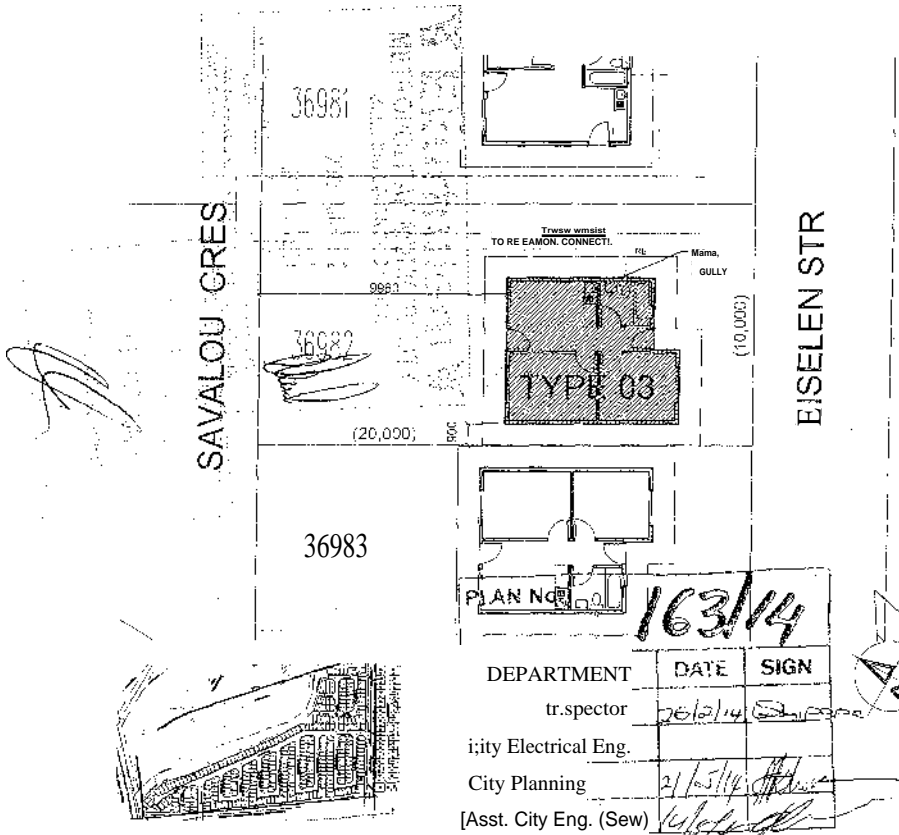
REVISION TABLE	
NO.	DATE

EKURHULEM HUMAN SETTLEMENTS DEPARTMENT
 Ekurhulemi
 (0) 011 400 0000
 4000 0000

ASA
 ARCHITECTS

NEW HOUSING DEVELOPMENT - EINATWA EXT
 FOR EKURHULEMI METROPOLITAN MUNICIPALITY
 SITE PLAN
 2014
 N., 35 04 36981 01

DEPARTMENT	DATE	SIGN
Director	2/10/14	[Signature]
Eng.		
Rio Planning	2/10/14	[Signature]
Asst. City Eng. (-Sew)	1/10/14	[Signature]



STANI),.

BENEFICIARY

HOUSE TYPE 03()

GENERAL NOTES

- 1) ALL WORK TO CORRECT V, Z, T & E THE NBR BUILDING CODE
- 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE
- 3) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND N.J. OP STEPS TO BE OBTAINED BY THE CONTRACTOR OR ON SAE DISCREPANCIES TO BE REPORTED TO ARCHITECT
- 4) NO WORK TO BE CARRIED OUT WHICH WENT WAY

1) ALL WORK TO OBTAIN THE APPROVAL OF THE ARCHITECT

DRAINAGE NOTES

- 1) ALL WORK TO OBTAIN THE APPROVAL OF THE ARCHITECT
- 2) ALL MAINS SUED BY CIVIL ENGR

REVISION TABLE

NO.	DATE	DESCRIPTION



EKURHULENI HUMAN SETTLEMENTS DEPARTMENT

AMINTEDI

MA

DEPARTMENT	DATE	SIGN
Inspector	26/2/14	[Signature]
City Electrical Eng.		
City Planning	21/10/14	[Signature]
[Asst. City Eng. (Sew)]	16/1/14	[Signature]

NEW HOUSING DEVELOPMENT ETWATWA EX? 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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DOA. 35 04 36982 01

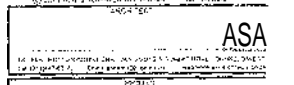
STAN)

BENEFICIAR'r
HOUSE TYPE 0

GENERAL NOTES
 1) ALL WORK TO BE DONE IN ACCORDANCE WITH THE TOWN BUILDING CODES.
 ALL WORK TO BE DONE IN ACCORDANCE WITH THE TOWN BUILDING CODES.
 ALL WORK TO BE DONE IN ACCORDANCE WITH THE TOWN BUILDING CODES.

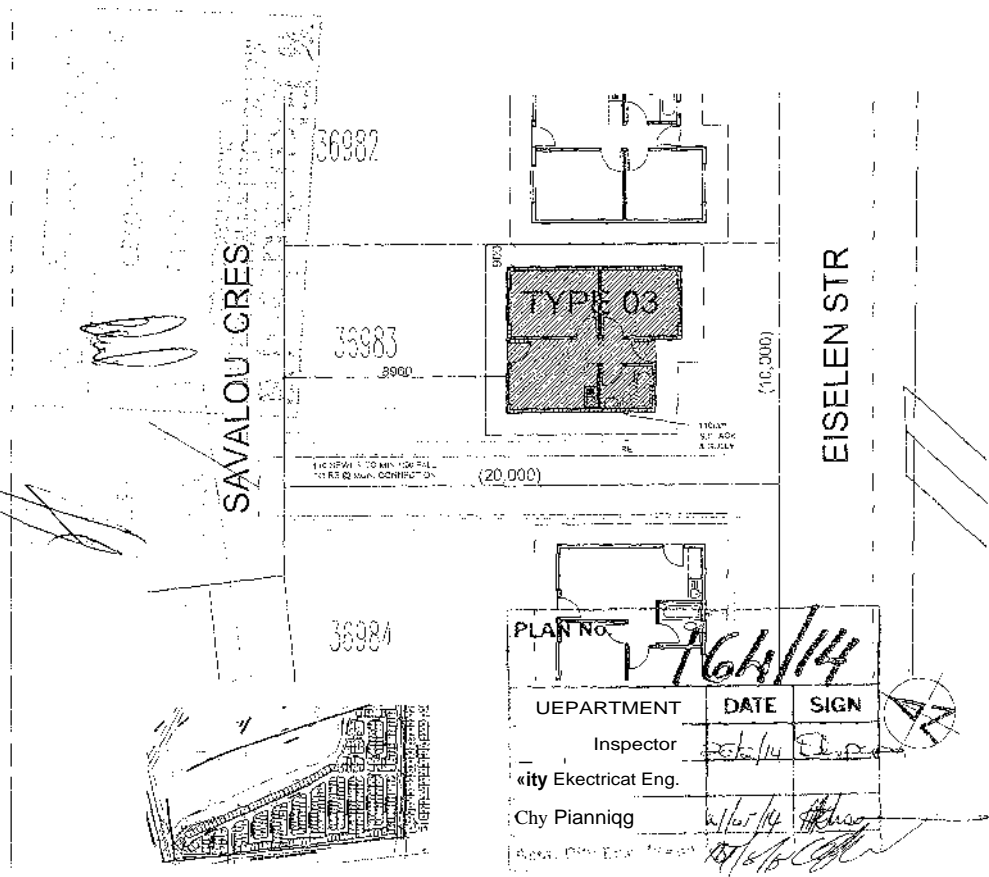
- 6) NO WORK TO BE DONE IN ANY WAY WITHOUT THE APPROVAL OF THE ARCHITECT.
 7) ALL WORK TO BE DONE IN ACCORDANCE WITH THE TOWN BUILDING CODES.
 8) ALL WORK TO BE DONE IN ACCORDANCE WITH THE TOWN BUILDING CODES.

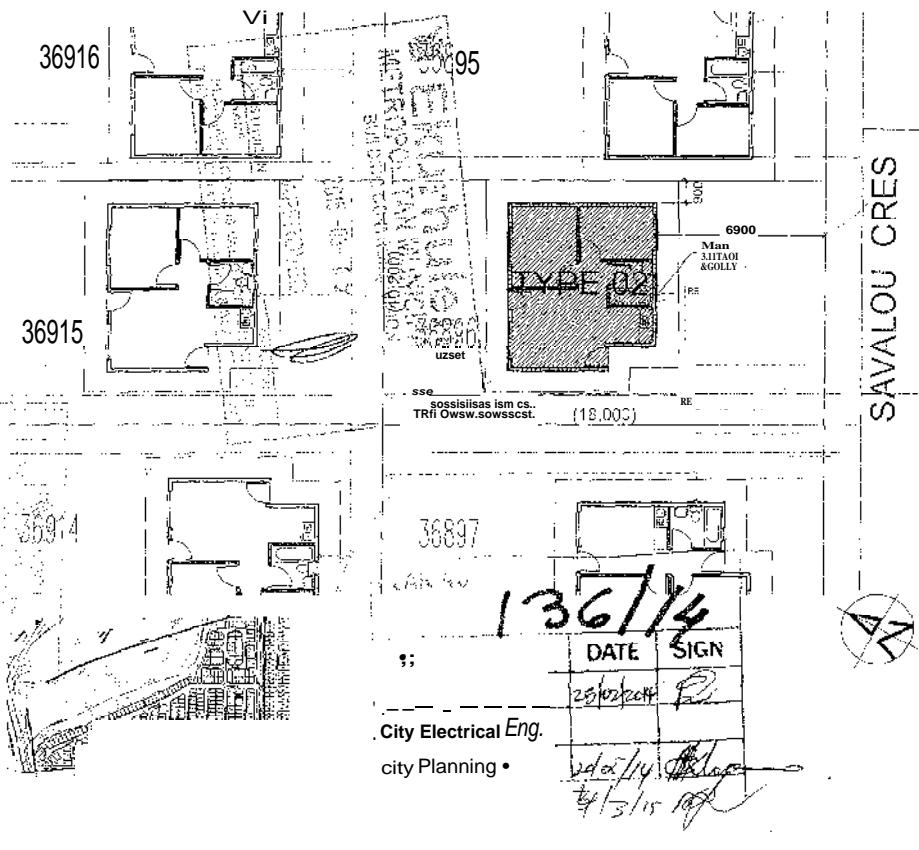
REVISION TABLE	
NO.	DESCRIPTION



NEW HOUSING DEVELOPMENT - ETWATWA EXT.
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN			
DATE	SCALE	DATE	SCALE
14/12/10	1:50	21/04/2014	1:50
DATE	SCALE	DATE	SCALE
ETNA 35	04 310101		





**AREA: ETWA
STAND NUMBER:**

BENEFICIARY

HOUSE TYPE 02(M)

GENERAL NOTES
 1 ALL WORK TO C.O.W. v. T. B. L. MR enl 0.0000E:
 2 ALL 0.4810680 MOE RUC. 0011 SCALE
 3 ALL 1/16" A. 0.15.36. ICHLES. OE. O.
 4 BECAVWA. A. 0. NUMBER C. SERS TO RE 1:100%. 0.0E0
 5 BY THE CONTRACTOR ON eTE OpvVANGIS 00 DE
 6 TÜR OR 430 TO ...MGT.
 7 4.40 WORK 7050 CARR-0 OUT W.M1114 AN. WAY
 8 CO.0AREE2 ANY ...41.0EAS OVARANTE4 70.2. MY:
 9 0.000CT WITHOUT THE A. PROVAL 00 THE AR04.LLr
DRAINAGE NOTES
 1 ALL 0011110 COMP. Wm. bfr BNR. ORAINA0.
 2 ACCORDING TO DEE4 300004 84.1 SASS 10254
 3 E. E. 0232 (WATCR) SANS10.000(0).R43E1
 4 10 A. 0.0.44.0E EDIOS + JÜRCHL.0 T1 Re 11.ED
 5 11111111 COVERS A10R0... 11. EXE. AR0VIE RY
 6 11111111 of CAC... 0.e4 for. AA0
 7 11111111
 8 31ka WAIVE 8.250 RYON, ENO
 9 0 - . 03

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	0164.***

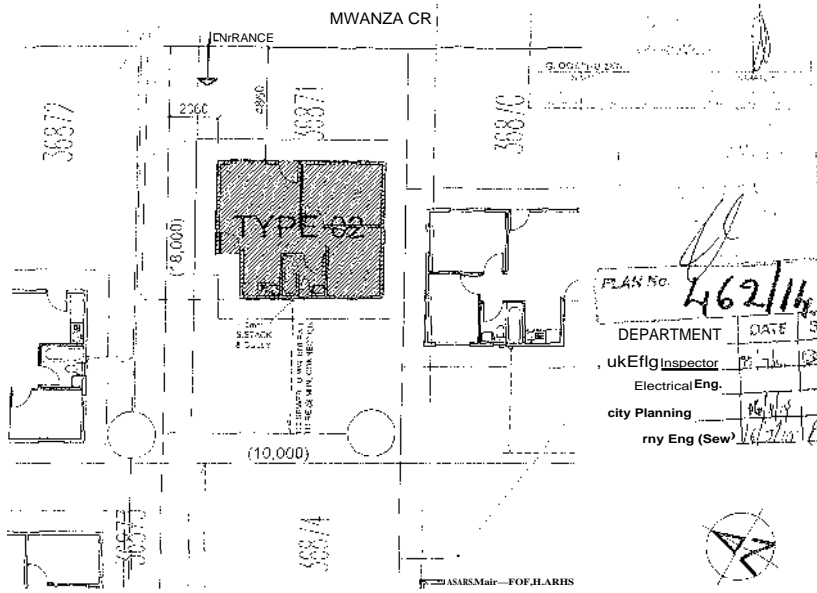
101 HUMAN SETTLEMENTS DEPARTMENT
 Ekurhuleni

ASA

NEW HOUSING DEVELOPMENT . ETWATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN			
1:200	0411:	11/2014	AS
A...	04.16690.01	I	

Ekurhueni PI
METROPOLITAN MUNICIPALITY



AREA: ETWATWA EXT. 35
STAND NUMBER: 36871

BENEFICIARY
HOUSE TYPE 02(M)

GENERAL NOTES
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
3. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
4. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.

PLAN NO. **462/14**

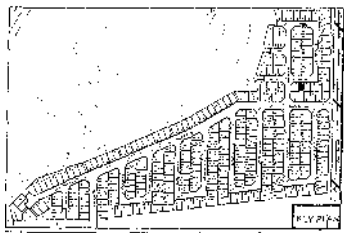
DEPARTMENT	DATE	SIGNATURE
City Planning		
Electrical Eng.		
City Eng (Sew)		

GENERAL NOTES
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
3. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
4. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.

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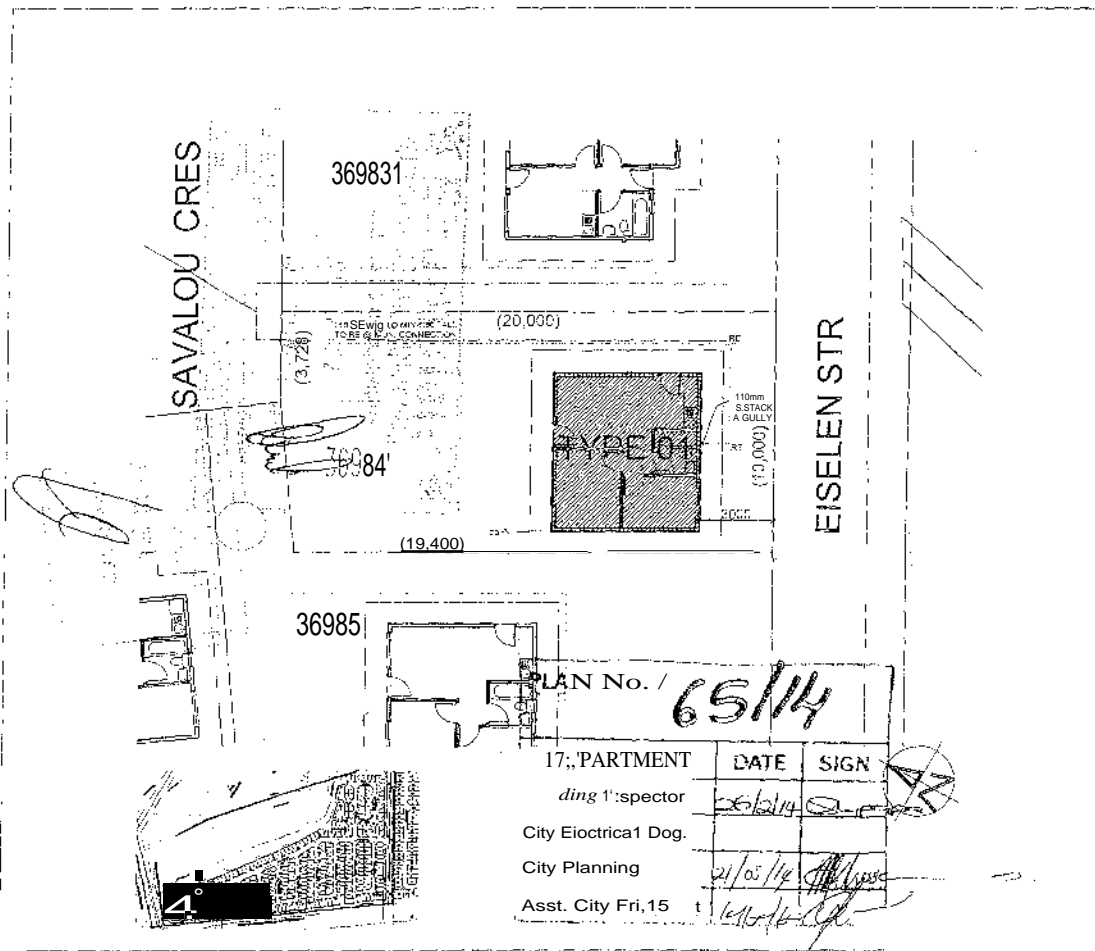
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1	ASARUMAIR - FOF HARHS	
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EKURHULENI HUMAN SETTLEMENTS DEPARTMENT
Ecurbylani



AS4¹
GENERAL DEVELOPMENT PLAN FOR EKURHULENI METROPOLITAN MUNICIPALITY
033033-0...

SITE PLAN
ETOTS E
71v



AREA:
STAND NU.

BENEFICIARY
HOUSE TYPE O.

GENERAL NOTES
 1) ALL WORK TO BE DONE IN THE NBR BUILDING CODE
 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 3) ALL WORK TO BE DONE IN ACCORDANCE WITH THE DEPT. OF
 EXHIBITS, AND 002111 OF STEPS TOSS DETERLINE
 BY THE 000001 OF 00 01 RE DISCREPANCIES, TO BE
 REFERRED TO ARCHITECT.
 4) WORK TO BE DONE OUT W/ IN NW WAY
 COMPLETION ANT SUPPLIERS GUARANTEE FOR TEST
 PROOF OF TEST, T. APPROVAL OF THE ARCHITECT
DRAINAGE NO 1 ES
 1) ALL LA... COMPLY WITH THE OLE NBR. DRAINAGE IN
 ACCORDANCE TO BEEN TO SATISFY WITH SANS 10234
 MEV... E + US 10252 (v. E.F.R.) 6 SANS 10100 CORONA
 2) ALL... INDIA JUNCTIONS TO BE PATED MY 1
 WITY... VORS AT GROUND LEVEL, PROVIDE R
 THE START OF EACH (MOM) RUN ANC REV AT EVENT 2.5A
 THEREAFTER.
 3) ALL DRAINS SIZED BY CIVL ENG 3, LAID WITH A MINNVAI
 C... E.

REVISION TABLE	
NO.	DESCRIPTION



ASA
 NEW HOUSING DEVELOPMENT - ETWATWA EXTS
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN	
DATE	BY
04-01-200	OF
JUN 2014	AS
ENNA DI	04.36 - 01

PLAN No. / **65114**

17. DEPARTMENT	DATE	SIGN
Engineering	26/01/14	[Signature]
City Electrical Dog.		
City Planning	21/02/14	[Signature]
Asst. City Fri, 15	14/02/14	[Signature]

K't
 AREA: Ei
 STAND NUMBt.

BENEFICIARY
HOUSE TYPE 01

GENERAL NOTES
 ALL WORK TO COMPLY WITH THE THE NCR SOLOING CODES.
 1) ALL 01.188.3818 136 RE READ. DO NOT SCALE.
 3) 1 LEV. 9 HEIGHTS, DEPTH OF
 EXC. NUMBER OF STEPS TO BE DETERMINED
 AT ON C. DISCREPANCIES TO NE
 TO
 4) HO 6061 OUT WAUGH IN ANY WAY
 COMP. IPPLIERS GUARANTEE FOR THAT
 PRODUCT 6 7 IE APPROVAL OF THE ARCHITECT
 DRAIN S
 1) TNC THE ABR. ORA-NAGE IN
 AT
 SANS (EBA
 (GE +). 0 3252 (WATER) 6 SANS (MO) (MANAGE
 2) ALI 8686.5.48 4 JOS 6 JINOTKINS TO BE FITTED WITH L
 MARKED COVERS AT GROUND SEV. PROVER R.E AT
 THE START OF EACH DRAIN RUN AND R.E. AT EVERY 3m.
 THU. TEA.
 J) ALL DRAINS 647.E.0 BY CIVIL ENG 6 LAID voTH A MINIMUM Fu
 OF 1:80

REVISION TABLE	
NO.	DESCRIPTION



EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT

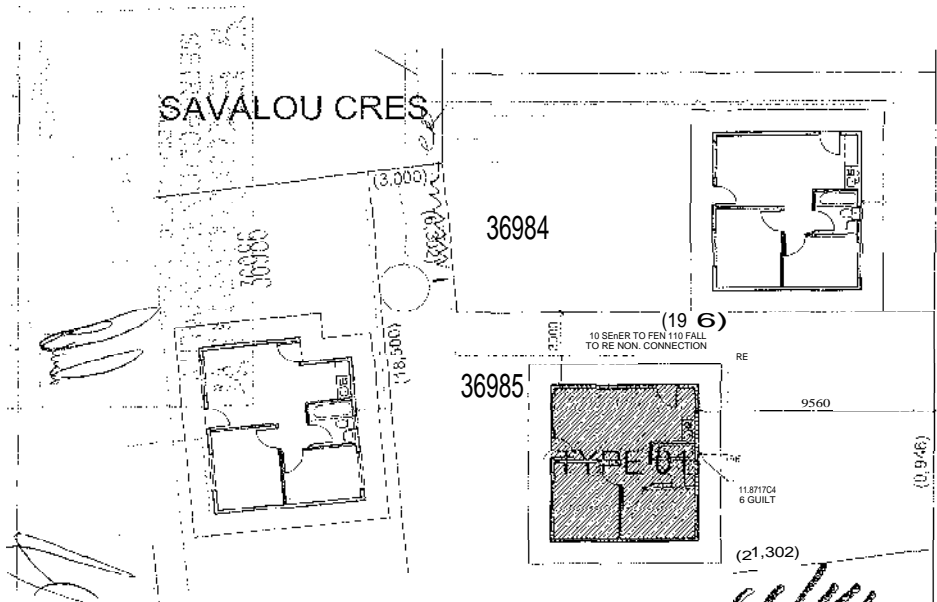
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NEW HOUSING DEVELOPMENT - ETWATWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

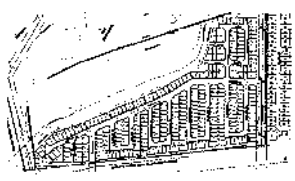
SITE PLAN

7,141 2014

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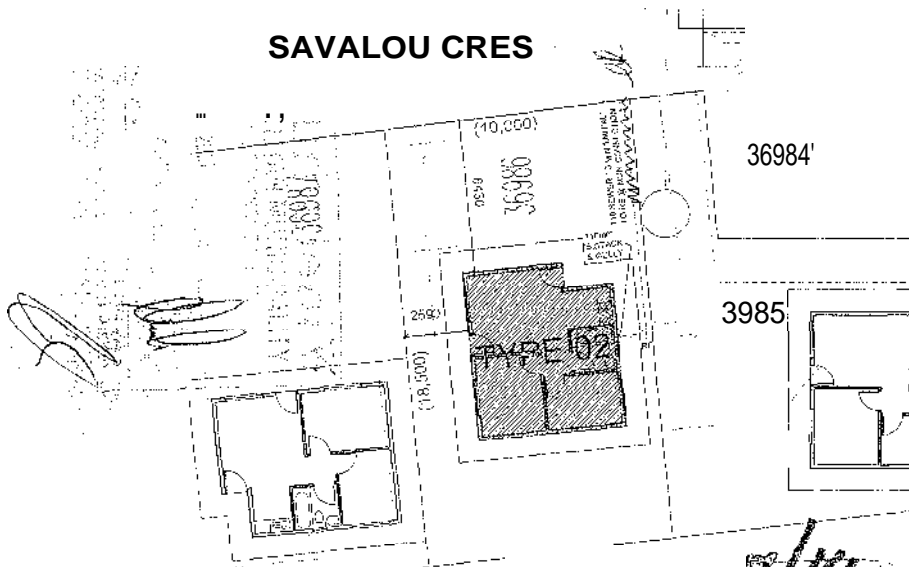
SPECIAL (FINtrt OPEN SPACE)



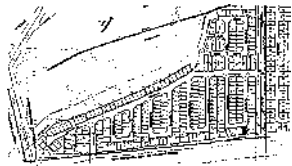
DEPARTMENT	DATE	SIGN
inspector	64/	
City Electrical Eng.		
City P;afnting	21/05/16	
Asst. City En?" Sew		



SAVALOU CRES



SPECIAL (PUEireetTPEN SPACE)



DF.PA.RTNIENT	DATE	SIGN
wilding inspector	2/21/14	[Signature]
City Electrical Eng.		
City Planning	2/25/14	[Signature]
[Aszt, CI! Fi* 21. : " 14]		[Signature]

AREA: ETWM.
STAND NUMBER: 0,

BENEFICIARY
HOUSE TYPE 02

GENERAL NOTES
 1) ALL WORKS TO COMPLY WITH THE TOWN AND COUNTY CODES
 2) ALL DIMENSIONS TO BE READ AS NOTED ON DRAWINGS
 3) CALL LEVELS, ELEVATIONS, HEIGHTS, MAIN OR EXCAVATIONS, AND ANCHOR POINTS TO BE SET BY THE CONTRACTOR OR HIS SITE SUPERVISOR TO SO SWIM TO ADJACENT
 4) NO WORK TO BE CARRIED OUT WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT
DRAINAGE NOTES
 CALL EEMA TO OUP, VATN THE ROIL ORAINAGN ACCONUANCE (NU JONTNY MN SANS ION (45.811) A SANS 1012 (W - EGUS WNE - 45M N. NOS) VAL GR NAGE SENS S JUNCTIONS TO BE FITTED WITH R.N WIN MANE COVERS AT NGUNS LEVEL DOWN I.E AT IN. OF EACH COAM NW AND R.E.O AT ENSE AN INCYMENT.
 A ALL 0.04 SEED mGrvl V100 LAID' t - wxWWe Vw CIF INC.

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EKURHULENI HUMAN SETTLEMENTS DEPARTMENT

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NEW HOUSING DEVELOPMENT • ETWATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

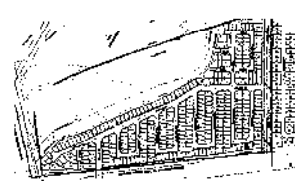
SITE PLAN

AS

SAVALOU CRES



SPECIAL (PUBLIC) 4/14 EN SPACE



OFFICIAL TITLE	DATE	SIGNATURE
City Inspector	20/01/14	[Signature]
City Electric & Eng.		
City Planning	21/01/14	[Signature]
Asst. (Sew)	16/01/14	[Signature]

STAND h.

BENEFICIARY

HOUSE TYPE 02(M)

- GENERAL NOTES**
- 1) ALL WORK TO COMPLY WITH THE NBR. DRAINAGE IN ACCORDANCE TO DEEW TO SATISFY WITH BANS 10254 (GEYSERS) 6 BANS 10252 (WATER) 1 BANS. 00 (DRAMA)
 - 2) ALL DRAINAGE JOINTS - JUNCTIONS TO BE FITTED WITH W/AT MARKED COVERS AT GROUND LEVEL. PROVIDE R.E. THE START OF EACH DRAIN RUN AND R.E. AT EVERY 25. THEREAFTER.
 - 3) ALL DRAINS SPED BY CIVIL ENG B LAID WITH A IPNIMUIA1 OF LSO.

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14 1/4
 EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT
 Ekurhuleni

AS)

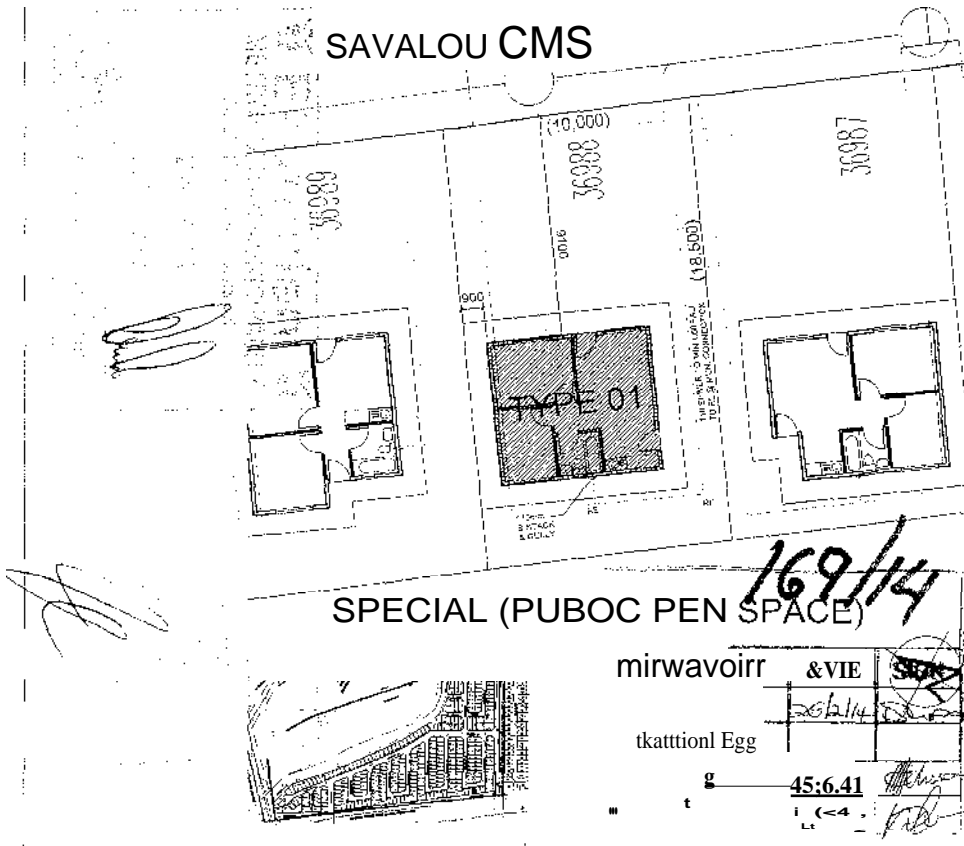
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 NEW HOUSING DEVELOPMENT - ETWATWA EST
 FOR EKURHULENI METROPOLITAN MUNICIPAL

SITE PLAN

66-1200 01/11 AS

ETWA 35 04.36997 0.

SAVALOU CMS



SPECIAL (PUBOC PEN SPACE)

mirwavoirr & VIE

tkattionl Egg

45:6.41

1:4

BENEFICIARY HOUSE TYPE 01

- GENERAL NOTES**
- 1) ALL WORK TO COMPLY WITH THE NBR BUILDING CODE.
 - 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 - 3) ALL LEVELS, DIMENSIONS, ETC'S, DEPTH OF EXCAVATIONS AND NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE. DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 - 4) NO WORK TO BE CARRIED OUT IN ANY WAY WHICH IMPROVES ANY SUPPLIER'S GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT.
- DRAINAGE NOTES**
- 1) ALL WORK TO ACCORDANCE TO NBR DRAINAGE IN ACCORDANCE TO UDDI TO BE FITTED WITH SANS 8004 (GYSERSI & SANS (WATER) SANS RICO (ORAN.
 - 2) ALL DRAINAGE BEADS & JUNCTIONS TO BE FITTED WITH 150MM YARDED COVERS AT GROUND LEVEL. PROVIDE R.E.A THE START OF EACH DRAIN RUN AND RE. AT EVERY 25M THEREAFTER.
 - 3) ALL DRAINS WED BY CIVIL ENO S. LAID WITH A ASINL V.F.J OF 1:00

REVISION TABLE	
NO.	DESCRIPTION

IKURHULENI
HUMAN SETTLEMENT
DEPARTMENT

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NEW HOUSING DEVELOPMENT - ETWATWA EXT 3
FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

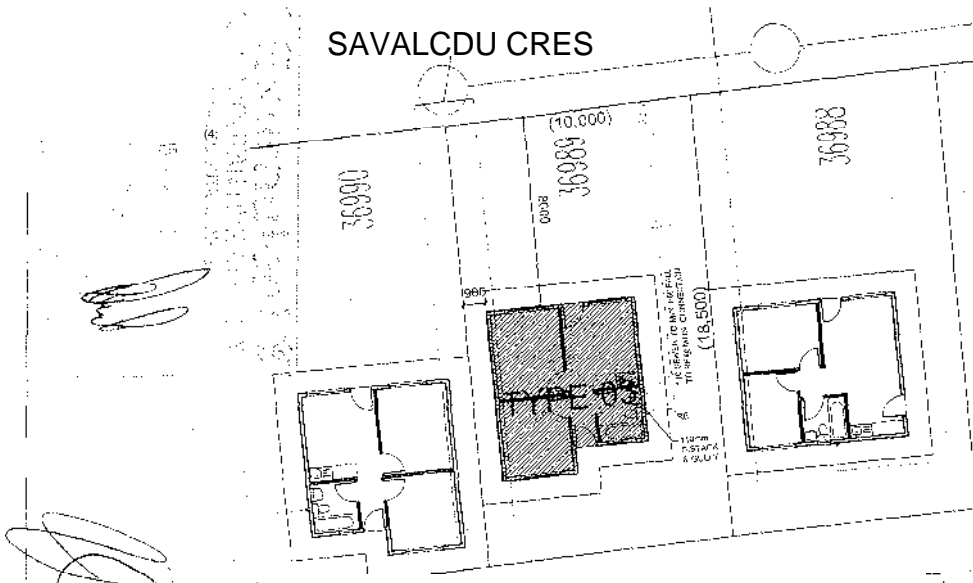
DATE	DATE	SCALE	PROJECT
16/09/14	04/11/14	1:4	AS
PROJECT NO.	DATE	BY	DATE
ETWA	04/30/08/01		

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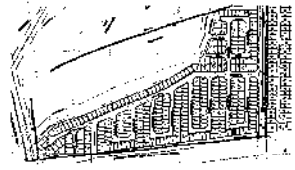
STAND NUMi,-

BENEFICIARY
HOUSE TYPE 03(M)

GENERAL NOTES
ALL WORK TO COOP. KAPP THE THE NBR BALDING C/A
ALL DIMENSIONS TO BE READ DO NOT SCALE.
) LEVELS, ONENS.0116, HEIGHTS, DEPTH OF
EXCAVATIONS, AND NUMBER OF STEPS TO BE DETERMIN
BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE
REPORTED TO ARCHITECT 1.
4). WORK TO BE CARRIED OUT WHICH IN ANY WAY
LOULIROMSRS ANN SUPPLIERS GUARANTEE FOR THAT
14400UCT VOTR6UJ THE APPROVAL OF THE ARCHITECT
DRAINAGE NOTES
1 ALL WORK TO COMPLY WITH IFE THE NEIR, ORAAAGE NN
"RCA., TO 0784.4 TO SATISFY WITH SANS 10254
(E+LENS) & PANS 10252 (WATERS 3.3 1000 (DRAWS
2) ALL DRAINAGE BENDS 6 JUNCTIONS TO BE TOTE WITH
WITH MARKED COVERS AT GROUND LEVEL PROVIDE 5.0
THE START OF EACH 'RAIN RUN PRO.E. AT EVE. 23/
THEREAFTER.
3) ALL ORM. S.13 BY MIL ENG S LAID WITH A ...um

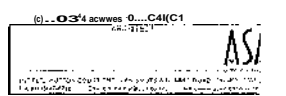


SPECIAL (OPEN S ACE)



DEPARTMENT	DATE	SIGNATURE
Building Inspector	26/2/14	[Signature]
City Electrical Eng.		
City Planning	21/5/2014	[Signature]
Asst. City Eng. (Sew)		

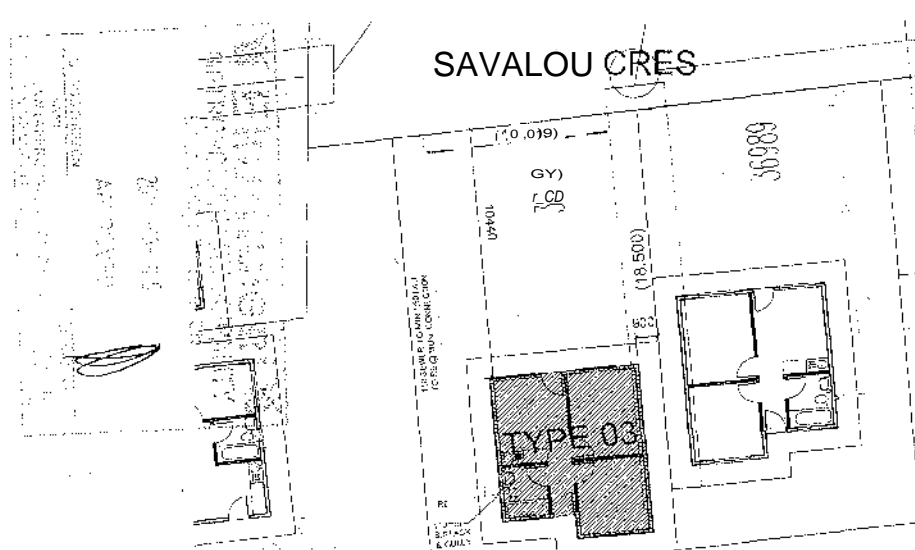
EKURHULENI
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DEPARTMENT



NEW HOUSING DEVELOPMENT - ETWATWIA EXI
OR EKURHULENI METROPOLITAN MUNICIPAL

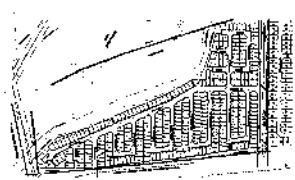
SITE PLAN
0/1,200 JAN 2014

SAVALOU CRES



SPECIAL (P W OPENSOURCE)

17/1/14



DEPARTMENT	DATE	SIGN
Building Inspector	26/2/14	[Signature]
City Electrical Eng.		
City Planning	21/05/14	[Signature]
Asst. CR Eng. (BWS)		



AREA: ETWA

STAND NUMBS.

BENEFICIARY

HOUSE TYPE 0.

GENERAL NOTES
 1) ALL WORK TO COMPLY WITH THE NBR BUILDING CODE OF PRACTICE.
 2) DIVISIONS ON SITE TO BE DETERMINED BY THE CONTRACTOR ON SITE OF DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 3) ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVAL OF THE ARCHITECT.

DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE NBR DRAINAGE IN ACCORDANCE TO SANS 10252 (WATER'S SANS 10252) TO SATISFY WITH SANS 10252 (WATER'S SANS 10252) TO SATISFY WITH SANS 10252 (WATER'S SANS 10252).
 2) ALL DRAINAGE SENS & JUNCTIONS TO BE FITTED WITH I.E. WITH (MARA) GOFERS AT GROUND LEVEL PROVIDE R.E. AT THE START OF EACH DRAIN R. AND RSA AT EVERY 26m THEREAFTER.
 3) ALL DRAINS TO BE LAID WITH A MINIMUM FALL OF 1:100.

NO.	REVISION	DATE

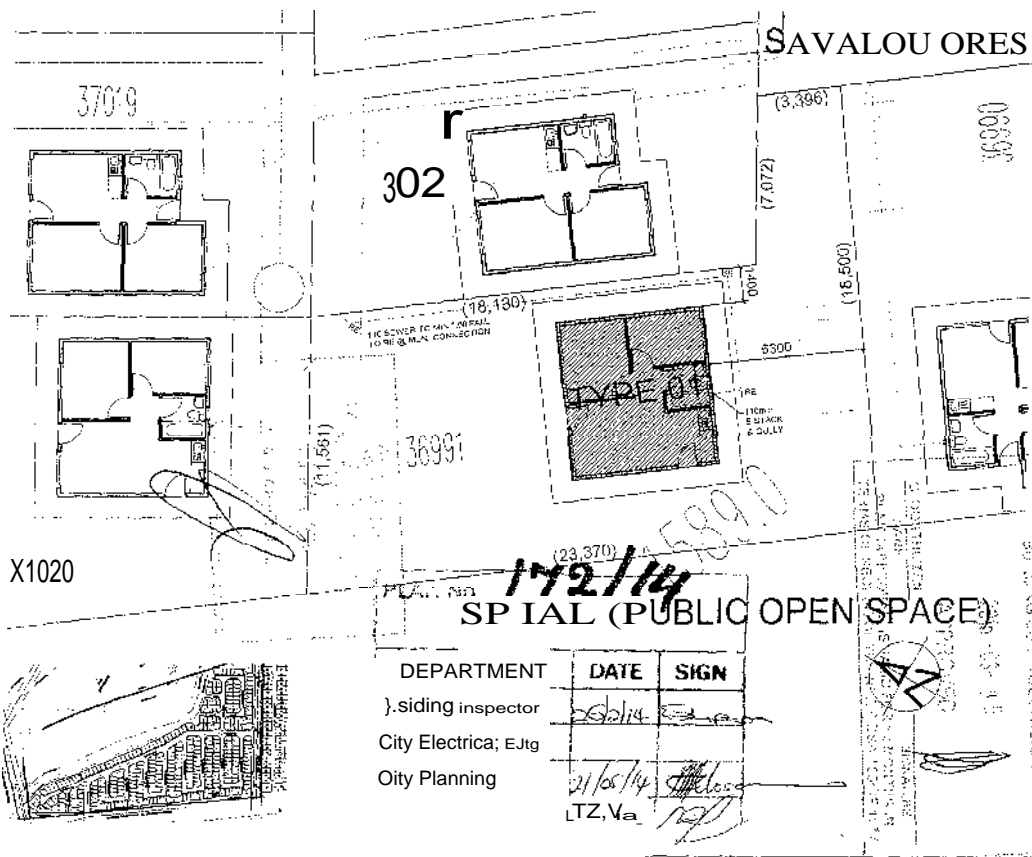
11/1/14 HUMAN SETTLEMENT DEPARTMENT

ODDOPYRITS R&S 10-140311

ASIA

NEW HOUSING DEVELOPMENT - ETWATWA EXT DI FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN			
Scale: 1:200	Date: 07/1/14	Drawn: S.M. 2014	Checked: A.E.
ETWA	C4 36000 01		



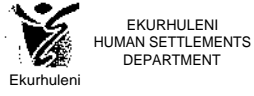
SAVALOU ORES

AREA: ER.
STAND NUML

BENEFICIARY
HOUSE TYPE 01(ht.)

- GENERAL NOTES**
- 1) ALL WORK TO COMPLY WITH THE THE NBR BUILDING CODES.
 - 2) ALL DIMENSIONS TO BE REAP. DO NOT SGLL.
 - 3) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF CAVATIONS AND DIMENSIONS OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE. DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 - 4) NO WORK TO BE CARRIED OUT UNLESS IN ANY WAY COMPROMISES ANY SUPPLIERS GUARANTEE FOR THE PRODUCT WITHOUT THE APPROV. OF THE ARCHITECT.
- DRAINAGE NOTES**
- 1) ALL DRAINAGE TO COMPLY WITH THE THE NOR. CHARGE IN ACCORDANCE TO EGM TO SATISFY WITH SANS 10.1 (GEYSERS) SANS 10.2 (WATER) SANS 10400 (DIGGEE)
 - 2) ALL DRAINAGE SENDS TO JUNCTIONS TO BE FITTED WITH WEIR MARKED COVERS AT GROUND LEVEL. PROVIDE RE. AT THE STAR 1 OF EACH GAIN HUB AND R.F. AT EVERY 25m THEREAFTER.
 - 3) ALL DRAWS WED BY CIVIL ENG. LAID WITH MINIMUM FA. OF 1.0%.

REVISION TABLE	
NO.	DESCRIPTION



ASA

NEW HOUSING DEVELOPMENT - ETWAIWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

DEPARTMENT	DATE	SIGN
City Planning	21/08/14	[Signature]
City Electrical; E.Jtg		
City Planning	21/08/14	[Signature]



AREA: ETWA15
STAND NUMBE.

BENEFICIARY
HOUSE TYPE 04

GENERAL NOTES
1. ALL DIMENSIONS TO BE READ DO NOT SCALE
2. MAKE SURE OF ST EDS TO BE 'ETES'
REIN 1.

2. 20 OUT WHICH ANY VV
3. WORKS GUARANTEES FOR THAT
4. APPROX OF TVS ARCHITECT
DRAINAGE
ALL 44.20 0.1 TIR THE NOR DRAINAGE
AC 10E 1 7.4 TO 8.1 WITH SANS 10
GET INS E 15M WATER 8 SANS 10 DRAINAGE
ALL 11.41.1 BENDS 8 JUNCTIONS TO BE FITTED 1 Y
WITH MARKED COVERS AT GROUND LEVEL P00001 RE VT
THE START OF EACH DRAIN RUN AND R.E. EVE. _____
THEREAFTER.
DRAINS SIED BY CIVIL ENG (1*10) . WNW. SALL
OF 1.50

REVISION TAO E	



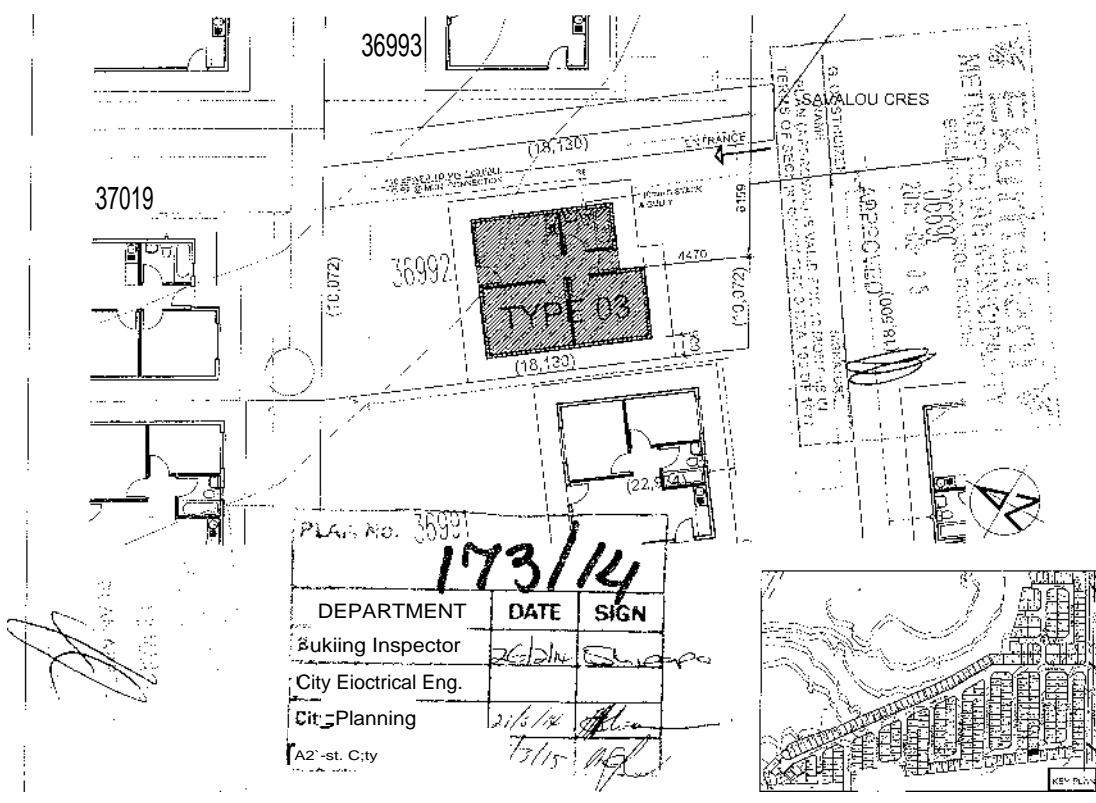
EKURHULENI
HUMAN SETTLEMENTS
DEPARTMENT

PROGRAM
NEW HOUSING DEVELOPMENT - ETWATWA EX7 35
FOR EKURHULENI METROPOLITAN MUNICIPALITY
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SITE PLAN



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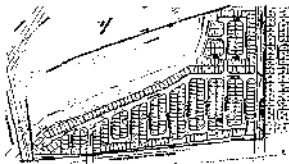
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SALVALOU ORES

(10,000) (16,000)



PLAN No.		1751	
DEPARTMENT	DATE	SIGN	
Building Inspector		WM	
City Electrical Eng			
City Planning			
City Eng. (Sew)			

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STANL

BENEFIT

HOUSE TYPE

GENERAL NOTES

- 1) ALL WORK TO COMPLY WITH THE THE NOR BNB. SISAL OWENSIONS TO SE. REAM DO NOT SCALE
 - 2) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS TO BE, DETERS. PA THE CONTRACTOR ON si E DISCREPANCIES, 0 BE SUPPOSED TO ARC11, E.11
 - 3) NO WORK TO BE CARRIED OUT WHICH IN ANY W: COYROMISES ANY APPLIERS GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT
- DRAINAGE NOTES
- 1) ALL WORK TO COMPLY WITH THE THE NBR EIRSNACE ACCORDANCE TO SEEM TO SATISFY WTS SANS. (GEYSERS) 6 S.S. 1052 (WATER) SANS. 10400 BARAN.
 - 2) ALL DRAINAGE BENDS 4 JUNCTIONS TO BE FATTED WITH: WITH RA PISED COVERS AT 0.00L LEVEL. PROVIDE R.E. THE START OF EACH DRAIN RUN HE REEs AT EVERY Mts THEREAFTER.
 - 3) ALL DRAINS SIZED BY CIVIL EGG 6 LAD WITH A MINIMUM OF 1BS.

%. EKURHULENI HUMAN SETTLEMENT DEPARTMENT

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NEW HOUSING DEVELOPMENT - ETWATWA EXT FOR EKURHULENI METROPOLITAN MUNICIPALIT

SITE PLAN

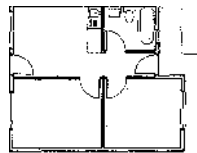
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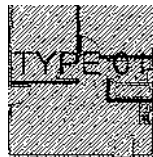
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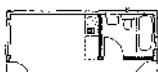
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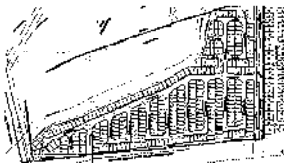


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DEPARTMENT
fitting 1:1 ego.,
Cin Ehnrico Eng.
.61fi: Planning
A4t:clty Eng. (Sew)

DATE	SIGN
26/11/15	[Signature]
2/10/15	[Signature]
7/11/15	[Signature]

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AREA;
STAND Nt..

BENEFICIARY

HOUSE TYPE 01(i...

GENERAL NOTES

- 1) ALL WORK TO COMPLY WITH THE N.M. BUILDING CODES
- 2) ALL DIMENSIONS TO BE READ DO NOT SCALE
- 3) ALL LEVELS, FINISHES, HEIGHTS, DEPTH OF FOUNDATIONS, AND NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE REPORTED TO ARCHITECT
- 4) NO - 0 - 7 TO BE CARRIED OUTS 4H IN ANY WAY COMPROMISES ANY SUPPLIER'S GUARANTEE, FOR THAT PRODUCT TO OBTAIN THE APPROVAL OF THE ARCHITECT

DRAINAGE NOTES

- 1) ALL WORK TO COMPLY WITH THE N.M. DRAINAGE IN ACCORDANCE TO DEF. 11 TO SATISFY VOTE BANS 10564 (GUTTERS, SANS 3203 (WATER), SANS 10400 (DRAINAGE))
- 2) ALL DRAINAGE S1.0.3.6 JUNCTIONS TO BE FITTED WITH I.E.D WITH MARKED COVERS AT GROUND LEVEL. PROVIDE R.E. AT THE STARE OF EACH OF MAIN RUC; AND R.E. AT EVERY BNB THEREAFTER.
- 3) ALL DRAINS WEED BY CIVIL ENG S LAID WITH 1:100 SCALE. OE 103

REVISION TABLE	
1	AS PER APPROVED
2	AS PER APPROVED
3	AS PER APPROVED
4	AS PER APPROVED
5	AS PER APPROVED



EKURHULENI
HUMAN SETTLEMENTS
DEPARTMENT

Ekurhuleni

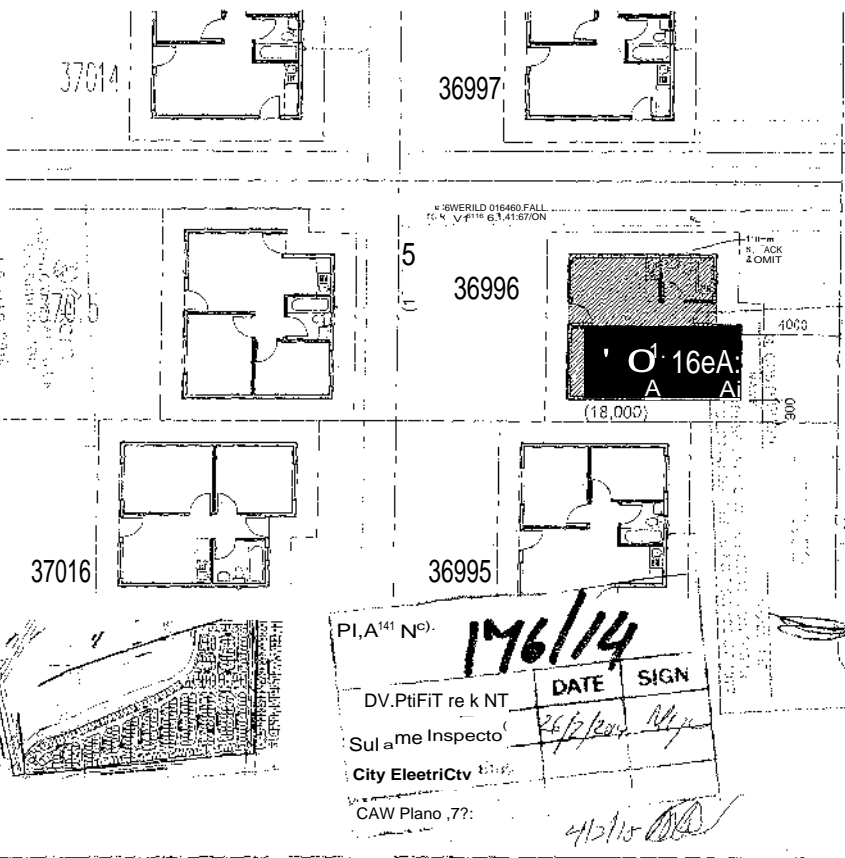
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NEW HOUSING DEVELOPMENT - E1WATWA EXT 35
FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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2	04/06/2015	[Signature]	AS PER APPROVED



SAVALOU CRES

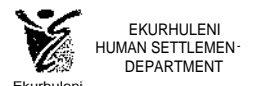
**Rh.
STAND**

**BENEFICIAL
HOUSE TYPE II**

GENERAL NOTES
 1) ALL WORK TO COMPLY WITH THE NBR BUILDING REGULATIONS.
 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 3) ALL DIMENSIONS NEIGHBORHOOD DEPARTMENT OF EXCAVATIONS AND NURSERY OF STEPS BE DETERMINED BY ABE GOSTRATOR ON SGB DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 4) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY COMPROMISES ANT SUPPLIERS GUARANTEE FOR TNT WITH THE APPROVAL OF THE ARCHITECT.

DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE NBR, DRAINAGE IN ACCORDANCE TO DEEM TO SATISFY WITH SANS 10400 (DRAWINGS) SANS 10262 (WATER) SANS 10400 (DRAWINGS) ALL DRAINAGE CHANGES JUNCTIONS TO 100 FITTED WITH WITH MARKED COVERS AT GROUND LEVEL. PROVIDE R.F. THE START OF EACH RUN AND R.F.S. AT EVERY 20M THEREAFTER.
 2) ALL DRAINS SIZED BY C.V.D. END 6 MO WITH A MINIMUM OF 100.

REVISION TABLE	
NO.	DATE

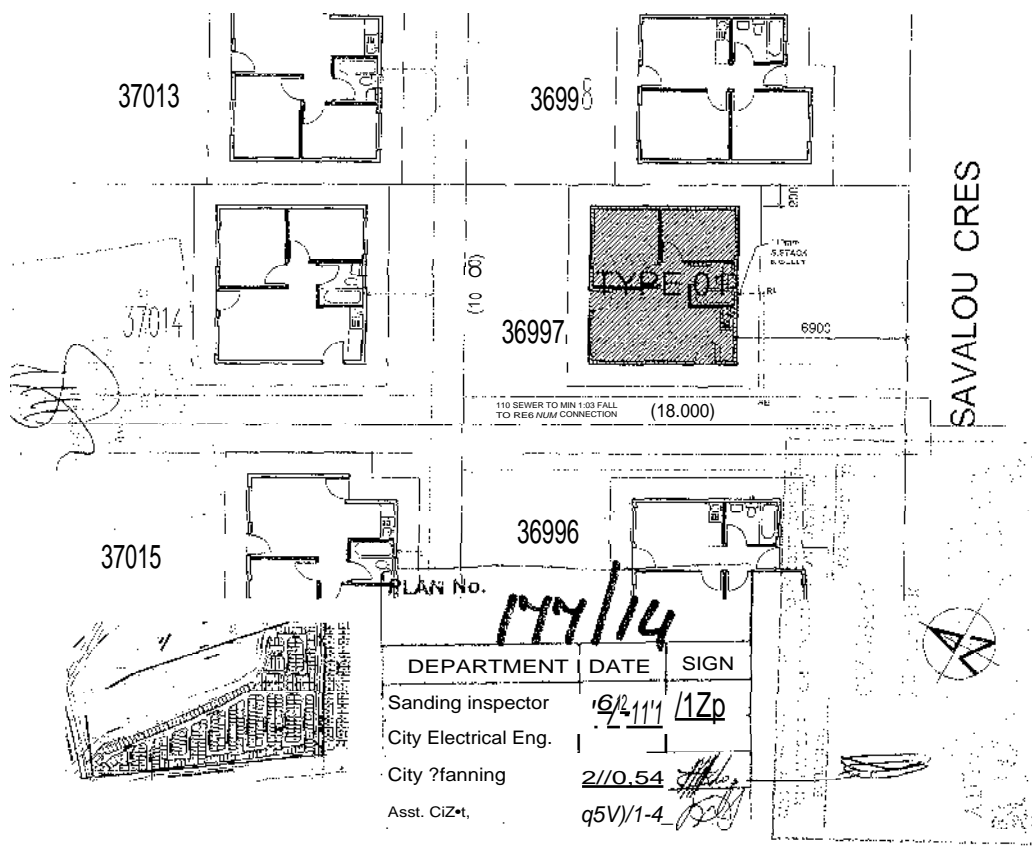


Ekurhuleni
 HUMAN SETTLEMENTS
 DEPARTMENT

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NEW HOUSING DEVELOPMENT- ETWATWA EXT 3
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN			
SCALE	DATE	BY	CHKD
X1:600	2014	JAN 2014	AS



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STAND Nid,

BENEFICIARY
HOUSE TYPE 01(M)

GENERAL NOTES
 1) ALL WORK TO COM. v01.1 THE THE MR BUILDING CODE
 2) ALL WORK TO BE DONE TO SCALE
 3) ALL LEVELS NION EIGHTS. DEPT. OF EXCAVATIONS. AND NUMBER OF STEPS TO BE DETERMINE BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE REPORTED TO ARCHITECT
 4) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY COP PROMISES ANY SUPPLIERS GUARANTEE FOR THAT PRODUCT THOU THE APPROVAL OF THE ARCHITECT
DRAINAGE NOTES
 1) ALL DRAINAGE TO BE ACCORDANCE TO OE. TO SATIS. P.D1 SANS 0254 MEYERS) M1 SANS 10252 ONATERIK SANS (DM (DRAINS)
 2) ALL DRAINAGE BENDS & JUNCTIONS TO BE 90° PATHS WITH DRKED COVERS AT GIRDUND 1.F.VEL PROVIDE R.E.A THE START OF EACH GRAIN RUN AND R.E.5 AT EVERY 25m. THEREAFTER.
 3) ALL DRAINS SIZED SP CIVIL ENG A LAID WITH A MINIMUM OF 1:50.

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EKURHULENI HUMAN SETTLEMENT DEPARTMENT

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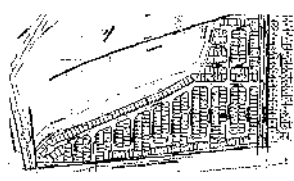
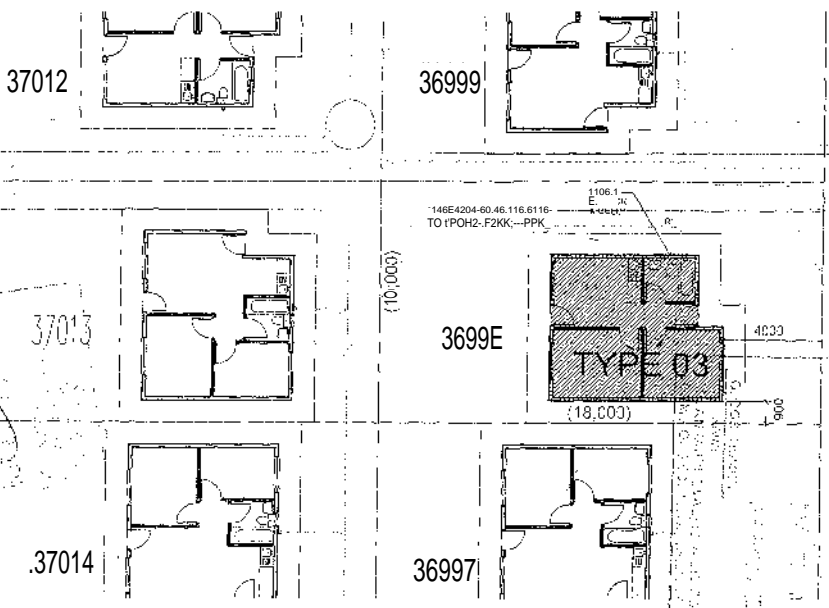
EW HOUSING DEVELOPMENT - ETNAPNA EXT 35
 OR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

DATE	BY	CHKD
A1-1-2013	CVH	18/01/2014
ETV. 35	04 36007.01	

PLAN No. **177/14**

DEPARTMENT	DATE	SIGN
Sanding inspector	16/2/11	17p
City Electrical Eng.		
City ?fanning	21/0.54	[Signature]
Asst. CiZt,	q5V/1-4	[Signature]



PLAPi No. **178/14**

DEPARTMENT	DATE	SIGN
gaging inwector	20/05/14	[Signature]
City Electical E		
Cfty Planning	21/05/14	[Signature]

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BENEFIT.

HOUSE TYPE

GENERAL NOTES

- ALL WORK TO COMPLY WITH THE N.O.P. BUILT.
- ALL DIMENSIONS TO BE READ, 00 NOT SCALE.
- ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND ALL 4 OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE. DISCREPANCIES TO BE REPORTED TO ARCHITECT.
- ALL WORK TO BE COMPLETED WHICH IN ANY WAY COMPROMISES ANY SUPPLIER'S GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT.

DRAINAGE NOTES

- ALL WORK TO COMPLY WITH THE HER. DRAINAGE ACCORDANCE TO EA TO SATISFY WITH SANS 10251 (GEYSERS), SANS 10252 (WATER), SANS 10400 (DRAINAGE).
- ALL DRAINAGE SANDS MUST BE FITTED WITH 1 MATH MARKED SOVERE AT GROUND LEVEL. PROVIDE RE-START OF EACH DRAIN RUN AND R. AT EVERY 20m THEREAFTER.
- ALL DRAINS 8.0 BY CA. ENG 6 LAID W. A MINIMUM OF 1:111.

REVISION	
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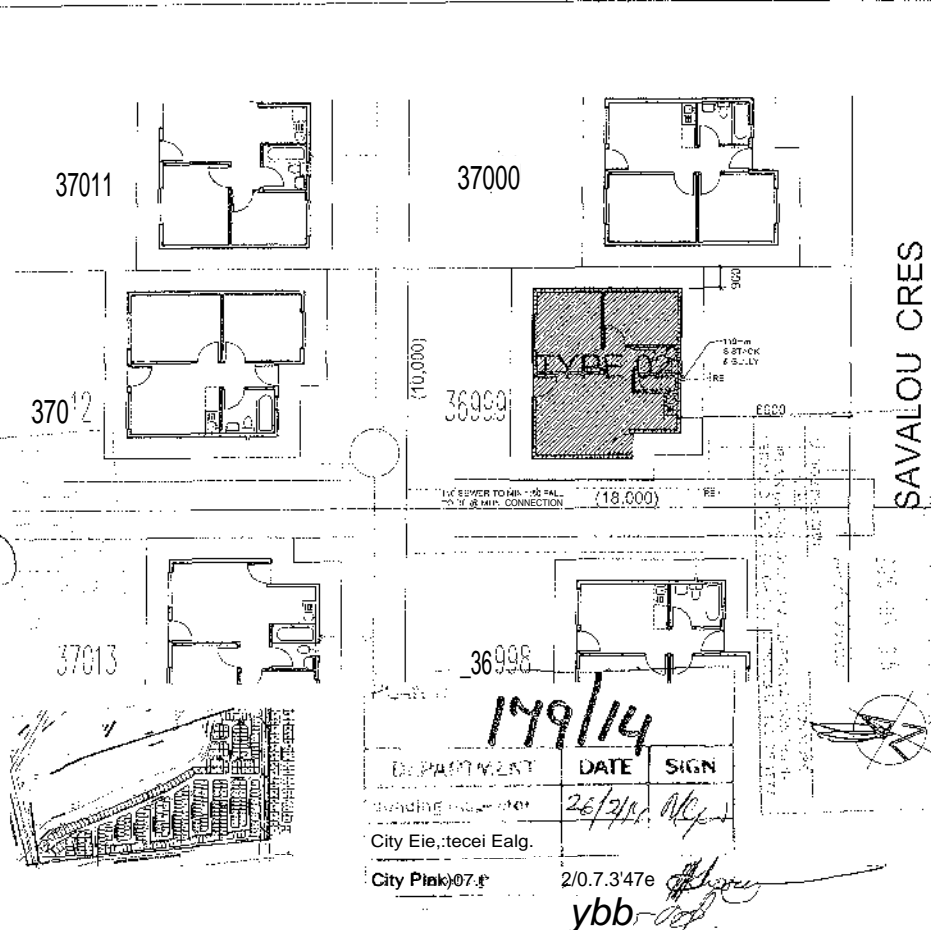
EKURHULENI HUMAN SETTLEMENT DEPARTMENT
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NEW HOUSING DEVELOPMENT - ETWATWA EXT FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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 STAND: NL
 BENEFICIAR
 HOUSE TYPE: Ot

GENERAL NOTES
 1) ALL WORK TO BE IN ACCORDANCE WITH THE NBR BUILDING CODE.
 2) ALL DIMENSIONS BE READ, DO NOT SCALE.
 3) ALL L.L.S. (LEVELS), HEIGHTS, DEPTHS OF EXCAVATIONS, NUMBER OF STOREYS TO BE DETERMINED BY OLE NON-CONCRETE ON SITE OF SCRAPINGS TO BE REMOVED.
 4) NO. OF STOREYS TO BE DETERMINED BY OLE NON-CONCRETE ON SITE OF SCRAPINGS TO BE REMOVED.
 5) ALL DRAINS TO BE FITTED WITH MARKED COVERS AT GROUND LEVEL PROVIDE R.I. AT EVERY 21 METERS THEREAFTER.
 6) ALL DRAINS TO BE FITTED WITH MARKED COVERS AT GROUND LEVEL PROVIDE R.I. AT EVERY 21 METERS THEREAFTER.
 7) ALL DRAINS TO BE FITTED WITH MARKED COVERS AT GROUND LEVEL PROVIDE R.I. AT EVERY 21 METERS THEREAFTER.
 8) ALL DRAINS TO BE FITTED WITH MARKED COVERS AT GROUND LEVEL PROVIDE R.I. AT EVERY 21 METERS THEREAFTER.
 9) ALL DRAINS TO BE FITTED WITH MARKED COVERS AT GROUND LEVEL PROVIDE R.I. AT EVERY 21 METERS THEREAFTER.

REVISED TABLE

NO.	DATE	REVISIONS

Ekurhuleni
 EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT

179/14

DEPARTMENT	DATE	SIGN
	26/2/14	

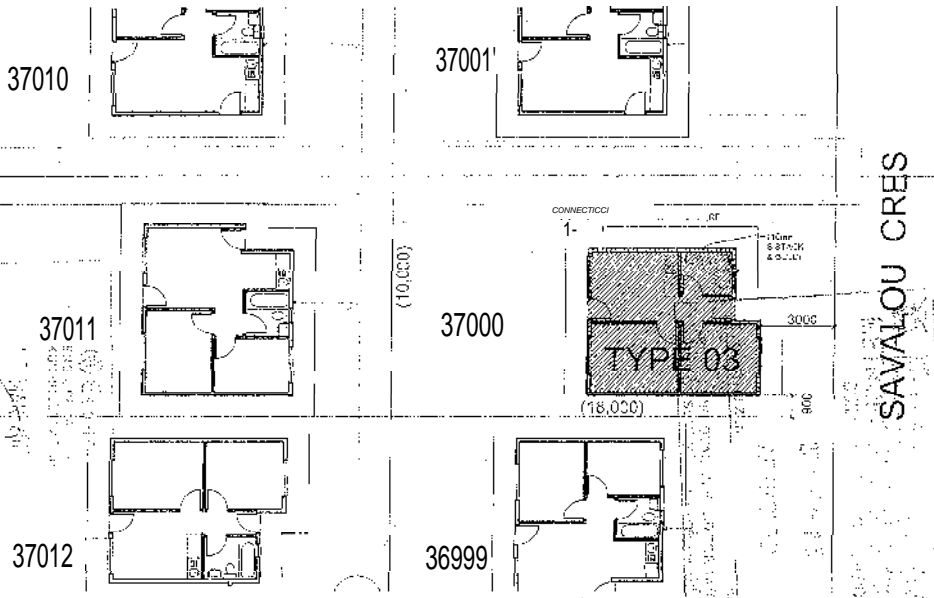
City Engineer: tecei Ealg.
 City Planner: 2/0.7.347e
 ybb

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 NEW HOUSING DEVELOPMENT - ETWATWANE
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

AI-1.200 7.2N.2011 AS

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**BENEFICIAR
HOUSE TYPE 03(k)**

GENERAL NOTES
 ALL WORK TO BE DONE IN ACCORDANCE WITH THE ASH BUILDING CODE
 ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 ALL LEVELS TO BE INDICATED.
 EXCAVATIONS, NUMBER OF STEPS, BE DETERMINED BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE REPORTED TO THE ARCHITECT.
 SUPPLIERS GUARANTEE FOR THAT WHICH IS APPROVED BY THE ARCHITECT.
 DRAINAGE SHALL BE IN ACCORDANCE WITH THE SANS 10254 (GET A) AND SANS 10400 (ORANGE) WITH BENDS FUNCTIONS TO BE PROVIDED WITH COVERS AT GROUND LEVEL PROVIDE REPEATEDLY.
 ALL DRAINS SHALL BE LAID V11711 A MINIMUM OF 1:100.

REVISIONS TABLE

NO.	DATE	DESCRIPTION



EKURHULENI
HUMAN SETTLEMENTS
DEPARTMENT

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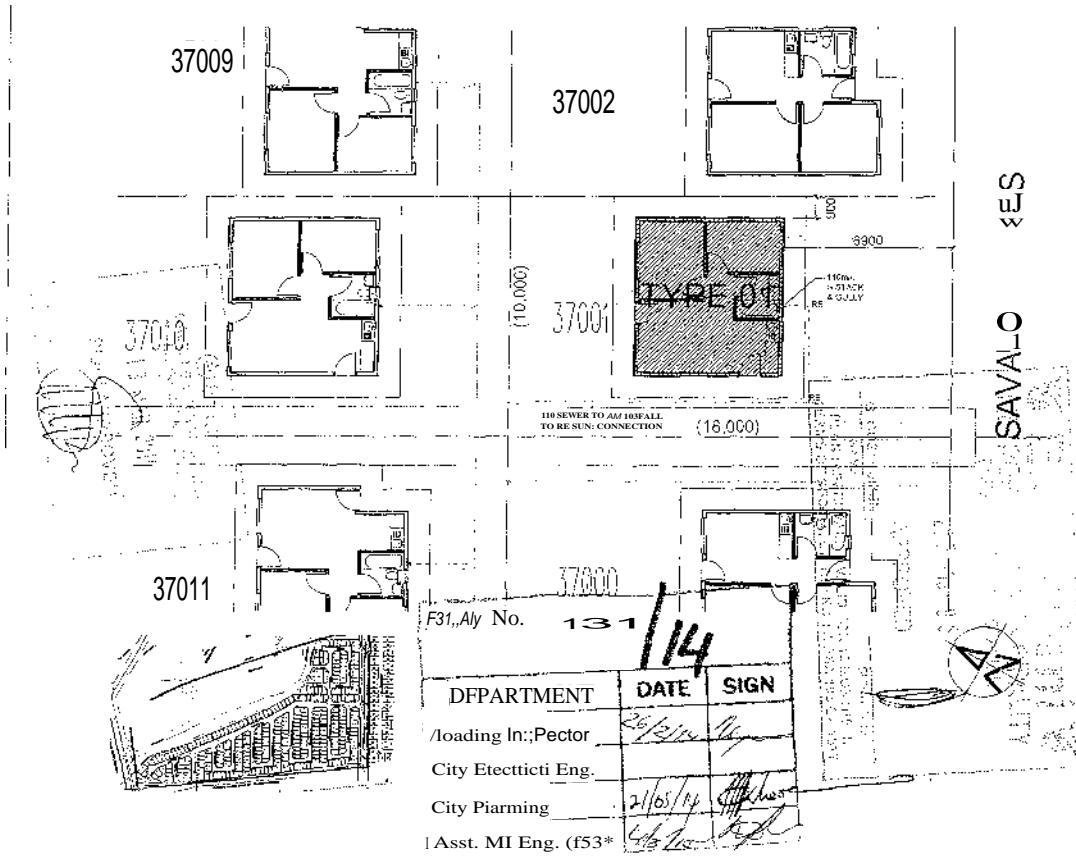
NEW HOUSING DEVELOPMENT - ETWATWA RD
FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

NO.	DATE	DESCRIPTION

PLAN No. **80/14**

DEPARTMENT	DATE	SIGN
Inspector	26/2/14	<i>[Signature]</i>
lefty Electrical Eng.	2/3/14	<i>[Signature]</i>
City Planning	1/3/14	<i>[Signature]</i>



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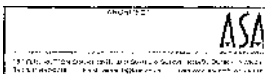
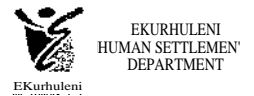
BENEFICIAR.

HOUSE TYPE 01t.

GENERAL NOTES
 1) ALL DIMENSIONS TO PC READ DO NOT SCALE.
 2) ALL LEVELS, EXCEPTED HEIGHTS, DEPTH OF EXCAVATIONS AND NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE OLS CREPANCIES TO BE RESOLVED PO ARCHITECT.
 3) NO WORK TO BE GANNED OUT WHICH IN ANY WAY COMPROMISES ANY SUPPLIERS GUARANTEE FOR FINAL PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT.

DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE NBR. MANAGE IN ACCORDANCE TO DEEM TO SATISFY THE SANS 10254 (GYSEKERS) SANS DM (WATER & SANS 1040 DRAINAGE).
 2) A. OR ANTI-AGE DENO. JUNCTIONS TO BE FITTED WITH WOOD HARDED COVERS TO GROUND LEVEL PROVIDED E.E. THE START OF EACH DRAIN RUN AND RE.I AT EVERY 2SE THEREAFTER.
 3) ALL DRAINS SOED BY CIVIL ENG 6 IAD WITH. WNW. OF 1110

REVISION TABLE	
NO.	DESCRIPTION



NEW HOUSING DEVELOPMENT - ETWATWA EXT 3 FOR EKURHULENI METROPOLITAN MUNIOPALIT

SITE PLAN

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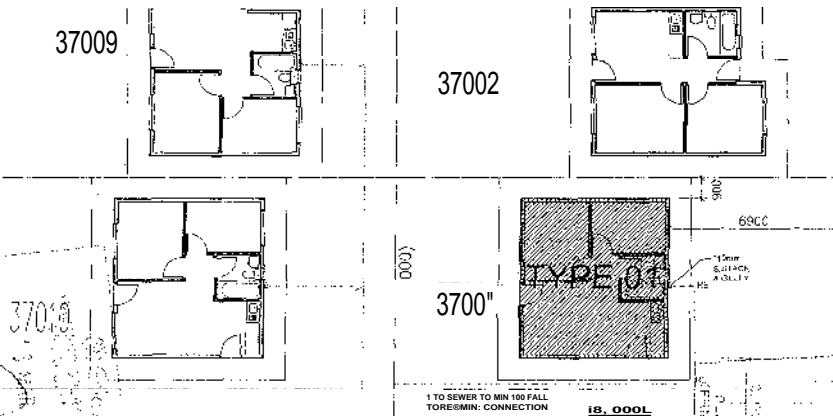
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DEPARTMENT	DATE	SIGN
/loading In; Pector	26/2/14	[Signature]
City Eteecticti Eng.		
City Piarming	21/03/14	[Signature]
Asst. MI Eng. (f53*)	6/3/14	[Signature]

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37002



SAVALOU CRES

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HOUSE TYPE 01(E)

GENERAL NOTES

ALL LYS. TO 003.61, WITH THE THE MR BUILDING GOES.
 1) ALL DIMENSIONS TO SF READ, DO NOT SCALE
 2) ALL LEVELS, CHIESS 10% HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS TO BE DETERMINED BY TAP CONT. CON ON SIM 6:SGREPANGIOS TO BE REPOS TED TO ARCHTECT.

4) NO WORD TO PE CUT WHICH 141, WAY COMPROMISE'S ANA ILPILERS GUARANTEE FOR THAT PRODUCT AETHOLD THE APPROVAL OF THE ARCHTECT

DRAINAGE NOTES

- 1) ALL LING. TO COMPLY WITH THE THE MR. DRAINAGE IN AGCORRIDGE TO SEEK TO SATISFY WITH SANS 13254 (GEYSERS, SANS. 252 (WATER) 6 SANS 10400 (DRAINAGE
- 2) ALL DRAINAGE PENOS S. JUNCTIONS TO BE FITTED WITH LARKED GOWNS AT GROUND LEVEL. PROVIDE R.L. THE START OF EACH DRAIN RUN AND R.E., AT EVERY 25m THEREAFTER.
- 3) ALL DRAINS S. ED BY GP., ENG 6 LAID WITH A MINIMUM FA SO.

REVISION TABLE	
NO.	DESCRIPTION



EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT

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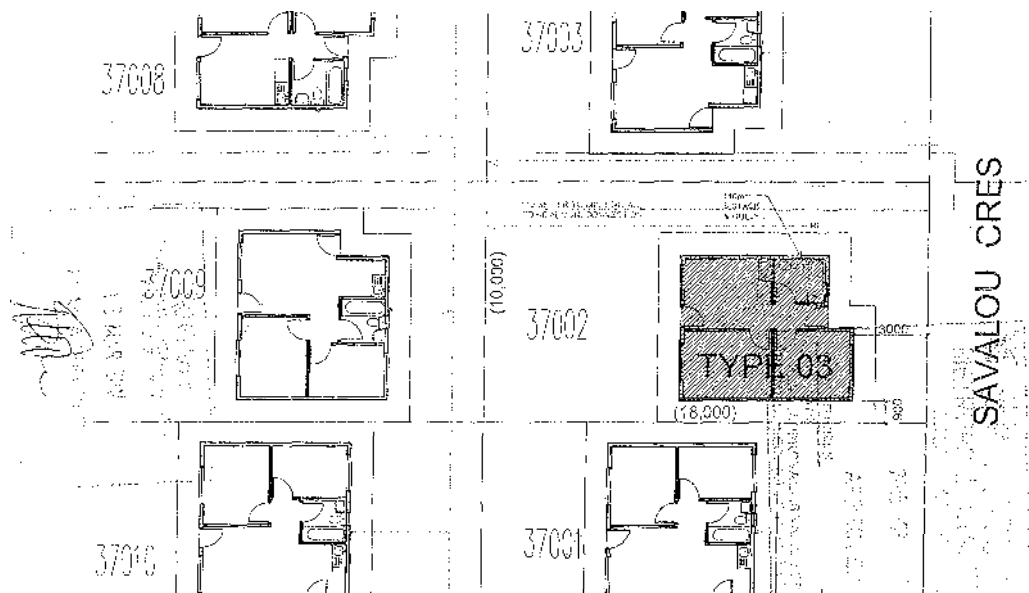
NEW HOUSING DEVELOPMENT - ETWATWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

DATE	SCALE	PROJECT NO.
21/05/14	1:1000	34-37001.01
DESIGNED BY	CHECKED BY	DATE

PLAN No. **181/14**

DEPARTMENT	DATE	SIGN
F.suiding in5pe(Aor	20/5/14	[Signature]
City Electrical Eng.	21/05/14	[Signature]
city Planning	21/05/14	[Signature]
Asst. f-ity Eng. (Saw)	21/05/14	[Signature]



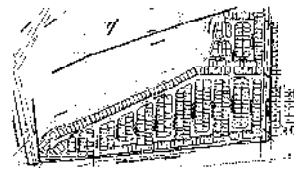
AREA: ETV
STAND NUFAL

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HOUSE TYPE

GENERAL NOTES
 1) ALL WORK TO COMPLY WITH THE NBR MOLDING
 2) ALL DIMENSIONS TO BE READ, HANG/SCALE
 3) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF
 EXCAVATIONS AND SLOPES OF STEPS TO BE DETERMINED
 BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE
 REPORTED TO ARCHITECT
 4) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY
 COMPROMISES ANY SUPPLIER'S GUARANTEE FOR THE
 PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT
DRAINAGE NOTES
 1) ALL WORK TO COMPLY WITH THE NBR, DRAINAGE
 ACCORDANCE TO DENI TO SATISFY WITH SANS 10400
 (COVERS): E = 1:1000 (WATERS) SANS 10400 LOFT.
 2) ALL BENDS AT JUNCTIONS TO BE FITTED WITH
 WITH WAD, COVERS AT GROUND LEVEL, PROVIDE R.F.
 THE START OF EACH DRAIN RISE AND R.F. AS EVER
 THERE/TIER.
 3) ALL DRAINS 812.20 BY OWNERS LAD W/1211 AND NPAUS
 OF DOD

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PLAN No. **182/14**

DEPARTMENT	DATE	SIGN
Inspechn	26/3/14	<i>[Signature]</i>
City Electrical Eng.	21/05/14	<i>[Signature]</i>
City Manning	16/3/14	<i>[Signature]</i>



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**EKURHULENI
 HUMAN SETTLEMENTS
 DEPARTMENT**

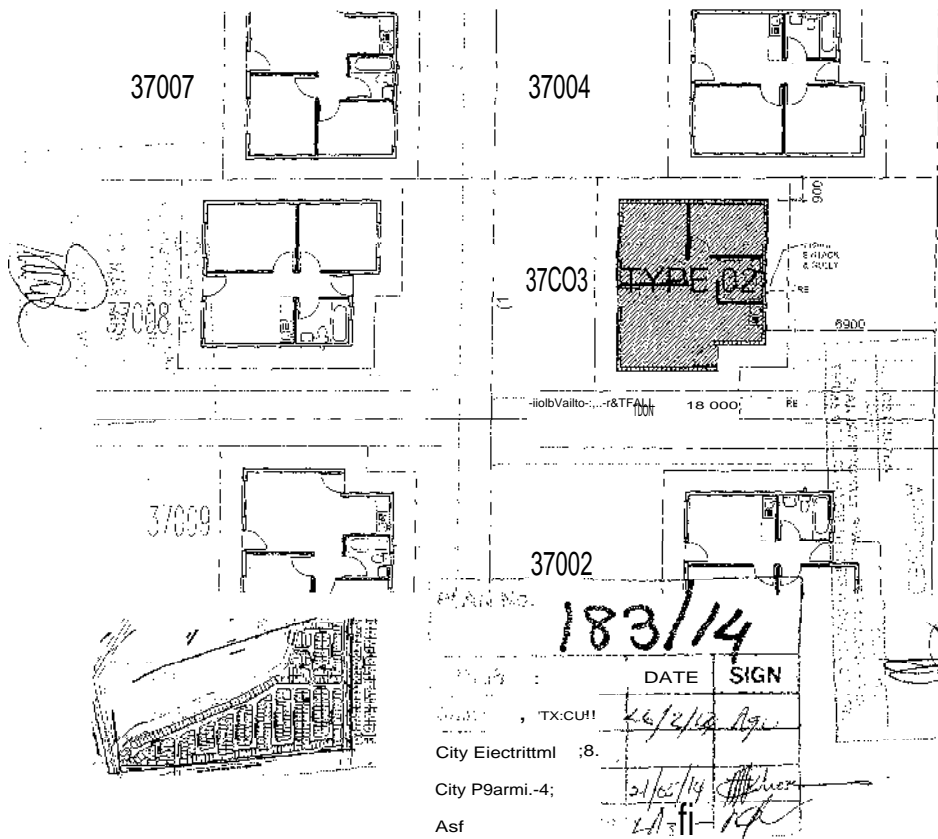
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NEW HOUSING DEVELOPMENT, ETWATWIA EXT
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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STAND NUMB.

BENEFICIARY
HOUSE TYPE 02(M)

- GENERAL NOTES**
- 1) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 2) ALL WORK TO COMPLY WITH THE DE NBR BUILDING CODES.
 - 3) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 4) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 5) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 6) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 7) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 8) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 9) ALL DIMENSIONS TO BE READ DO NOT SCALE.
 - 10) ALL DIMENSIONS TO BE READ DO NOT SCALE.
- DRAINAGE NOTES**
- 1) ALL WORK TO COMPLY WITH THE DE NBR, DRA. C.E. IN ACCORD. TO OF. DO SATISFY WIN SANS 10.
 - 2) ALL DRAINAGE SIZES & JUNCTIONS TO BE FIT TO WITH LE WITH MARRED COVERS AT GROUND LEVEL. PROVIDE R.E. AT THE START OF EACH DRAIN R. AND R.E.1 AT EVERY ESN THEREAFTER.
 - 3) ALL DRAINS SIZES BY CIVIL ENG & LAW WYPH A MINIMUM. FA. OF 180.

REVISION TABLE

NO.	DESCRIPTION	DATE

1104 HUMAN SETTLEMENTS DEPARTMENT

Ekurhuleni

DO OANONOMI Fatsizwa A. ILEANAL Dr.

ASA

PROJ.

NEW HOUSING DEVELOPMENT, ETWATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

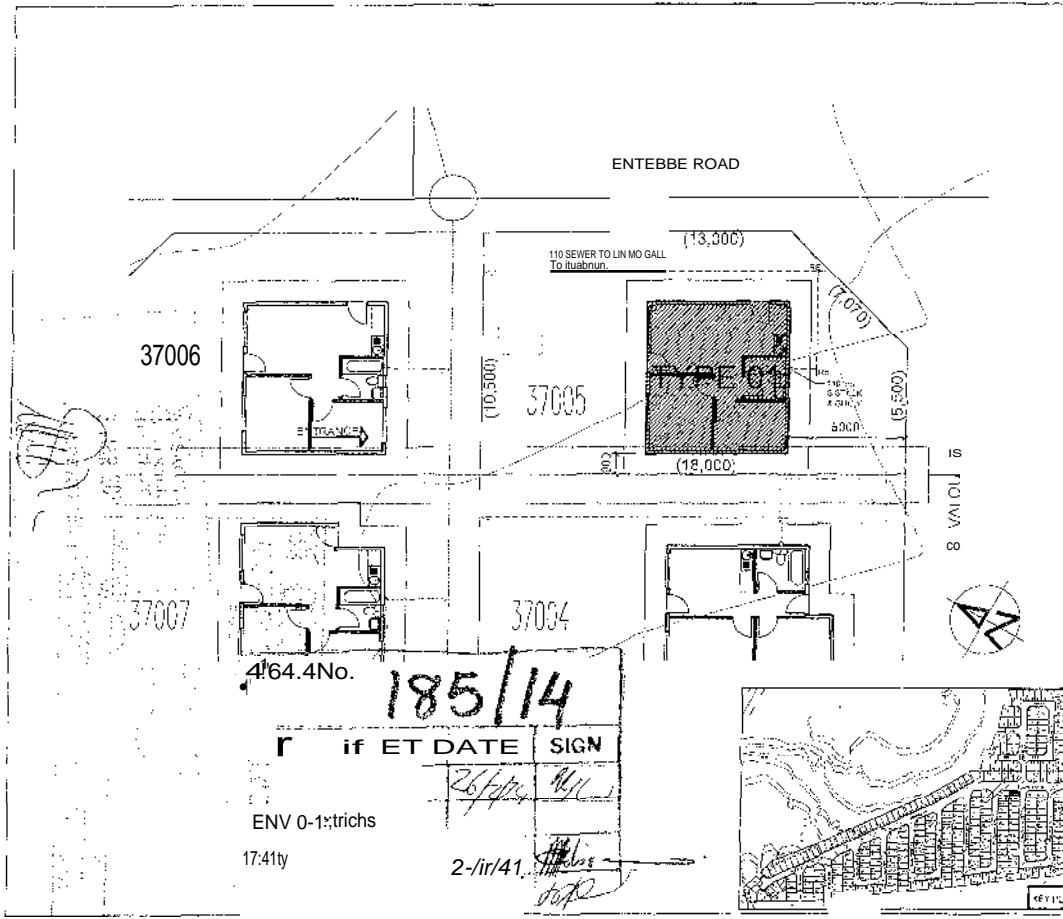
PLAN No. 183/14

DATE	SIGN
26/2/14	[Signature]
27/02/14	[Signature]
27/02/14	[Signature]

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STAND NUMBER.

BENEFCIARY
HOUSE TYPE 01

GENERAL NOTES
 ONLY FOR TO 00440.01 T. THE HER BUIOND CODEA
 ALL **310. TO BE READ, ON NOT SCALE
 1. ALL **05. HEIGHTS, DEPTH OF
 E.X. 405. **SER OF STEPS TO BE DETERMINED
 BY RUE CO. **0. R. SITE DISCREPANCIES TO BE
 ..E0. WH101 IX ANT WAY
 ..MAl. GUARANTEE FOP
 CC*
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 ..OVERS AT GRO. AND LEVEL. PRIOR DE. A.E.
 THE START OF EACH DRAIN RDA AND R.S. AT EVERT
 THEREAFTER
 L ALL DRAINS SHIED EV CAL.. LEND LAD WITH A 1.41 A1.14 FAL
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EKURHULENI HUMAN SETTLEMENTS DEPARTMENT

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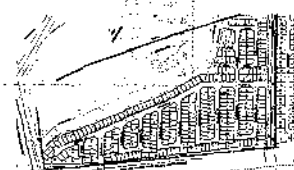
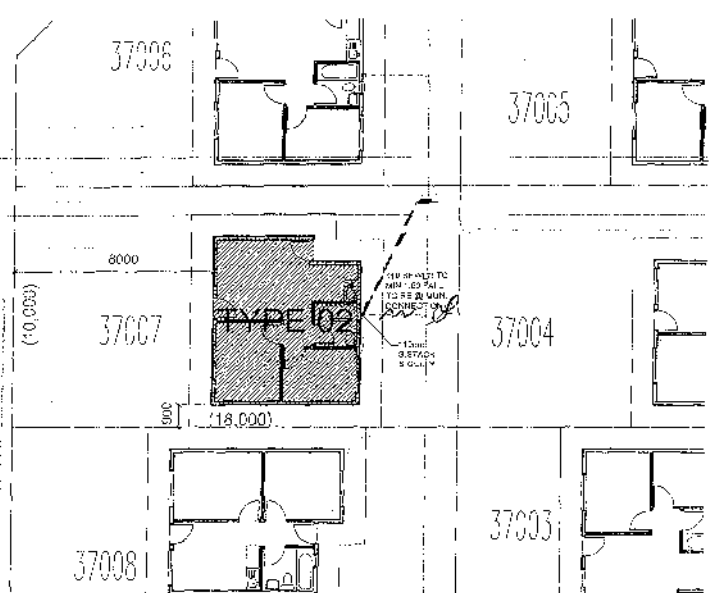
NEW HOUSING DEVELOPMENT ETWATINA 001 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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ETVA 35	04.37005.01		GIBB



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PLAN No. **187/14**

L DEPARTMENT	DATE	SIGN
Building Inspector	26/2/14	[Signature]
City Electrical Eng.		
City Planning	21/03/14	[Signature]
City Enp (Sew)	12/2/10	[Signature]

#REK.
STAND NU.

BENEFICIARY
HOUSE TYPE 02

- GENERAL NOTES**
- 1) ALL WORK TO COMPLY WITH THE NEB BUILDING CODES
 - 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 - 3) ALL LEVELS EVEN WITH NEB ITS DEPTH OF EXCAVATIONS NO NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR BY SITE DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 - 4) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY CAUSE DAMAGE TO ANY SUPPLIES GUARANTEED FOR THAT PRODUCT WITHIN THE APPROVAL OF THE ARCHITECT.
- DRAINAGE NOTES**
- 1) ALL WORK TO COMPLY WITH THE NEB DRAINAGE IN ACCORDANCE TO DEEM TO SAISIFY WITH SANS 10460 (WATER) & SANS 10252 (WATER) & SANS 10460 (DRAINAGE) & SANS 10252 (WATER) & SANS 10460 (DRAINAGE)
 - 2) ALL DRAINAGE BENDS JUNCTIONS TO BE FITTED WITH I.G. MARKED COVERS AT GROUND LEVEL PROVIDE E.A.I.T. START OF EACH DRAIN RUN AND R.E.I.S AT EVERY 20m THEREAFTER
 - 3) ALL DRAINS SIZED BY CIVIL ENG 6 LAID PATNA MIN-WM FM OF 1.63.

REVISION	DATE	BY	REASON

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MUNICIPALITY
DEPARTMENT
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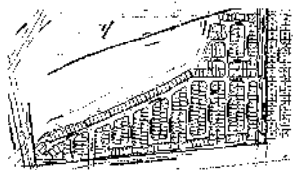
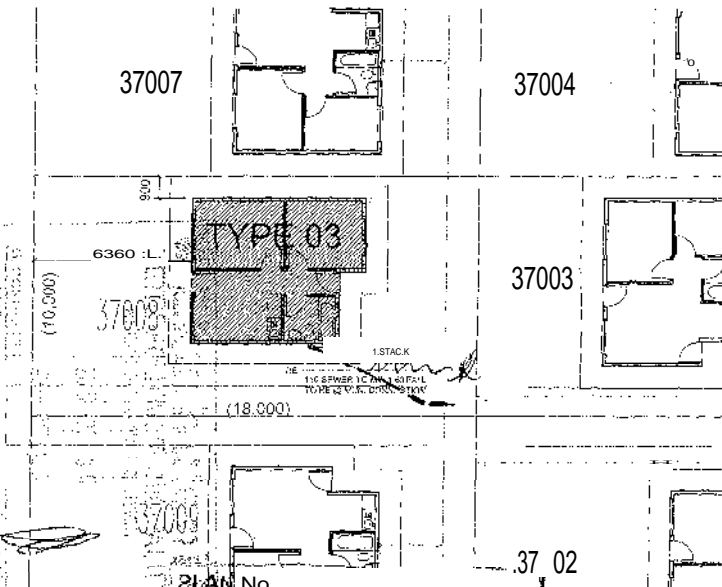
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NEW HOUSING DEVELOPMENT - ETWATWA EXT 35
FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

DATE	BY	DATE	BY
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KOROGWE CRES



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oEpARTment	DATE	SIGN
1,044irsg Itisvector	26/7/14	[Signature]
3y E;ocricai Eng.		
City Planning	21/8/14	[Signature]
(Asst. CitY F:r2.	4/3/15	[Signature]

AREA: E
STAND NU.,

BENEFICIAR
HOUSE TYPE 0

- GENERAL NOTES**
- 1) ALL WORK TO COMPLY WITH THE THE NBR BUILDING
 - 2) ALL DIMENSIONS TO BE READ ON HOT SCALE
 - 3) WALL LEVEL 1' 0" (1014) HEIGHTS, DEPTH OF 01CFNAT100, 0# NUMBER OF STEPS TO BE DEIERFANEL BY 00T *** ON ON SHE DISCREPANCIES O OE REPO.00 TO A ARCHITECT.
 - 4) NO TO P...ED OUT WHICH ANY WAY COT 01 018F *** SUPPLIERS GUARANTEE FOR THAT ARC., 07. THE APPROVAL OF THE ARCHITECT
- DRAINAGE NOTES**
- 1) ALL WORK TO 00.0, WITH THE THE 00R DRAINAGE ACCORDIAN, TO DEEM TO SATISFY WITH SANS 1025A (0,KARs, s. 5, 252 MATER) E SAPS 0100 (DRAINAGE)
 - 2) ALL OFAJNADA BONDS & JUNCTIONS TOE P0TED W/1:1 WITH HARDED COVERS AT GROUND LEVEL. PROVIDE R.E THE START OF EACH DRAIN RUN AND RE., EVERY 25m THEREAFTER.
 - 3) ALL DRAINS SIZED BY CIVIL ENO & LAID PATNA IONUMMI OF 1:00.

DATE	04/03/15
BY	[Signature]
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hti EKURHULENI HUMAN SETTLEMENTS DEPARTMENT
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NEW HOUSING DEVELOPMENT - ETWATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY
DESCRIPTION
SITE PLAN

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AREA: ETWk

STAND NUMBER.

BENEFICIARY

110USE TYPE 02

GENERAL NOTES

1) ALL WORK TO COMPLY WITH THE THE NBR BUILD. COOD. (1) ALL DIMENSIONS TO BE READ, DO NOT SCALE. ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, ROAD NUMBER OR STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE. DISCREPANCIES TO BE REPORTED TO ARCHITECT.

2) SO WORK TO BE CORRECTED OUT WHICH IN ANY WAY COMPROMISES ANY SUPPLIERS GUARANTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF MEOW.

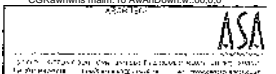
3) WORK TO COMPLY WITH THE NBR. DRAINAGE IN ACCORDANCE TO DEEM TO SATISFY WITH SANS 10386 (EHEMERS, IN SANS 10382 (WATER) & SANS 10403 (DRAINAGE) 2101.1 DRAINAGE BENDS & JUNCTIONS TO BE FITTED WITH... WITH MARKED DIMENSIONS AT GROUND LEVEL, PROVIDE R.E. AT THE START OF EACH DRAW RUN AND R.E. IN EVERY 25M THEREAFTER. ALL DRAINS SHALL BE BY OVER A 6% FALL TO A MAIN OR 150.

REVISION TABLE	
NO.	DESCRIPTION



EKURHULENI HUMAN SETTLEMENTS DEPARTMENT

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NEW HOUSING DEVELOPMENT - ETWATWA EXT FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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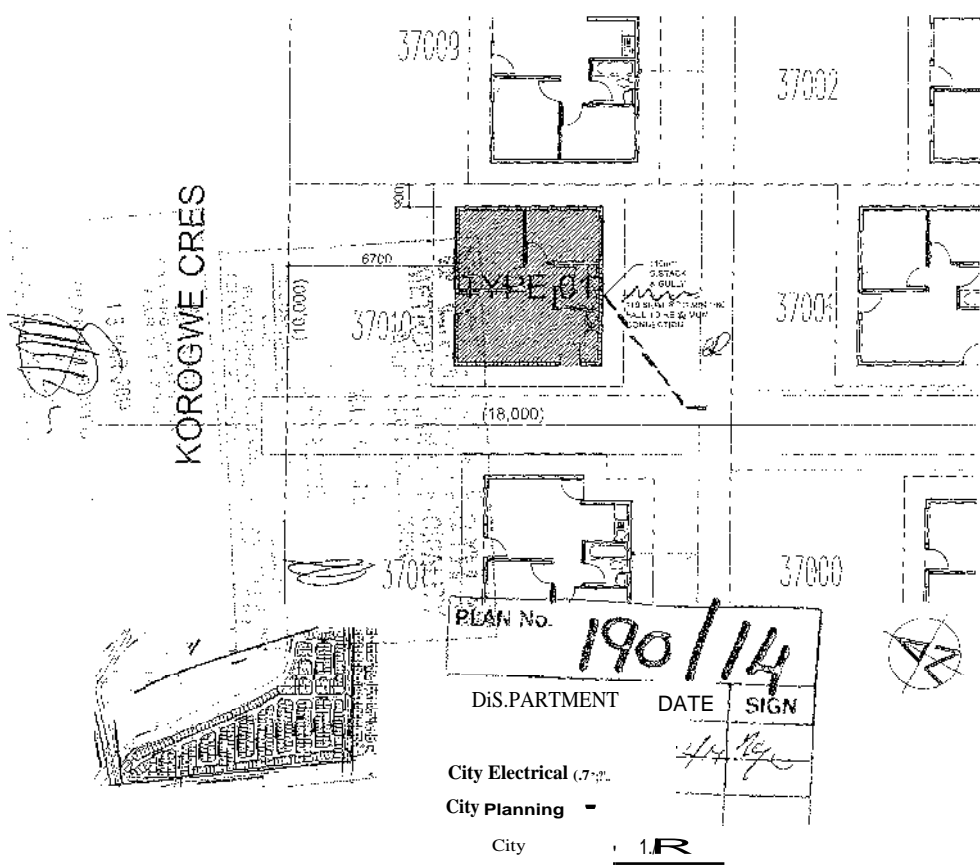
Electric Eng

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DATE SIGN

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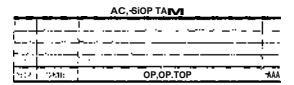
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BENEFICIARY
HOUSE TYPE 01(M)

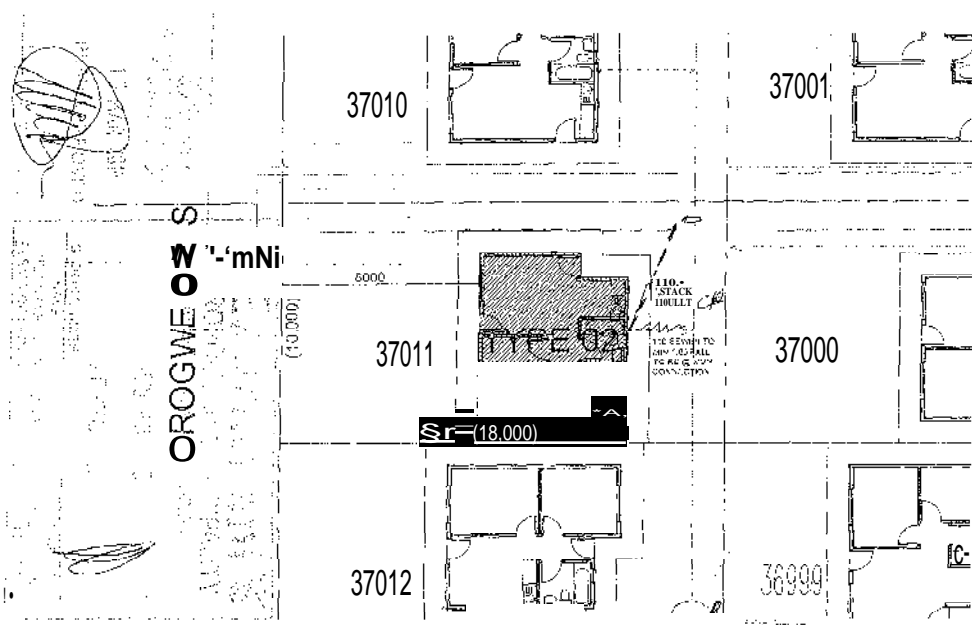
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 HUMAN SETTLEMENT
 DEPARTMENT
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NEW HOUSING OEVEL0711&T DAIWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

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BENEFICIARY
HOUSE TYPE 02

GENERAL NOTES
 1) ALL WORK TO BE DONE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS AND THE NATIONAL ELECTRICAL REGULATIONS.
 2) ALL WORK TO BE DONE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS AND THE NATIONAL ELECTRICAL REGULATIONS.
DRAINAGE NOTES
 1) ALL WORK TO BE DONE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS AND THE NATIONAL ELECTRICAL REGULATIONS.
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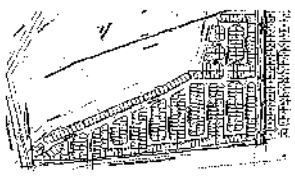
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Ekurhuleni HUMAN SETTLEMENTS DEPARTMENT
 Ekurhuleni

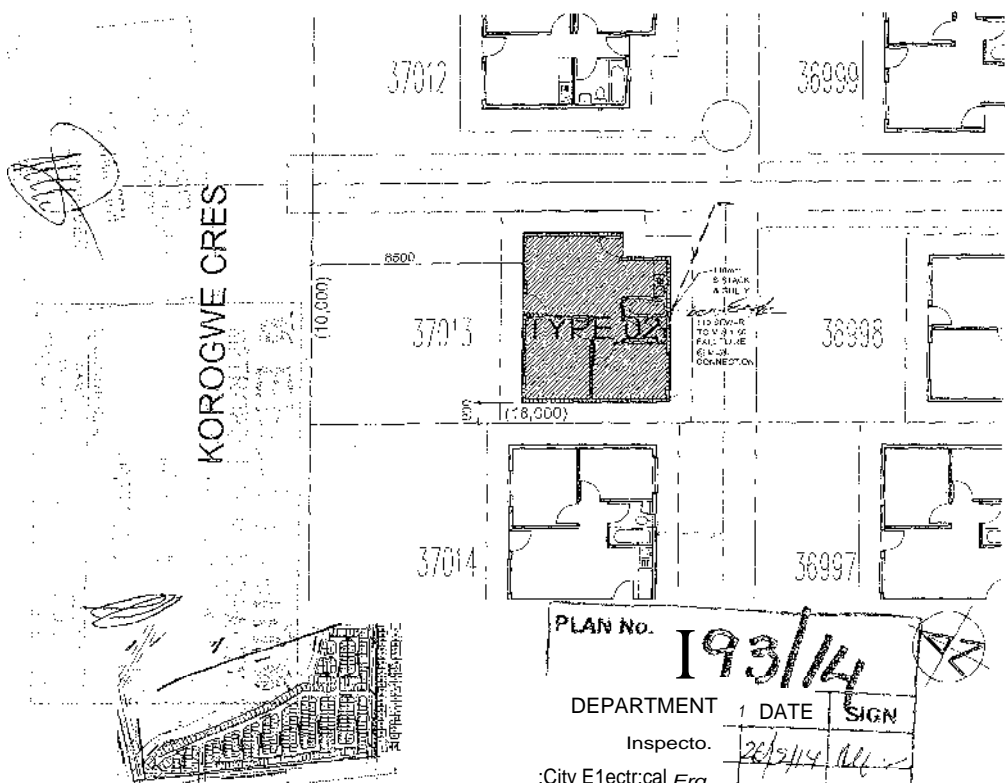
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NEW HOUSING DEVELOPMENT • ETWAIWA EXT FOR EKUPHULENI METROPOLITAN MUNICIPALITY

SITE PLAN
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DEPARTMENT DATE	
City Electrical Eng.	28/12/14
City Planning	21/05/14
City Eng. (S.ovel ze)	10/10/14



PLAN No. **193/14**

DEPARTMENT	DATE	SIGN
Inspecto.	26/5/14	[Signature]
City Electrical Erg.		
City Planning	21/05/14	[Signature]
(Asst. Ctv		

1STAND

BENEFICIARY HOUSE TYPE C

GENERAL NOTES
 1) ALL WORK TO COMPLY WITH THE THE NBR BUILDING CODE (ALL OVERNIGHT) 10: RE READ, 30: NOT SCALE
 2) ALL LEVELS (FOUNDATION HEIGHTS, CEPTH OF MAY, CANS, AND ROOMER OF STEPS TO BE DE TERMS BY THE CONTRACTOR ON SITE DISCREPANCIES TO BE REPORTED TO ARCHITECT
 3) NO WORK TO BE CARRIED OUT WHICH IN ANY WAY COMPROMISES ANY SUPPLIERS GUATNTEE FOR THAT PRODUCT WITHOUT THE APPROVAL OF THE ARCHITECT

DRAINAGE NOTES
 1) DALE WORE TO COMP. WITH THE TEE NPR. DRAINAGE 9 ACCORDING TO OREM SATIFTY (MTH SA-NS (GEYERS) A SANS 1052 (WATER) S SANS 10400 (GRAM 2) ALL DRAINAGE BENDS 6 JUNCO. TO BE ESTYED (M) MARKED COVERS AT GROUND LEVEL PROVIDE R) THE MATO. EACH DRAIN RCM (MAD R.E. 2) AT EVERY 25 THEREAFTER
 3) ALL DRAINS SUED BY OW, ENGLAID WO) A (.666666 OF 100.

REVISION TABLE

NO.	DESCRIPTION	DATE



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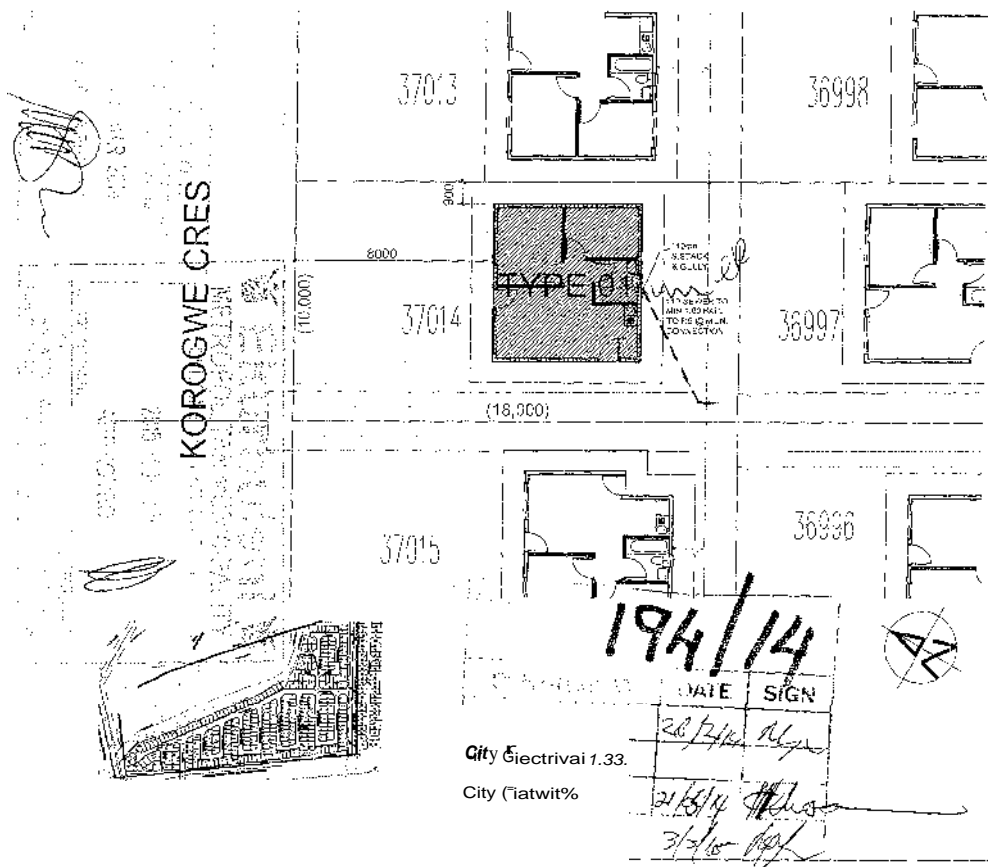
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NEW HOUSING DEVELOPMENT - EIWATWA EXT FOR EKURHULENI METROPOLITAN MUNICIPAL

SITE PLAN

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AREA:

STAND NUM.

BENEFICIARY
HOUSE TYPE 01(M)

- GENERAL NOTES**
1. ALL WORK TO CORP. WITH THE NOR (EULONS CODE)
 2. ALL DIMENSIONS TO BE READ ON NOT SCALE.
 3. ALL TERELS, DIMENSIONS HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STEPS TO BE DETERMINED BY THE CONTRACTOR ON SITE. DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 4. NO WORKS TO BE CARRIED OUT WHICH IN ANY WAY COMPROMISED ANY SUPPLIERS GUARANTEE FOR THAT PRODUCT. INTORT THE APPROVAL OF THE ARCHITECT.
- DRAINAGE NOTES**
1. ALL WORK TO COMPLY WITH THE NOR, DRAINAGE IN ACCORDANCE TO CHET 10 TO SATISFY W111 SANS 30264 (GYSERSH; TANS 10252 (WATER) 8 SANS MOE (DRAINAGE MALL DRAINAGE SLABS 6 JUNCTIONS TO BE FT 100 WIT MTH MARKED EWEERS AT GROUND LEVEL. PROVIDE R.E.A THE START OF EACH ORAN RUN AND AT EVERY MT THEREAFTER.
 - MALL ORNMISED ET CIVIL ENG 6.10 WITH A AIIMUMUM 16 OF EEO.

REVISION TABLE

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NEW HOUSING DEVELOPMENT- E1 WATWA EXT 35 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SOS PLAN

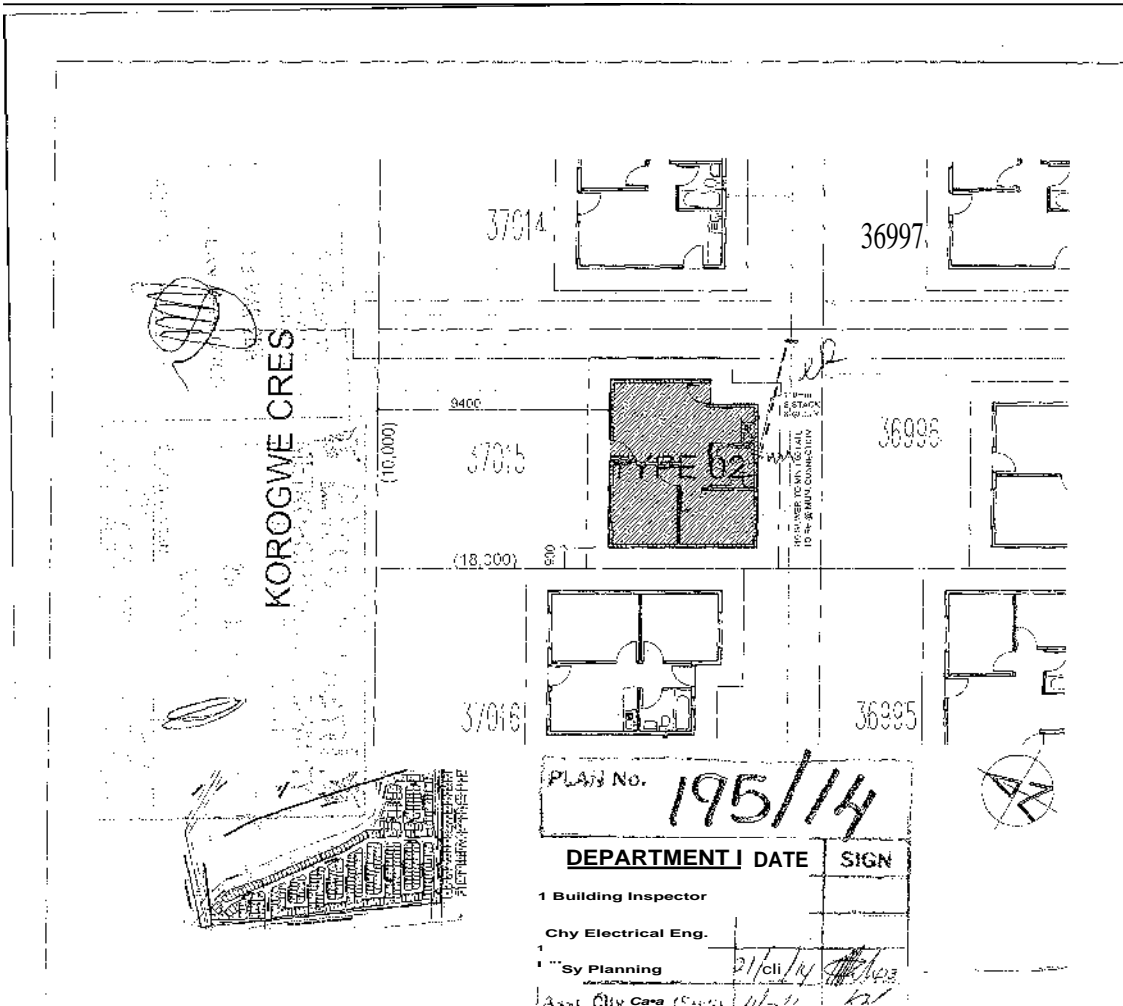
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194/14

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21/3/14	[Signature]
3/3/15	[Signature]

City Electrivai 1.33.
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STAND NUMBEK:

BENEFICIARY

HOUSE TYPE 02

GENERAL NOTES

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DRAINAGE NOTES

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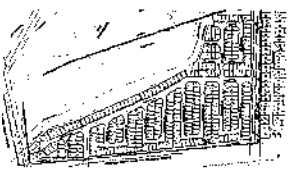
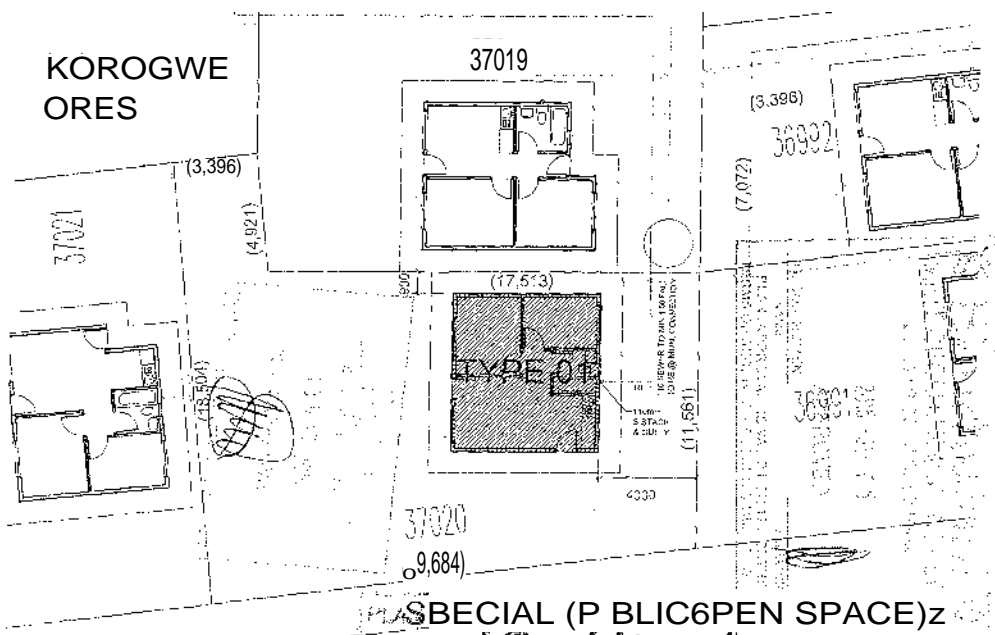
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NEW HOUSING DEVELOPMENT - EIWATINA EXT 3
FOR EKURHULENI METROPOLITAN MUNICIPALIT

SITE PLAN





HOUSE TYPE 01(M) (PUBLISHED SPACE) z

199/14

DEPARTMENT	DATE	SIGN
13 tiiking ins:pector	3/3/14	<i>[Signature]</i>
City Electrical Eng.		
City Planning	2/5/14	<i>[Signature]</i>
1st. rity Eng. (Sew)	7/1/14	<i>[Signature]</i>

AREA: Et.
STAND NLMb.

BENEFICIARY
HOUSE TYPE 01(M)

- GENERAL NOTES**
- 1) ALL DIMENSIONS TO COMPLY WITH THE THE NOR BUILDING LADES
 - 2) ALL DIMENSIONS TO BE READ, DO NOT SCALE.
 - 3) ALL LEVELS, DIMENSIONS, HEIGHTS, DEPTH OF EXCAVATIONS, AND NUMBER OF STERS TO BE DETERMINED BY THE CONTRACTOR ON SITE. DISCREPANCIES TO BE REPORTED TO ARCHITECT.
 - 4) NO WORK TO BE DONE WHICH IN ANY WAY COMPROMISES THE SUPPLIER'S GUARANTEE FOR THAT NO. THE APPROVAL OF THE ARCHITECT.
- DRAINAGE NOTES**
- 1) ALL WORK TO GO TO WITH THE THE NOR. DRAINAGE IN ACCORDANCE TO EN TO SAGS, WITH SANS 10234 (GEYSERS) IN SANS 10232 (RATER), SANS 10400 (DRAINAGE).
 - 2) ALL DRAINAGE BENDS & JUNCTIONS TO BE FITTED WITH 111 I.E. WITH MARKED COVERS AT GROUND LEVEL. PROVIDE R.R.A. THE STAR 112 EACH DRAIN RUN AND R.E. % AT EVERY 23m HEREFTER.
 - 3) ALL DRAWS SURED BY City. ENG 6 LAID WITH A MINIMUM FM OF DLO.

REVISION TABLE	
NO.	DESCRIPTION



EKURHULENI
HUMAN SETTLEMENTS
DEPARTMENT

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NEW HOUSING DEVELOPMENT- EIWAPNA EX7 35
FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

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AREA: ETWATWA EXT. 35

STAND NUMBER: 36916

BENEFICIARY

HOUSE TYPE 01

GENERAL NOTES
 1. ALL WORK TO BE IN ACCORDANCE WITH THE NBR SLALOM CODES.
 2. ALL OVENSI... 2 READ. 00 NOT SGR.E.

ESC: ... *HATBER CA STEPS TO BE OSTER...
 85° 7' ... *ON SITE DISCREPANT GS 4HT 98

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DRAM... 1TES
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 ... TO SATISFY WITH S&B 1058
 ... H&S2 ANAYER, 8 SANS I&LUN
 2. ALL ... SENDS & JUNCT ONS TO BE FITTED W/ON L.E.
 YMTN MA... 0 COVERS AT GROUND LEVEL PROSI. R.E A
 THE START OF EACH DRAIN RUN AND R.E SAT EVERY 25m
 THEREAFTER
 2. ALL DRADNS SISED BY OVA ENG IF LAO MTN q WHIRLS. FALL
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MEASUREMENT TABLE

NO.	DESCRIPTION	MEASUREMENT



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 HUMAN SETTLEMENTS
 DEPARTMENT

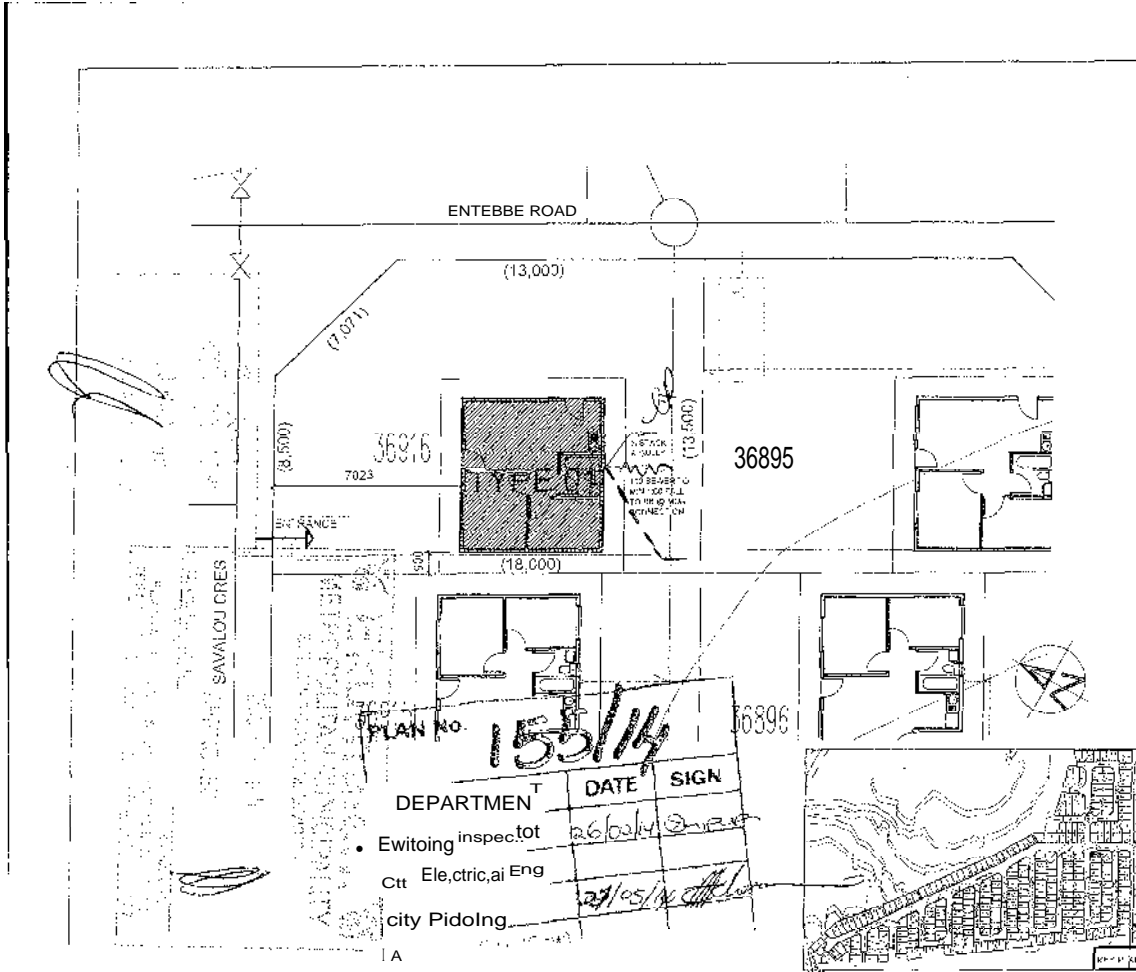
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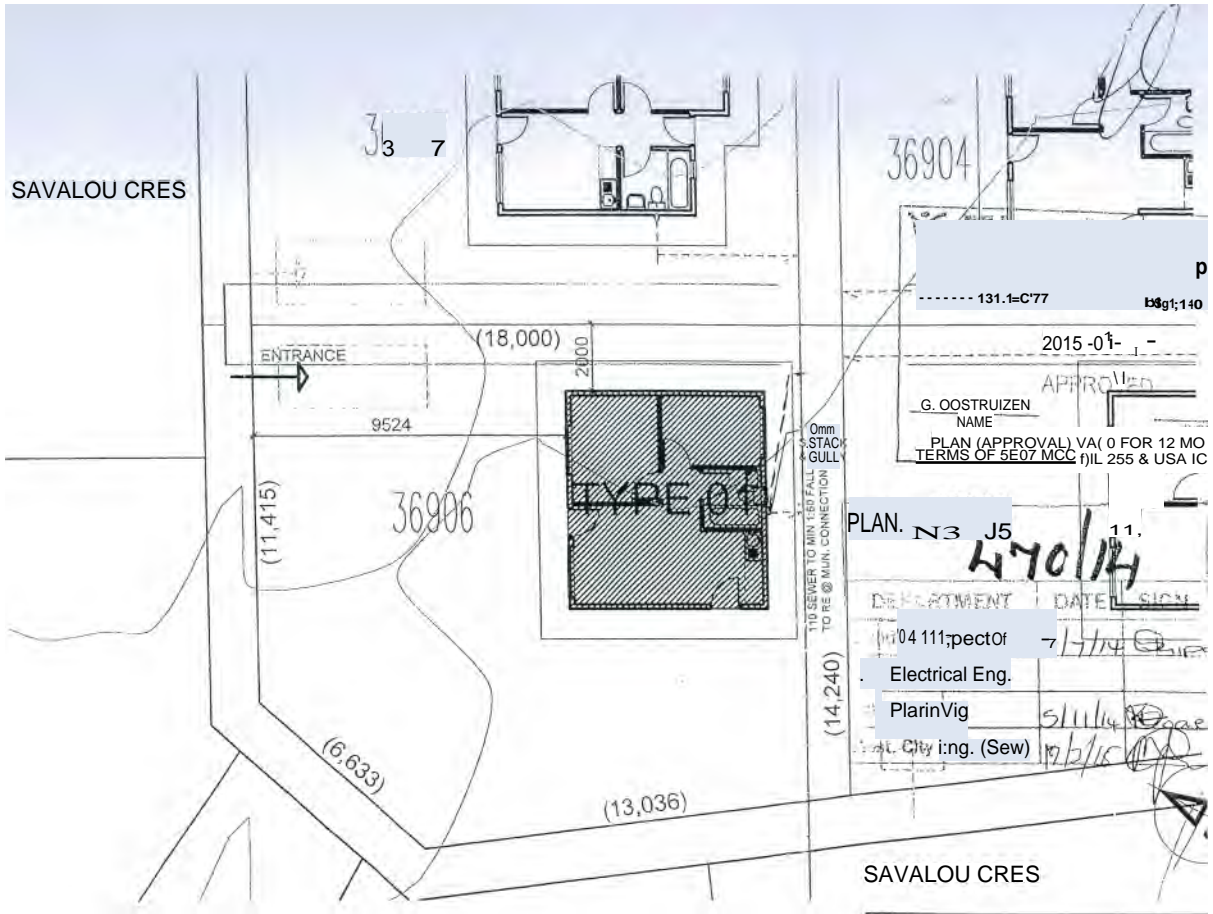
PROJECT
 NEW HOUSING DEVELOPMENT - ETWATWA EXT 35
 FOR EKURHULENI METROPOLITAN MUNICIPALITY

SITE PLAN

DATE	7.7.2014
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PROJECT NO.	55.25.916.01
CLIENT	ASA



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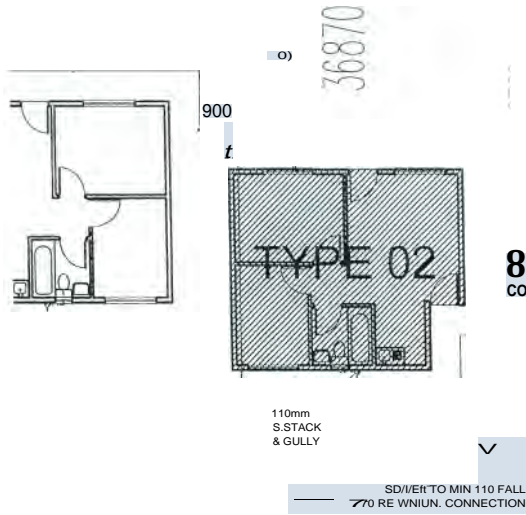
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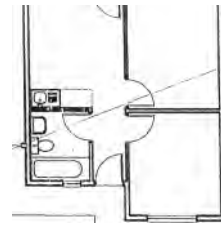
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Electrical Eng.

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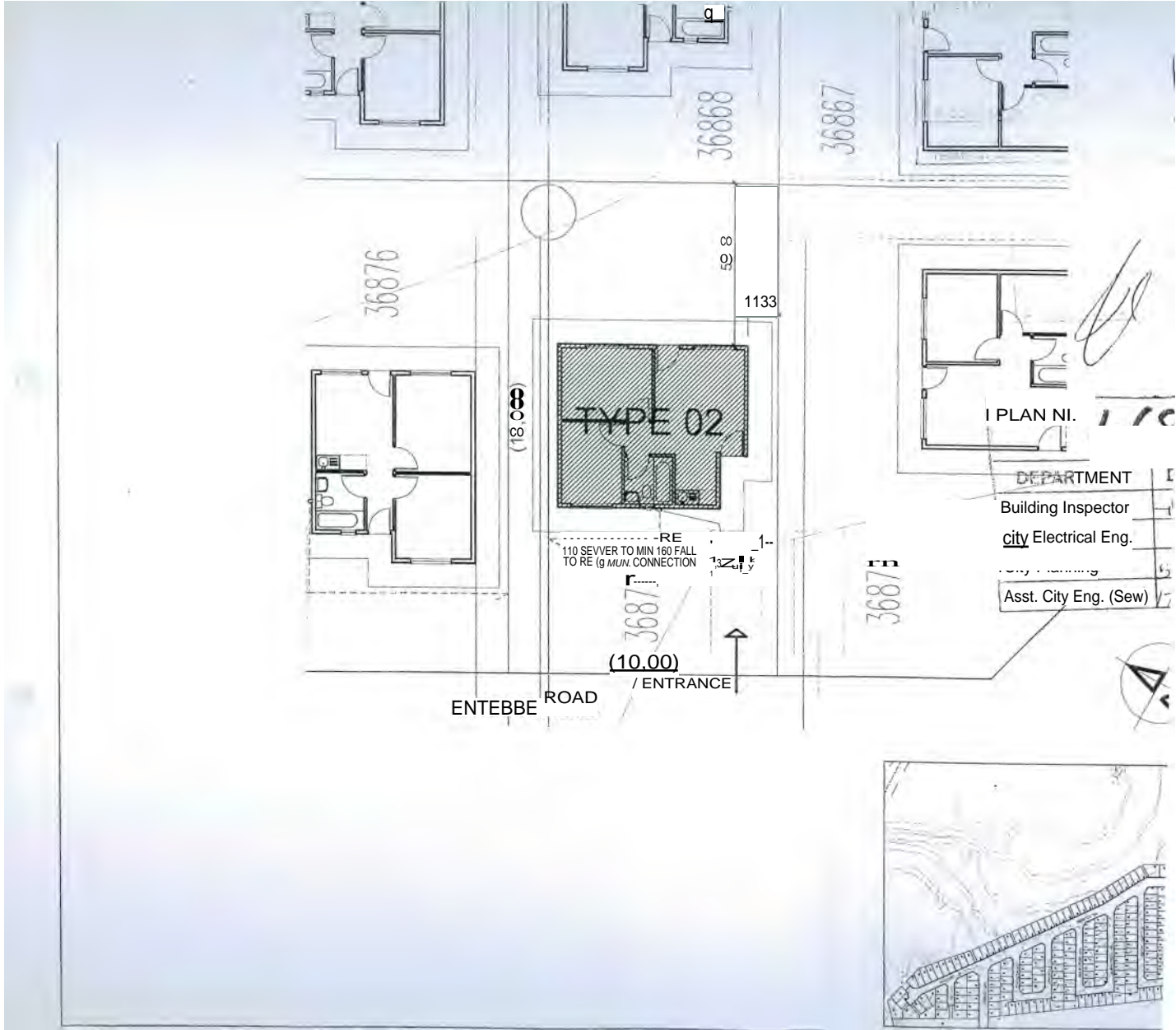


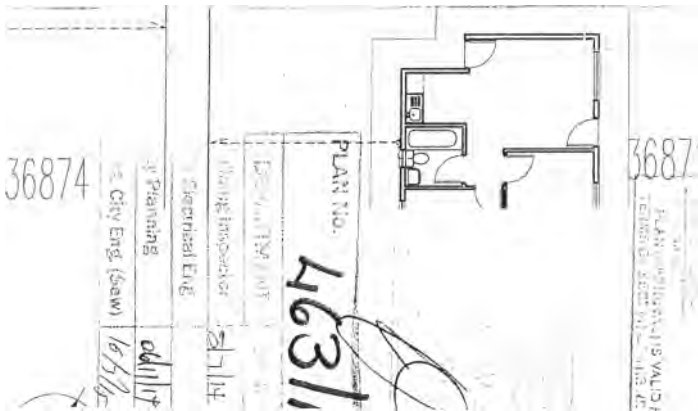
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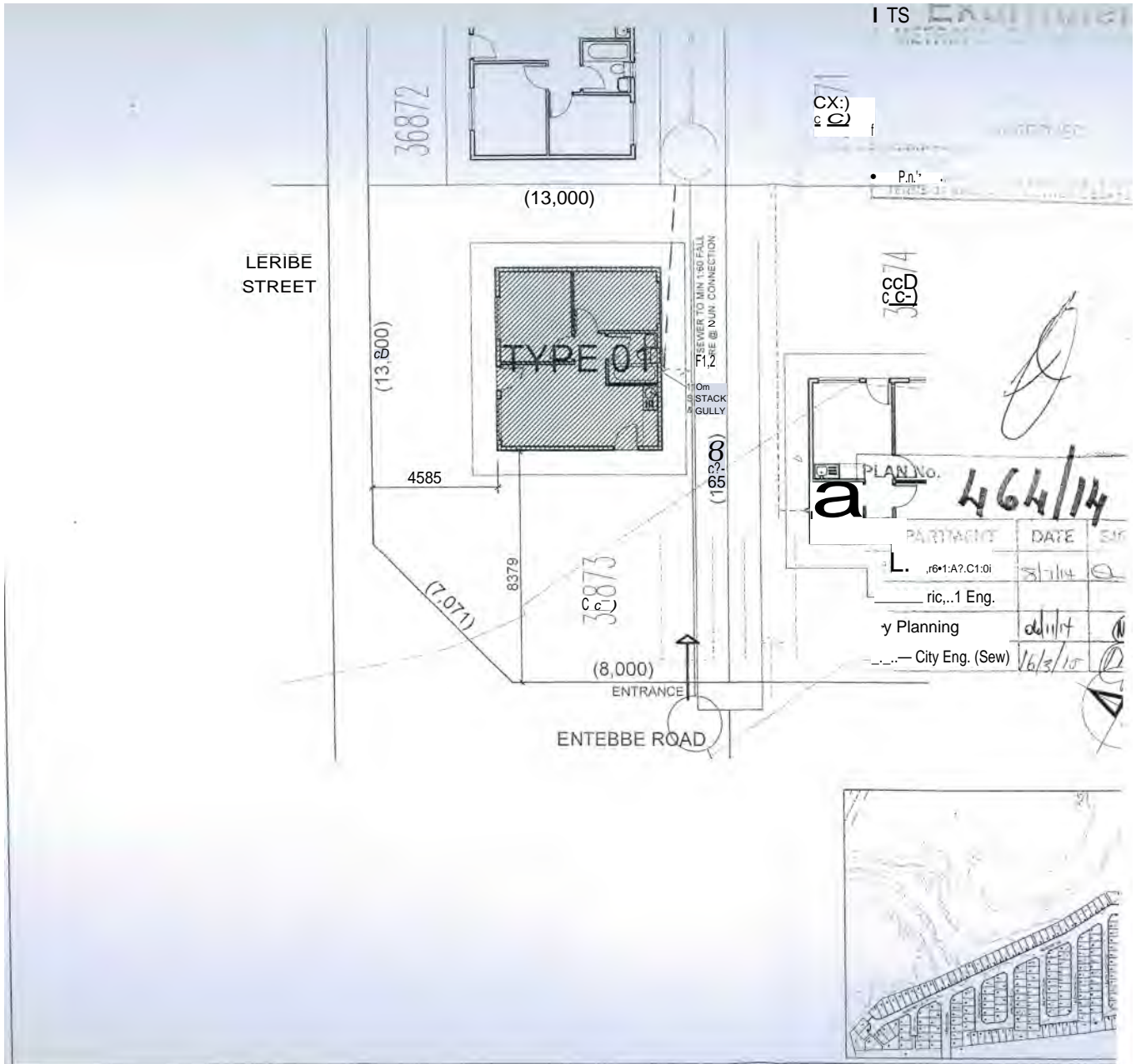
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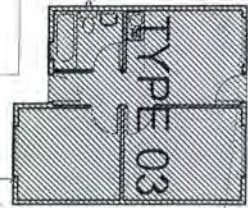
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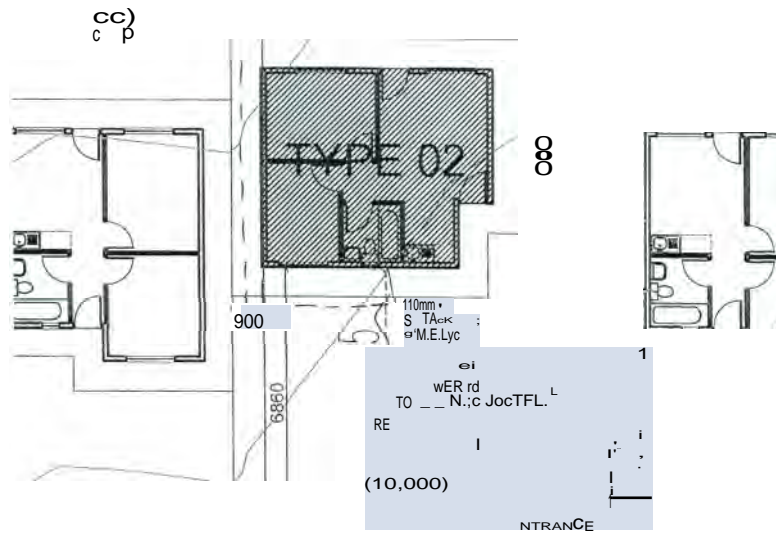
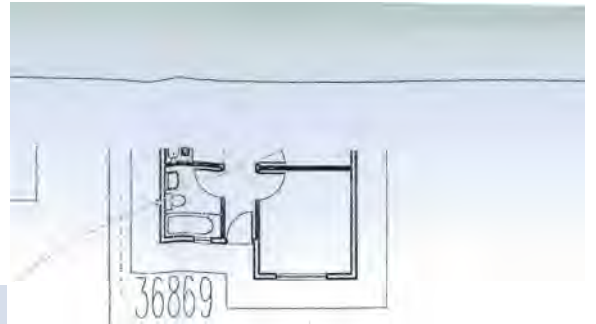
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Building inspect
City Electrical Ei
City Planning
Asst. City Eng.

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BUILDING CONTROL

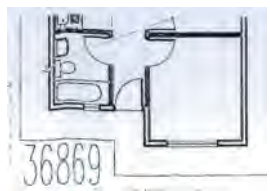
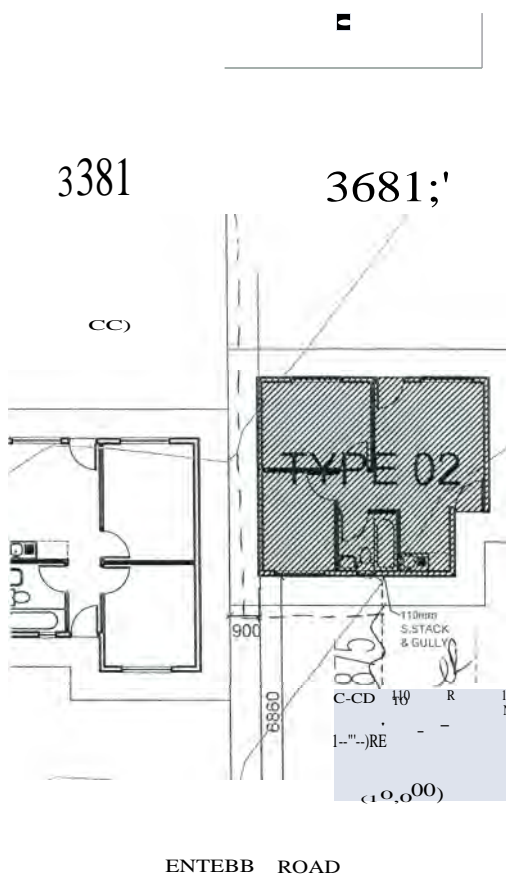
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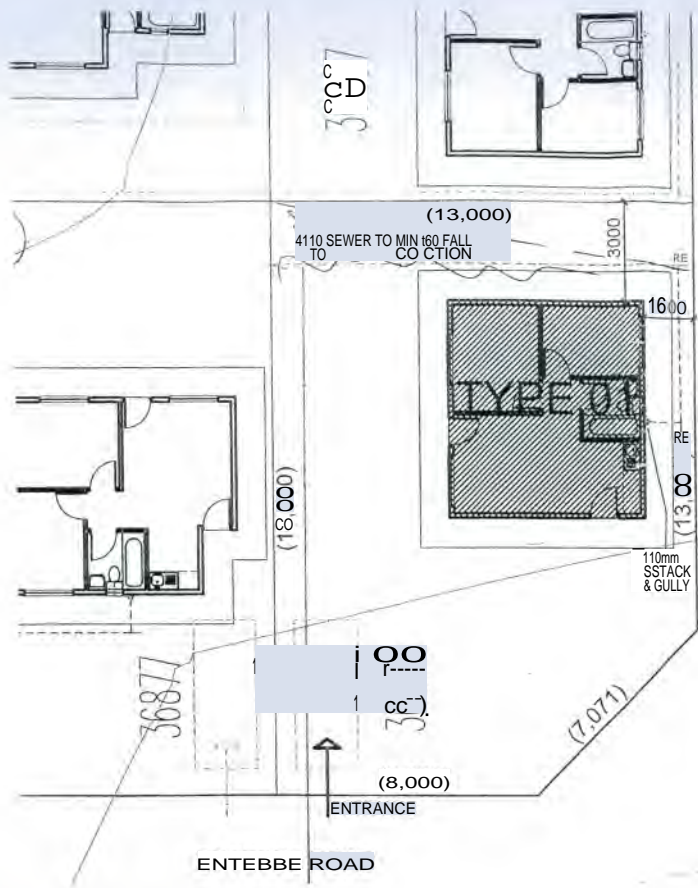
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EISELEN STREET

PLAN NO. 469/14

DEPARTMENT OF ...
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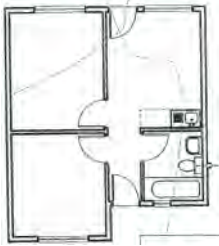


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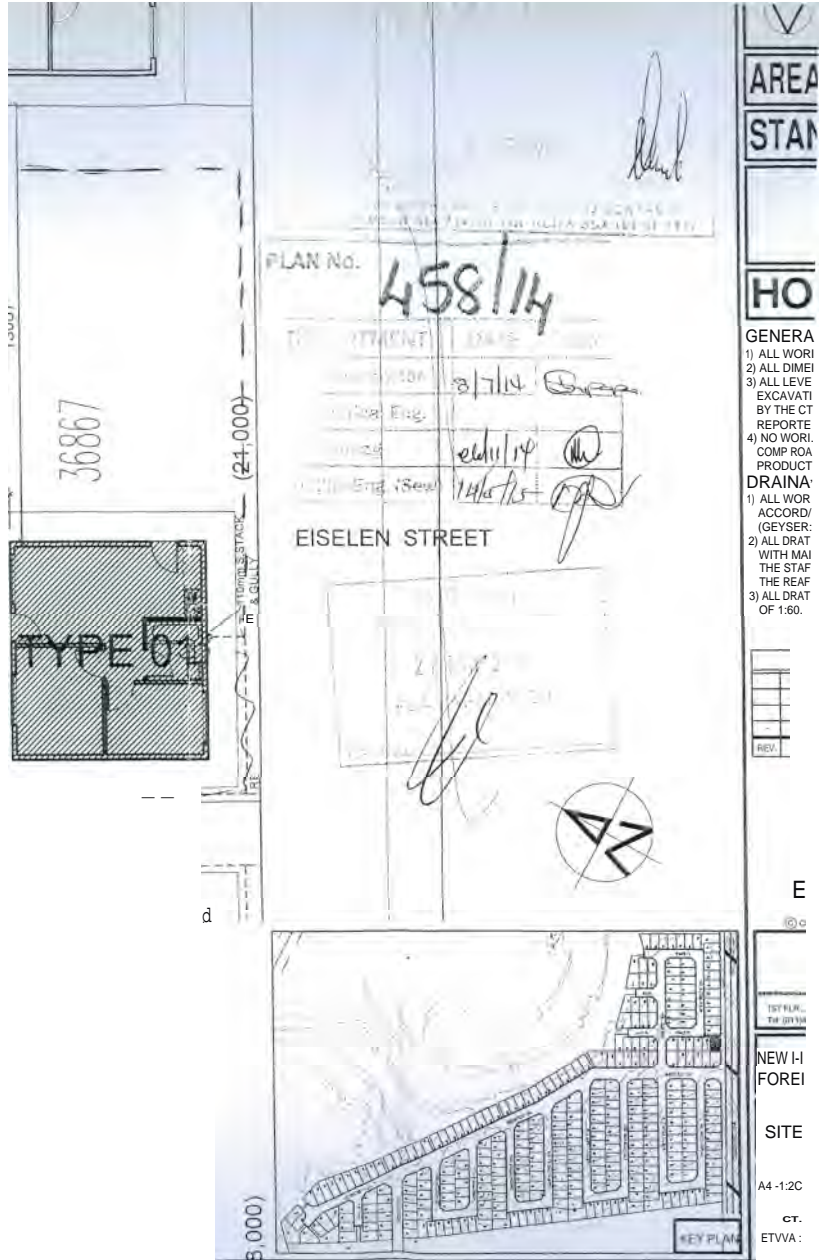
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 - 2) ALL DIMENSIONS TO BE REPORTED BY THE CONTRACTOR
 - 3) ALL LEVELS TO BE REPORTED BY THE CONTRACTOR
 - 4) NO WORK TO BE REPORTED BY THE CONTRACTOR
- DRAINAGE
- 1) ALL WORK TO BE REPORTED BY THE CONTRACTOR
 - 2) ALL DIMENSIONS TO BE REPORTED BY THE CONTRACTOR
 - 3) ALL LEVELS TO BE REPORTED BY THE CONTRACTOR

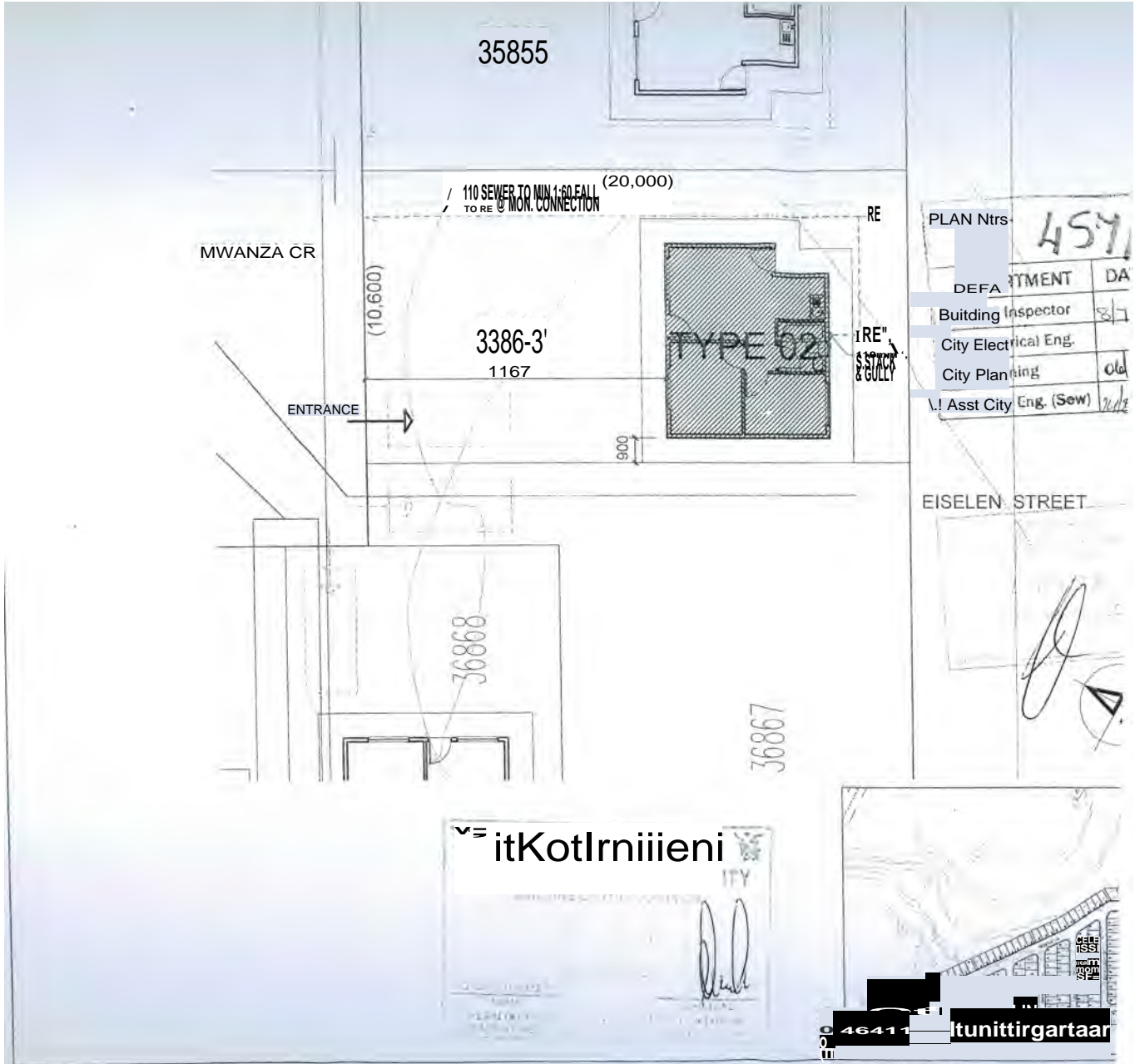


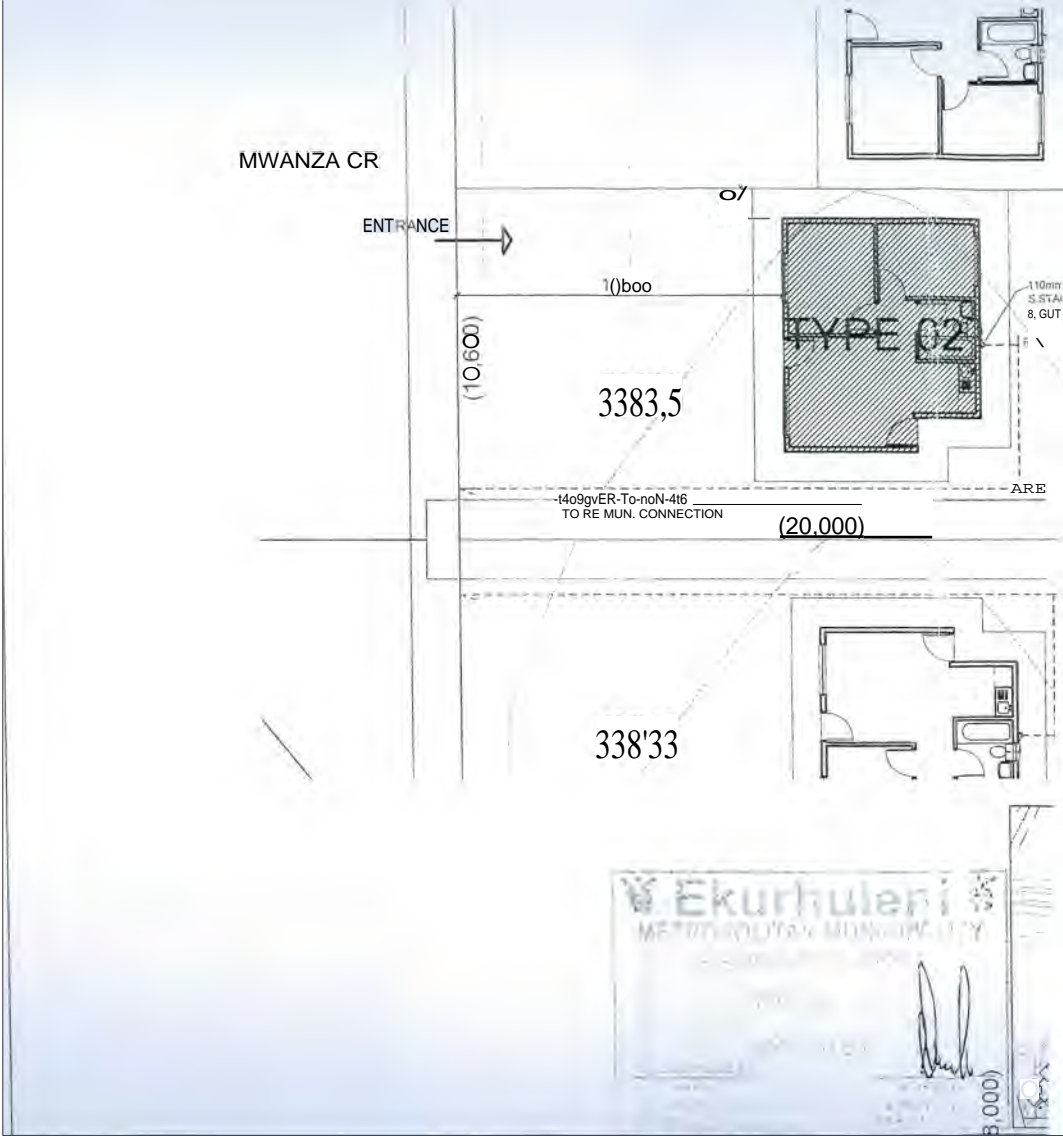
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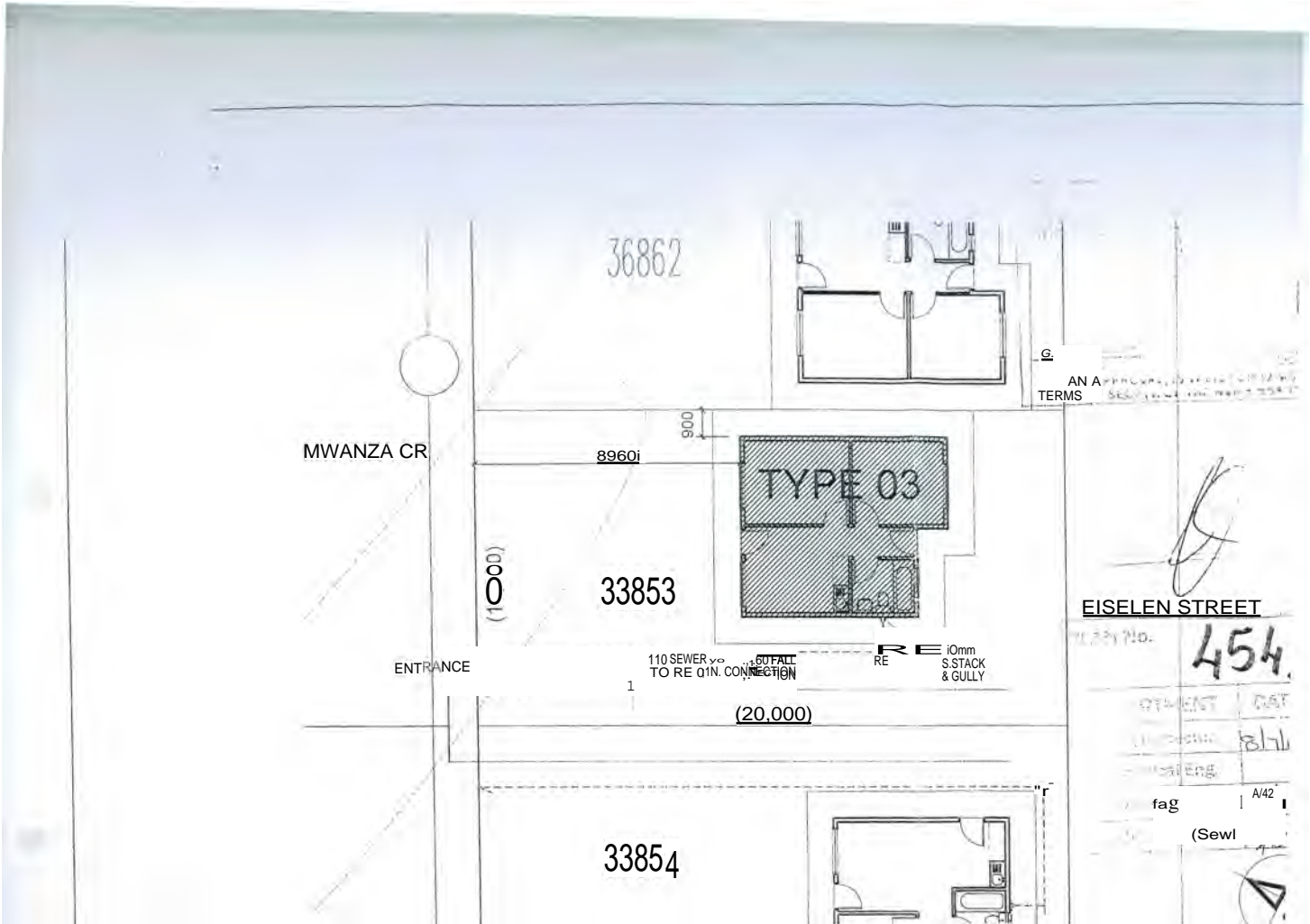
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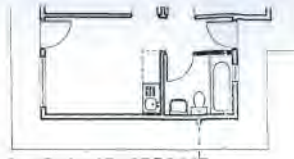




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Assoc. City Eng. (Sew) 1/14/16

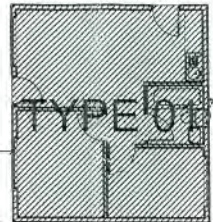
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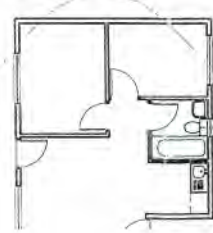
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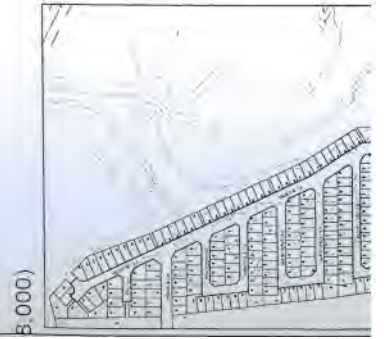
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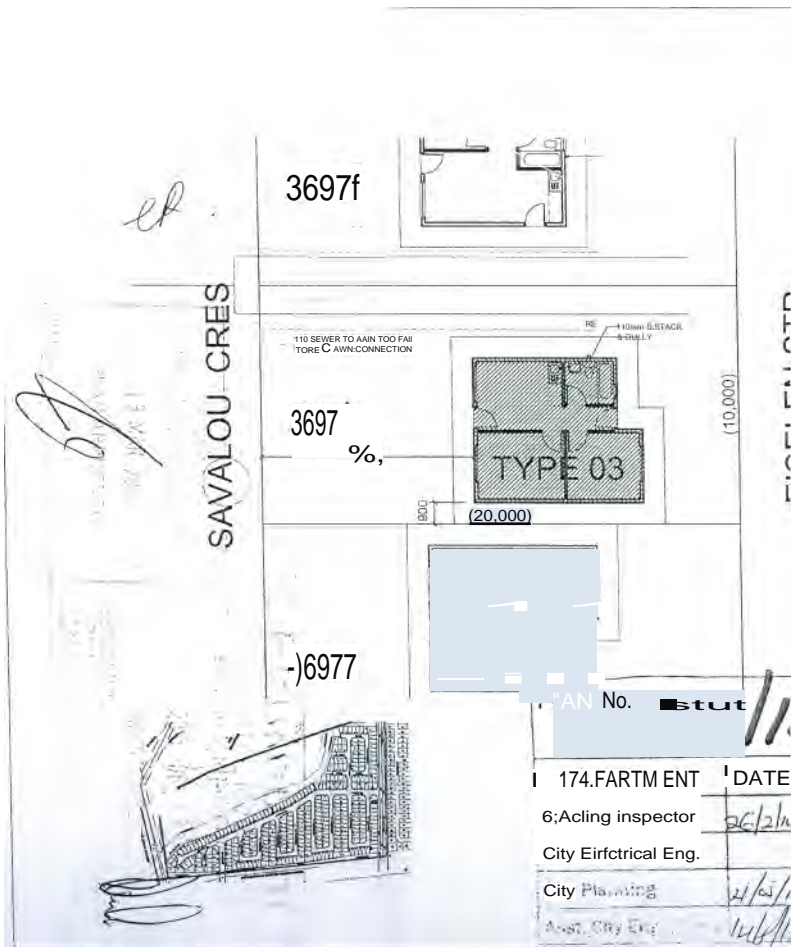
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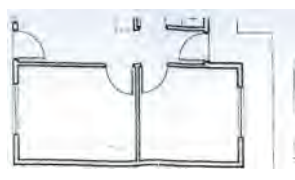
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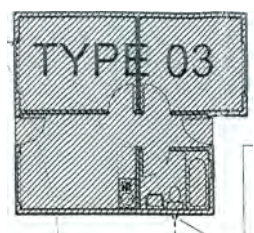
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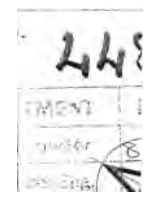
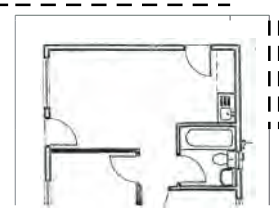
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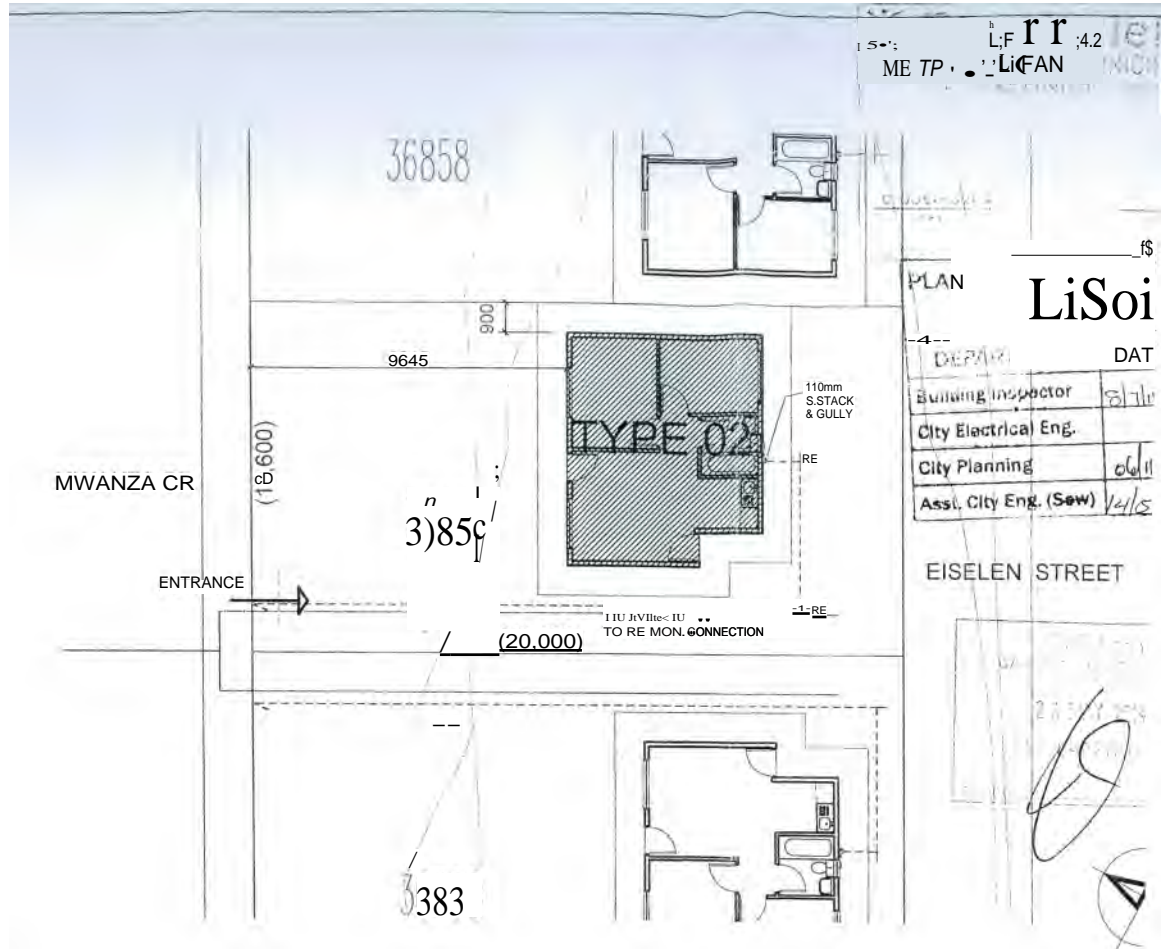
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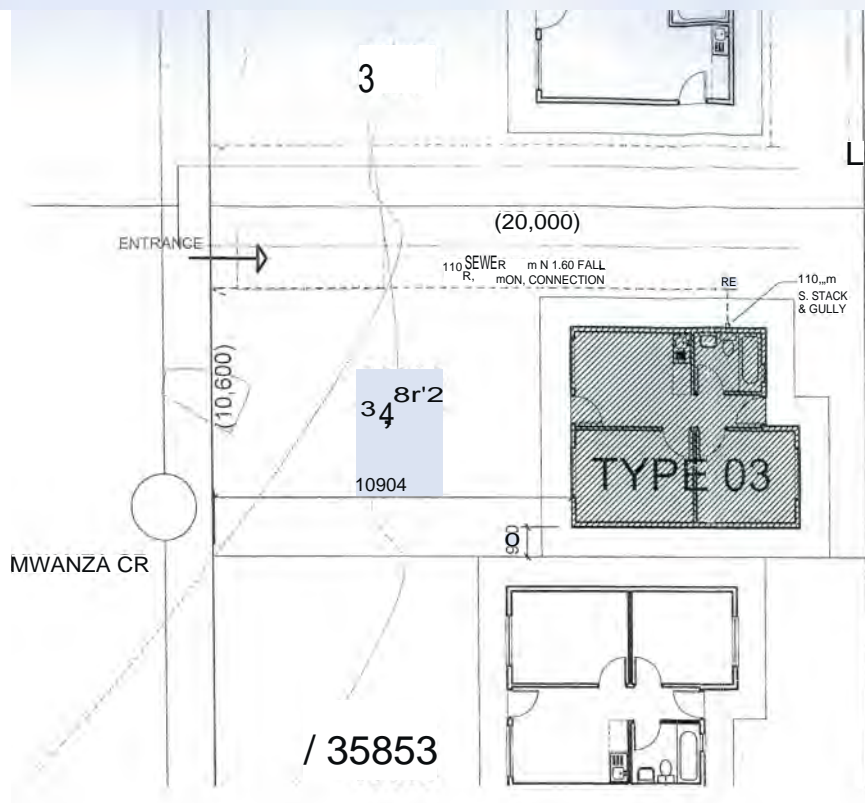


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PLAN No. **S3¹¹**

DEPARTMENT	1-AI
Chief Inspector	1,7,1111
Electrical Eng.	
Plumbing	<i>ed 11</i>
Sanitary Eng. (Sew)	<i>1/2/07</i>

/ 35853



**2. NUMBER OF STRUCTURES SPONSORED
SPREAD SHEET:**

Employer EkuMoleni Metropolitan Municipality Department of Human Settlements
 Consultant Gibb Engineering and Architecture
 Project Etwatvra Ext 35 .Khonibisa
 Contract No HS 03/2013

Total No. of Units	334	%Complete - Phase 1(182 units)	
Foundation Completed	82	45%	
Wall/Plaster Completed	82	45%	
Roof Completed	51	28%	
Completion Completed	3	2%	
Handed over	0	0%	
Overall		30%	
Progress as at	29 May 2015		



Item No	Slab		Roofing	Ceiling	Plumbing		Sewer	Seyser	Plastering	Painting Back wash	Doors	Glazing	Concrete Aprons	Corr mant
	Foundations	Slabs			Water	Sanitary								
1	36857													
3	36862													
4	36863	3	1											
	36864	1												
6	36865													
7	36866													
8	36867	1	1											
9	36870	1	1											
10	36871	1	1											
11	36872													
12	36873	1	1											
13	36874	1	1											
14	36875	1	1											
15	36877	1	1											
16	36878	1	1											
17	36895	1	1											
18	36896			1										
19	36897	1		1										
20	36898			1										
21	36899	1		1				1	1				1	
22	36900	1		1										
23	36901	1		1				1					1	
24	36902													
25	36903	1	1	1										

Employer Eturhuleni Metropolitan Municipality Department of Human Settlements
 Consultant Gibb Engineering and Architecture
 Project Etwatwa Eat 35 Khombisa
 Contract No HS 0³/2013

Total No. of Units	334	%Complete - Phase 1(182 units)	
Foundations Completed	82	45%	
Wallplate Completed	82	45%	
Roof Completed	51	28%	
Completion Completed	3	2%	
Handed over	0	0%	
Overall			
Progress as at	29 May 2015		

Ekurhuleni

pIBB

Item No.	Stand No.	foUnltatio Slab	WaNplate	Roofing	Cedling	Plumbing Water	sewer	Geyser	Plastering	Painting	trash	Docns &vanish	Glazing	Concrete Aprons	CommentS
26	36904	1	1	1				1			1		1		
27	36905		1	1				1	1		1		1		
28	36905	1	1	1				1	1		1		1		
29	36907	1	1												
30	36908	2	1	1				1	1		1		1		
31	36909	1	1	1				1	1		1		1		
32	36910														
33	36911	1	1												
34	36917	1	1												
35	36913	1	1	1				1	1		1		1		
36	36914	1	1	1				1	1		1		1		
37	36915	1	1	1				1	1		1		1		
38	36916	1	1	1				1	1		1		1		
39	36972	1	1												
40	36973	1	1												
41	36974	1	1												
42	36975	1	1	1				1	1		1		1		
43	36978	1	1	1				1	1		1		1		
44	36979														
45	36980	1	1	1				1	1		1		1		
46	36981	1	1	1				1	1		1		1		
47	36982	1	1	1											
48	36983			1	1	2	1	1	1	1	1	1	1	1	Showhouse
49	36984		1	1	1	1	1	1	1	1	1	1	1	1	Showhouse
50	36985		1	1	2	1	1	1	1	1	1	1	1	2	Showhouse
51	36986	1	1	1				1	1		1		1		

Employer Ekurhuleni Metropolitan Municipality Department of Human Settlements
 Consultant Gibb Engineering and Architecture
 Project Etwatwa Eat 35 - Khombrsa
 Contract No HS 03/2013

Total No. of Units	334	%Complete • Phase 1(182 units)	
Foundations Completed	82	45%	
Wallplate Completed	82	45%	
Roof Completed	51	28%	
Completion Completed	3	2%	
Handed over	0	0%	
Overall Progress as at	29 May 2015		

Ekurhuleni

GIBB

Item No.	Stand No.	Foundation Slab	Wallplate	Roofing	Ceiling	Plumbing Water	Plumbing sewer	Geyser	Plastering	Painting	Back wash	Doors &vanish	Glazing	Concrete Aprons	Comments
54	36989	1	1	1				1	1		1				
55	36990	1	1	1											
56	36991	1	1	1				1	1		1		1		
57	36992	1	1	1											
58	36993	1	1	1				1	1		1		1		
59	36994	1	1	1											
60	36995	1	1	1				1	1		1		1		
61	36596	1	1	1											
62	36997	1	1	1				1	1		1		1		
63	36998	1	1	1											
64	36999	1	1	1				1	1		1		1		
65	37000	1	1	1											
66	37001	1	1	1				1	1		1		1		
67	37002	1	1	1											
68	37003	1	1	1				1	1		1		1		
69	37004	1	1	1											
70	37005	1	1	1				1	1		1		1		
71	37006	1	1	1				1	1		1		1		
72	37007	1	1	1				1	1		1		1		
73	37008	1	1	1											
74	37009	1	1	1				1	1		1		1		
75	37010	1	1	1											
76	37011	1	1	1				1	1		1		1		
77	37012	1	1	1											

Employer Ekurhuleni Metropolitan Municipality Department of Human Settlements
Consultant Cnbb Engineering and Architecture
Project Etwutwa Ext 35 • Khombisa
Contract No HS 03/2013

Total No. of Units	334	%Complete - Phase 1(182 units)
Foundations Completed	82	45%
Waliplate Completed	82	45%
Roof Completed	51	28%
Completion Completed	3	2%
Handed over	0	
Overall		30%
Progress as at	29 May 2015	



Item No.	Stand No.	Foundation	Waliplate Slab	Roofing	Ceiling	Plumbing		Geyser	Plastering • Painting	Back Doors wash & vahisho bng	Concrete Aprons	Comments
						Water	Sewer					
76	37013	1	1	1				1	1	1		
78	37014	1	1	1				1	1	1		
80	37015	1	1	1				1	1	1		
81	37016	1	1	1				1	1	1		
82	37017	1	1	1				1	1	1		
83	37018	1	1	1				1	1	1		
84	37019	1	1	1				1	1	1		
85	37070	1	1	1				1	1	1		

SUMMARY OF HOUSES CONSTRUCTED

**FOUNDATION
INSPECTION REQUEST**

Request for Complete Foundation Inspection														
PROJECT NAME:		ETWATWA Ext 33				PROJECT NO:		ps MS2.3-201.3						
Client:		Hur Lawitammaimay												
Inspection No:		PC 113												
Date:		1003/02/2017				Inspection Date:		i						
1104a Claimable foundation														
No	Stand No	Date Completed	OK	NO	No	Stand	Date Completed	OK	NO	No	Stand No	Date Completed	OK	NO
1		74												
2	37012	08/12/2014												
3	36557	08/12/2014												
4	36562	08/12/2014												
5	36863	08/12/2014												
I A N														
6	L46073	08/12/2014												
7	836974	08/12/2014												
8	76975	08/12/2014												
9	1036903	08/12/2014												
10	1136011	08/12/2014												
11	1236809	08/12/2014												
12	1336867	08/12/2014												
13	1436878	08/12/2014												
14	1536864	08/12/2014												
15	1636866	08/12/2014												
16	1736978	08/12/2014												

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FOUNDATION CHECKLIST



CI Checklist for House Raft Foundation and Concrete Works

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Khombiza
Contract	:	PSJHS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	15-Jan-14
File	:	

HOUSE NUMBER _____ 36983

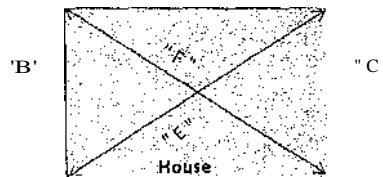
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? YES NO

Contractor to confirm the following dimensions:

A=	_____	E=	_____ 8910
B=	_____ 900	F=	_____ 8910
C=	_____		
D=	_____ 8960		



onsimereo
Stand
Boundary

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

1	NO <input type="checkbox"/>
---	-----------------------------

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes <input type="checkbox"/>
yes <input type="checkbox"/>
yes <input type="checkbox"/>
yes <input type="checkbox"/>

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes <input type="checkbox"/>
yes <input type="checkbox"/>
yes <input type="checkbox"/>
yes <input type="checkbox"/>



CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the OPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER _____

DATE 30-Jan-14

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction



NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

25.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER _____

DATE 14-Mar-14





O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23.2013
Contractor	Bankuna Construction and Engineering
Date	15Jan-14
File	

HOUSE NUMBER _____ 36984

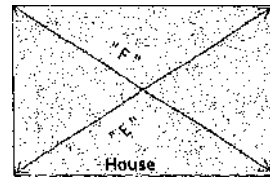
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=	3000	E	8910
B=		F=	8910
C=	900		
D=			



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

>r< NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight ? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes



al Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?	yes
Is the DPC USB green 250 Micron?	yes
Is there a 400mm overlap at the joints of the DPC?	yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?	yes
Has the correct mesh been used? (specify the type of mesh)	yes
Is the steel/mesh free of rust?	yes
Is the mesh overlap length as per specification?	yes
What is the lap length?	400
Are the stirrups in ground beams spaced correctly?	yes
Have cover blocks been installed to provide the required cover?	yes
Are the cover block tied to the steel?	no

ENGINEER	DATE	30-Jan-14
----------	------	-----------

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?	
What is the grade / strength of concrete	25MPa
What is the aggregate size	19mm
What is the theoretical volume of concrete	11
What is the actual volume of concrete poured	10.7
Duration of concrete pouring Start Time <input style="width: 80px;" type="text"/>	Completion I
Was any water added to the concrete mix on site	No
Is there a concrete vibrator at the raft site prior to placing of concrete?	yes
What was the slump of the concrete? (75mm to 125mm is acceptable)	75mm
Have concrete cubes been made on site or at the batch plant?	Batch Plant
Is there a screed bar on site to ensure the concrete is placed to the correct level?	yes
Is there a powerfloat machine on site?	yes
Was the concrete adequately vibrated with a concrete vibrator?	yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction **>f<j** NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?	Close slab with sand and pour water daily
What was the achieved concrete strength; 1) At 7 days?	17
Shuttering removal period (minimum 36 hours)	48 hrs
	b) At 28 days? 25.5

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	14-Mar-14
----------	--	------	-----------



CI Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	: Bankuna Construction and Engineering
Date	: 15-Jan-14
File	:

HOUSE NUMBER _____ 36985

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

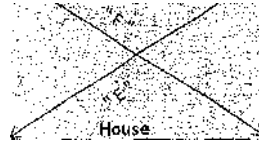
Has the builder had the position of the stand boundary beacons confirmed?

—
—

NO

Contractor to confirm the following dimensions:

A= 9560 E = 8910
 B= 3000 F = 8910
 C= _____
 D= _____



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

> T <

NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

yes
yes
yes
yes

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

yes
yes
yes
yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	30-Jan-14
----------	--	------	-----------

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

25.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	14-Mar-14
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O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER 37014

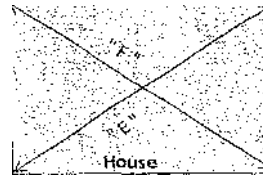
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E=	8910
B=	900	F=	8910
C=	8000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

O

Road Reserve

4m Embankment Stand Boundary

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

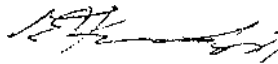
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time	
------------	--

Was any water added to the concrete mix on site

Completion

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

	NO
--	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

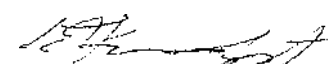
17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13 June 2014



O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 . Khombiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER 37019

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

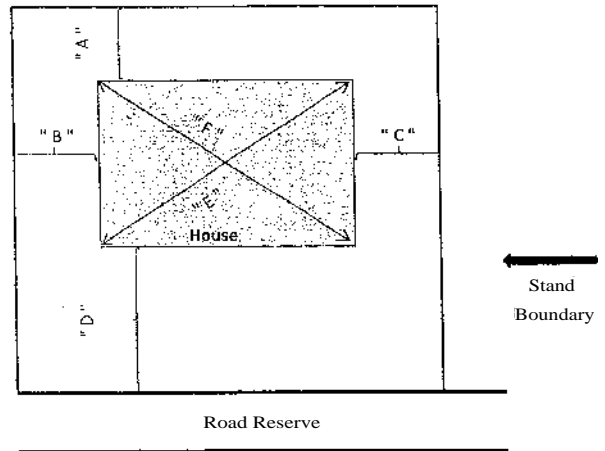
Has the builder had the position of the stand boundary beacons confirmed?

YES

NO

Contractor to confirm the following dimensions:

A= 8528
 B= 900
 C=
 D= 6750
 E= 8528
 F= 8528



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the 67 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes
 Are beams straight? yes
 Is the top of beam chamfered 45 deg as per detail? yes
 Has all the loose soil in the beam excavation been removed? yes
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes
 Is formwork 100% level? yes
 Is formwork 100% secured? yes
 Is formwork Straight? yes



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DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LAING ENVIRONMENTS



CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover blocks tied to the steel?

no

ENGINEER

DATE

08 May 2014

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion		
No		
yes		
75mm		
Batch Plant		
yes		
yes		
yes		

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

13 June 2014





O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	: Etwatwa Ext 35 - Khombiza
Contract	: PSMS23-2013
Contractor	Bankuna Construction and Engineering
Date	: 25 April 2014
File	:

HOUSE NUMBER _____ 37015

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

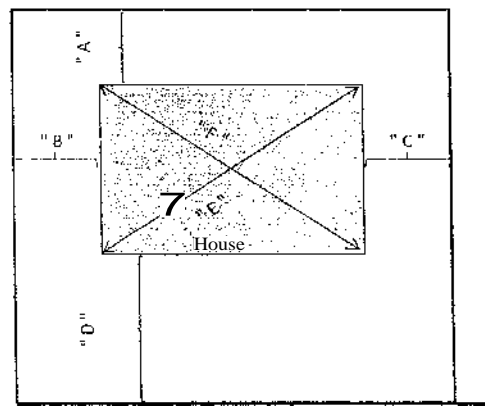
Has the builder had the position of the stand boundary beacons confirmed?



NO

Contractor to confirm the following dimensions:

A=		E=	8485
B=	900	F=	8485
C=			
D=	9400		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

yes

Is the 07 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

yes
yes
yes
yes

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

yes
yes
yes
yes



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O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER [Signature] DATE 08 May 2014

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

~~YES~~ NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate
ENGINEER DATE 13 June 2014





al Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	: Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	: 25 April 2014
File	:

HOUSE NUMBER 37007

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

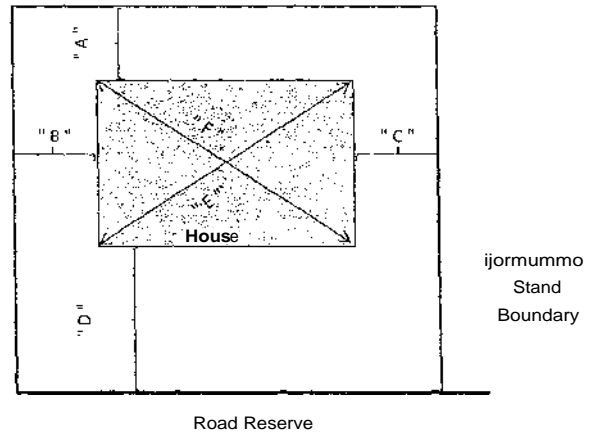
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

 YES NO

Contractor to confirm the following dimensions:

A=		E=	8485
B=	900	F=	8485
C=			
D=	8000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

 Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

 yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

 yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

 yes

Are beams straight?

 yes

Is the top of beam chamfered 45 deg as per detail?

 yes

Has all the loose soil in the beam excavation been removed?

 yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

 yes

Is formwork 100% level?

 yes

Is formwork 100% secured?

 yes

Is formwork Straight?

 yes



Metroprojects

DEVELOPMENT
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OF LIVING ENVIRONMENTS



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TNT, a member of the
Globe Group

CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

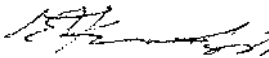
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Completion		
------------	--	--

Duration of concrete pouring

Start Time

No

Was any water added to the concrete mix on site

yes

Is there a concrete vibrator at the raft site prior to placing of concrete?

75mm

What was the slump of the concrete? (75mm to 125mm is acceptable)

Batch Plant

Have concrete cubes been made on site or at the batch plant?

yes

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineers satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

If "NO", the Contractor must provide method statement to correct the work

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CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

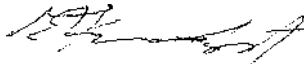
17

b) At 28 days?

29,5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13 June 2014





O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER 37016

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E =	8528
B=	900	F =	8528
Cs			
D=	6960		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

House
4m
Stand
Boundary

Road Reserve

E NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?


yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time	
------------	--

Completion	
------------	--

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

	NO
--	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

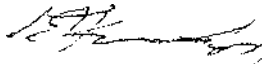
17

b) At 28 days?

1 29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13 June 2014

O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER

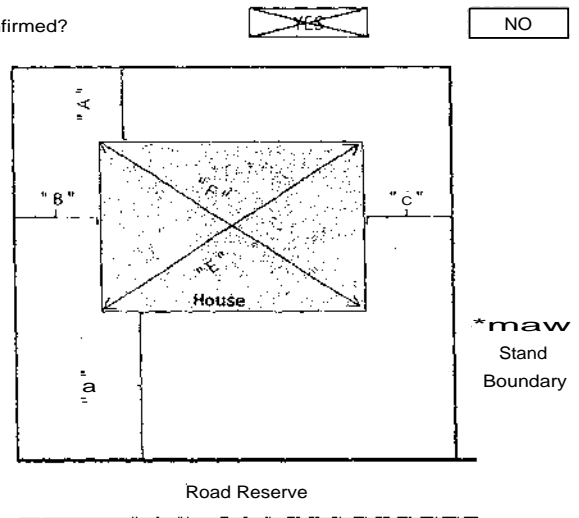
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? YES NO

Contractor to confirm the following dimensions:

A =		E =	8528
B =	900	F =	8528
C =			
D =	3000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOO AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house? YES NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?



al Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes
yes
yes

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes
yes
yes
yes
400
yes
yes
no

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

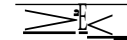
Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa
19mm
11
10.7
Completion
No
yes
75mm
Batch Plant
yes
yes
yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction



NO.

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days? 29.5

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13 June 2014



CI Checklist for House Raft Foundation and Concrete Works

Employer	•	Ekurhuleni Metropolitan Municipality
Project		Etwatwa Ext 35 - Khombiza
Contract	!	PS/HS23-2013
Contractor		Bankuna Construction and Engineering
Date	!	25 April 2014
File		

HOUSE NUMBER _____ 37017

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

—

—

NO

Contractor to confirm the following dimensions:

A=		E =	8485
B=	900	F =	8485
Cr			
D=	9000		

EARTH WORKS

is the excavations deep enough as specified by the engineers? Yes

House

issammems
Stand
Boundary

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

>E<

NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

yes
yes
yes
yes

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

yes
yes
yes
yes



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS uk



CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes
yes
yes

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

yes
yes
yes
yes
400
yes
yes
no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

	25MPa
	19mm
	11
	10.7
Completion	No
	yes
	75mm
	Batch Plant
	yes
	yes
	yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
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If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

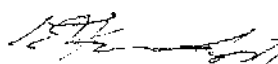
What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	
DATE	13 June 2014





O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER 37003

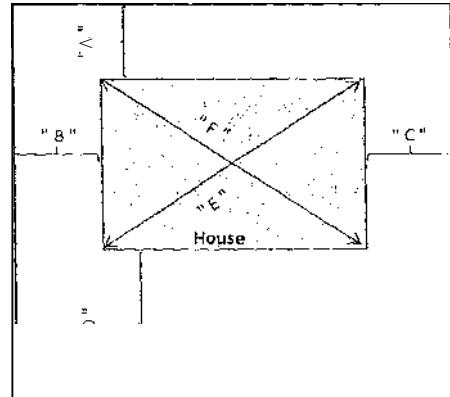
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E=	8528
B=	900	F=	8528
C=			
D=	6900		



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

	NO
--	----

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

	yes
	yes
	yes
	yes

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

	yes
	yes
	yes
	yes



CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

ENGINEER	DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

POWER FLOATING

Is power floating completed to Engineer's satisfaction

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

13 June 2014



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	:

HOUSE NUMBER 37018

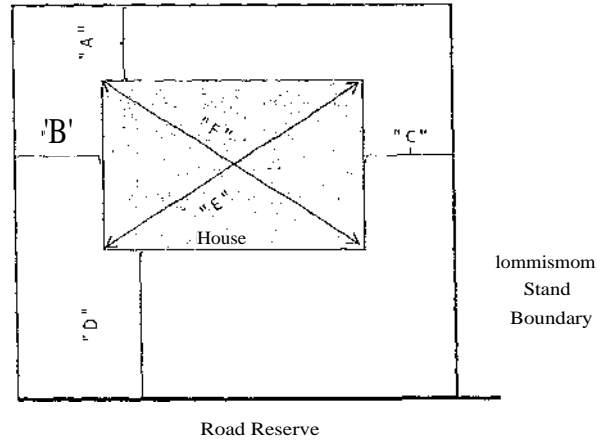
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

Contractor to confirm the following dimensions:

A=		E =	8910
B=	900	F =	8910
C=			
D=	8000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight ? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	04 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade/ strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

YES NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13 June 2014
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O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER 37001

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E=	8910
B=	900	F=	8910
C=			
D=	6900		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

House I--mom
Stand
Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

yes
yes
yes
yes

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

yes
yes
yes
yes



CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

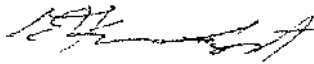
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

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What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
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If "NO", the Contractor must provide method statement to correct the work

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CONCRETE CURING

What curing method will be used?

	Close slab with sand and pour water daily	
17	b) At 28 days?	1 29.5
48 hrs		

What was the achieved concrete strength; 1) At 7 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER	<hr/>	DATE	13 June 2014
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CI Checklist for House Raft Foundation and Concrete Works

Employer	•	Ekurhuleni Metropolitan Municipality
Project		Etwatwa Ext 35 - Khombiza
Contract		PS/HS23-2013
Contractor		Bankuna Construction and Engineering
Date		25 April 2014
File	!	

HOUSE NUMBER _____ 36996

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A.		E	8528
B.	900	F	8528
D.	4000		

EARTH WORKS

Is the excavations deep enough as specified by the engineers?

House 4moommi
Stand
Boundary

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?


yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion 1

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

 NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

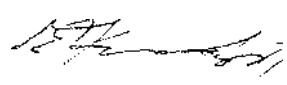
Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days? 29.5

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	
DATE	13 June 2014





CI Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER _____ 36992

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

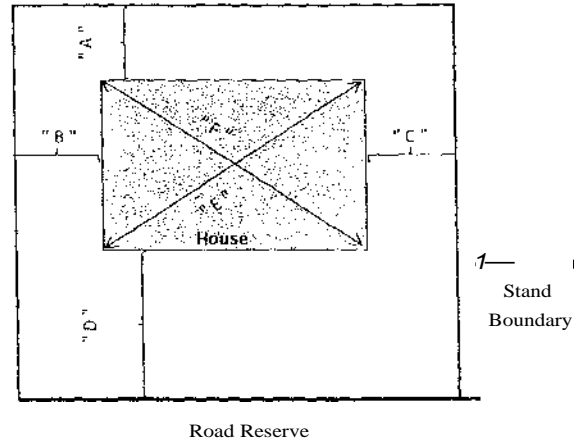
Has the builder had the position of the stand boundary beacons confirmed?

 YES NO

Contractor to confirm the following dimensions:

A=	
B=	900
C=	
D=	4770

E=	8528
F=	8528



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

 Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

 yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

 yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

 yes

Are beams straight ?

 yes

Is the top of beam chamfered 45 deg as per detail?

 yes

Has all the loose soil in the beam excavation been removed?

 yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

 yes

Is formwork 100% level?

 yes

Is formwork 100% secured?

 yes

Is formwork Straight?

 yes



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	108 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

	NO
--	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	DATE 13 June 2014





O Checklist for House Raft Foundation and Concrete Works

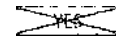
Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER _____ 36997

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

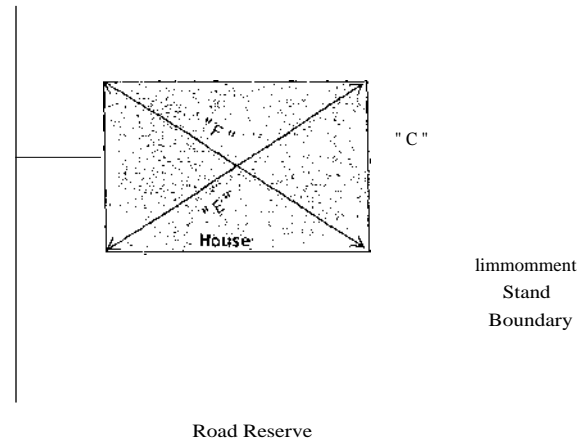
Has the builder had the position of the stand boundary beacons confirmed?



NO

Contractor to confirm the following dimensions:

A=		E=	8910
B=		F=	8910
C=	900		
D=	6900		



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER DATE 08 May 2014

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Completion

Duration of concrete pouring

Start Time

No

Was any water added to the concrete mix on site

yes

Is there a concrete vibrator at the raft site prior to placing of concrete?

75mm

What was the slump of the concrete? (75mm to 125mm is acceptable)

Batch Plant

Have concrete cubes been made on site or at the batch plant?

yes

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate ENGINEER DATE 13 June 2014



CI Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	: PS/HS23.2013
Contractor	: Bankuna Construction and Engineering
Date	: 25 April 2014
File	:

HOUSE NUMBER _____ 36993

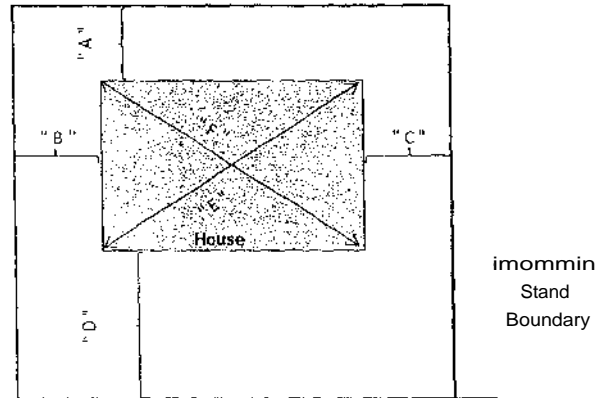
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E =	8910
B=	900	F =	8910
C=			
Ds	6900		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO
yes
yes
yes
yes
yes
yes
yes
yes

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?



al Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
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If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13 June 2014



O Checklist for House Raft Foundation and Concrete Works

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Khombiza
Contract	:	PS/HS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	25 April 2014
File	:	

HOUSE NUMBER _____ 36998

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E	8528
B.	900	F	8528
C.			
D=	4000		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes


Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

House des
Stand
Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

yes
yes
yes
yes

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

yes
yes
yes
yes



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

YES	NO
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If "NO", the Contractor must provide method statement to correct the work

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CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13 June 2014



O Checklist for House Raft Foundation and Concrete Works

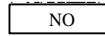
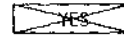
Employer	Ekurhuleni Metropolitan Municipality
Project	- Etwatwa Ext 35 - Combiza
Contract	• PS/HS23-2013
Contractor	! Bankuna Construction and Engineering
Date	25 April 2014
File	•

HOUSE NUMBER _____ 36994

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

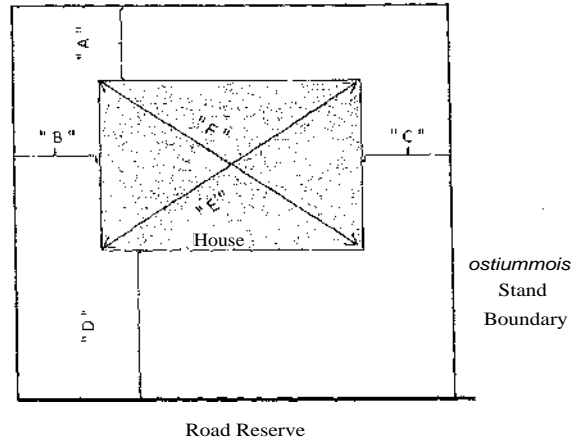
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?



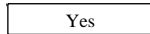
Contractor to confirm the following dimensions:

B=	900	E	8528
C=		F=	8528
D=	3000		

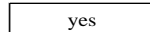


EARTH WORKS

Is the excavations deep enough as specified by the engineers?



Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?



Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

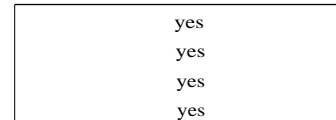
Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?



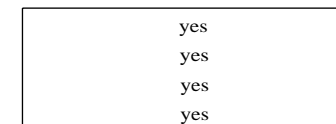
FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?





DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes
 Is the DPC USB green 250 Micron? yes
 Is there a 400mm overlap at the joints od the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes
 Has the correct mesh been used? (specify the type of mesh) yes
 Is the steel/mesh free of rust? yes
 Is the mesh overlap length as per specification? yes
 What is the lap length? 400
 Are the stirrups in ground beams spaced correctly? yes
 Have cover blocks been installed to provide the required cover? yes
 Are the cover block tied to the steel? no

ENGINEER		DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved? 25MPa
 What is the grade / strength of concrete 19mm
 What is the aggregate size 11
 What is the theoretical volume of concrete 10.7
 What is the actual volume of concrete poured Completion
 Duration of concrete pouring Start Time No
 Was any water added to the concrete mix on site yes
 Is there a concrete vibrator at the raft site prior to placing of concrete? 110 mm
 What was the slump of the concrete? (75mm to 125mm is acceptable) Batch Plant
 Have concrete cubes been made on site or at the batch plant? yes
 Is there a screed bar on site to ensure the concrete is placed to the correct level? yes
 Is there a powerfloat machine on site? yes
 Was the concrete adequately vibrated with a concrete vibrator? yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction NO
 If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used? Close slab with sand and pour water daily
 What was the achieved concrete strength; 1) At 7 days? 17 b) At 28 days? 29.5
 Shuttering removal period (minimum 36 hours) 48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13 June 2014
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CI Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	25 April 2014
File	

HOUSE NUMBER _____ 36999

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? _____ NO

Contractor to confirm the following dimensions:

A=		E=	8485
B=	900	F=	8485
C=			
D=	6900		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

House
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Stand
Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

yes
yes
yes
yes

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

yes
yes
yes
yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER	DATE	08 May 2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Completion

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

YES NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days? 29.5

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER	DATE	13 June 2014
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DEVELOPMENT LEADERS IN THE DEVELOPMENT OF LIVING ENVIRONMENT



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Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 -Comb za
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER 36864

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

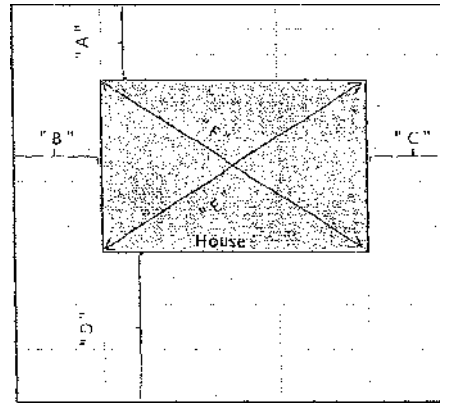
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

NO

Contractor to confirm the following dimensions:

A= 900 E= 8910
 C= F= 8910
 D= 12000



Stand Boundary

Road Reserve

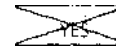
EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



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DEVELOPMENT fikrAl
LEADER IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



GIBB
ENGINEERING, SCIENCE

Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER

DATE

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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

10-Feb-15





Checklist for House Raft Foundation and Concrete Works

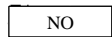
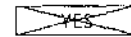
Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

ROUSE NUMBER 36866

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:

A=

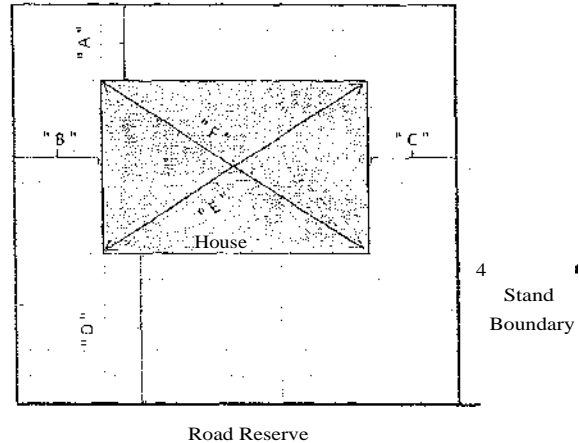
B=

C=

D=

E=

F=



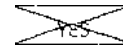
EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?



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Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?
is the DPC USB green 250 Micron?

yes
yes
yes

Is there a 400mm overlap at the joints od the DPC?

REINFORCING

Has ail the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

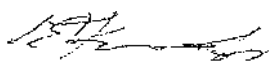
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	zols/02/10
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

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What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion	<input type="text"/>	<input type="text"/>
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Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
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If "NO", the Contractor must provide method statement to correct the work

<input type="text"/>

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

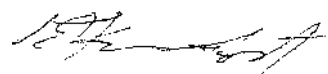
19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	
DATE	10-Feb-15



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DEVELOPMENT
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GIBB
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Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC US8 green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER

DATE 2015/02/10

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

YES NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

i 29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

10-Feb-15





Checklist for House Raft Foundation and Concrete Works

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Combiza
Contract	:	PSIHS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	10-Feb-16
File	:	

HOUSE NUMBER 36878

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

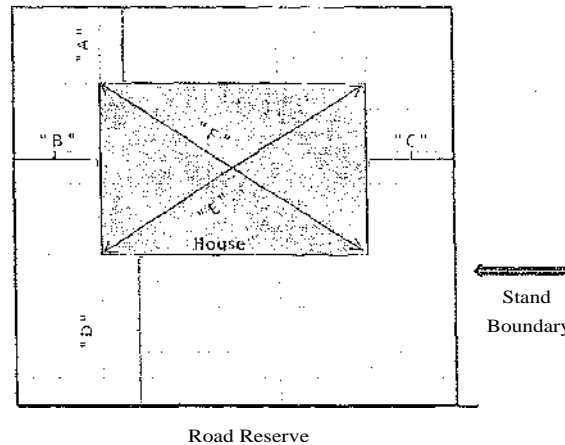
Has the builder had the position of the stand boundary beacons confirmed?

YES

NO

Contractor to confirm the following dimensions:

A=		E=1	8910
B=	1600	F=1	8910
D=	3000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight ? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer-received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2015/02/10
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
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If "NO", the Contractor must provide method statement to correct the work

--

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	10-Feb-15





Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS1HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER 36897

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

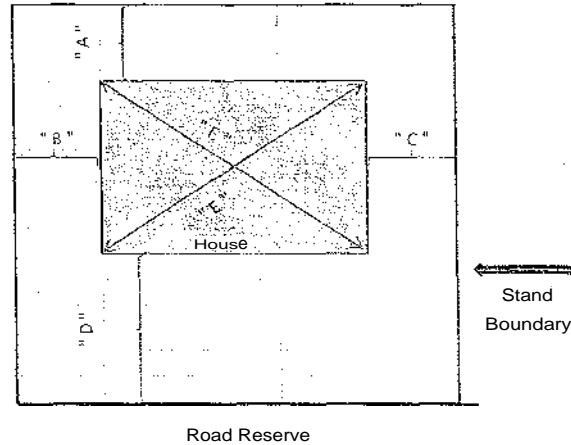
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES NO

Contractor to confirm the following dimensions:

A=		E	8528
B=	900	F=	8528
C=			
D=	3000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the 67 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? >r< NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight ? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry? yes

FORMWORK

Is formwork treated with a releasing agent? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	zois/oz/10
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	10-Feb-15
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Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER 36899

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

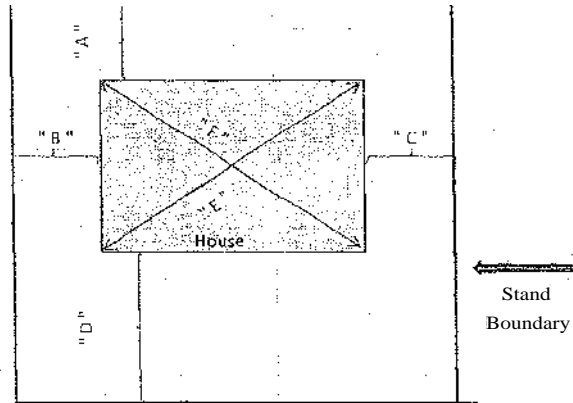
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

NO

Contractor to confirm the following dimensions:

A.		E =	8528
B.	900	F =	8528
C.			
D.	3000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

>3.< NO

SEAMS

Are beams excavated in the correct position and the right dimensions?

yes

Are beams straight ?

yes

Is the top of beam chamfered 45 deg as per detail?

yes

Has all the loose soil in the beam excavation been removed?

yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

yes

Is formwork 100% level?

yes

Is formwork 100% secured?

yes

Is formwork Straight?

yes



Checklist for House Raft Foundation and Concrete Works

1

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes

Is the DPC USB green 250 Micron? yes

Is there a 400mm overlap at the joints od the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes

Has the correct mesh been used? (specify the type of mesh) yes

Is the steel/mesh free of rust? yes

Is the mesh overlap length as per specification? yes

What is the lap length? 400

Are the stirrups in ground beams spaced correctly? yes

Have cover blocks been installed to provide the required cover? yes

Are the cover block tied to the steel? no

ENGINEER

DATE 2015/02/10

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa		
19mm		
11		
10.7		
Completion	<input type="checkbox"/>	<input type="checkbox"/>
No		
yes		
110 mm		
Batch Plant		
yes		
yes		
yes		

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/>	NO
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If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

10-Feb-15



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER 36903

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES

NO

Contractor to confirm the following dimensions:

A=

900

C=

D=

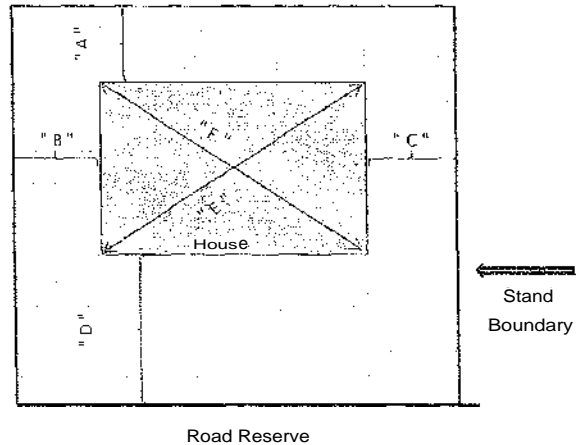
4000

E=

8528

F=

8528



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

yes

Are beams straight ?

yes

Is the top of beam chamfered 45 deg as per detail?

yes

Has all the loose soil in the beam excavation been removed?

yes

Are the trenches dry?

FORMWORK

is formwork treated with a releasing agent ?

yes

Is formwork 100% level?

yes

Is formwork 100% secured?

yes

is formwork Straight?

yes



Checklist for House Raft Foundation and Concrete Works

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ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2015/02/10
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Completion

Duration of concrete pouring

Start Time

Was anywater added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

YES NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

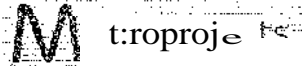
29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	10-Feb-15
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Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	: 10-Feb-15
File	

HOUSE NUMBER _____ 36972

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

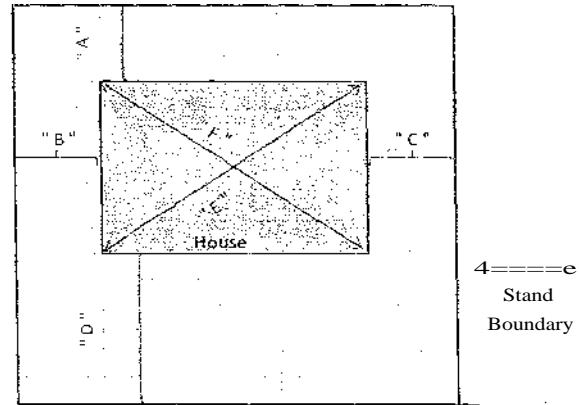
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? _____

NO

Contractor to confirm the following dimensions:

A= _____ E
 Cr F=
 DT



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? _____

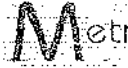
><T<	NO
	yes
	yes
	yes
	yes
	yes
	yes
	yes
	yes

BEAMS

Are beams excavated in the correct position and the right dimensions?
 Are beams straight ?
 Is the top of beam chamfered 45 deg as per detail?
 Has all the loose soil in the beam excavation been removed?
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?
 Is formwork 100% level?
 Is formwork 100% secured?
 Is formwork Straight?



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Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes

Is the DPC USB green 250 Micron? yes

Is there a 400mm overlap at the joints of the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes

Has the correct mesh been used? (specify the type of mesh) yes

Is the steel/mesh free of rust? yes

Is the mesh overlap length as per specification? yes

What is the lap length? 400

Are the stirrups in ground beams spaced correctly? yes

Have cover blocks been installed to provide the required cover? yes

Are the cover block tied to the steel? no

ENGINEER

[Signature]

DATE

zolsozgo

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

•Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa
19mm
11
10.7
Completion
No
yes
110 mm
Batch Plant
yes
yes
yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

YES

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

[Signature]

DATE

10-Feb-15



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER 36973

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

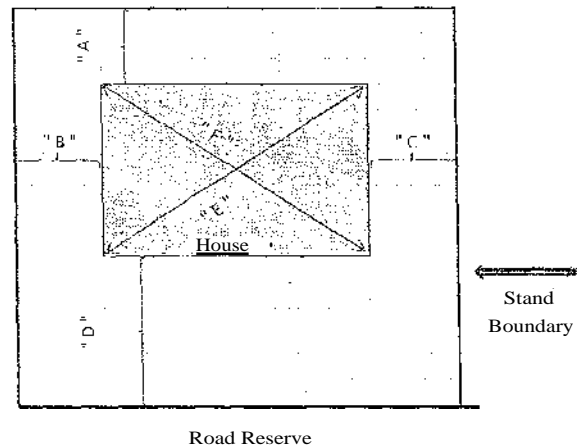
YES

NO

Contractor to confirm the following dimensions:

A =
 B =
 C =
 D =

E =
 F =



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

BEAMS

Are beams excavated in the correct position and the right dimensions?
 Are beams straight ?
 Is the top of beam chamfered 45 deg as per detail?
 Has all the loose soil in the beam excavation been removed?
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?
 Is formwork 100% level?
 Is formwork 100% secured?
 Is formwork Straight?



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r House Raft Foundation and Concrete Works

Check...

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes
Is the DPC USB green 250 Micron? yes
Is there a 400mm overlap at the joints od the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes
Has the correct mesh been used? (specify the type of mesh) yes
Is the steel/mesh free of rust? yes
Is the mesh overlap length as per specification? yes
What is the lap length? 400
Are the stirrups in ground beams spaced correctly? yes
Have cover blocks been installed to provide the required cover? yes
Are the cover block tied to the steel? no

ENGINEER

[Signature]

DATE 2015/02/10

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete 25MPa

What is the aggregate size 19mm

What is the theoretical volume of concrete 11

What is the actual volume of concrete poured 103

Duration of concrete pouring Start Time []

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete? No

What was the slump of the concrete? (75mm to 125mm is acceptable) yes

Have concrete cubes been made on site or at the batch plant? 110 mm

Is there a screed bar on site to ensure the concrete is placed to the correct level? Batch Plant

Is there a powerfloat machine on site? yes

Was the concrete adequately vibrated with a concrete vibrator? yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction? YES NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used? Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days? 19 b) At 28 days? 29.5

Shuttering removal period minimum 36 hours) 48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

[Signature]

DATE 10-Feb-15



Checklist for House Raft Foundation and Concrete Works

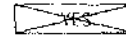
Em ployer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/H523-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER 36974

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

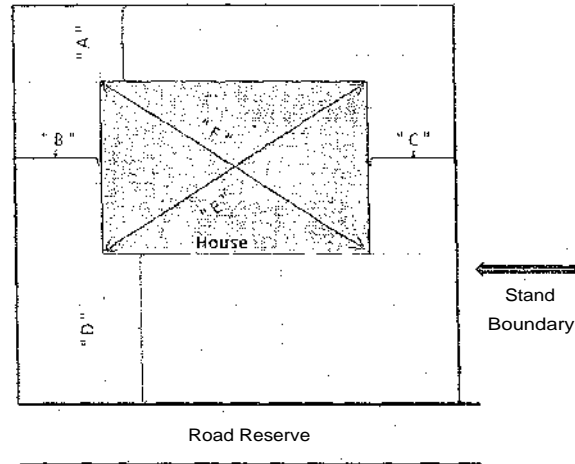
Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:

A=
 B=
 C=
 D=

E=
 F=



EARTH WORKS

is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the 07 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

is formwork 100% secured?

Is formwork Straight?



Checklist for House Raft Foundation and Concrete Works

1

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER

DATE

zots/oz/lo

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion	<input type="text"/>	<input type="text"/>
------------	----------------------	----------------------

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

If "NO", the Contractor must provide method statement to correct the work

<input type="text"/>

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

1 29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

10-Feb-15



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING DEVELOPMENTS



CI Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER _____ 36975

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? _____ NO

Contractor to confirm the following dimensions:

A=		O=	8528
B=	900	F=	8528
C=	8960		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes House

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes ←=====
Stand
Boundary

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight ? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER

DATE

zoistozio

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

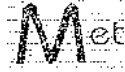
48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

10-Feb-15



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LEADERS IN THE ART
OF VVING EIVIRCAMEn



GIBB

Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Conibiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER

36978

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

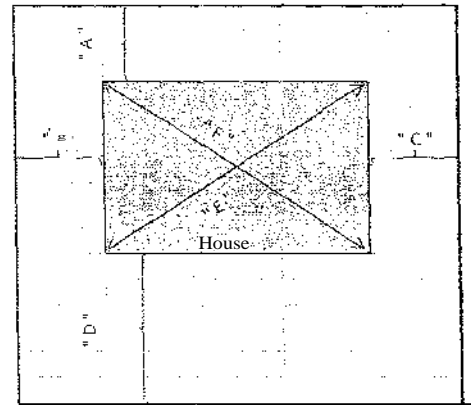
YES

NO

Contractor to confirm the following dimensions:

A=
B=
C=
D=

E=
F=



Stand Boundary

Road Reserve

EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the 07 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house?

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

is formwork 100% secured?

Is formwork Straight?



DEVELOPMENT
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OF LIVING ENVIAGNMENTS



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Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes

Is the DPC USB green 250 Micron? yes

Is there a 400mm overlap at the joints od the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes

Has the correct mesh been used? (specify the type of mesh) yes

Is the steel/mesh free of rust? yes

Is the mesh overlap length as per specification? yes

What is the lap length? 400

Are the stirrups in ground beams spaced correctly? yes

Have cover blocks been installed to provide the required cover? yes

Are the cover block tied to the steel? no

ENGINEER

DATE 2015/02/10

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa		
19mm		
11		
10.7		
Completion		
	No	
	yes	
	110 mm	
	Batch Plant	
	yes	
	yes	
	yes	

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.5

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

-

DATE

10-Feb-15





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DEVELOPMENT
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LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



G1BB
MICRO-P11



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

HOUSE NUMBER 37008

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

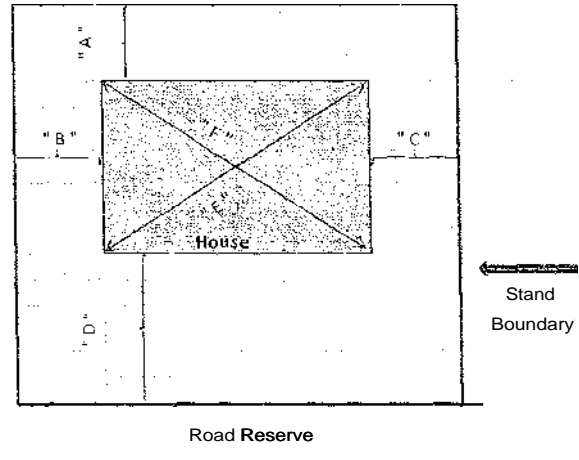
SKIING OUT

Has the builder had the position of the stand boundary beacons confirmed?

NO

Contractor to confirm the following dimensions:

A=		E=	8528
B=	900	F=	8528
C=			
DT	6360		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

yes

Are beams straight ?

yes

Is the top of beam chamfered 45 deg as per detail?

yes

Has all the loose soil in the beam excavation been removed?

yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

yes

Is formwork 100% level?

yes

Is formwork 100% secured?

yes

Is formwork Straight?

yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes

Is the DPC USB green 250 Micron? yes

Is there a 400mm overlap at the joints od the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes

Has the correct mesh been used? (specify the type of mesh) yes

Is the steel/mesh free of rust? yes

Is the mesh overlap length as per specification? yes

What is the lap length? 400

Are the stirrups in ground beams spaced correctly? yes

Have cover blocks been installed to provide the required cover? yes

Are the cover block tied to the steel? no

ENGINEER

DATE

zilizoz/fo

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete 25MPa

What is the aggregate size 19mm

What is the theoretical volume of concrete 11

What is the actual volume of concrete poured 10.7

Duration of concrete pouring Start Time I Completion

Was any water added to the concrete mix on site No

Is there a concrete vibrator at the raft site prior to placing of concrete? yes

What was the slump of the concrete? (75mm to 125mm is acceptable) 110 mm

Have concrete cubes been made on site or at the batch plant? Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level? yes

Is there a powerfloat machine on site? yes

Was the concrete adequately vibrated with a concrete vibrator? yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used? Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days? 19 b) At 28 days? 29.5

Shuttering removal period (minimum 36 hours) 48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

10-Feb-15



DEVELOPMENT aV
LEMURS IN THE DEVELOPMENT
OF LIVING (AVV104,1017S)



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	: PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	: 10-Feb-15
File	

HOUSE NUMBER _____ 37012

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

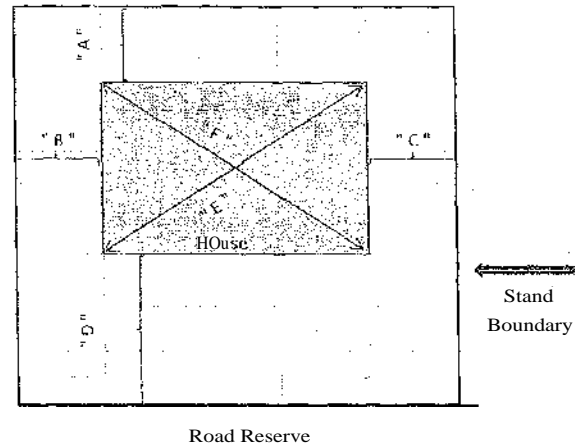
 YES

 NO

Contractor to confirm the following dimensions:

AT	
8=	900
Cr	
O.	6780

E.	8528
F=	8528



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

 Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

 yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

 yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

 yes

Are beams straight ?

 yes

Is the top of beam chamfered 45 deg as per detail?

 yes

Has all the loose soil in the beam excavation been removed?

 yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

 yes

Is formwork 100% level?

 yes

Is formwork 100% secured?

 yes

Is formwork Straight?

 yes



DEVELOPMENT
FADEAS
OF LIVING ENVIRONMENTS



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?


yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2015/02/10
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade /strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion	<input type="text"/>	<input type="text"/>
	No	

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 MM

Have concrete cubes been made on site or at the batch plant?

Batch Plant

is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

If "NO", the Contractor must provide method statement to correct the work

<input type="text"/>

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

19

b) At 28 days?

29.S

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER	<input type="text"/>	DATE	10-Feb-15

FOUNDATION CHECK LIST

Payment Certificate No.1

Raft Foundations - Stand numbers



No.	Stand No.	No.	Stand No.
1	36870	29	36989
2	36871	30	36990
3	36873	31	36991
4	36875	32	36992
5	36877	33	36993
6	36895	34	36996
7	36989	35	36995
8	36896	36	36997
9	36902	37	36999
10	36904	38	36998
11	36905	39	37001
12	36906	40	37002
13	36907	41	37003
14	36908	42	37005
15	36909	43	37006
16	36911	44	37007
17	36913	45	37009
18	36914	46	37010
19	36915	47	37011
20	36916	48	37013
21	36980	49	37014
22	36981	50	37015
23	36983	51	37016
24	36984	52	37017
25	36985	53	37018
26	36986	54	37019
27	36987	55	37020
28	36988	56	36912

Total Number of Foundations: 56

A handwritten signature in black ink, appearing to be "S. K. Saha".

Certified By:
Project Manager
GIBB Engineering and Architecture

25/08/20

Date'

CHECK LISTS



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER 36982

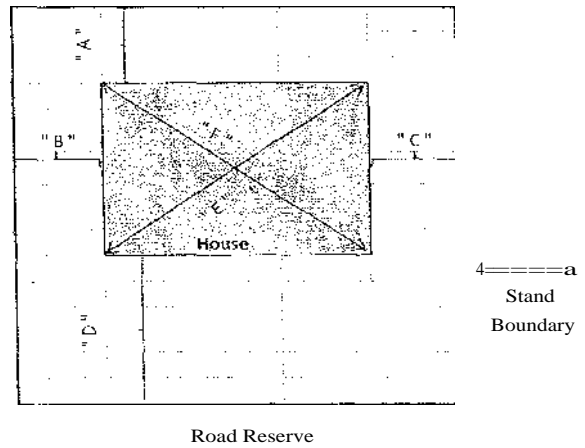
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A= E = 8528
 B= 900 F = 8528
 C=
 D= 9960



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes
 Are beams straight ? yes
 Is the top of beam chamfered 45 deg as per detail? yes
 Has all the loose soil in the beam excavation been removed? yes
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes
 Is formwork 100% level? yes
 Is formwork 100% secured? yes
 Is formwork Straight? yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

Is the DPC USE green 250 Micron?

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

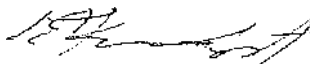
Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

ENGINEER		DATE	20 th / 0 / 13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa		
19mm		
11		
10.7		
Completion	<input type="text"/>	<input type="text"/>
No		
yes		
110 mm		
Batch Plant		
yes		
yes		
yes		

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

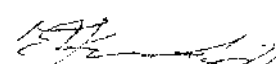
What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Oct-14



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENT



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER 36901

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

NO

Contractor to confirm the following dimensions:

A=		E=	8528
B.	900	F=	8528
C=			
D=	3000		

EARTH WORKS

is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOO AASHTO in 150mm thick layers? yes

House:

4===== Stand Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

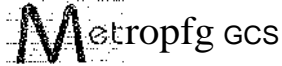
Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes

Is the DPC USE green 250 Micron? yes

Is there a 400mm overlap at the joints od the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes

Has the correct mesh been used? (specify the type of mesh) yes

Is the steel/mesh free of rust? yes

Is the mesh overlap length as per specification? yes

What is the lap length? 400

Are the stirrups in ground beams spaced correctly? yes

Have cover blocks been installed to provide the required cover? yes

Are the cover block tied to the steel? no

ENGINEER		DATE	2014/10/13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete 25MPa

What is the aggregate size 19mm

What is the theoretical volume of concrete 11

What is the actual volume of concrete poured 10.7

Duration of concrete pouring Start Time

Was any water added to the concrete mix on site Completion

Is there a concrete vibrator at the raft site prior to placing of concrete? No

What was the slump of the concrete? (75mm to 12Smm is acceptable) yes

Have concrete cubes been made on site or at the batch plant? 110 ram

Is there a screed bar on site to ensure the concrete is placed to the correct level? Batch Plant

Is there a powerfloat machine on site? yes

Was the concrete adequately vibrated with a concrete vibrator? yes

POWER FLOATING

is power floating completed to Engineer's satisfaction NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used? Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days? 17 b) At 28 days? 29

Shuttering removal period (minimum 36 hours) 48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate		
ENGINEER	DATE	13-Oct-14





DEVELOPMENT
(WOWS 4: ME DEVELOPMENT
CI UWNG VIRCANMEWS)



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER 36900

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

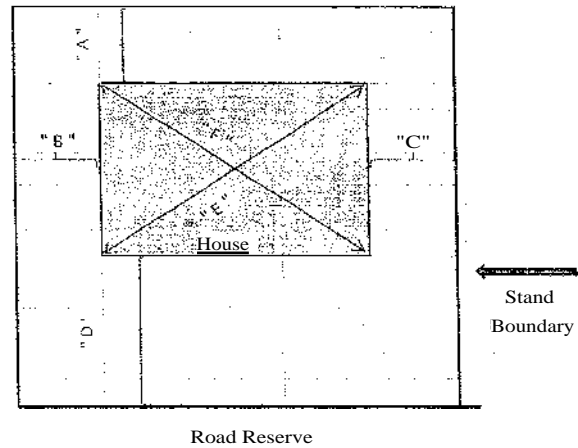
Has the builder had the position of the stand boundary beacons confirmed?

 YES

 NO

Contractor to confirm the following dimensions:

A=	<input type="text"/>	E=	<input type="text" value="8485"/>
B=	<input type="text" value="900"/>	F=	<input type="text" value="8485"/>
C=	<input type="text"/>		
D=	<input type="text" value="6900"/>		



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes
 Are beams straight ? yes
 Is the top of beam chamfered 45 deg as per detail? yes
 Has all the loose soil in the beam excavation been removed? yes
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes
 Is formwork 100% level? yes
 Is formwork 100% secured? yes
 Is formwork Straight? yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

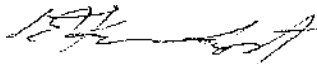
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2014/10/13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time	
------------	--

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete?. (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

$f > f <$	NO
-----------	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

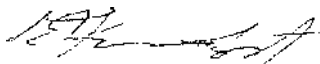
17 Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

b) At 28 days? 29

Shuttering removal period (minimum 36 hours)

F 48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Oct-14



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	.

HOUSE NUMBER 36994

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

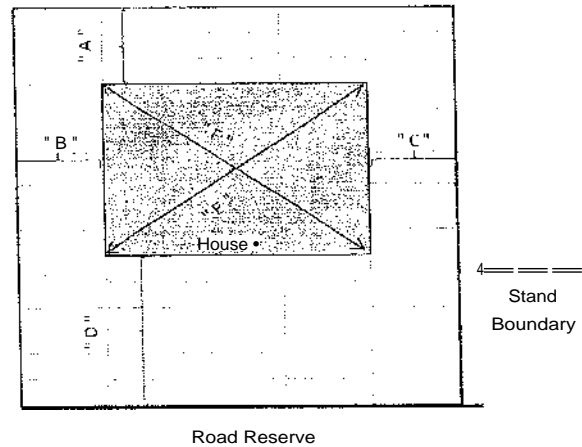
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES	NO
-----	----

Contractor to confirm the following dimensions:

A=		E=	8528
B=	900	F=	8528
C=			
D=	3000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

>E<	NO
yes	
yes	
yes	
yes	

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

yes
yes
yes
yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER	DATE	2014/10/13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerBoat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

	NO
--	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	DATE
	13-Oct-14





Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/F[523 20 3
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

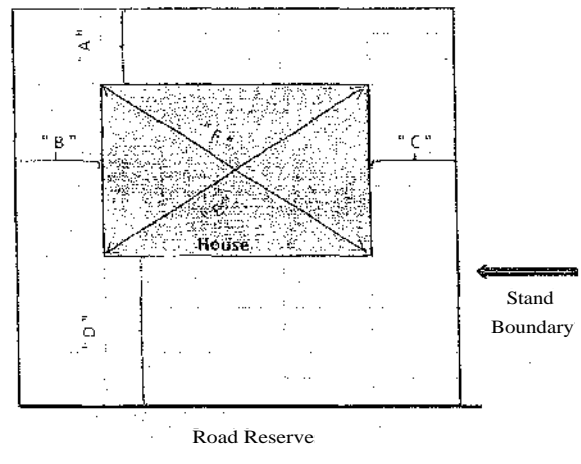
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES NO

Contractor to confirm the following dimensions:

B.	900	E =	8528
C =		F	8528
D =	3000		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

YES NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

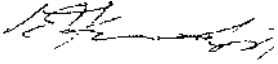
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2014/10/13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

yes

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

29

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate		
ENGINEER	DATE	13-Oct-14



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER 37004

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

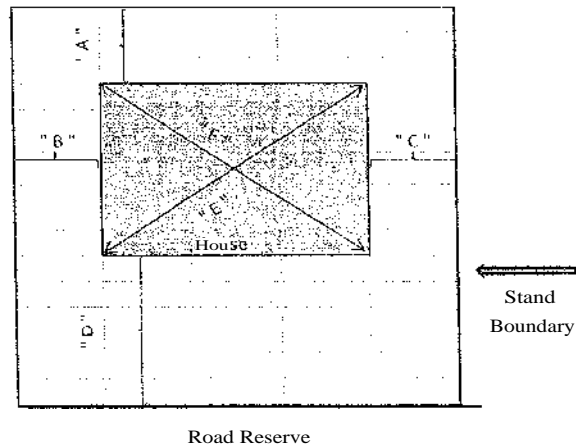
YES

NO

Contractor to confirm the following dimensions:

A=	
B=	900
C=	
D=	3000

E=	8528
F=	8528



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

YES

NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

yes

Are beams straight ?

yes

Is the top of beam chamfered 45 deg as per detail?

yes

Has all the loose soil in the beam excavation been removed?

yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

yes

Is formwork 100% level?

yes

Is formwork 100% secured?

yes

Is formwork Straight?

yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

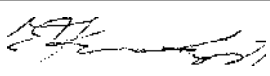
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2014/10/13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

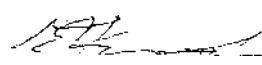
b) At 28 days?

29

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to ail requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13-Oct-14
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1 Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER 36874

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

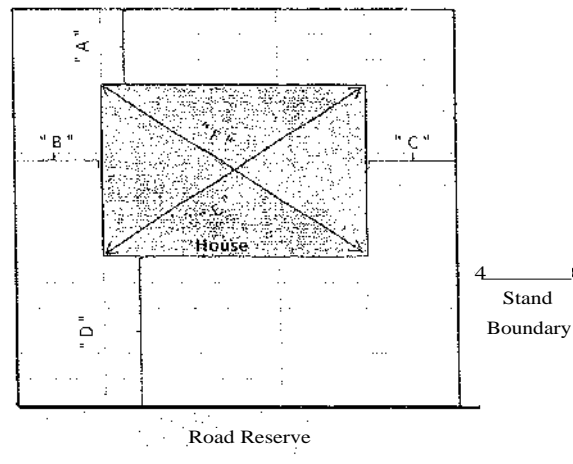
 YES

 NO

Contractor to confirm the following dimensions:

A= _____
 B=
 C= _____
 D=

E=
 F=



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 YES

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?
 Are beams straight ?
 Is the top of beam chamfered 45 deg as per detail?
 Has all the loose soil in the beam excavation been removed?
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?
 Is formwork 100% level?
 Is formwork 100% secured?
 Is formwork Straight?



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

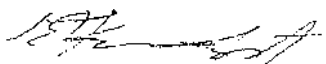
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2014/10/13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

110 mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

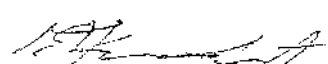
What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days? 29

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	
DATE	13-Oct-14



Checklist for House Raft Foundation and Concrete Works

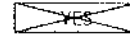
Employer	Ekurhuleni Metropolitan Municipality
Project	: Etwatwa Ext 35 - Combiza
Contract	: PS/HS23 2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER 36859

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

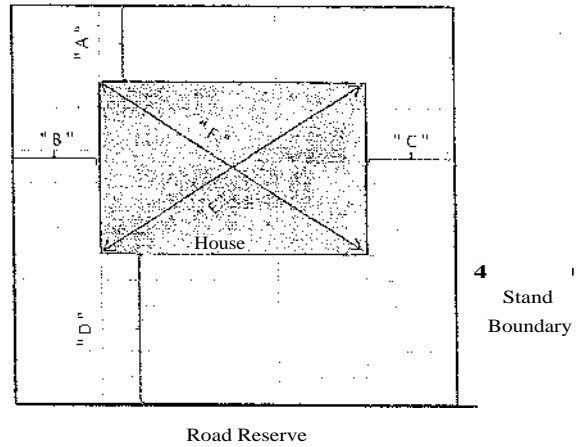
Has the builder had the position of the stand boundary beacons confirmed?



NO

Contractor to confirm the following dimensions:

A=		E=	8485
B=	900	F=	8485
C=			
D=	9645		



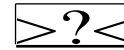
EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm,thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?
is the DPC USB green 250 Micron?

yes
yes
yes

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	2014/10/13
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa	
19mm	
11	
10.7	
Completion	No
	yes
	110 mm
	Batch Plant
	yes
	yes
	yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

	NO
--	----

If "NU", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

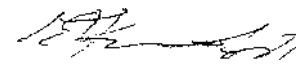
What was the achieved concrete strength; 1) At 7 days?

17

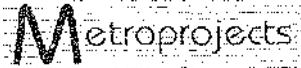
b) At 28 days? 1 29

Shuttering removal period (minimum 36 hours)

48 hrs

<p>Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate</p>			
ENGINEER		DATE	13-Oct-14





Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Oct-14
File	

HOUSE NUMBER 36865

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

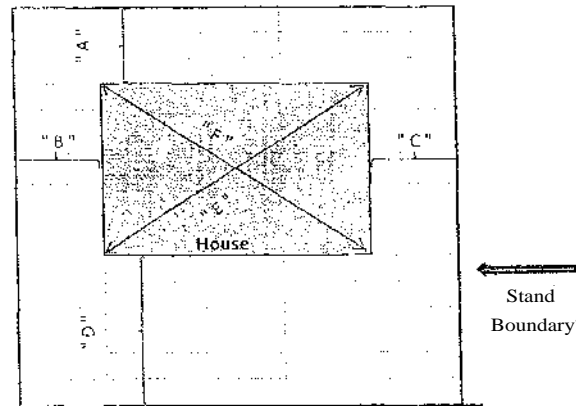
Has the builder had the position of the stand boundary beacons confirmed?

 YES NO

Contractor to confirm the following dimensions:

A=	
B=	9000
C=	
D=	10000

E=	8485
F=	8485



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

 Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

 yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

 yes

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 YES NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

 yes

Are beams straight ?

 yes

Is the top of beam chamfered 45 deg as per detail?

 yes

Has all the loose soil in the beam excavation been removed?

 yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

 yes

Is formwork 100% level?

 yes

is formwork 100% secured?

 yes

Is formwork Straight?

 yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor? yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam? yes

Is the DPC USB green 250 Micron? yes

Is there a 400mm overlap at the joints of the DPC? yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule? yes

Has the correct mesh been used? (specify the type of mesh) yes

Is the steel/mesh free of rust? yes

Is the mesh overlap length as per specification? yes

What is the lap length? 400

Are the stirrups in ground beams spaced correctly? yes

Have cover blocks been installed to provide the required cover? yes

Are the cover block tied to the steel? no

ENGINEER

DATE 2014/10/13

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa
19mm
11
10.7
Completion
No
yes
110 mm
Batch Plant
yes
yes
yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

What was the achieved concrete strength; 1) At 7 days?

Shuttering removal period (minimum 36 hours)

Close slab with sand and pour water daily		
17		b) At 28 days? 29
48 hrs		

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE 13-Oct-14





Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuteni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	16-May-14
File	

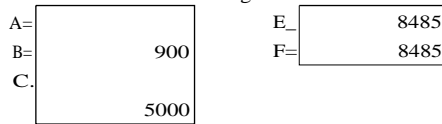
HOUSE NUMBER _____ 37005

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? _____ NO

Contractor to confirm the following dimensions:



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Rouse 4===== Stand Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight ? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6/6/2014
----------	--	------	----------

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Completion

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

YES NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13-Jun-14
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Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PSIHS23-2013
Contractor	: Bankuna Construction and Engineering
Date	16-May-14
File	

HOUSE NUMBER _____ 37006

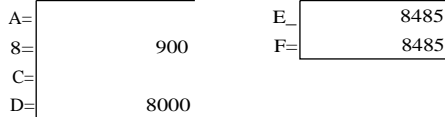
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? _____

_____ NO

Contractor to confirm the following dimensions:



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

House : _____
4===== Stand Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
 yes
 yes
 yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
 yes
 yes
 yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER	DATE	6/6/2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa	
19mm	
11	
10.7	
Completion	
No	
yes	
75mm	
Batch Plant	
yes	
yes	
yes	

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

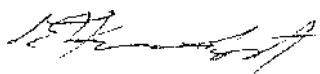
What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	DATE
	13-Jun-14



Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	: PS/HS23-2013
Contractor	: Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER _____ 36877

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

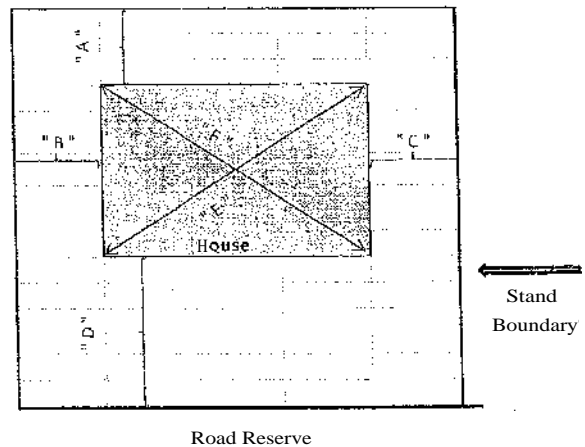
Has the builder had the position of the stand boundary beacons confirmed?

 YES

 NO

Contractor to confirm the following dimensions:

A=	E=	8485
B=	F=	8485
C=		
D=		5913



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

 Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

 yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

 yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

 yes

Are beams straight ?

 yes

Is the top of beam chamfered 45 deg as per detail?

 yes

Has all the loose soil in the beam excavation been removed?

 yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

 yes

Is formwork 100% level?

 yes

Is formwork 100% secured?

 yes

Is formwork Straight?

 yes




O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes
yes
yes

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints od the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa		
19mm		
11		
10.7		
Completion		
No		
yes		
75mm		
Batch Plant		
yes		
yes		
yes		

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





C Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/I1823-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER 36875

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E=	8485
B=	900	F=	8485
O=			
D=	6860		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

e 40=====
Stand
Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

	NO
--	----

BEAMS

Are beams excavated in the correct position and the right dimensions?
Are beams straight ?
Is the top of beam chamfered 45 deg as per detail?
Has all the loose soil in the beam excavation been removed?
Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?
Is formwork 100% level?
Is formwork 100% secured?
Is formwork Straight?

yes
yes
yes
yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

yes

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time	
------------	--

Was any water added to the concrete mix on site

Completion		
------------	--	--

Is there a concrete vibrator at the raft site prior to placing of concrete?

No

What was the slump of the concrete? (75mm to 125mm is acceptable)

yes

Have concrete cubes been made on site or at the batch plant?

75mm

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Batch Plant

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

yes

If "NO", the Contractor must provide method statement to correct the work

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

CONCRETE CURING

What curing method will be used?

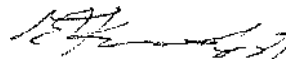
Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





Cr Checklist for House Raft Foundation and Concrete Works

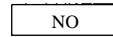
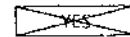
Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun 14
File	

HOUSE NUMBER 36873

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

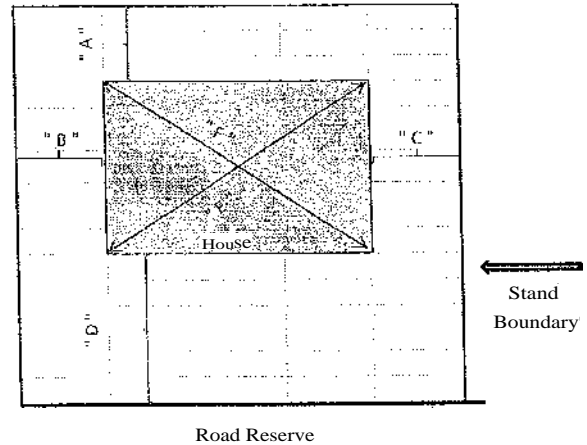
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:

A=	E =	8910
B=	F =	8910
C=		
Dr		4585



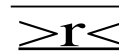
EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?





Checklist for House Raft Foundation and Concrete Works

ANT POISON


Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?
Is the DPC USB green 250 Micron?
Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?
Has the correct mesh been used? (specify the type of mesh)
Is the steel/mesh free of rust?
Is the mesh overlap length as per specification?
What is the lap length?
Are the stirrups in ground beams spaced correctly?
Have cover blocks been installed to provide the required cover?
Are the cover block tied to the steel?

ENGINEER  DATE 6-Jun-14

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?
What is the grade / strength of concrete
What is the aggregate size
What is the theoretical volume of concrete
What is the actual volume of concrete poured
Duration of concrete pouring Start Time
Was any water added to the concrete mix on site
Is there a concrete vibrator at the raft site prior to placing of concrete?
What was the slump of the concrete? (75mm to 125mm is acceptable)
Have concrete cubes been made on site or at the batch plant?
Is there a screed bar on site to ensure the concrete is placed to the correct level?
Is there a powerfloat machine on site?
Was the concrete adequately vibrated with a concrete vibrator?

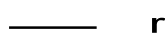
POWER FLOATING

Is power floating completed to Engineer's satisfaction
If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?
What was the achieved concrete strength; 1) At 7 days? b) At 28 days?
Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER  DATE 13-Jun-14





▶ Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	.

HOUSE NUMBER

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

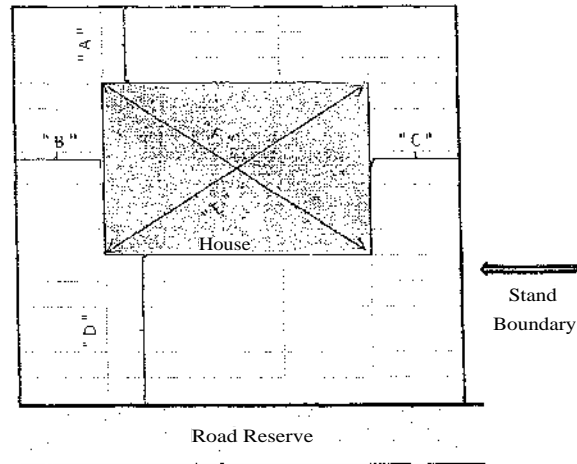
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES NO

Contractor to confirm the following dimensions:

A= E=
 B= F=
 C=
 D=



EARTHWORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

YES NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

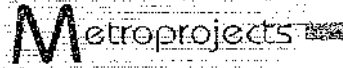
Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?





DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



GIBB
INCORPORATED

Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes
yes
yes

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes
yes
yes
yes
400
yes
yes
no

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

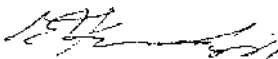
Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

	25MPa
	19mm
	11
	10.7
Completion	<input type="text"/>
	No
	yes
	75mm
	Batch Plant
	yes
	yes
	yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
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If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

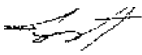
Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	
DATE	13-Jun-14





Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER _____ 36870

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E =	8485
B=	900	F =	8485
C=			
D=	6900		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes



Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



GIBE
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CI Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER	DATE	6/6/2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion	
------------	--

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

	NO
--	----

If "NO", the Contractor must provide method statement to correct the work

--

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13-Jun-14
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CI Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/I-1523-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

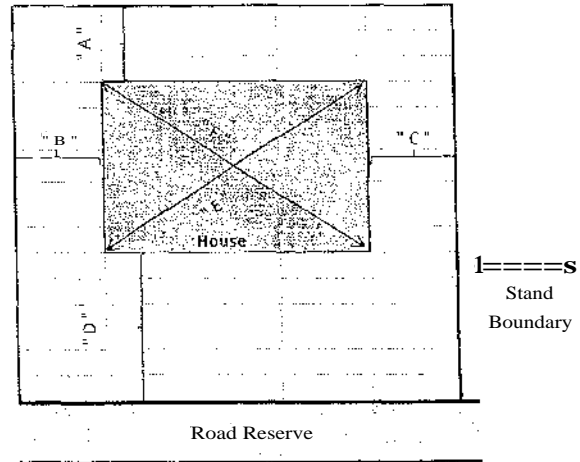
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES NO

Contractor to confirm the following dimensions:

A=		E	8485
B=	900	F	8485
C=			
D=	6900		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G1 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

YES NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USE green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

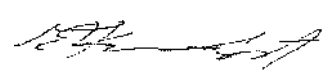
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

--

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

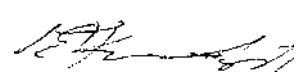
What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





DEVELOPMENT
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OF LIVING ENVIRONMENTS



Chec klist for House Raft Foundation and Concrete Works

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Khombiza
Contract	:	PS/HS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	13-Jun-14
File	:	

HOUSE NUMBER _____ 36907

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

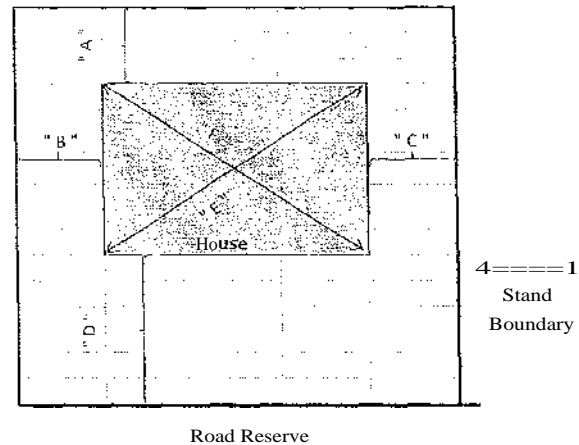
Has the builder had the position of the stand boundary beacons confirmed?

 YES

 NO

Contractor to confirm the following dimensions:

A=	<input type="text"/>	E=	<input type="text" value="8528"/>
B=	<input type="text" value="900"/>	F=	<input type="text" value="8528"/>
C=	<input type="text"/>		
D=	<input type="text" value="7560"/>		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

 Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

 yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

 yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

 yes

Are beams straight ?

 yes

Is the top of beam chamfered 45 deg as per detail?

 yes

Has all the loose soil in the beam excavation been removed?

 yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

 yes

Is formwork 100% level?

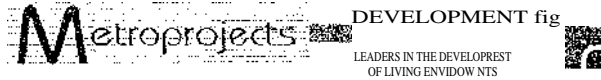
 yes

Is formwork 100% secured?

 yes

Is formwork Straight?

 yes



CIF Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

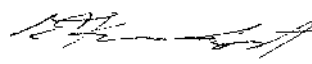
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate		
ENGINEER		DATE 13-Jun-14



O Checklist for House Raft Foundation and Concrete Works

Employer	: Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER _____ 36904

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

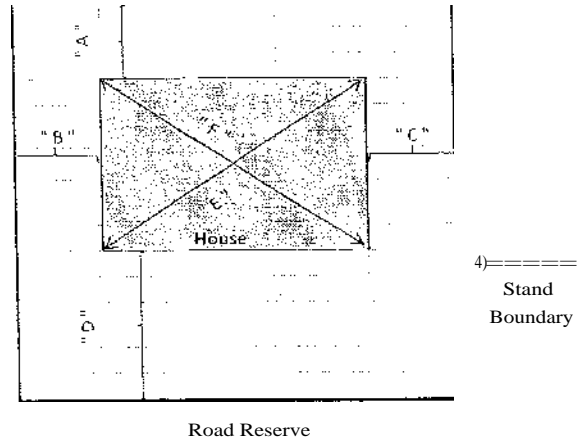
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

NO

Contractor to confirm the following dimensions:

A= _____ E = 8485
 B= 900 F = 8485
 C= _____
 D= 6860



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight ? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25Mpa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Completion	
------------	--

Duration of concrete pouring

Start Time

No

Was any water added to the concrete mix on site

yes

Is there a concrete vibrator at the raft site prior to placing of concrete?

75mm

What was the slump of the concrete? (75mm to 125mm is acceptable)

Batch Plant

Have concrete cubes been made on site or at the batch plant?

yes

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
---	-----------------------------

If "NO", the Contractor must provide method statement to correct the work

--

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





Checklist for House Raft Foundation and Concrete Works

Employer	-	Ekurhuleni Metropolitan Municipality
Project		Etwatwa Ext 35 - Khombiza
Contract		PS/HS23-2013
Contractor	!	Bankuna Construction and Engineering
Date		13-Jun-14
File		

HOUSE NUMBER _____ 36908

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

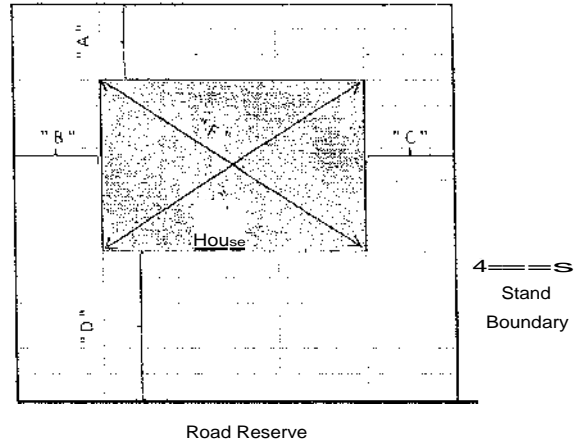
Has the builder had the position of the stand boundary beacons confirmed?

YES

NO

Contractor to confirm the following dimensions:

A=		E=	8485
B=	900	F=	8485
C=			
D=	9620		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

YES

NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

yes

Are beams straight ?

yes

Is the top of beam chamfered 45 deg as per detail?

yes

Has all the loose soil in the beam excavation been removed?

yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

yes

Is formwork 100% level?

yes

Is formwork 100% secured?

yes

Is formwork Straight?

yes



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion

Is there a concrete vibrator at the raft site prior to placing of concrete?

No

What was the slump of the concrete? (75mm to 125mm is acceptable)

yes

Have concrete cubes been made on site or at the batch plant?

75mm

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Batch Plant

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

--

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

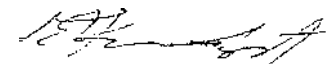
What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER 36911

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

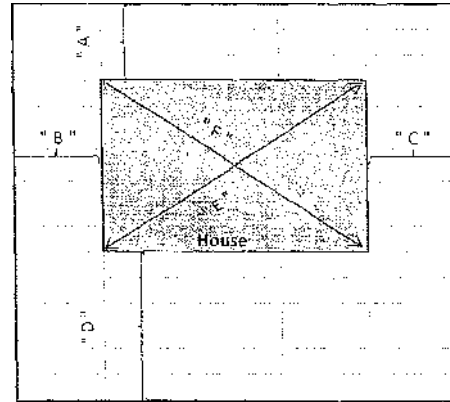
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

NO

Contractor to confirm the following dimensions:

A= E= 8528
B= 900 F= 8528
C=
Ds 6720



Stand Boundary

Road Reserve

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



DEVELOPMENT REPORT
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OF MING ENVIRONMENTS



GIBB
ENGINEERING & CONSTRUCTION

Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER

DATE

6-Jun-14

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

--

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

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NO

POWER FLOATING

Is power floating completed to Engineer's satisfaction

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

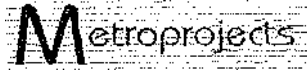
Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE

13-Jun-14





DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?


yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

yes

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
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If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF OUR ENVIRONMENTS



CI Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/I-1S23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER 36907

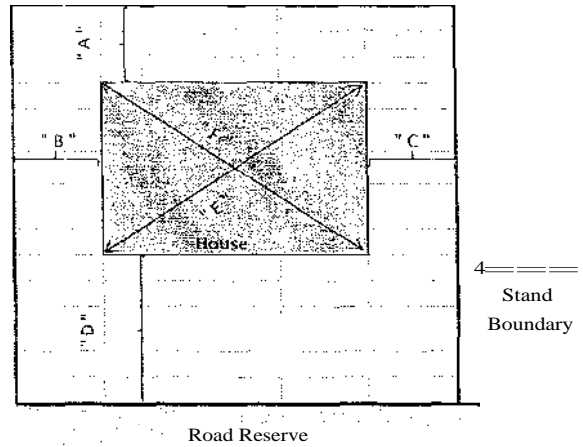
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A= E= 8528
 B= 900 F= 8528
 C=
 D= 7560



EARTH WORKS:

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes

Are beams straight? yes

Is the top of beam chamfered 45 deg as per detail? yes

Has all the loose soil in the beam excavation been removed? yes

Are the trenches dry? yes

FORMWORK

Is formwork treated with a releasing agent ? yes

Is formwork 100% level? yes

Is formwork 100% secured? yes

Is formwork Straight? yes



DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF LIVING ENVIRONMENTS



GIBB
ENGINEERING & SCIENCE

Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	: Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	: 13-Jun-14
File	:

HOUSE NUMBER _____ 36904

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

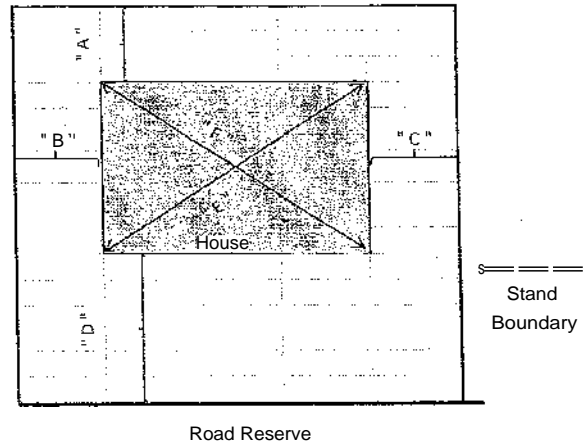
YES

NO

Contractor to confirm the following dimensions:

A=
B=
C=
D=

E =
F =



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?





O Checklist for House Raft Foundation and Concrete Works

ANT POISON

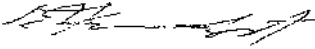
Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?
Is the DPC USB green 250 Micron?
Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?
Has the correct mesh been used? (specify the type of mesh)
Is the steel/mesh free of rust?
Is the mesh overlap length as per specification?
What is the lap length?
Are the stirrups in ground beams spaced correctly?
Have cover blocks been installed to provide the required cover?
Are the cover block tied to the steel?

ENGINEER  DATE 6-Jun-14

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?
What is the grade / strength of concrete
What is the aggregate size
What is the theoretical volume of concrete
What is the actual volume of concrete poured
Duration of concrete pouring Start Time Completion
Was any water added to the concrete mix on site
Is there a concrete vibrator at the raft site prior to placing of concrete?
What was the slump of the concrete? (75mm to 125mm is acceptable)
Have concrete cubes been made on site or at the batch plant?
Is there a screed bar on site to ensure the concrete is placed to the correct level?
Is there a powerfloat machine on site?
Was the concrete adequately vibrated with a concrete vibrator?

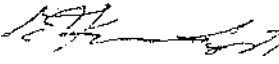
POWER FLOATING

Is power floating completed to Engineer's satisfaction
If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?
What was the achieved concrete strength; 1) At 7 days? b) At 28 days?
Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER  DATE 13-Jun-14





DEVELOPMENT
LEADERS IN THE DEVELOPMENT
GAMING ENVIRONMENTS



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER	DATE	6-Jun-14
----------	------	----------

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

2SMPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

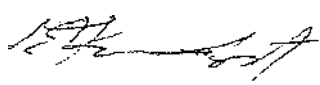
17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13-Jun-14
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OF LIVING ENVIRONMENTS



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ENGINEERING & SCIENCE



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

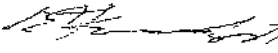
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

1.1

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion

Is there a concrete vibrator at the raft site prior to placing of concrete?

No

What was the slump of the concrete? (75mm to 125mm is acceptable)

yes

Have concrete cubes been made on site or at the batch plant?

75mm

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Batch Plant

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

yes

If "NO", the Contractor must provide method statement to correct the work

NO

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

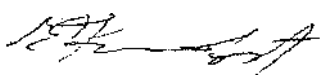
What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





DEVELOPMENT
LEADERS in THE DEVELOPMENT
OF LIVING ENVIRONMENTS



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Checklist for House Raft Foundation and Concrete Works

Employer	:	Ekurhuleni Metropolitan Municipality
Project	•	Etwatwa Ext 35 - Khombiza
Contract	•	PS/HS23-2013
Contractor		Bankuna Construction and Engineering
Date		13-Jun-14
File	•	

HOUSE NUMBER _____ 36912

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

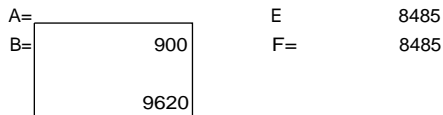
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

Ee

NO

Contractor to confirm the following dimensions:



" B "

EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

House



Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

BEAMS

Are beams excavated in the correct position and the right dimensions?

yes

Are beams straight ?

yes

Is the top of beam chamfered 45 deg as per detail?

yes

Has all the loose soil in the beam excavation been removed?

yes

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

yes

Is formwork 100% level?

yes

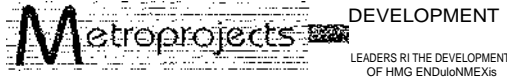
Is formwork 100% secured?

yes

Is formwork Straight?

yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has the Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover blocks tied to the steel?

no

ENGINEER		DATE	6/6/2014
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time	
------------	--

Completion	
------------	--

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

	NO
--	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

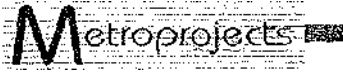
b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	DATE 13-Jun-14





DEVELOPMENT EII 42
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OF IMO ENVIRONUENTS



Checklist for House Raft Foundation and Concrete Works

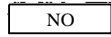
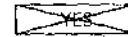
Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER _____ 36914

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

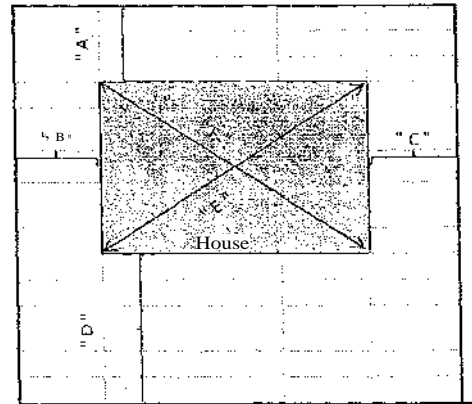
Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:

A=	
B=	900
C=	
D=	9520

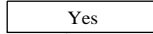
E	8485
F=	8485



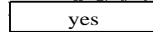
4= I I I
Stand
Boundary

EARTH WORKS

Is the excavations deep enough as specified by the engineers?



Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?



Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent?

IS formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes





DEVELOPMENT
LEADERS MINE DEVELOPMENT
OF LIVING ENVIRONMENTS



GIBB
ENGINEERING & SCIENCE

O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER	DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion	
------------	--

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
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If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

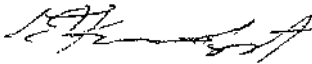
What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	
DATE	13-Jun-14



C Checklist for House Raft Foundation and Concrete Works

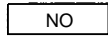
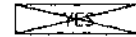
Employer	: Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	: 13-Jun-14
File	.

HOUSE NUMBER _____ 36980

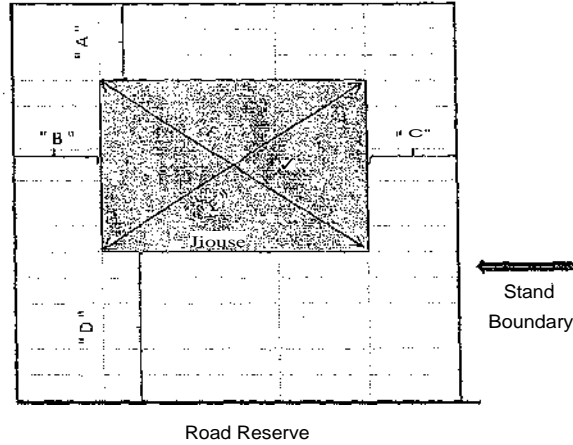
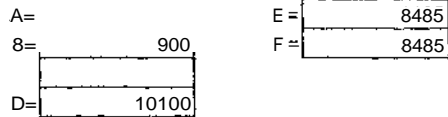
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:



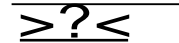
EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

<input type="text" value="yes"/>
<input type="text" value="yes"/>
<input type="text" value="yes"/>
<input type="text" value="yes"/>

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?

<input type="text" value="yes"/>
<input type="text" value="yes"/>
<input type="text" value="yes"/>
<input type="text" value="yes"/>



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

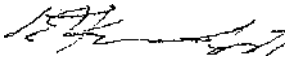
Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

ENGINEER		DATE	<u>6-Jun-14</u>
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?


Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	<u>13-Jun-14</u>
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EII Checklist for House Raft Foundation and Concrete Works

Employer	•	Ekurhuleni Metropolitan Municipality
Project	•	Etwatwa Ext 35 - Khombiza
Contract	•	PS/HS23-2013
Contractor		Bankuna Construction and Engineering
Date	•	13-Jun-14
File	•	

HOUSE NUMBER _____ 36981

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

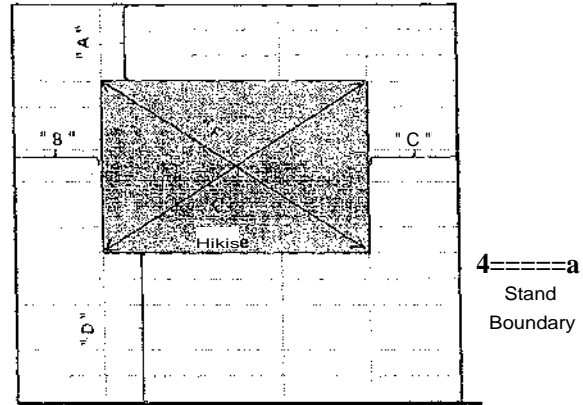
Has the builder had the position of the stand boundary beacons confirmed?

 YES

 NO

Contractor to confirm the following dimensions:

A=	<input type="text"/>	E=	<input type="text" value="8910"/>
B=	<input type="text" value="900"/>	F=	<input type="text" value="8910"/>
D=	<input type="text" value="8900"/>		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

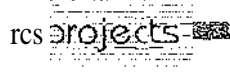
Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



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Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

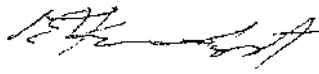
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

--

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
----------------------	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

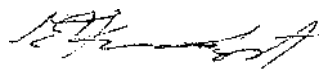
Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





CI Checklist for House Raft Foundation and Concrete Works

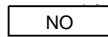
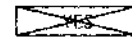
Employer	:	Ekurhuteni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Khombiza
Contract	:	PSIHS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	15-Jan-14
File	:	

HOUSE NUMBER

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

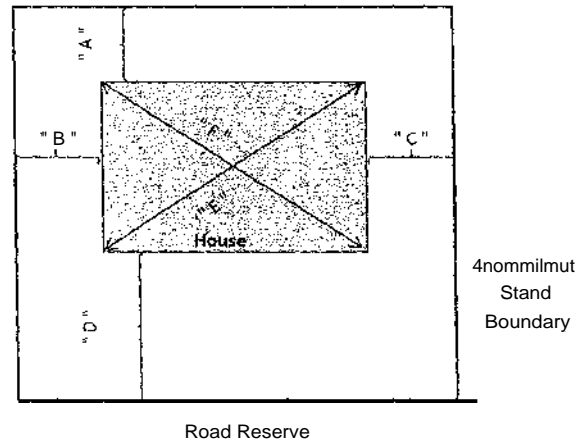
Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:

A=	<input type="text" value="9560"/>
B=	<input type="text" value="3000"/>
C=	<input type="text"/>
D=	<input type="text"/>

E=	<input type="text" value="8910"/>
F=	<input type="text" value="8910"/>



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

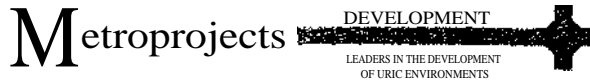
FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints od the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

ENGINEER  DATE **30-Jan-14**

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring Start Time Completion I

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

POWER FLOATING

Is power floating completed to Engineer's satisfaction

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

What was the achieved concrete strength; 1) At 7 days? b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER _____ DATE **14-Mar-14**



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Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/H523-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER 36986

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

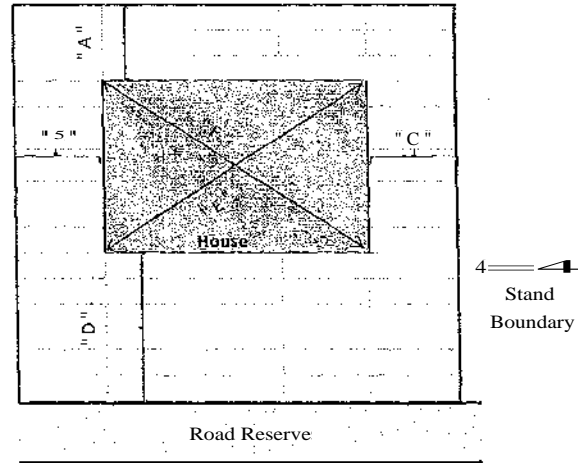
Has the builder had the position of the stand boundary beacons confirmed?

 YES

 NO

Contractor to confirm the following dimensions:

A=		E=	8485
B=	2590	F=	8485
C=			
D=	6430		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

 Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

 yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

 yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion

No

Was any water added to the concrete mix on site

yes

Is there a concrete vibrator at the raft site prior to placing of concrete?

75mm

What was the slump of the concrete? (75mm to 125mm is acceptable)

Batch Plant

Have concrete cubes been made on site or at the batch plant?

yes

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13-Jun-14
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CI Checklist for House Raft Foundation and Concrete Works

Employer	: Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	: PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

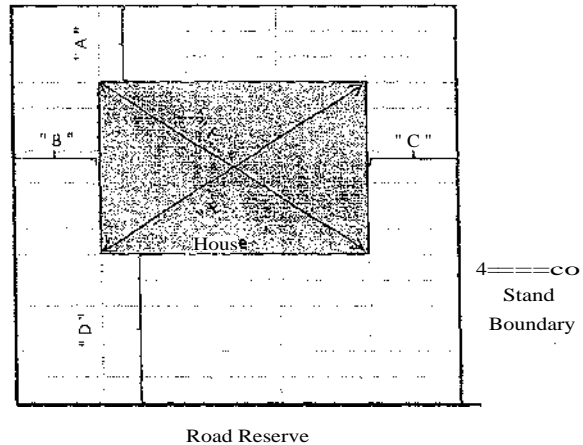
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES NO

Contra&or to confirm the following dimensions:

A=	<input type="text"/>	E=	<input type="text" value="8485"/>
B=	<input type="text" value="900"/>	F=	<input type="text" value="8485"/>
C=	<input type="text"/>		
D=	<input type="text" value="10390"/>		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

YES NO

BEAMS

- Are beams excavated in the correct position and the right dimensions?
- Are beams straight ?
- Is the top of beam chamfered 45 deg as per detail?
- Has all the loose soil in the beam excavation been removed?
- Are the trenches dry?

FORMWORK

- Is formwork treated with a releasing agent ?
- Is formwork 100% level?
- Is formwork 100% secured?
- Is formwork Straight?





Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?


yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

yes

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

$C > < : 1$	NO
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If "NO", the Contractor must provide method statement to correct the work

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CONCRETE CURING

What curing method will be used?

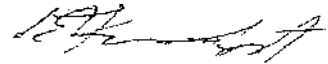
Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14



Checklist for House Raft Foundation and Concrete Works

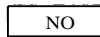
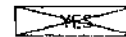
Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Khombiza
Contract	:	PS/HS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	13-Jun-14
File	:	

HOUSE NUMBER _____ 36988

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

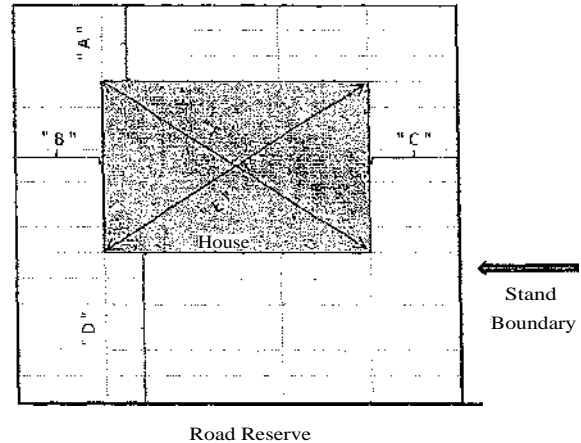
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:

A.	900	E.	8910
C=		F	8910
D=	9100		



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes



O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

Is the DPC USB green 250 Micron?

Is there a 400mm overlap at the joints of the DPC?

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

Has the correct mesh been used? (specify the type of mesh)

Is the steel/mesh free of rust?

Is the mesh overlap length as per specification?

What is the lap length?

Are the stirrups in ground beams spaced correctly?

Have cover blocks been installed to provide the required cover?

Are the cover block tied to the steel?

ENGINEER		DATE	6-Jun-14
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CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

POWER FLOATING

Is power floating completed to Engineer's satisfaction

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13-Jun-14
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Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER 36989

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? NO

Contractor to confirm the following dimensions:

A=		E=	8528
B=	900	F=	8528
C=			
D=	8000		

EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

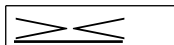
Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

ouse
4=2====as
Stand
Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

yes
yes
yes
yes

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?

yes
yes
yes
yes





O Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER

DATE 16-Jun-14

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

What is the aggregate size

What is the theoretical volume of concrete

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Is there a concrete vibrator at the raft site prior to placing of concrete?

What was the slump of the concrete? (75mm to 125mm is acceptable)

Have concrete cubes been made on site or at the batch plant?

Is, there a screed bar on site to ensure the concrete is placed to the correct level?

Is there a powerfloat machine on site?

Was the concrete adequately vibrated with a concrete vibrator?

25MPa
19mm
11
10.7
Completion
No
yes
75mm
Batch Plant
yes
yes
yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily.

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER

DATE 13-Jun-14

Checklist for House Raft Foundation and Concrete Works

Employer	: Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	: PS/HS23-2013
Contractor	: Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER _____ 36990

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

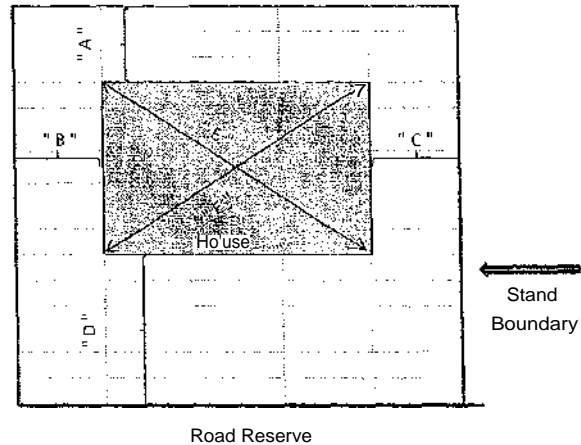
SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

YES NO

Contractor to confirm the following dimensions:

A= _____ E=
 B= F=
 C= _____
 ID=



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

YES NO

BEAMS

Are beams excavated in the correct position and the right dimensions?
 Are beams straight ?
 Is the top of beam chamfered 45 deg as per detail?
 Has all the loose soil in the beam excavation been removed?
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?
 Is formwork 100% level?
 Is formwork 100% secured?
 Is formwork Straight?



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints od the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER	DATE	6-Jun-14
----------	------	----------

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Completion

Was any water added to the concrete mix on site

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="checkbox"/>	NO
--------------------------	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate	
ENGINEER	DATE
	13-Jun-14





O Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	: 13-Jun-14
File	:

HOUSE NUMBER 37011

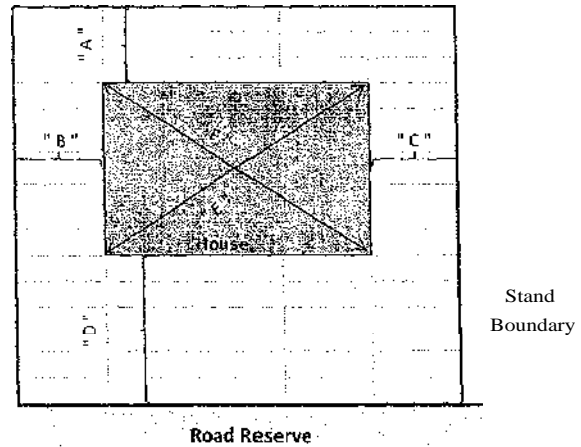
The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

NO

Contractor to confirm the following dimensions:	
A.	E = 8485
B. 900	F = 8485
C.	
D. 8000	



EARTH WORKS

Is the excavations deep enough as specified by the engineers? Yes

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions? yes
 Are beams straight ? yes
 Is the top of beam chamfered 45 deg as per detail? yes
 Has all the loose soil in the beam excavation been removed? yes
 Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ? yes
 Is formwork 100% level? yes
 Is formwork 100% secured? yes
 Is formwork Straight? yes





DEVELOPMENT V RN
LEADERS IN THE DEVELOPMENT
OF URBAN ENVIRONMENTS



Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

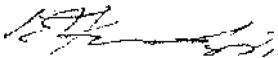
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6/6/2014
----------	---	------	----------

CONCRETE

If ready, mix concrete is used, is the supplier quality control approved?

25MPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Completion

Duration of concrete pouring

Start Time

No

Was any water added to the concrete mix on site

yes

Is there a concrete vibrator at the raft site prior to placing of concrete?

75mm

What was the slump of the concrete? (75mm to 125mm is acceptable)

Batch Plant

Have concrete cubes been made on site or at the batch plant?

yes

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
----------------------	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?


Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17
48 hrs

b) At 28 days?

Shuttering removal period (minimum 36 hours)

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate			
ENGINEER		DATE	13-Jun-14





Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	: Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER _____ 37009

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed? _____ NO

Contractor to confirm the following dimensions:

A. _____ E 8485
 B= 900 F = 8485
 C= _____
 O= 8100

EARTH WORKS

Is the excavations deep enough as specified by the engineers?

is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO? yes

is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers? yes

House

Stand Boundary

Road Reserve

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ? NO

BEAMS

Are beams excavated in the correct position and the right dimensions?
 Are beams straight ?
 Is the top of beam chamfered 45 deg as per detail?
 Has all the loose soil in the beam excavation been removed?
 Are the trenches dry?

yes
 yes
 yes
 yes

FORMWORK

Is formwork treated with a releasing agent ?
 Is formwork 100% level?
 Is formwork 100% secured?
 Is formwork Straight?

yes
 yes
 yes
 yes





DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF W/ING ENVIRONMENTS

ta



Er Checklist for House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

is the DPC USB green 250 Micron?

yes

is there a 400mm overlap at the joints pd the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

is the steel/mesh free of rust?

yes

is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

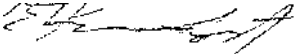
yes

HaVe cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6/6/2014
----------	---	------	----------

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

What is the grade / strength of concrete

25MPa

What is the aggregate size

19mm

What is the theoretical volume of concrete

11

What is the actual volume of concrete poured

10.7

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion	No
	yes
	75mm
	Batch Plant
	yes
	yes
	yes

is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

is power floating completed to Engineer's satisfaction

<input type="text"/>	NO
----------------------	----

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?


17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER		DATE	13-Jun-14
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Cir Checklist for House Raft Foundation and Concrete Works

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER 37013

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

Has the builder had the position of the stand boundary beacons confirmed?

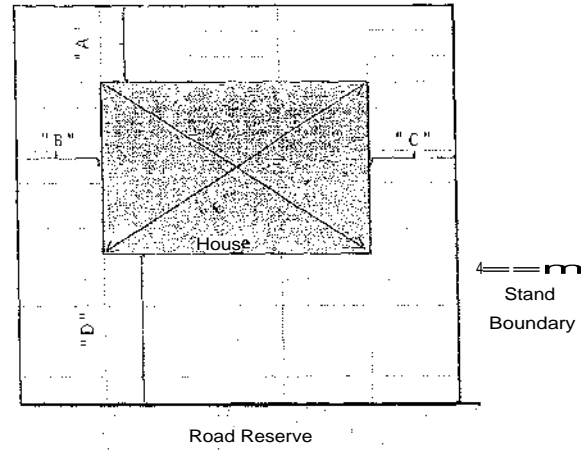
 YES

 NO

Contractor to confirm the following dimensions:

A =
 B =
 C =
 D =

E =
 F =



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?

 YES

 NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

Is formwork treated with a releasing agent ?

Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?



DEVELOPMENT IP
LEADERS IN THE DELIVERY OF HANG EY IRONHAMMS



C
Checklist

House Raft Foundation and Concrete Works

ANT POISON

Has The Engineer received the ant poison certificate from the Contractor?

yes

DAMP COURSE LAYER

Has the damp course layer been installed under slab and beam?

yes

Is the DPC USB green 250 Micron?

yes

Is there a 400mm overlap at the joints of the DPC?

yes

REINFORCING

Has all the steel (or mesh) been installed as per the design and bending schedule?

yes

Has the correct mesh been used? (specify the type of mesh)

yes

Is the steel/mesh free of rust?

yes

Is the mesh overlap length as per specification?

yes

What is the lap length?

400

Are the stirrups in ground beams spaced correctly?

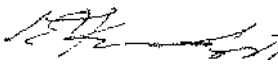
yes

Have cover blocks been installed to provide the required cover?

yes

Are the cover block tied to the steel?

no

ENGINEER		DATE	6/6/2014
----------	---	------	----------

CONCRETE

If ready mix concrete is used, is the supplier quality control approved?

2SMPa

What is the grade / strength of concrete

19mm

What is the aggregate size

11

What is the theoretical volume of concrete

10.7

What is the actual volume of concrete poured

Duration of concrete pouring

Start Time

Was any water added to the concrete mix on site

Completion

No

Is there a concrete vibrator at the raft site prior to placing of concrete?

yes

What was the slump of the concrete? (75mm to 125mm is acceptable)

75mm

Have concrete cubes been made on site or at the batch plant?

Batch Plant

Is there a screed bar on site to ensure the concrete is placed to the correct level?

yes

Is there a powerfloat machine on site?

yes

Was the concrete adequately vibrated with a concrete vibrator?

yes

POWER FLOATING

Is power floating completed to Engineer's satisfaction

 NO

If "NO", the Contractor must provide method statement to correct the work

CONCRETE CURING

What curing method will be used?

Close slab with sand and pour water daily

What was the achieved concrete strength; 1) At 7 days?

17

b) At 28 days?

Shuttering removal period (minimum 36 hours)

48 hrs

Upon final sign off of this form complying to all requirements the raft may be certified as complete and is due for inclusion in the next Payment Certificate

ENGINEER	DATE	13-Jun-14
----------	------	-----------



DEVELOPMENT M
LEADERS IN THE DEVELOPMENT OF LIVING ENVIRONMENTS



GIBB
CINICR CC SCI.U.CC

Checklist for House Raft foundation and Concrete Works

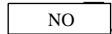
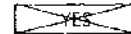
Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Khombiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	13-Jun-14
File	

HOUSE NUMBER 37010

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

SETTING OUT

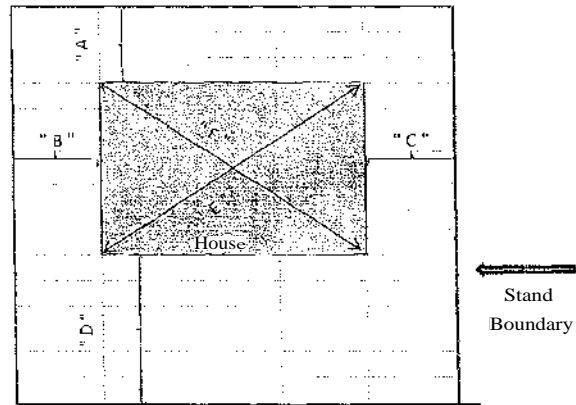
Has the builder had the position of the stand boundary beacons confirmed?



Contractor to confirm the following dimensions:

A =
 B =
 D =

E =
 F =



EARTH WORKS

Is the excavations deep enough as specified by the engineers?

Is the 150mm thick in-situ material ripped and re-compacted to 93% MOD AASHTO?

Is the G7 quality material compacted to 95% MOD AASHTO in 150mm thick layers?

yes

Are the final earthworks higher than the surrounding area so that storm water does not affect the house ?



NO

BEAMS

Are beams excavated in the correct position and the right dimensions?

Are beams straight ?

Is the top of beam chamfered 45 deg as per detail?

Has all the loose soil in the beam excavation been removed?

Are the trenches dry?

FORMWORK

is formwork treated with a releasing agent ?

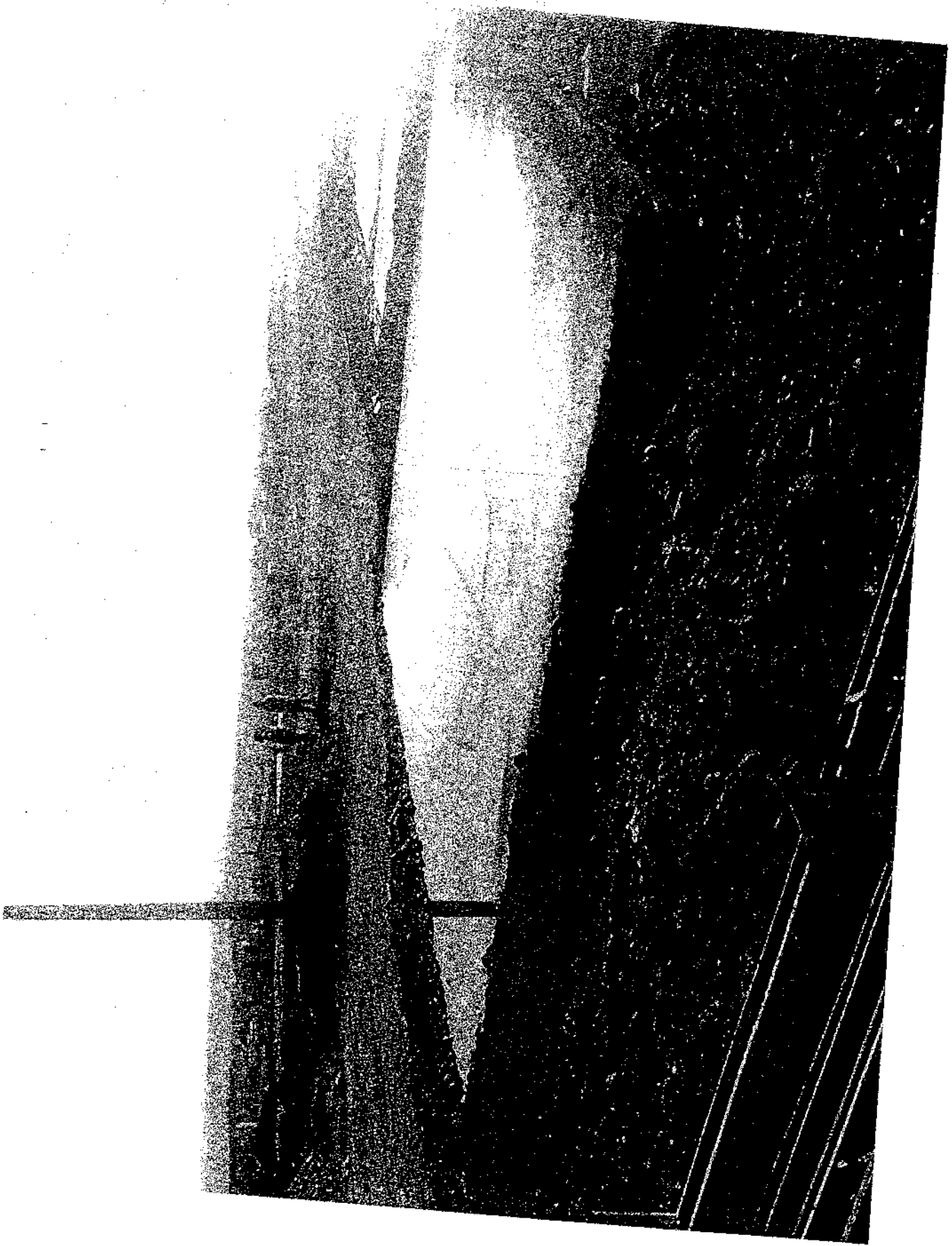
Is formwork 100% level?

Is formwork 100% secured?

Is formwork Straight?



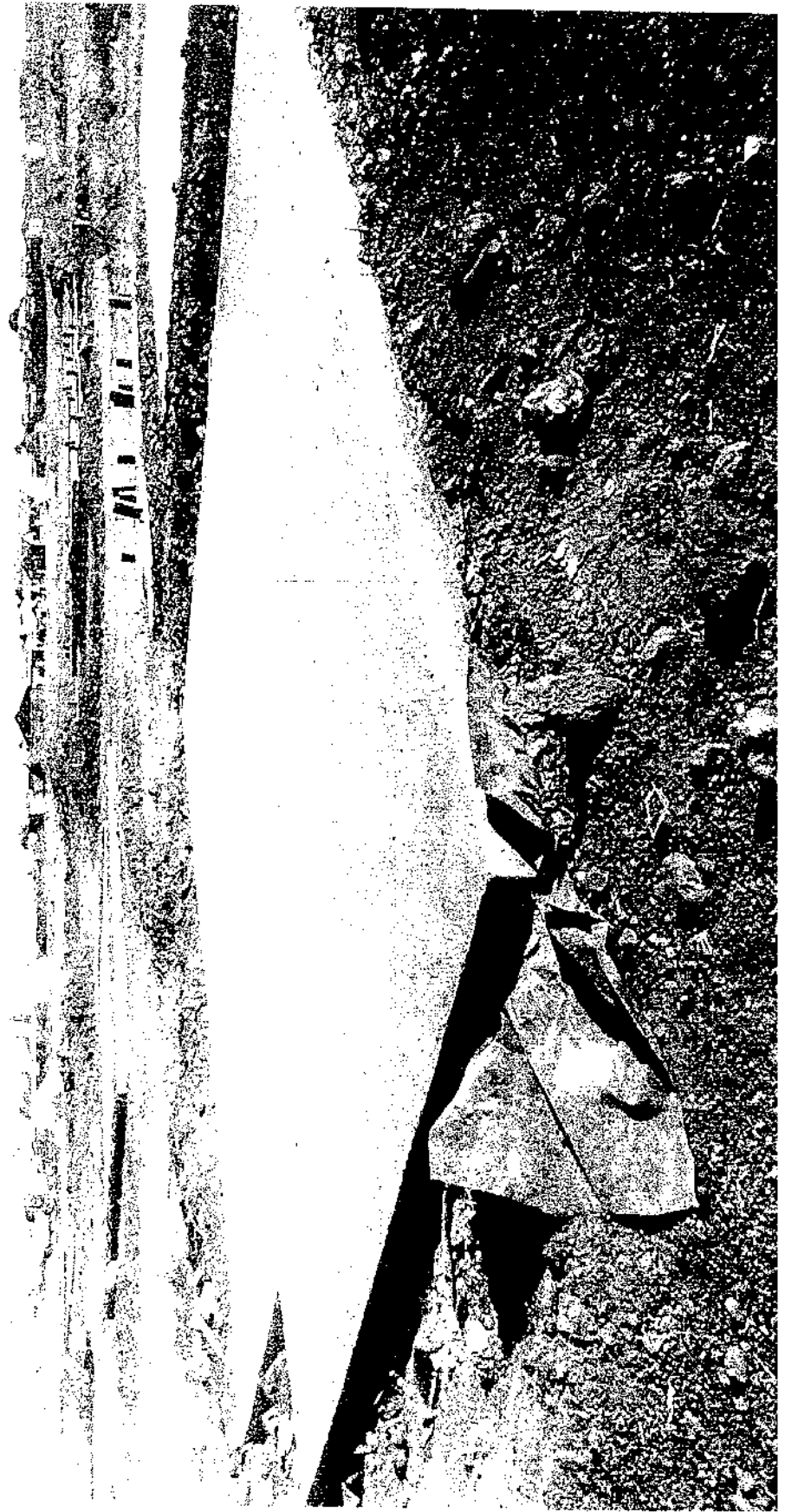
SITE PHOTOS

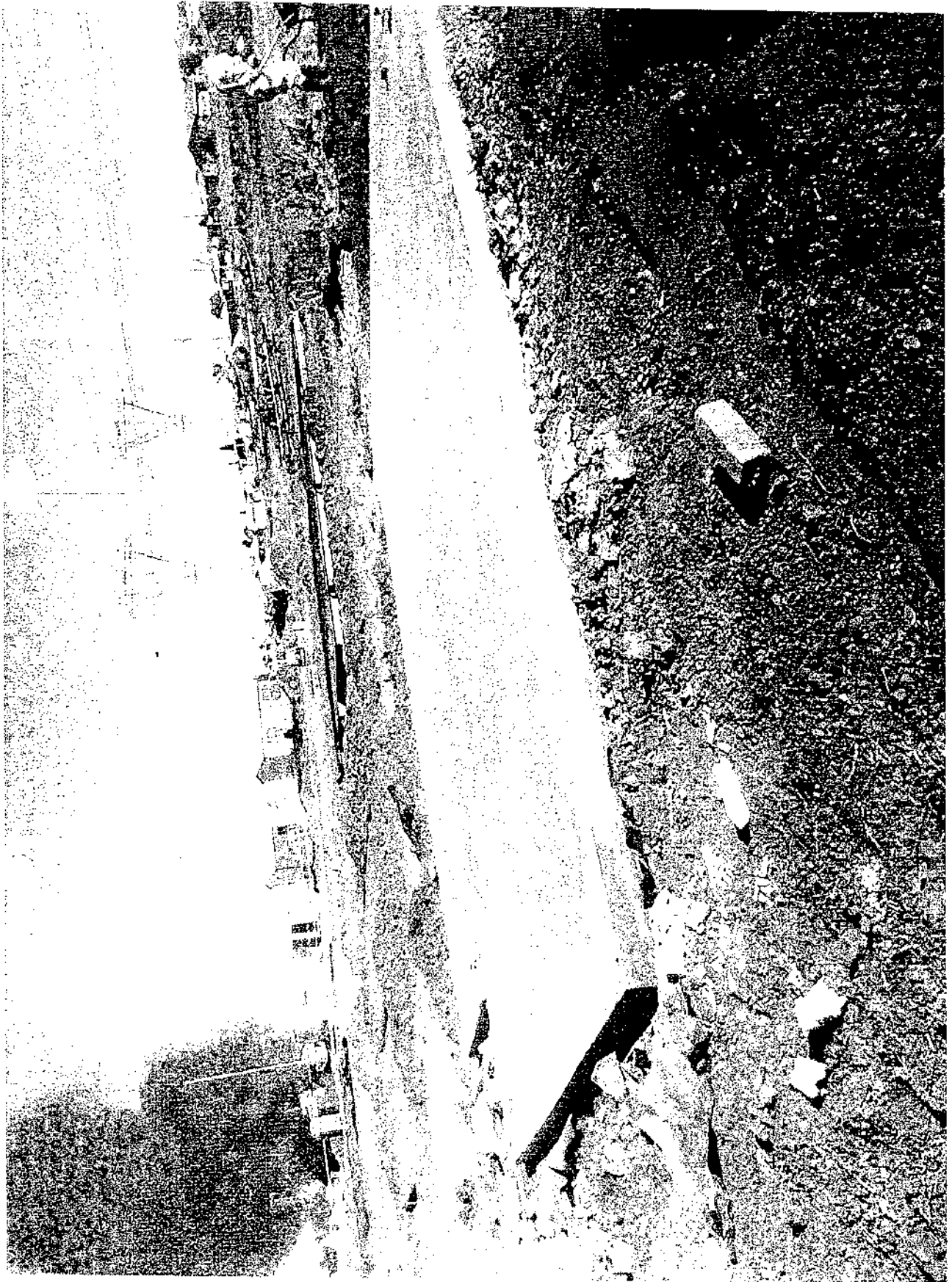






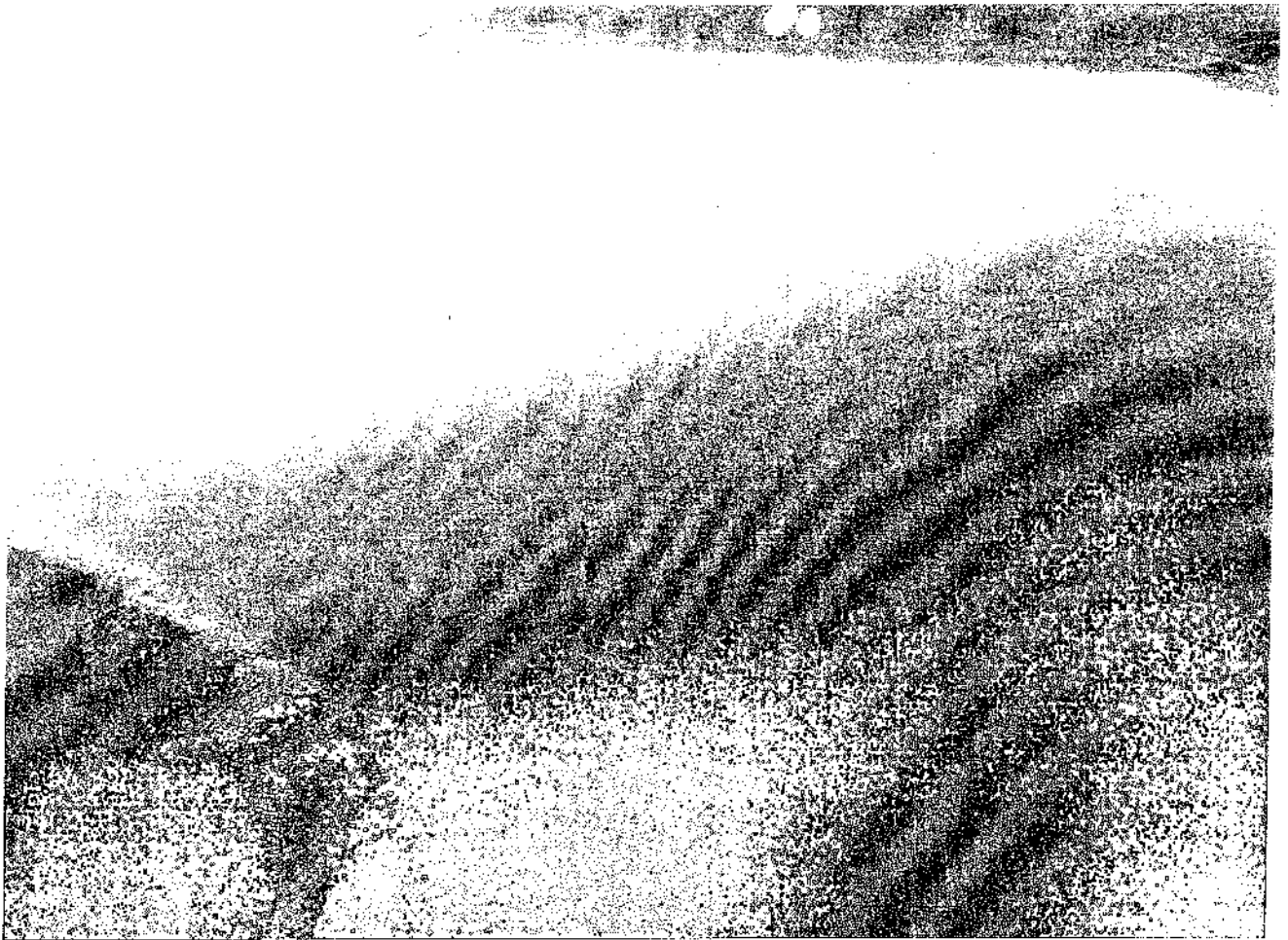
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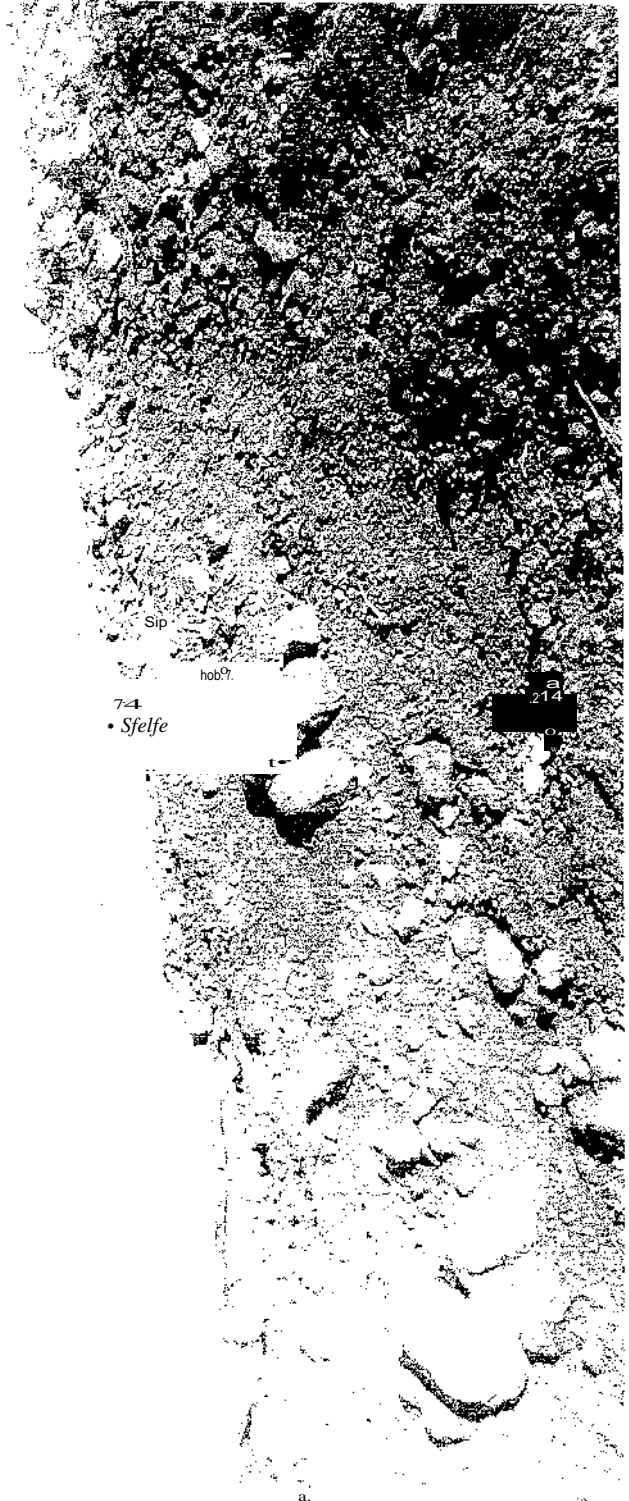










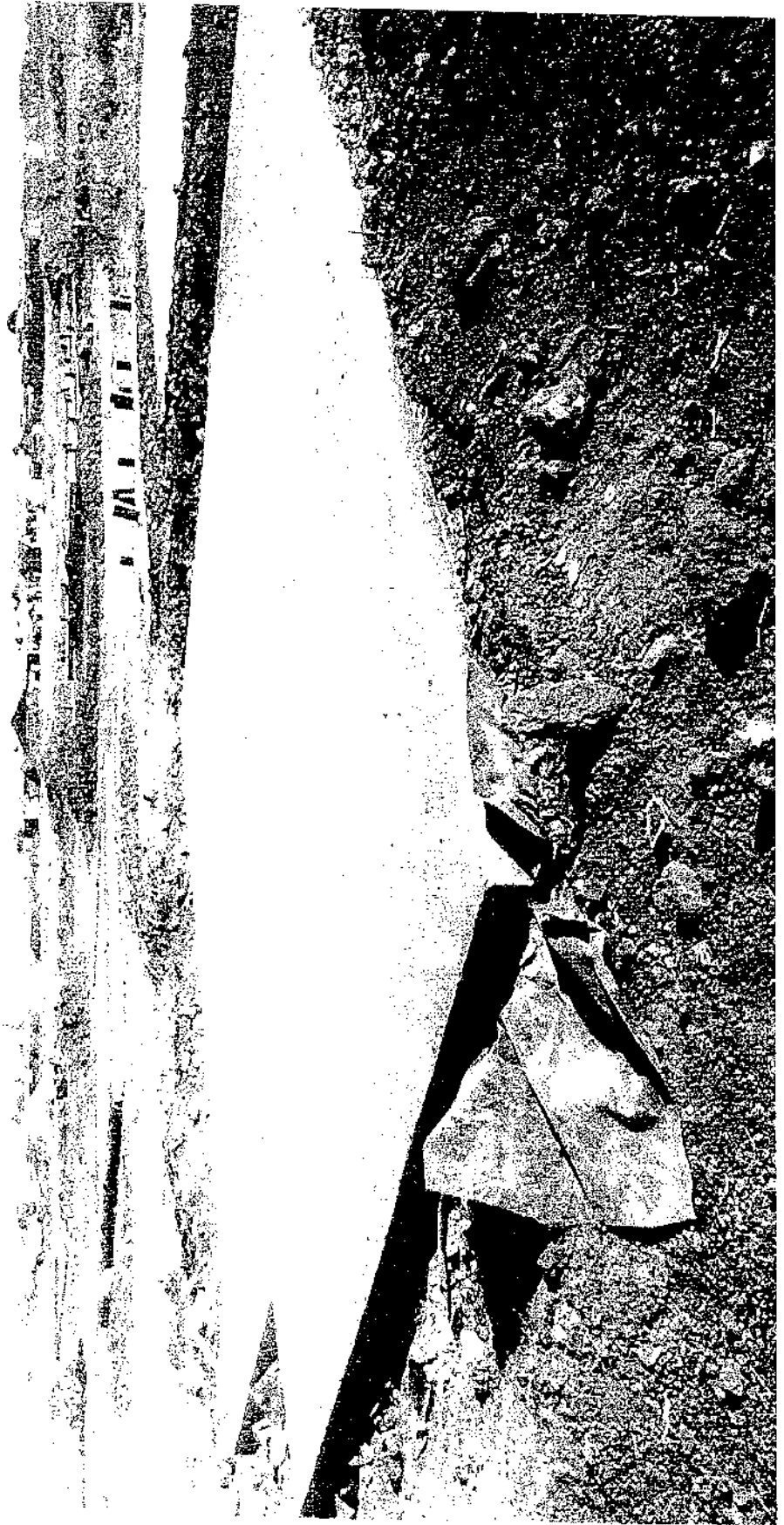


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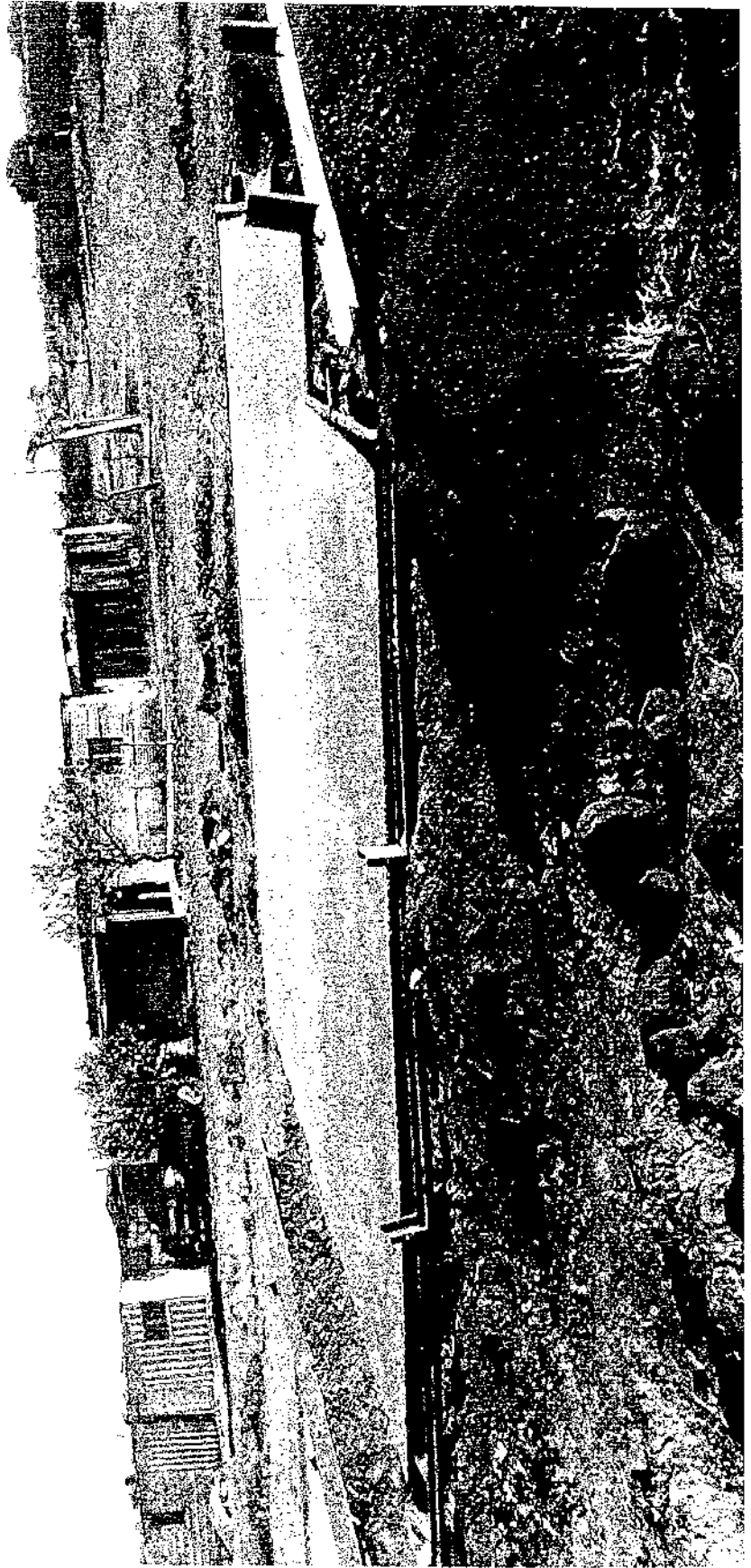
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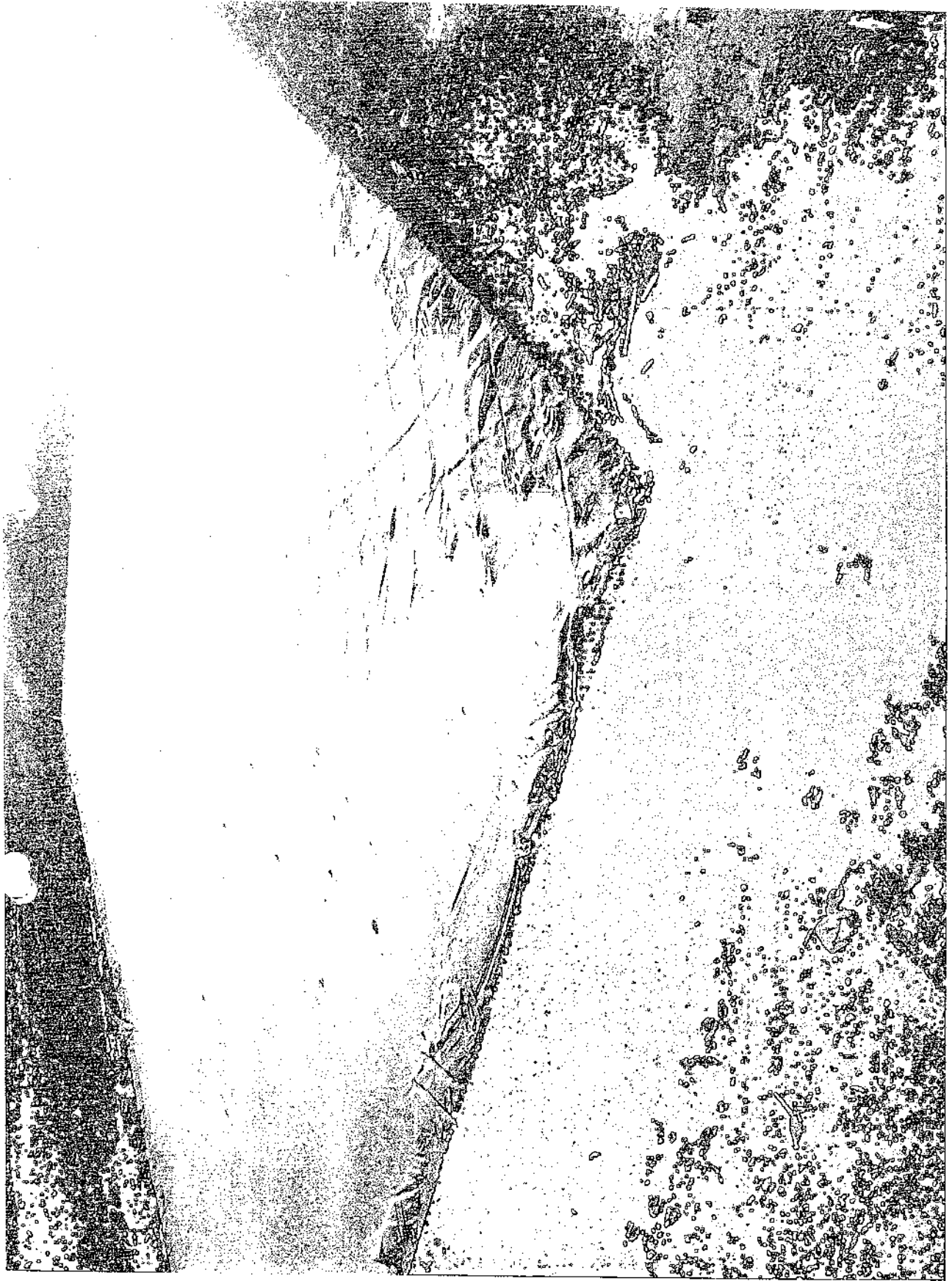
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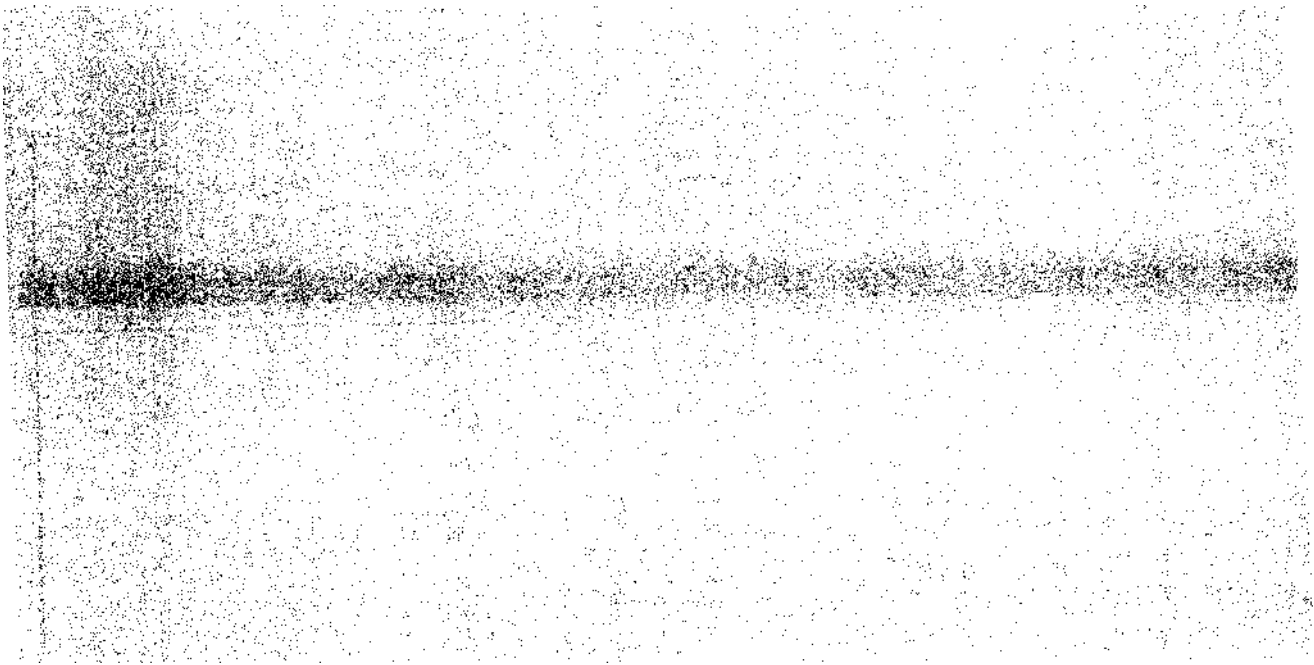












WALL PLATE

INSPECTION REQUEST

WALL PLATE
INSPECTION REQUEST

Request for Complete Wallplate Inspection														
PROJECT NAME:		ETWATWA EXT 36				PROJECT NO: PS-H523*2013								
Client:		Ekurhulani* Muni Many				Ely.x.hlyen1								
Ins tion No:		FC 113												
Date:		03/02/2015												
Inspection Date:														
UNITS CLAIMABLE WALL PLATES														
No	Stand No	Date Completed	OK	NO	No	Stand No	Date Completed	OK	NO	No	Stand No	Date Completed	OK	NO
1	36986	03/02/2015	✓											
2	36987	03/02/2015	✓											
3	36988	03/02/2015	✓											
4	37020	03/02/2015	✓											
5	37019	03/02/2015												
6	37018	03/02/2015												
7	37017	03/02/2015	✓											
8	37016	03/02/2015	✓											
9	37015	03/02/2015	✓											
10	37005	03/02/2015	✓											
11	37013	03/02/2015	✓											
12	37010	03/02/2015	✓											
13	37006	03/02/2015	✓											
14	37002	03/02/2015	✓											
15	36997	03/02/2015	✓											
16	35993	03/02/2015	✓											
17	36905	03/02/2015	✓											
18	36934	03/02/2015	✓											
19	36981	03/02/2015	✓											
20	37014	03/02/2015	✓											

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[Signature]
 26 September 2015

M MCWV..170/1

Name to W01.100

PAN

2. INUANULENI MUNICIPALITY

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[Signature]
 26 September 2015
 Inuanuleni Municipality

Name to W paled

ICVS-XS:3-7

Jam

47'

Nara to De pnMsp

p.&'

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Request for Complete Knevelation Inspection

PROJECT NAME: ETWATWA EXT 35 PROJECT NO: PS-21323-2013
 Client: Ekurhuleni Municipality
 Inspection No: EC 113
 Inspection Date: 10/02/2015 cl = "Z - IAA S"

U/N	TS CLAIMABLE	W/S L PLAT	01	10	No	Stand	Date Completed	OK	NO	No	Stand No	Date Completed	OK	NO
1	36986	03/02/2015												
2	36987	03/02/2015	✓											
3	36988	0402_4015												
4	37020	03/02/2015												
5	37018	03/02/2015												
6	37018	03/02/2015												
7	37017	03/02/2015												
8	37016	03/02/2015	V"											
9	37015	03/02/2015												
10	37015	03/02/2015												
11	37013	03/02/2015												
12	37010	03/02/2015	000/											
13	37006	03/02/2015	/											
14	37004	03/02/2015	/											
15	36997	03/02/2015	/											
16	36993	03/02/2015	/											
17	36992	03/02/2015												
18	36991	03/02/2015												
19	36991	03/02/2015												
20	37011	03/02/2015												

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 For Elcumusal Munie.007 01 - WILAAOLA 01 Mr.. 20..1



TOP STRUCTURE CHECKLIST



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DEVELOPMENT W U
EADIAS #7 THE DEVELOPMENT
of THE ENVIRONMENT



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10 February 2014
File	

The Contractor has established that these controlled works have been constructed to *the* correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36983

BRICK WORK

is the bricks SASS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SAGS 0164? yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? no

Is the brick force installed according to the specification? yes

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wail have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are ail the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hinges correct opening *and* closing.

Are the thicknes of steel/wooden doors and frames according to specification? L yes

Are the roof ties according to specification? yes
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer
Name

Signature

Date

Clerk of Works
Name

Signature

Date

Upon sign off at this stage, roofing may commence!





etroprojects

DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF INDIAN RESIDENTS



GIB

Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10 February 2014
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications; as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?
- 1 part cement to 5 parts of sand
- Minimum 28 day strength a 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?
- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Tooththing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
- Minimum depth of roof ties is 5 courses

Principal Agent, Engineer				
Name	<input type="text" value="E. Kadzviti"/>	Signature		Date
				<input type="text" value="10 February 2014"/>
Clerk of Works				
Name	<input type="text" value="S. Nyantjani"/>	Signature		Date
				<input type="text" value="10/02/2014"/>

Upon sign off at this stage, roofing may commence!





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10 February 2014
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36984

BRICK WORK

Is the bricks SABS D400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes
- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and ail walls? no

is the brick force installed according to the specification? yes
- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hinges correct opening and closing.

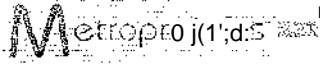
Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? j yes
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<u>E. Kadzviti</u>	Signature	<u>10 February 2014</u>
Clerk of Works			
Name	<u>T.S. Nyangwe</u>	Signature	<u>10/22/2014</u>

Upon sign off at this stage, roofing may commence!





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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS111823-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 3 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Even/ 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square? Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works

Name E Kadzviti Signature

Date 10-02-2015

Upon sign off at this stage, roofing may commence)



DEVELOPMENT
OF WING ENHANCEMENTS



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ENGINEERING & SERVICES



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to .5 parts of sand
- Minimum 28 day strength ,> 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walk?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works		
Name	<input type="text" value="E. Kadzviti"/>	Date
Signature		<input type="text" value="10-02-2015"/>
Upon sign off at this stage, roofing may comment &		





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36981 1

BRICK WORK

- Is the bricks SASS 0400 approved? yes
- Are the minimum strength of the bricks as per specification? yes
- Does mortar mix comply with SABS 0164?
 - 1 part cement to 3 parts of sand
 - Minimum 28 day strength > 5 MPA
 - Sand to be free of organic materialyes
- Is damp proof installed between the raft and all walls? no
- Is the brick force installed according to the specification?
 - Minimum diameter of brickforce to be 2.8mm
 - Every 4th course
 - Every course above doors and windows
 - Brickforce to be bent at right angles at cornersyes
- Toothing is not allowed!*
- Does the wall have a 20mm overlap on the raft? yes
- Have the walls been set out according to the layout plan? yes
- Are the walls plumb? yes
- Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes
- Have all the door frames been placed in the correct position, plumbed and square?
 Ensure that they are in the correct position for hinges correct opening and closing. yes
- Are the thickness of steel/wooden doors and frames according to specification? yes
- Are the roof ties according to specification?
 - Minimum depth of roof ties is 6 coursesyes

Principal Agent, Engineer or Clerk of Works			
Name	iE. Kadzviti	Signature	Date 10-02-2015
Upon sign off at this stage, roofing may commence.			



Checklist for House Super Structure

Employer	Ekurhueni Metropolitan Municipality	-1
Project	Etwatwa Ext 35 -Combiza	
Contract	PSIFIS23-2013	
Contractor	Bankuna Construction and Engineering	
Date	10-Feb-15	
File		

The -Contractor has, established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number _____ 36986

BRICK WORK

Is the bricks SABS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SABS 0164?

yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength >5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

no

Is the brick force installed according to the specification?

yes

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent of right angles at corners

Teething is not allowed!

Does the wall have a 20mm overlap on the raft?

yes

Have the walls been set out according to the layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing.

yes

Are the thicknes of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

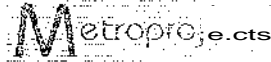
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works

Name E. Kadzviti _____ gnature

Date 110-02-2015

Upon sign off at this stage, roofing may commence



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/I-1523-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap an the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

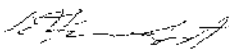
Have all the door frames been placed in the correct position, plumbed and square?

Ensure that the are in the correct position for hinges correct opening and closing.

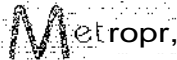
Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 cources

Principal Agent, Engineer or Clerk of Works		
Name	<u>E. Kadzviti</u>	Signature 
Date	110-02-2015	
Upon sign off at this stage, roofing may commence!		





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36987

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic mated&

Is damp proof installed between the raft and ail walls?

Is the brick force installed according to the specification? yes

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the wails been set out according to the layout plan?

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works	
Name <u>E. Kadzviti</u>	Signature _____ Date <u>10-02-2015</u>
Upon sign off at this stage, roofing may commence!	





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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36993

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls? no

Is the brick force installed according to the specification? yes

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing. yes

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes
 - Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works	
Name <u>IE. Kadzviti</u>	Signature _____
	Date <u>10-02-2015</u>

Upon sign off at this stage, roofing may commence!





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▶ Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor *has* established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36997

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 port cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

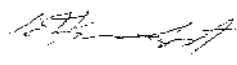
Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 coerces

Principal Agent, Engineer or Clerk of Works		
Name	<u>E. Kadzviti</u>	Signature 
Date	<u>40-02-2015</u>	
Upon sign off at this stage, roofing may commence!		





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Are the bricks SASS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SASS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and ail walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

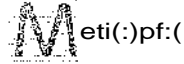
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 coerces

Principal Agent, Engineer or Clerk of Works		
Name	<u>E. Kadviti</u>	Signature
Date	<u>11</u>	<u>0-02-2015</u>
Upon sign off at this stage, roofing may commence!		



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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 37005

BRICK WORK

- is the bricks SABS 0400 approved? yes
- Are the minimum strength of the bricks as per specification? yes
- Does mortar mix comply with SABS 0164?
 - 1 part cement to 5 parts of sand
 - Minimum 28 day strength > 5 MPA
 - Sand to be free of organic materialyes
- Is damp proof installed between the raft and all walls? 0
- Is the brick force installed according to the specification?
 - Minimum diameter of brickforce to be 2.8mm
 - Every 4th course
 - Every course above doors and windows
 - Brickforce to be bent at right angles at cornersyes
- Toothing is not allowed!*
- Does the wall have a 20mm overlap on the raft? yes
- Have the walls been set out according to the layout plan? yes
- Are the walls plumb? yes
- Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? 1 yes
- Have all the door frames been placed in the correct position, plumbed and square?
 Ensure that they are in the correct position for hinge correct opening and closing. yes
- Are the thickness of steel/wooden doors and frames according to specification? 1 yes
- Are the roof ties according to specification?
 - Minimum depth of roof ties is 6 coursesyes

Principal Agent, Engineer or Clerk of Works			
Name	<u>IE Kadzviti</u>	Signature	
Date		Date	<u>10-02-2015</u>

Upon sign off at this stage, roofing may commence]





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number **r** 37006

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to .5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand .to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2..8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

nothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

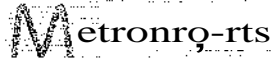
Are al; the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works		
Name	E. Kadzviti	Signature
Date	110-D2-2015	
Upon sign off at this stage, roofing may commence!		



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Are the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- part cement to Sports of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

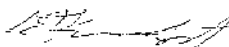
Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square? Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

Principal Agent, Engineer or Clerk of Works
Name E. Kadzviti Signature  Date 10-02-2015

Upon sign off at this stage, roofing may commence:





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-it
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAES 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SAGS 0164?

- 1 part cement to .5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

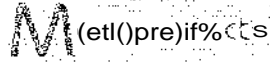
Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works		
Name	<input type="text" value="E. Kadzviti"/>	Signature
Date	<input type="text" value="10-02-2015"/>	
Upon sign off at this stage, roofing may commence!		





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 36 - Combiza
Contract	PSIHS23-2313
Contractor	Bankuna Construction and Engineering
Date	10-feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SABS 0400 approved?

Are the minimum strength of *the* bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the *raft*?

Have the walls been set out according to the layout plan?

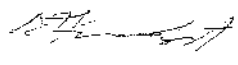
Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

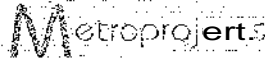
Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are *the* thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works		
Name	<u>E. Kadzviti</u>	Signature 
Date	<u>10-02-2015</u>	
Upon sign off at this stage, roofing may commence!		





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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Twatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	15-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 040.0 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

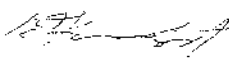
Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works		
Name	<u>E. Kadzviti</u>	Signature 
Date	<u>0-02-2015</u>	
Upon sign off at the stage, roofing may commence!		





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etawah,va Ext 35 -Cornhiza
Contract	PS/RS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 3 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brick force to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brick forces to be bent at right angles at corners

Motiling is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works		
Name	E. Kadzviti	Signature
Date	10-02-2015	
Upon sign off at this stage, roofing may commence!		



Metropojects

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Checklist for House Super Structure

Table with 2 columns: Field and Value. Fields include Employer (Ekurhuleni Metropolitan Municipality), Project (Eiwatwa Ext 30 - Combiza), Contract (PS/MSZ3-2013), Contractor (Bankuna Construction and Engineering), Date (10-Feb-15), and File.

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 37017

BRICK WORK

is the bricks SABS 0400 approved? F yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes
- i port cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? no

Is the brick force installed according to the specification? yes
- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent of right angles at corners

Tothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes
- Minimum depth of roof ties is 6 courses

Signature and Date box containing: Principal Agent, Engineer or Clerk of Works, Name E. Kadzviti, Signature, Date 11-02-2015. Below the box: Upon sign off at this stage, roofing may commence!



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Cankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 37018

BRICK WORK

is the bricks SABS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SABS 0164?

yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength a 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

no

Is the brick force installed according to the specification?

yes

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Bockforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

yes

Have the wails been set out according to the layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing.

yes

Are the thicknes of steel/wooden doors and frames according to specification?

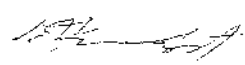
yes

Are the roof ties according to specification?

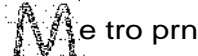
Yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works

Name 1E. Kadzviti J Signature  Date 110-02-2015

Upon sign off at this stage, rooung may commence.



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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 37019

BRICK WORK

Is the bricks SABS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SABS 0164?

yes

- 1 part cement to 3 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and ail walls?

no

Is the brick force installed according to the specification?

yes

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

yes

Have the walls been set out according to the layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

yes

Are the thicknes of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works

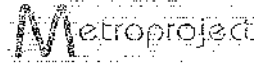
Name E. Kadzviti

Signature

Date 110-02-2015

Upon sign off at this stage, roofing may commence I





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSMS23-2013
Contractor	Bankuna Construction and Engineering
Date	10-Feb-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 37020

BRICK WORK

- Is the bricks SABS 0400 approved? yes

- Are the minimum strength of the bricks as per specification? yes

- Does mortar mix comply with SABS 0164? I yes
 - 1 part cement to 5 parts of sand
 - Minimum 28 day strength S MPA
 - Sand to be free of organic material

- Is damp proof installed between the raft and ail walls? NO

- Is the brick force installed according to the specification? yes
 - Minimum diameter of brickforce to be 2.8mm
 - Every 4th course
 - Every course above doors and windows
 - Brickforce to be bent at right angles at corners

- Toothing is not allowed!*

- Does the wail have a 20mm overlap on the raft? yes

- Have the walls been set out according to the layout plan? yes

- Are the walls plumb? yes

- Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

- Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hinges correct opening and closing.

- Are the thicknes of steel/wooden doors and frames according to specification? r yes

- Are the roof ties according to specification? yes
 - Minimum depth of roof ties is 6 courses

Principal Agent, Engineer or Clerk of Works		
Name	E. Kadzviti	Signature _____
Date	110-02-2015	_____
Upon sign off at this stage, roofing may commence!		





a Checklist for House Super Structure

Employer	: Ektichuleni Metropolitan Municipality
Project	: Etwatwa Ext 35 - Combiza
Contract	: PS1HS23.2013
Contractor	: Bankuna Construction and Engineering
Date	: 14-05-2015
File	:

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has *been carried* out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does not tar mix comply with SASS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength)5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brick force to be 2.8nu1
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at turners

Toothing is not *allowed!*

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock *between* internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that the are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 (Durrres)

Principal Agent, Engineer			
Name	<input type="text" value="Inias Kadzviti"/>	Signature	<input type="text" value="Date 120-05-2015"/>
Clerk of Works			
Name	<input type="text" value="Efatjiantji"/>	Signature	<input type="text" value="Date 120.05-2015"/>

Upon sign off at this stage, roofing n y ccimmentel

Cr Checklist for House Super Structure

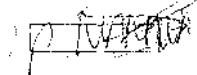
Employer	Elcurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	.

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36867

BRICK WORK

- Is the bricks SASS 0400 approved? yes
- Are the minimum strength of the bricks as per specification? yes _____
- Does mortar mix comply with SASS 0160 yes
 - 1 port cement to 5 ports of sand
 - Minimum 28 day strength > 5 MPA
 - Sand to be free of organic material
- is damp proof installed between the raft and all walls? YES
- is the brick force installed according to the specification? yes _____
 - Minimum diameter of bricforce to be 2 Smtn
 - Every 4th course
 - Every course above doors and windows
 - Brickforce to be bent at right angles at comers
- Toothing is not allowed!
- Does the wall have a 20mm overlap on the raft? yes _____
- Have the walls been set out according to the layout plan? yes
- Are the walls plumb? yes _____
- Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes _____
- Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing. yes _____
- Are the thickness of steel/wooden doors and frames according to specification? yes _____
- Are the roof ties according to specification? yes
 - Minimum depth of roof ties is 6 courses

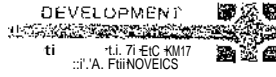
Principal Agent, Engineer	Name	Enias Kadzviti	Signature		Date	20-05-2015
Clerk of Works	Name	Davey Dyantji	Signature		Date	20-05-2015

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Upon sign off at this stage, roofin recerment!



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Checklist for House Super Structure

Employer	•	Ekurhuleni Metropolitan Municipality
Project	!	Etwatwa Ext 35 - Combiza
Contract	•	PS/HS23-2013
Contractor	•	Bankuna Construction and Engineering
Date	!	14-05-2015
File		

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position. that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36870 1

BRICKWORK

Is the bricks SASS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SASS 0164? yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls? YES

Is the brick force installed according to the specification? yes

- Minimum diameter of backforce to be 2.8nun
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent of right angles at corners

Toothing is not allowed!

Does the wall have a 20mm.overlao on the raft? YES

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, piuinbed and square? yes

Eniure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes

Principal Agent, Engineer			
Name	Enias Kadzviti	Signature	
Date	120-05-2015		
Clerkof Works			
Name	1Davey Dvantji	Signature	
Date	120-05-2015		

Upon sign off at this stage, roofing may commence!





Checklist for House Super Structure

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 • Combiza
Contract	:	PSIHS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	14.05.2015
File	:	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SASS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?
 - 1 *port cement to 5 parts of sand*
 • *Minimum 28 day strength > 5 MPA*
 • *Sand to be free of organic material*

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?
Minimum diameter of brickforce to be 2.8mm
Every 4th course
 - *Every course above doors and windows*
 - *Brick force to be bent at right angles at cowers*

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan? 1

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed *and* square? Ensure that the are in the correct position for hinges correct opening and closing. 1

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
 - *Minimum depth of roof ties is 6 courses*

Principal Agent, Engineer	Signature	Date
Name <input type="text" value="Enias Kadzviti"/>		<input type="text" value="20-05-2015"/>
Clerk of Works	Signature	Date
Name <input type="text" value="Davey Dvantii"/>		<input type="text" value="20-05-2015"/>

Upon sign off at this stage, roofing may commence!



Checklist for House Super Structure

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwanya Ext 35 • Combiza
Contract	:	PS/1-1S23.2013
Contractor	:	Bankuna Construction and Engineering
Date	:	14-05-2015
Fife	:	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36973

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? Yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? YES

is the brick force installed according to tire specification? yes

- Minimum diameter of brickforce to be 2.8min
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 70mm over lap on the rail) yes

Have the walls been set out according to the layout pla,? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure propel interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hinges(orrec t opening and closing.

Are the thickness of steel/wooden doors and f rames according to specification? yes

Are the roof ties according to specification? yes

- Minimum depth of roof ties is 6 cources

Principal Agent, Engineer

Name Enias Kadzviti Signature Date 20-05-2015

Clerk of Works

Name Davey Dvantij Signature [Signature] Date P-0-05-2015

Upon sign off at this stage, roofin mai commence!





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House **Number** 36274

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SASS 0164?
• **1 port cement to 5 parts of sand**
- Minimum 23 day strength > 5 MPA
• Sand to be free of organic material

Is damp proof installed between the raft and all walls? YES

Is the brick force installed according to the specification?
- Minimum diameter of brickforce to be 2.8min
• Every 4th course
• Every course above doors and windows
• arickforce to be bent of right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set Out according to the layout plan yes

Are the walls plumb? LYe

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? L_yes **1**

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing. yes

Are the thir.knes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification?
• Minimum depth of roof ties is 6 courses L_yes

Principal Agent, Engineer

Name Enias Kadzviti

Signature

Date 20-05-2015

Clerk of Works

Name Davey Dyantji

Signature

Date (20-05-2015)

Upon sign off at th's stage, rooll may commence!
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Checklist for House Super Structure

Employer	Ekurhuloni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/NS23.2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these contioited works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document arid drawings.

House Number 36815

BRICK WORK

is the bricks SASS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SASS 0164?

yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

N damp proof installed between the raft and all walls'

YES

Is the brick force installed according to the specitic.ation?

yes

- Minimum diometer of brick/nice to be 2.8mm
- Every 4th course
- Even course above doors and windows
- Brick force to be bent at right angles at comets

Toothting is not allowed!

Does the wall have a 20inm overlap on the rah?

yes

Have the wails been set Out according to the layout oian?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external wails?

yes

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hingescorrect opening and closing.

yes

Are the thicknes of steel/wooden doors and frames according to specification

yes

Are the roof ties according to specification?

yes

- Minimum depth of roof ties is 6 cources

Principal Agent, Engineer			
Name	<u>plias Kadzviti</u>	Signature	
Date	<u>0-05-2015</u>		
Clerk of Works			
Name	<u>Davey Dyantji</u>	Signature	
Date	<u>ftCL0S-201S</u>		





O Checklist for House Super Structure

Employer	Ekurubeni Metropolitan Municipality
Project	Etwatwa Ext 35 • Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number J

BRICK WORK

is the bricks SABS 0400 approved? **1**

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Madman) 28 day strength > 5 MPh
- Sand to be free of organic material

1

is damp proof installed between the raft and ad walls?

Is the brick force installed according to the specification?

- Minimum diometer of brickforce to be 2.Snim
- (very 4th course
- Every course above doors and windows
- Brickforce to be bent of right angles at corners

Toothing is not allowed!

Does the wall have a 2Ornm overlap on the raft?

Have the wails been set out according to the layout plan? **1**

Are the walls plumb? **1**

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls) **1**

Have ail the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thick nes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer

Name

Signature

Date

Clerk of Works

Name

Signature

Date

Upon sign off at this stage, roofin Maycommence!



Metroprojects

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C1 Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05.2015
File	

The Contractor has established that these controlled works have been constructed to the correct **horizontal and vertical alignment and** position, that such work has been carried out to the required standards and specifications, as set out in the **document and** drawings.

House, Number 36878

BRICK WORK

Is the bricks SABS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SASS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength 5 MPA
- Sand to be free of organic material

yes

Is damp proof installed between the raft and all walls?

YES

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.31mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent or right angles at Corner;

yes

root hing is not allowed!

Does the wall have a 20mm overlap on tire raft?

yes

Have the walls been set out according to the layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumb and square? Ensure that the are in the correct position for hinges correct opening and closing.

yes

Are the thickness of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<u>Enias Kadzviti</u>	Signature	
			Date <u>120-05-2015</u>
Clerk of Works			
Name	<u>Davey Dyantji</u>	Signature	
			Date <u>12-05-2016</u>



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Upon sign off at this stage, tooling a commencement!
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Checklist for House Super Structure

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Comtriza
Contract	:	PSIHS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	14-05-2015
File	:	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36895

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SASS 0164? yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? YES

is the brick force installed according to the specification? yes

- Minimum diameter of brick force to be 2.8mm
- Every 4th course
- Brick force to be bent at tight angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? Yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes

- Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer

Name Enias Kadzviti

J

Signature

Date 21-05-2015

Clerk of Works

Name Davey Dvanfi

Signature

Date 20-05-2015

Upon sign off at this stage, I/you may commence!





metroprojects

DEVELOPMENT IN SWAZILAND



GIBB



Checklist t; douse Super

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Combiza
Contract	:	PS114--2013
Contractor	:	Bankuna Construction and Engineering
Date	:	14-05-2015
File	:	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number: 36896

BRICK WORK

Is the bricks SABS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SARS 0164?

yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and a3 walls?

yes

is the brick force installed according to the specification?

yes

Minimum diameter of brick to be 2.8mm

- Every 4th course
- Every course above doors and windows
- Brick force to be bent of right angles of corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

yes

Have the walls been set out according to the layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper inter lock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumbed and square?

yes

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

- Minimum depth of roof ties is 6 sources

Principal Agent, Engineer			
Name	Eas Kadzviti	Signature	Date 20 05 2015
Clerk of Works			
Name	Davey Dvantji	Signature	Date 120-05-2015

Upon sign off at this stage, roofing may commence!





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 -Corribiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct **horizontal and vertical alignment and position, that** such work has been can red out to the required standard; and specifications, as set out **in the document and drawings.**

House Number 36897

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164?
1 part cement to 5 parts of sand
• Minimum 28 day strength > 5 MPA
• Sand to be free of organic material
1 yes

is damp proof installed between the raft and 32 walls? YES

Is the brick force installed according to the specification?
Minimum diameter of brick force to be 25mm?
• Every 4th course
• Every course above doors and windows
• brick force to be bent of right angles of corners
yes

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the hinges are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according, to specification) yes

Are the roof ties according to specification? yes
• Minimum depth of roof ties is 6 courses

Principal Agent, Engineer
Name Enias Kadzviti Signature t/ Date 217-95-201S

Clerk of Works
Name Davey Dyantji Signature _____ Date 120-05-2015

Upon sign off at this stage, no further work may commence!
Date: _____





CL Checklist for Hodse Super Structure

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Combiza
Contract	:	PSIHS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	14-05-2015
File	:	

The Contractor *has* established that these controlled works have been cons:ruacted to *the* correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36900 **J**

BRICK WORK

is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes

- I port *ce*ment to 5 ports of *sa*nd
- *M*inimum 28 day strength > 5 MPA
- *S*and to be free of *org*oinit material

Is damp proot installed between the rail and all walls? YES

is the brick force installed according to the specification? yes

- *M*inimum diameter of brickforce to be **210**mm
- *E*very **4th** course
- *E*very course *ob*uve doors and windows
- *B*rick force to be bent of right angles of corners

Toothng is not allowed!

Does the wall have a 20mm aver lap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plurith? L. yes

Are all the walls being constructed conctirreotly to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed aria squall!? yes
Ensure that the are in the correct position for hingescorrect opening and closing,.

Are the thicknes of steel/wooden doors and frames according to specification? L. yes

Are **the roof ties according** to specification? yes
Minimum depth of roof ties is 6 coerces

Principal Agent, Engineer	Signature	Date
Name <u>Enias Kadzviti</u>		<u>20.05-2015</u>
Clerk of Works		
Name <u>(Davey Dyantji</u>		Date <u>20z9S-2015</u>

upon sign off at this stage, roofing. May tommenzel
Wintalc ovU VUV ?...ILLI.AVV.Pr





Checklist for House Super Structure

Employer	: Ekurhuleni Metropolitan Municipality
Project	: Etwatera Est 35 - Combiza
Contract	: PSIHS23.2013
Contractor	: Bankuna Construction and Engineering
Date	: 14-054055
File	:

the Contractor has established that these controlled works have been constructed to the correct horizontal anti vertical alignment and position, that such work has been carried out to the required standards and specifications, as set Out in the document and drawings.

House Number 36908

BRICK WORK

Is the bricks SABS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SABS 0164?

yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic matter;

Is damp proof installed between the raft and ah walls?

Yes

Is the brick force installed according to the specification?

yes

- Minimum diameter of brick: force lobe 2.3mm
- Every 41/r course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners;

Toothing is not allowed!

Does the wall have a 20mm overlap on tree raft

yes

Have the walls been set out according to tow layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing.

yes

Are the thickness of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

- Minimum depth of tool ties is 6 courses

Principal Agent, Engineer
 Name Enias Nadzyiti Signature [Signature] Date 20-05-2015
 Clerk of Works
 Name Davev Dvantii Signature [Signature] Date 20-05-2015

Upon sign off at this stage, toofiti commence!



101 Checklist for House Super Structure

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Exl 35 ..Cornbiza
Contract	:	PSIH\$23.2013
Contractor	:	Bankuna Construction and Engineering
Date	:	14.05-2015
File	:	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SASS 0161 ?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Scud to be free of organic notes/al

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brick for T to be 2 8min
- Every 4th course
- Every course above doors and windows
- Brick force to be bent or firth (angles of corners)

Tothing is not allowed!

Does the wall have a 70mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumb and square?

Ensure, that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<u>Enias Kadzviti</u>	Signature	
			Date
			<u>20-05-2015</u>
Clerk of Works			
Name	<u>Davey Dyantii</u>	Signature	
			Date
			<u>20-05-2015</u>

Upon sign off at this stage, roofing may commence!



Cr Checklist for House Super Structure

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 -Combiza
Contract	:	PS/HS23-2013
Contractor	:	Bankuna Construction and Engineering
Date	:	14-05-2015
File	:	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the **document and drawings**.

Disg Number 369/3

BRICK WORK

Are the bricks SARS 0400 approved?

 yes

Are the minimum strength of the bricks as per specification?

 yes

Does mortar mix comply with SAGS 0364 ?

- 1 part cement to 5 parts of Bond
- **Minimum 28 day strength > 5 MPA**
- **Sand to be free of organic matter**

 yes

Is damp proof installed between the raft and air waifs?

 YES

Is the brick force installed according to the specification?

- **Minimum diameter of brick force to be 2.8frint**
- **Fvery 4111 course**
- **Fvery course above doors and windows**
- **Brick force to be bent at right angles at corners**

 yes

Toothng is not allowed!

Does the wall have a 20mm overlap on the raft?

 yes

Have the waifs been set Out according to the layout plan?

 yes

Are the walls plumb?

 yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

 yes

Have all the door frames been placed in the correct position, plumbed and square?

 yes

Ensure that the are in the correct position for hinges correct opening and closing.

Are the thickness of steelwooden doors and frames according to specification?

 yes

Are the roof ties according to specification?

- **Minimum depth of roof ties is 6 courses**

 yes

Principal Agent, Engineer			
Name	<u>Enias Kacizviti</u>	Signature	
Date	<u>120-05-2015</u>		
Clerk of Works			
Name	<u>Davey Dyantji</u>	Signature	
Date	<u>120-05-2015</u>		

Upon sign off at this stage, **no** g/r may commence!



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23 -2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36974

BRICK WORK

is the bricks SASS 0400 approved? yes 1

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SASS 0164)
1 part cement to 5 parts of sand
• Muuuuu) 28 day strength 5 MPA
Sand to be free of organic material

is damp proof Installed between the raft and all walls? YES

is the brick force installed according to the specification?
• Minimum hammer of brick force to be 800N
• (very 4th course
(very course above doors and windows
• Dockforce to be bent of right angles or joint

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumb and square.
Ensure that the jam is in the correct position for hinge opening and closing. yes 1

Ann the thickness of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification?
• Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<u>Frans Kadzviti</u>	Signature	<u>[Signature]</u>
		Date	<u>20-05-2015</u>
Clerk of Works			
Name	<u>Davey Dyantji</u>	Signature	<u>[Signature]</u>
		Date	<u>20-05-2015</u>

Upon sign off at this stage, roofing may commence!



Checklist for House Super Structure

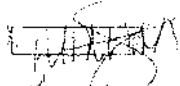
Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 • Comhiza
Contract	A54-1523-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

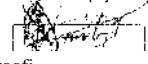
The Contractor has established that these connoted works have been constructed to the correct hori?ontai and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the doe.urrient and drawings.

House P⁹:n!;Tf. 36975

BRICK WORK

- Is the bricks SABS 0400 approved? yes
- Are the minimum strength of the bricks as per specification? yes
- Does mortar mix comply with SABS 0164 ? yes
 - *l oar: cement to 5 ports of sand*
 - *Minimum 28 day strength > 5 MPA*
 - *Sand to be free of organic Motet ;al*
- is clamp pool instated between the *raft* and all walls? YES
- Is the brick force installed according to tlie specification? yes
 - Minimum diameter of brirkforce to be 2.Snun*
 - Every 4th course*
 - Every course above doors and windows.*
 - Brickforce to be bent or right angles at cameo;*
- Toothing is not allowed!*
- Does the wail *have* a 20mm overlap no the. raft) yes
- Have the walls been set Out according to the layout piar.? Lye;
- Are the walls plumb? L Yes
- Are all the walls being i:onslrocted concurrently to ensue prop.-r interlock between internal and external walls? yes
- Have all the door frames been placed in the correct position, plumbed and square? | yes
 Ensure that the are in the correct position for hingescoriect opening and closing.
- Are the thicknes of steel/wooden doors and frames according to specification? | yes
- Are the roof ties according to specification? F yes
Minimum depth of mal net is 6 courses

Principal Agent, Engineer
 Name Ltnias Kadzviti —1 Signature  Date 120-05-201S

Clerk of Works
 Name Davey Dyantji Signature  Date 120-05-203.5

upon sign off at this stage, roofi may commence!
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Checklist for House Super Structure

Employer	†	Ekurhuleni Metropolitan Municipality
Project	†	Etwatwa Ext 35 - Combiza
Contract	†	PS/HS23-2013
Contractor	†	Bankuna Construction and Engineering
Date	†	14-05-2015
File	.	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the (earned) standards and Specifications, as set out in the document and drawings.

House NopAer

BRICK WORK

Is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SASS 0164 ?

- 1 port cement to 5 peels sand
- Minimum 28 day strength is 5 MPA

• Sand to be free of organic annelid!

Is damp proof instated between the raft and all walls? **EYES**

Is the brick force installed according to the specification?

- Minimum diameter of wick farce to be 2 Sinin
- very drh course

• Every course above doors and windows
Bricktorre :o be bent at riont angles at corners

Toothng is not allowed!

Does the wall have a 2(1mm overlap on the raft?

have the walls been set out according to tit layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed aia square? Ensure that the are in the rotted position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

• Minimum depth of roof ties is 6 coerces

Principal Agent, Engineer			
Name	<u>Enias Kadzviti</u>	Signature	
Date	<u>E20-05-2015</u>		
Clerk of Works			
Name	<u>Davey Dyantij</u>	Signature	
Date	<u>120-05-2015</u>		

Upon sign oif at this stage, loof 'n may commence!





etroprojects DEVELOPMENT



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2011
Contractor	Etankina Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number **E** 36995 1

BRICK WORK

is the bricks SABS 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SABS 0164?

yes

- 1 part cement to 5 parts of sand
- minimum IS clay strength > i VIPA
- Sand to be free of organic material

Is damp proof installed between du-rafi and all waqs?

YES 1

is the hick force installed according to the specification?

yes

- Minimum thickness of brickwork to be 2. Smni
- r very 411, coarse
- every course above doors and windows
- thickness to be bent at right angle's in corners

Toothing is not allowed!

Does the wall have a 20mm overlap or the joint

yes

Have the walls been set out according to the layout plans?

yes

Are the walls plumb?

Yes

Are all the walls being constructed **concurrently** to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the **correct** position, plumbed and square? Ensure that they are in the correct position for hinges correct opening, and closing.

yes

Are the thicknesses of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer

Name Enias Kadzviiti

1

Signature



Date

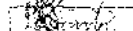
20-05-2015

Clerk of Works

Name Davey Dyantji

J

Signature



Date

20-05-2015

Upon sign off at this stage, roof may commence!

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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these constructed works have been constructed to the correct horizontal and vertical alignment and position, that such work has been performed in accordance to the required standards and specifications, as set out in that (contract, merit and drawings

House Number 3(99)

BRICK WORK

Is the Cricks SAM 0400 approved?

yes

Are the minimum strength of the bricks as per specification?

yes

Does mortar mix comply with SAM 0104 ?

yes

parportment: to 5 parts of sand

• Minimum 78 clay

Sand in the free of oil/water: foule/

Is the mortar on the raft and all walls?

yes

Is the brick for level in accordance to the specification?

yes

Minimum plumb of vertical wall

• Minimum 4th course

• Vertical course • Uwe doors and windows

• Vertical to be ben: a; right angles at corners

Toothing is not allowed!

Does the wall have a 50% overlap on the raft?

yes

Have the walls been set out according to the layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumb and square?

yes

Ensure that the hinges are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

• Minimum depth of roof ties is 6 nodes

Principal Agent, Engineer		Date	
Name	Fda Tadzviti	Signature	14-05-2015
Clerk of Works		Date	
Name	Davey Oyantji	Signature	14-05-2015

Upon sign off at this stage, roofing may commence



etroprojects

DEVELOPMENT



GIBB

Checklist for House Super Structure

Employer	Ekraleteni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	* PS!HS23*2013
Contractor	* Bankuna Construction and Engineering
Date	! 14-05.2015
File	!

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the drawings and drawings.

House Number _____ 36999

BRICK WORK

is the bricks SABS 0400 approved?

! Yes

Are the bricks Strength of bricks as per Specification?

yes

Does mortar mix comply with SAM 0164>

yes

- 1 owl cement to 5 parts of sand
- Minimum 28 day strength > 1, MPa.
- Sand to be free of organic matter

is damp proof installed between the bricks and wall

YES

is the brick force installed according to the specification?

yes

- Minimum diameter brick courses to be 75mm
- Every 4th course
- Every course above the first course
- Brick force to be bent in right angles at corners

Toothing is not allowed!

Does the wall have a damp proof course (DPC)?

Yes

Are the bricks set in a mortar bed?

yes

Are the walls...

Yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumb and square? Ensure that the are in the correct position for hinges correct opening and closing.

yes

Are the thicknesses of steel/wooden doors and frames according to specification?

yes

Are the roof ties according to specification?

yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer

Name Enias Kadzviti

Signature

Date 20-05-2015

Clerk of Works

Name Qavev Dvanti

Signature

Date 1271-131721.15

Upon sign off at this stage, roofing commencement

KePIN ti APJJ..



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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05.2015
File	

The Contractor has established that these controlled works have been constructed with the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 3/002

BRICKWORK

Is the bricks SASS 0400 approved?

yes

Are the minimum strength of the bricks as required?

yes

Does mortar mix comply with SAM 0164?

• 1 part cement to 5 parts of sand
Minimum 28 day strength > 5 MPA

• 50% of organic material

yes

Is damp proof installed between the raft and all walls?

YES

Is brickwork installed according to the specifications?

- Minimum dia of reinforcement bars to be 12mm
- 4th COURSE
- Every course above doors and windows
- Reinforcement to be bent at 90 degrees at corners

Toothings are not allowed!

Does the wall have a 70mm overlap on the raft?

yes

Have the wall ties set out according to the layout plan?

yes

Are the walls plumb?

yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

yes

Have all the door frames been placed in the correct position, plumb and square? Ensure that they are in the correct position for hinges, correct opening and closing.

Yes

Are the thickness of steel/wooden doors and frames according to specification?

Yes

Are the roof ties according to specification?

• Minimum depth of roof ties is 60mm

yes

Principal Agent, Engineer		
Name	<u>Enias Kadzvi</u>	Signature <u>Enias Kadzvi</u> Date <u>20-05-2015</u>
Clerk of Works		
Name	<u>Davey Dyantji</u>	Signature <u>Davey Dyantji</u> Date <u>120.05-2015</u>

Upon sign off at this stage, work may commence!





O Checklist for House Stipe;Str1.1ctute

Employer	Ektirhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 • Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05.2015 .
File	

the Contractor has established that these controlled works have been constructed to the correct horizontal and *vertical* alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number **C** 3/003

BRICK WORK

Is the bricks SABS 0400 approved?

yes

Are the ininicint strength of ihe f,irk5 AC Pei ifirdtiOn?

Lye

Does mortar mix compty with SABS 0164?

- 1 *pail cement to 5 norts of sand*
- Minimum 2R day strength WA*
- *Sand to be pee of oigonic material*

yes

ts clamp proof installed between the Tait and alt wails?

LYFs

is the brick force installed au:circling to the specification?

- Minimum diameter of brickforce to be 2.8mni*
- Fiery 4th course*
- Evety course above doors and windows*
- Rrickforce to be bent at tight angles at corners*

E yes

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

yes

Have the walls been set **nut dr:finding** to the favour plan?

yes

Are the walls plumb?

yes

Ate all the walls being constructed concur i emly to ratsure proper :merlon tetween internal and external wells?

yes

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the **are in the** correct position for hingesurreCr Opening dor! closing.

yes

Are the thicknes of steel/wooden doors and frames JCCOI ding to specification?

yes

Are the roof ties according to specification?

- *Minimum depth of roof ties is 6 coerces*

yes

Principal Agent, Engineer			
Name	Enias Kadzviti	Signature	Date
			20-05-2015
Clerk of Works			
Name	Davey Dyantji	Signature	Date
			120-05-2015
Upon sign off at this stage, tooling may onunerice			





Metroprojects

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GIBB



Checklist for House Super Structure

Employer	Ekurhirleni Metropolitan Municipality
Project	Etwatwa Ext 35 • Combiza
Contract	P5114523-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these ci)raided works have been constructed to the correct horizontal and vertical alignment and position. ;hat such wok has been carried out to the required standards and specdications, as set out in the document and drawings.

House Number

BRICK WORK

is the bucks SASS 0400 approved -

At e the minimum sttel igitri of the bricks as per specification?

Does mortar mix comply with SAM 016:1?

- 1 port cement to 5 parts of tote!
- Amman' 2S dm/ strength s 5 mpA
- Sand in be free of organic M0111101

Is damp proof installed between the rail and all waits)

;s the brick force installed according to the specificaton?

- Minimum drnmerei buckforce to be 2.8mm
- Every 4th.
- Every coolie above doors and windows
- Boactorce m be bent at right angles or cornets

Toothng is nut allowed!

Does the wall have a ;Kamm overlap Or' the raft?

ave the walls been set out acc::ortaing, to the ta;OUT plan?

Are the walls pluinh?

Are all the walls being •zonstucted concurrently to ensure proper interlock between internal and external walls?'

Have all the door traine5 bei-n placed in the correct position, plumbed and square?
Ensure that the are in the cooed posit:on for hinges correct opening anci closing.

Are the thicknes of steeliwoodan doors and flames according to specification?

Are the roof ties according ie specification?

- Minimum depth of roof tie is 6 coerces

Principal Agent, Engineer

Name Enias Kadzviti

1

Signature

Date

120-05-2015

Clerk of Works

Name Davey Dvantji

Signature

Date

ri0-05-2015



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSifis23.2013
Contractor	Bankuna Construction and Engineering
Date	14.05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position. that such work has been carried out to the required standards and specifications. as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sum to be free of organic material

Is damp proof installed between the raft and all walls? YES

Is the brickwork installed according to the specification? yes

- Minimum diameter of brickwork to be 28mm every 4th course
- Every course above doors and windows
- Brickwork to be bent at right angles at corners

Toothing is not allowed!

Do the walls have a 20mm overlap on the raft? yes

Have the walls been built out according to the layout plan? yes

Are the walls "dumb"? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? Ensure that they are in the correct position for hinges correct opening and closing. yes

Are the thicknesses of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<u>Erlias Kadzvi</u>	Signature	
Date	<u>20-05-2015</u>		
Clerk of Works			
Name	<u>Faiz TOYANTJI</u>	Signature	
Date	<u>20-05-2015</u>		

Upon sign off at this stage, roof may commence!



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DEVELOPMENT



GIBB

CF Checklist for House Super Structure

Employer	:	Ekurhuleni Metropolitan Municipality
Project	:	Etwatwa Ext 35 - Combiza
Contract	:	PSHiS23.2013
Contractor	:	Aanktina Construction and Engineering
Date	:	14-05-2015
File	:	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work, has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number, 37008

BRICK WORK

Is the bricks SABS 1)400 approved? yes

Are the bricks strength of the bricks as per specification?

Does mortar comply with SABS 0164)

- 1 part cement to 5 parts of sand
- 28 day strength test, MPA
- Sand to be free of organic matter; rain

Is damp proof installed between toe raft and all walls? YFS

Is the brickwork force installed according to the specification?

- Minimum decimeter VI above to be 2.3mm
- 1st very 4th course
- 1st very course above doors and windows
- 1st course to be bent of right angles at at Geis

Toothing is not allowed!

Does the wall have a 10mm overlap on the raft? Yes

Have the walls been set out according to the layout plan? Yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumb and square? yes
 Insure that the are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer

Name Enias Kadzviti Signature

Date 12-05-2015

Clerk of Works

Name Davey Dyantji Signature

Date 20-05-2015

Upon sign off at this stage, roofing may commence!
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a Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/H523-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

*1 part cement to 5 parts of sand
Minimum 28 day strength > S MPA
Sand to be free of organic material*

is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

*Minimum diameter of brick force to be 2.81":1
- Every 4th course
- Every course above doors and windows
- Brick force to be bent at right angles at corners*

Toothing is not allowed!

Does the wall have a 70mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square? Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text" value="Enias Kadzviti"/>	Signature	
Date	<input type="text" value="20-05-2015"/>		
Clerk of Works			
Name	<input type="text" value="Davey Dyantji"/>	Signature	
Date	<input type="text" value="20-05-2015"/>		

Upon sign off at this stage, roofin: m- commence!





Metroprojects

DEVELOPMENT
LEADERS IN DEVELOPMENT
OF YOUR INVESTMENTS



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alr Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS1HS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SASS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 port cement to 5 ports of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brick force to be 2.8mm
- Every 4th course
- Every course above doors and windows
- auckforce to be bent 01 right angles at corners

Toothing is not allowed!

Does the wall have a 70mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text" value="Enias Kadzviti"/>	Signature	
Date	<input type="text" value="20-05-2015"/>		
Clerk of Works			
Name	<input type="text" value="Davey Oyantji"/>	Signature	
Date	<input type="text" value="20-05-2015"/>		

Upon sign off at this stage, roofing may-Eommence I

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DEVELOPMENT

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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/EIS23 2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAM 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 pail cement to 5 parts of sand
- Minimum 28day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brick force to be 7.8mm
- Every 4th course
- Every course above doors and windows
- Sickness to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text" value="Enias Kadzviti"/>	Signature	
Date	<input type="text" value="20-05-2015"/>		
Clerk of Works			
Name	<input type="text" value="Davey Dvantij"/>	Signature	
Date	<input type="text" value="20 05 2015"/>		

Upon sign off at this stage, roofing may commence





O Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SASS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?
 - 1 part cement to 5 parts of sand
 - Minimum 28 day strength > 5 MPA
 - Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?
 - Minimum diameter of brickforce to be 2.8min
 - Every 4th course
 - Every course above doors and windows
 - Brickforce to be bent at right angles at corners

Tooththing is not allowed!

Does the wall have a 20mm over lap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
 - Minimum depth of roof ties is 6 coerces

Principal Agent, Engineer			
Name	Enias Kadzviti	Signature	
Date			<input type="text" value="20-05-2015"/>
Clerk of Works			
Name	<input type="text" value="Davey Dyantji"/>	Signature	
Date			<input type="text" value="20-05-2015"/>

Upon sign off at this stage, roofin; ma commence
 P.V330o4 isUrriUient HUM. ,enterrrens \in.)t p - i i WA. VOA / (* , TTT 5100 MI uture Kepurt, \, u-aa)TU, (111.





Metroprojects

DEVELOPMENT

LEADER IN THE DEVELOPMENT
OF...1-4GENPROIVE



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Checklist for House Super Structure

Employer	Ekurhueni Metropolitan Municipality
Project	Etwatwa Ext 35 Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to .5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.801m
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer

Name

Signature

Date

Clerk of Works

Name

Signature

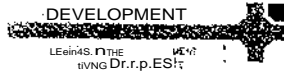
Date

Upon sign off at this stage, roofin may commence!





Metroprojects



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 Combiza
Contract	PS/1-1523 2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mo)
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles of corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text" value="Enias Kadzviti"/>	Signature	
Date	<input type="text" value="20-05-2015"/>		
Clerk of Works			
Name	<input type="text" value="Davey Dyantji"/>	Signature	
Date	<input type="text" value="20-05-2015"/>		

Upon sign off at this stage, roof work may commence. If you are not satisfied with the work, you may request a re-inspection.





Metroprojects

DEVELOPMENT
LEADERS IN THE DEVELOPMENT
OF RURAL ENVIRONMENTS



GIBB

Checklist for House Super Structure

Employer	Ekurhuteni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	14-05-2015
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brick force to be 2.8mm
- Every 4th course
- Leery course above doors and windows
- Brick force to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 mm

Principal Agent, Engineer			
Name	<input type="text" value="Enias Kadzviti"/>	Signature	<input type="text" value="[Signature]"/>
Date	<input type="text" value="20-05-2015"/>		
Clerk of Works			
Name	<input type="text" value="Davey Dyantli"/>	Signature	<input type="text" value="[Signature]"/>
Date	<input type="text" value="20-05-2015"/>		

Upon sign off at this stage, roofing may commence)





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36898

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164?
- 1 part cement to 5 parts of sand
- Minimum 28 day strength -> 5 MPA
- Sand to be free of organic material
yes

Is damp proof installed between the raft and all walls? YES

Is the brick force installed according to the specification?
Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners
yes

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that they are in the correct position for hinges correct opening and closing.
yes

Are the thickness of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 courses
yes

Principal Agent, Engineer			
Name	E. 16:4	Signature	[Signature]
			Date 2-04-2015
Clerk of Works			
Name	e..l	Signature	[Signature]
			Date 2-04-2015

Upon sign off at this stage, roofing may Commence!



O Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SAGS 0400 approved? **1**

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SAGS 0164?
port cement to 5 parts of sand
Minimum 28 day strength > 5 MPA
Sand to be free of organic material

is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?
Minimum diameter of brickforce to be 2.8mrh
Every 4th course
Every course above doors and windows
Brickforce to be bent at right angles of corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

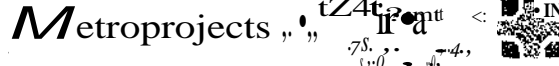
Have all the door frames been placed in the correct position, plumbed and square?
 Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text" value="(-)"/>	Signature	<input type="text" value="[Signature]"/>
Date	<input type="text" value="2015-04-02"/>		
Clerk of Works			
Name	<input type="text" value="NDYANINI"/>	Signature	<input type="text" value="[Signature]"/>
Date	<input type="text" value="2015-04-02"/>		

Upon sign off at this stage, roofing/may commence!



al Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Cornbiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled **works have** been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out **to the required** standards and specifications, **as set out in the** document and drawings.

House Number

BRICK WORK

Is the bricks SAHS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 port cement to Sports of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of bockforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text" value="V. (Ad)"/>	Signature	<input type="text" value="Handwritten Signature"/>
		Date	<input type="text" value="2 Apr 2015"/>
Clerk of Works			
Name	<input type="text" value="I.F.N."/>	Signature	<input type="text" value="Handwritten Signature"/>
		Date	<input type="text" value="2 Apr 2015"/>

Upon sign off at this stage, roofing may commence!





0 Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 -Combiza
Contract	PS/I-IS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36902

BRICK WORK

Is the bricks SAGS 0400 approved? yes

Are the minimum strength of the bricks as per specification? YES

Does mortar mix comply with SAM 0164? yes
- 1 port cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? YES

Is the brick force installed according to the specification) YES
- Minimum diameter of brckforce to be 2.8trim
- Every 4th course
- Every course above doors and windows
- brickforce to be bent of right angles at corners

Toot hing is not al/owed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes
- Minimum depth of roof ties is 6 courfes

Principal Agent, Engineer			
Name	[Signature]	Signature	Date [Date]
Clerk of Works			
Name	[Signature]	Signature	Date [Date]

Upon sign off at this stage, roof in commence I





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

Plot/Use Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength a 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brick force to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer		
Name <input type="text" value="T. Timm"/>	Signature	Date <input type="text" value="7-04-2015"/>
Clerk of Works		
Name <input type="text" value="N"/>	Signature TIMM	Date <input type="text" value="7-1-2015"/>

Upon sign off at this stage, roofin: nay commence!





a Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Cornbiza
Contract	PSMS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 port cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

2

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text" value="..."/>	Signature	<input type="text" value="..."/>
		Date	<input type="text" value="..."/>
Clerk of Works			
Name	<input type="text" value="..."/>	Signature	<input type="text" value="..."/>
		Date	<input type="text" value="..."/>

Upon sign off at this stage, roofing- nay commence!





O Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has *been* carried out to the Inquired standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- *1 part cement to 3 parts of sand*
- Minimum 28 day strength > 5 MPa*
- Sand to be free of organic material*

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- *Minimum diameter of brickforce to be 2.8mm*
- *Every 4th course*
- *Every course above doors and windows*
- *Brickforce to be bent at right angles at corners*

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

Minimum depth of roof ties is 6 sources

Principal Agent, Engineer		
Name <input type="text"/>	Signature <input type="text"/>	Date <input type="text" value="2-4-15"/>
Clerk of Works		
Name <input type="text"/>	Signature <input type="text"/>	Date <input type="text" value="2-4-15"/>

Upon sign off at this stage, roofing may commence!



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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

the Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer
 Name Signature Date
 Clerk of Works
 Name Signature Date

Upon sign off at this stage, roof may commence!



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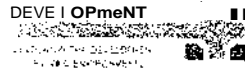
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Cr Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/H523-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has **established** that these controlled works have been constructed to the, correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 7 part Cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8ront
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles m corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the wails been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

Minimum depth of roof ties is 6 cources

Principal Agent, Engineer		
Name <input type="text"/>	Signature <input type="text"/>	Date <input type="text" value="2015-04-02"/>
Clerk of Works		
Name <input type="text"/>	Signature <input type="text"/>	Date <input type="text" value="2015-04-02"/>

Upon sign off at this stage, roofing may commence!





CI Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 -Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36912

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164?
- 1 part cement to 5 parts of sand
• Minimum 28 day strength > 5 MPA
- Sand to be free of organic material
yes

Is damp proof installed between the raft and all walls? YES

Is the brick force installed according to the specification?
- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent of right angles at corners
yes

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.
yes

Are the thickness of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification?
• Minimum depth of roof ties is 6 coerces
yes

Principal Agent, Engineer			
Name	T. (t)li	Signature	[Signature]
		Date	3 April 2015
Clerk of Works			
Name	ILidi	Signature	[Signature]
		Date	4 April 2015

Upon sign off at this stage, roofing may commence





Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Cornbiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications. as set out in the document and drawings.

House Number 36913

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? YES

is the brick force installed according to the specification? yes

- Minimum diameter of brickforce to be 1.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent of right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer Name <u>L. L.</u>	Signature <u>[Signature]</u>	Date <u>2015-04-02</u>
Clerk of Works Name <u>P.</u>	Signature <u>[Signature]</u>	Date <u>2015-04-02</u>

Upon sign off at this stage, roofing may commence!



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Numbel

BRICK WORK

is the bricks SAPS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Send to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8nun
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at rorners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?.

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<u>11/04/15</u>	Signature	<input type="text" value=""/>
Date			<input type="text" value="11/04/2015"/>
Clerk of Works			
Name	<u>11/04/15</u>	Signature	<input type="text" value=""/>
Date			<input type="text" value="11/04/2015"/>

Upon sign off at this stage, roofing may commence





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DEVELOPMENT



Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Banktina Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36915

BRICK WORK

Is the bricks SABS 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with SABS 0164? yes
- 1 port cement to 5 parts of sand
- Minimum 28 day strength > 5 MPa
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? YES

Is the brick force installed according to the specification? yes
- Minimum diameter of backforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
fissure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes
. Minimum depth of roof ties is 6 courses

Signature and Date fields for Principal Agent, Engineer and Clerk of Works, including instructions upon sign off.





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a Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SASS0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SASS 0164 ?

- 1 port cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- **Minimum** diameter of brickforce to be 2_8mm
- Every 4th course
- Even/ course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

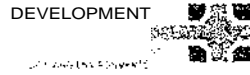
Are the roof ties according to specification?
• **Minimum depth of roof ties is 6 courses**

Principal Agent, Engineer		
Name	Signature	Date
Clerk of Works		
Name	Signature	Date
Upon sign off at this Stage, roo ena commence!		





Metroprojects



O Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

the Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SASS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SAGS 0164?
 - 1 part cement to 5 parts of sand
 - Minimum 28 day strength r 5 MPA
 - Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?
 - Minimum diameter of brickforce to be 2.8min
 - Every arh course
 - Every course above doors and windows
 - Brick force to be bent as right angles of corners

Toothing is not allowed!

Does the wall have a 20rim overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
 Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
 Minimum depth of roof ties A 6 court

Principal Agent, Engineer			
Name	<input type="text" value="Nliq 071-1"/>	Signature	<input type="text" value="7-04-2015"/>
Clerk of Works			
Name	<input type="text" value="Nliq 071-1"/>	Signature	<input type="text" value="7-04-2015"/>

• Upon sign off at this stage, roofing saycommence!





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at Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that **these controlled works have** been constructed to **the correct horizontal** and vertical alignment and position, that such work has **been carried out to the required standards and specifications, as set out in** the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SAGS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength >5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course abase doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 rources

Principal Agent, Engineer			
Name	<input type="text" value="Z ksd I7"/>	Signature	<input type="text" value=""/>
			Date
			<input type="text" value="7 April 2015"/>
Clerk of Works			
Name	<input type="text" value=""/>	Signature	<input type="text" value=""/>
			Date
			<input type="text" value="7 April 2015"/>

upon sign off at this stage, roofin ay commence=





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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/11323-2013
Contractor	Bacteria Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SABS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SAES 0164?
- 1 port cement to 3 parts of sand
- Minimum 28 day strength a 5 MPA
- Sand to be free of organic matenui

is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?
Minimum diameter of bt ickfoi re to be 2.8mm
- Every 4th course
- Every course above doors and windows
Brickforce to be bent at right angles at comers
Toothng is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square? Ensure that the are in the correct position for hinges correct opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
Minimum depth of roof ties is 6 coerces

Principal Agent, Engineer	<input type="text"/>	<input type="text"/>	<input type="text"/>
Name	<input type="text"/>	Signature	Date
Clerk of Works	<input type="text"/>	<input type="text"/>	<input type="text"/>
Name	<input type="text"/>	Signature	Date

Upon sign off at this stage, roofin may'ommence l





a Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Eat 35 - Cornbiza
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SABS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

is The brick force installed error ding to the specification?

- Minimum diameter of brickforce to be 2.8mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed Concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thic.knes of steel/wooden doors and frames according to specification?

Are The roof ties according to specification? _____1
• Minimum depth of roof ties is 6 coerces

Principal Agent, Engineer			
Name	<u>R K</u>	Signature	<u>[Signature]</u>
		Date	<u> </u>
Clerk of Works			
Name	<u>N111/41T</u>	Signature	<u>DIVE</u>
		Date	<u>02-04-2015</u>

Upon sign Off at this stage, roofing mat' commence!
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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/1-1S23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Ay-IS
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings

House Number 36990 1

BRICK WORK

Is the bricks SAM 0400 approved? yes

Are the minimum strength of the bricks as per specification? yes

Does mortar mix comply with 5ABS 0164?
- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material
yes

Is damp proof installed between the raft and all walls? YES

Is the brick form installed according to the specification?
- Minimum diameter of brick force to be 2.1mm
- Every 4th course
- Every course above doors and windows
Brick force to be bent at right angles at corners
yes

Toothing is not allowed!

Does the wall have a 10mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? Yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that they are in the correct position for hinges correct opening and closing.
yes

Are the thickness of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification?
- Minimum depth of roof ties is 6 courses
yes

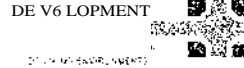
Principal Agent, Engineer			
Name	[Signature]	Signature	Date [Date]
Clerk of Works			
Name	[Signature]	Signature	Date [Date]

Upon sign off at this stage, roofing may commence!





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O Checklist for House Super Structure

Employer	aurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Cornbiza
Contract	PSIHS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAPS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SAPS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brick force to be 2.5mm
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles on corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?

Ensure that they are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?

- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer			
Name	<input type="text"/>	Signature	<input type="text"/>
			Date
Clerk of Works,			
Name	<input type="text"/>	Signature	<input type="text"/>
			Date

Upon sign off at this stage, rodingimay commence





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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS1HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number 36992

BRICK WORK

Is the bricks SAGS 0400 approved? yes

Are the minimum strength of the bricks as per Specification? yes

Does mortar mix comply with SAM 0164?
7 port cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material yes

is clamp proof installed between the raft and all walls? YES

is the brick force installed according to the specification?
- Minimum diameter of brickforce to be 2.8nun
- Every 4th course
Every course above doors and windows
** brickforce to be bent at right ongles of corners* yes

Toothing is not allowed?

Does the wall have a 20mm overlap on the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? yes

Have all the door frames been placed in the correct position, plumbed and square? yes
Ensure that the are in the correct position for hingescorrea opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes
Minimum depth of roof ties is 6 cources

Principal Agent, Engineer

Name t V. -t(A) Signature Date

Clerk of Works

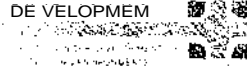
Name t | -t 1 Signature Date H '1

Upon sign off at this stage, roofing- ayc4mmencei
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Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/HS23.2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

is the bricks SASS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SANS 0164?

- 1 port cement to Sports of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of araotnc material

Is damp proof installed between the raft and all walls?

is the brick force installed according to the specification? yes

- Minimum diameter of brickforce to be 2.8mm
- 1- very 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumbed and square?
Ensure that the are in the correct position for hingescorrect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification?

Are .the roof ties according to specification?
- Minimum depth of roof ties is 6 sources

Principal Agent, Engineer		
Name	<input type="text" value="J. J. ..."/>	Signature <input type="text" value="J. J. ..."/>
Date	<input type="text" value="2-11-2015"/>	
Clerk of Works		
Name	<input type="text" value="N. M. ..."/>	Signature <input type="text" value="N. M. ..."/>
Date	<input type="text" value="2-11-2015"/>	

Upon sign off at this stage, roofing may commence!





O Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combi7a
Contract	PS/HS23-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15

The Contractor has established that these controlled works **have been** constructed to the **correct horizontal and vertical alignment** and position, that such work has been **carried out to the required standards and specifications, as set out in the document and drawings.**

House Number _____ 37000 _____

BRICK WORK

is the bricks SASS 0400 approved? yes

Are the minimum strength of the bricks as per **specification**? 1 yes

Does mortar mix comply with SAGS 0164?
2 port cement to 5 parts of sand
Minimum 28 day strength a 5 MPA
• Sand to be free of organic material yes

is damp proof installed between the **raft** and all walls? YIs

Is the brick force **installed** according **to the specification**? yes
- Minimum diameter Of brickforce to be J.Smni
- Every 4th course
- Every course above doors and windows
- Brickforce to be heat at right angles at cornets

Toothing is not allowed!

Does the wall have a 20rum overlap on **the raft**? yes

Have the walls **been set out according to the layout plan**? 1 yes

Are the walls plumb? yos

Are all **the walls being constructed** conoect ently to **ensure propel interlock between internal and external walls**? yes

Have all the door frames been pieced in the **correct position, plumbed and square**? [yes
 Ensure that the are in the correct position lot **hingescorrect opening and closing.**

Are the thicknes of steel/wooden doors and frames **according to specification**? yes

Are the roof ties according to **specification**? yes
- Minimum depth of roof ties is 6 courses

Principal Agent, Engineer		
Name <u>FT</u>	Signature	Date
Clerk of Works		
Name	Signature	Date

Upon sign off at this stage, roofI7'rhaycommē.ncéf
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Cr Checklist for House Super Structure

Employer	Ekurtileni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/F-1523-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

the Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number

BRICK WORK

Is the bricks SAGS 0400 approved?

Are the minimum strength of the bricks as per specification?

Does mortar mix comply with SAPS 0164?

- 1 part cement to 5 parts of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls?

Is the brick force installed according to the specification?

- Minimum diameter of brickforce to be 2.8m
- Every 4th course
- Every course above doors and windows
- Brickforce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20min overlap on the raft?

Have the walls been set out according to the layout plan?

Are the walls plumb?

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls?

Have all the door frames been placed in the correct position, plumb and square?
Ensure that the are in the correct position for hinges correct opening and closing.

Are the thickness of steel/wooden doors and frames according to specification?

Are the roof ties according to specification?
Minimum depth of roof ties is 6 rebar

Principal Agent, Engineer			
Name	<input type="text"/>	Signature	<input type="text" value="[Signature]"/>
Date	<input type="text" value="02-04-2015"/>		
Clerk of Works			
Name	<input type="text" value="tts"/>	Signature	<input type="text" value="[Signature]"/>
Date	<input type="text" value="02-04-2015"/>		

Upon sign off at this stage, roofing may commence!



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O Checklist for House Super Structure

Employer	Ekurhuleni Metropolitan Municipality
Project	Etwatwa Ext 35 - Combiza
Contract	PS/11523-2013
Contractor	Bankuna Construction and Engineering
Date	02-Apr-15
File	

The Contractor has established that these controlled works have been constructed to the correct horizontal and vertical alignment and position, that such work has been carried out to the required standards and specifications, as set out in the document and drawings.

House Number _____ 37012 **1**

BRICK WORK

Is the bricks SABS 0400 approved) yes

Are the minimum strength of the bricks as per specification? **1** yes

Does mortar mix comply with SABS 0164? **1** yes

- 1 port cement to 3 party of sand
- Minimum 28 day strength > 5 MPA
- Sand to be free of organic material

Is damp proof installed between the raft and all walls? YES

Is the brick force installed according to the specification? yes **1**

- Minimum diameter of brick force to be 1.8mm
- Leery 4th course
- Leery course above doors and windows
- Block farce to be bent at right angles at corners

Toothing is not allowed!

Does the wall have a 20mm overlap r.in the raft? yes

Have the walls been set out according to the layout plan? yes

Are the walls plumb? yes **1**

Are all the walls being constructed concurrently to ensure proper interlock between internal and external walls? **1** yes

Have all the door frames been placed in the correct position, plumbed and square? **1** yes
Ensure that the are in the correct position for hingescors ect opening and closing.

Are the thicknes of steel/wooden doors and frames according to specification? yes

Are the roof ties according to specification? yes
- Minimum depth of roof ties is 6 COLIMPS

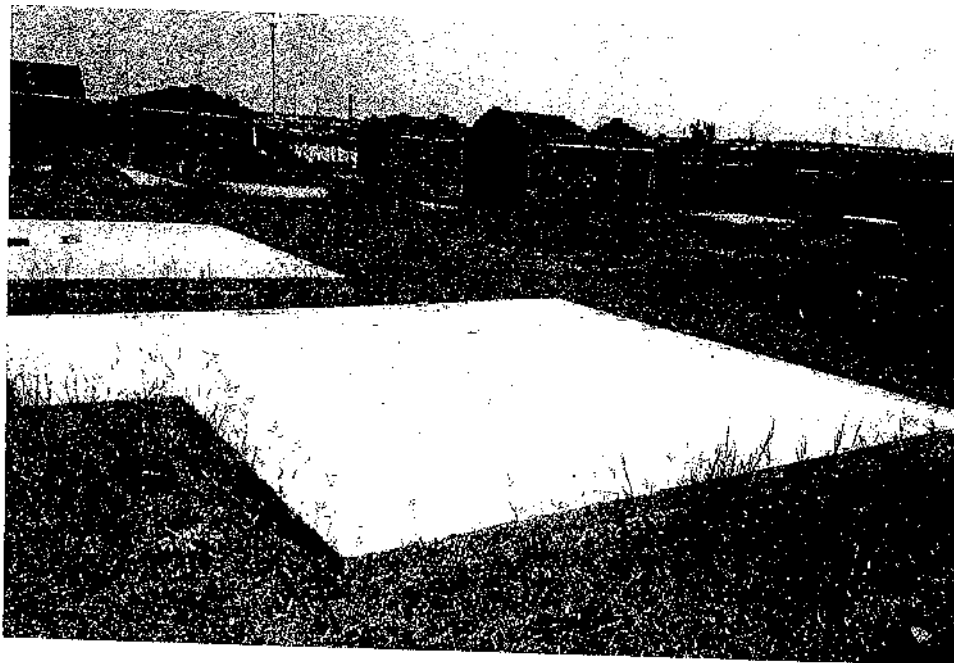
Principal Agent, Engineer
Name **DC** _____ Signature _____ Date **C14** _____

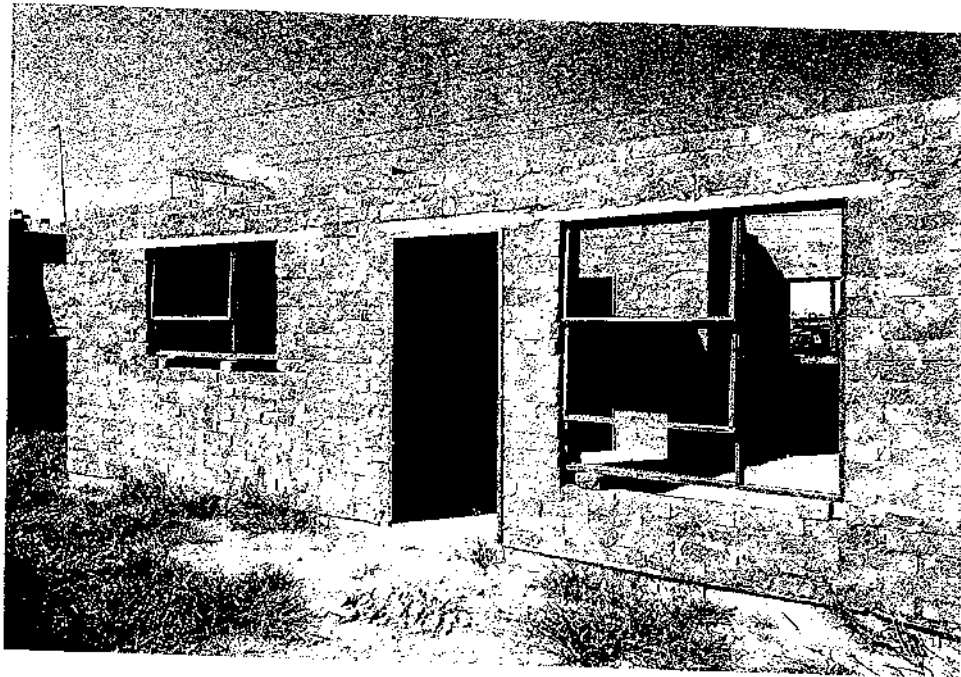
Clerk of Works
Name **110K 117** _____ Signature **117** _____ Date _____

Upon sign off at this stage, roofing itraï commence!
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SITE PHOTOS





3. JOB CREATION

3.1 SUMMARY OF LABOUR STATS

LABOUR STATS FOR JULY2014/JUNE2015

MONTH	LABOUR	COMMENTS
JULY 2014	14	NO ACTIVITY ON SITE
AUGUST 2014	10	NO ACTIVITY ON SITE
SEPTEMBER 2014	10	NO ACTIVITY ON SITE
OCTOBER 2014	23	
NOVEMBER 2014	23	
DECEMBER 2014	14	BUILDERS BREAK
JANUARY 2015	14	NO ACTIVITY ON SITE
FEBRUARY 2015	23	
MARCH 2015	25	
APRIL 2015	24	
MAY 2015	66	
JUNE 2015	34	
TOTAL	280	