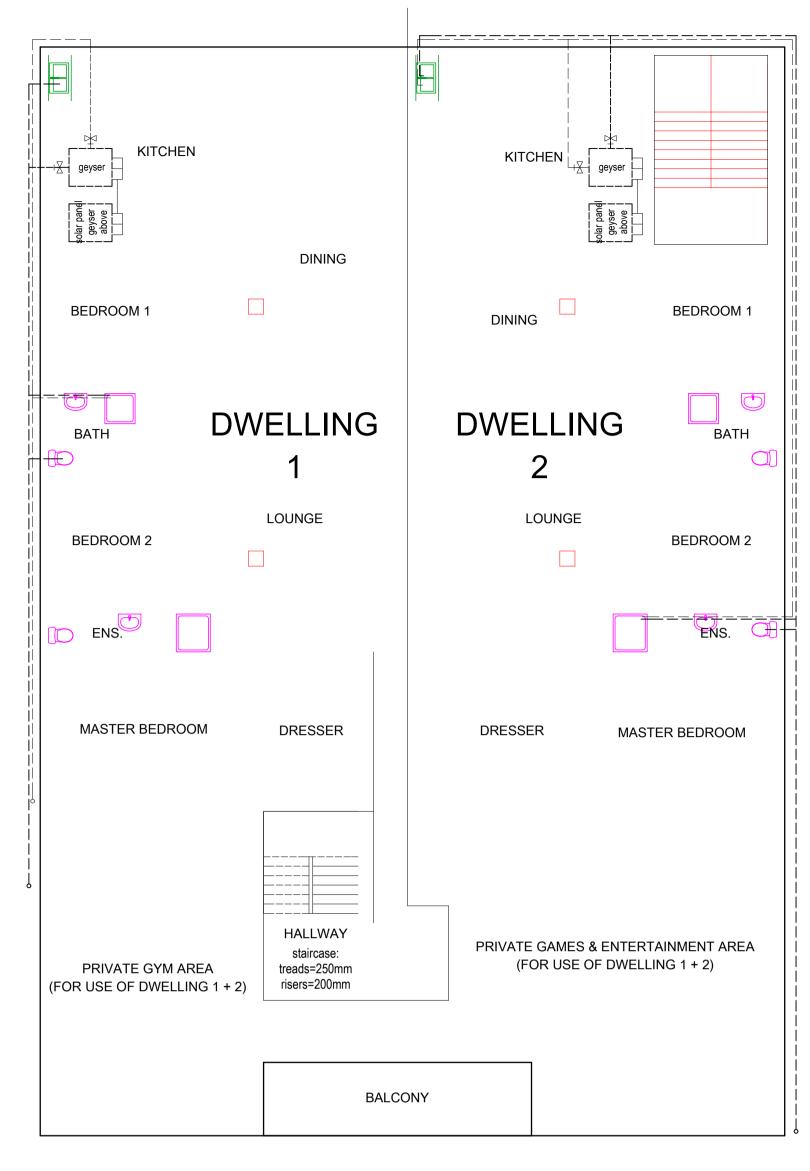


GROUND STOREY WATER RETICULATION <u>LAYOUT</u> SCALE: (1:100)



FIRST STOREY WATER RETICULATION LAYOUT DWELLING I AND DWELLING 2 SCALE: (1:100)

FENESTRATION - GROUND STOREY GUEST BEDROOM, BATH, ENTRANCE HALL.STUDY AND PRIVATE LIBRARY 1. NETT FLOOR AREA= 138.96 sgm 2. GLAZING AREA: TOTAL= 18.06 sqm

NORTH EAST ELEVATION = 14.82 NORTH WEST ELEVATION = NIL SOUTH EAST ELEVATION = 3.24 SOUTH WEST ELEVATION = NIL

3. 15% OF NETT FLOOR AREA: (sqm/100) X 15= 20.84 sqm

CONCLUSION: TOTAL GLAZING AREA < 15% OF NET FLOOR AREA 18.06 sqm < 20.84 sqm

GLAZING IS LESS THAN 15% OF NETT FLOOR AREA OF PROPOSAL THEREFORE CALCULATIONS ACCORDING TO SANS 204 NOT REQUIRED.

FENESTRATION - FIRST STOREY DWELLING 1

1. NETT FLOOR AREA= 179.67 sqm

2. GLAZING AREA: TOTAL= 18.69 sqm

NORTH EAST ELEVATION = NIL NORTH WEST ELEVATION = NIL SOUTH EAST ELEVATION = 8.19 SOUTH WEST ELEVATION = 10.50

3. 15% OF NETT FLOOR AREA: (sqm/100) X 15= 26.95 sqm

CONCLUSION: TOTAL GLAZING AREA < 15% OF NET FLOOR AREA 18.69 sqm < 26.95 sqm

GLAZING IS LESS THAN 15% OF NETT FLOOR AREA OF PROPOSAL THEREFORE CALCULATIONS ACCORDING TO SANS 204 NOT REQUIRED. FIRST STOREY DWELLING 1 LEGEND: = 11W ALLOWED SKwH PER sqm = sqm X 5 Kwh = 218.30 sgm X 5 Kwh= 1091.50 Kwh

FENESTRATION - GROUND STOREY GUEST BEDROOM, BATH, ENTRANCE

HALL, STUDY AND PRIVATE LIBRARY

= 11W

= (5 hrs per day X 365) X (15 X 11 WATTS)

ALLOWED SKWH PER sam

ENERGY CONSUMPTION

= 1825 kwh X 165 watts (x 1000)

LEGEND:

= sqm X 5 Kwh

= 86.68 Kwh

= 301.125 kwh

= 173.36 sgm X 5 Kwh

ENERGY CONSUMPTION

= (5 hrs per day X 365) X (20 X 11 WATTS) = 1825 kwh X 220 watts (x 1000) GLAZING IS LESS THAN 15% OF NETT FLOOR AREA OF PROPOSAL THEREFORE CALCULATIONS ACCORDING TO SANS 204 NOT REQUIRED. = 401.50 kwh

FENESTRATION - FIRST STOREY PRIVATE ENTERTAINMENT, GYM AND GAMES

1. NETT FLOOR AREA= 121.22 sgm 2. GLAZING AREA: TOTAL= 17.70 sqm

FENESTRATION - FIRST STOREY DWELLING 2

1. NETT FLOOR AREA= 165.84 sqm

2. GLAZING AREA: TOTAL= 17.34 sqm

NORTH EAST ELEVATION = NIL

SOUTH EAST ELEVATION = NIL

3. 15% OF NETT FLOOR AREA:

(sqm/100) X 15= 24.87 sqm

NORTH EAST ELEVATION = 14.10 NORTH WEST ELEVATION = 1.8 SOUTH EAST ELEVATION = 1.8 SOUTH WEST ELEVATION = NIL

3. 15% OF NETT FLOOR AREA: (sqm/100) X 15= 18.18 sqm

CONCLUSION: TOTAL GLAZING AREA < 15% OF NET FLOOR AREA 17.70 sqm < 18.18 sqm

GLAZING IS LESS THAN 15% OF NETT FLOOR AREA OF PROPOSAL THEREFORE CALCULATIONS ACCORDING TO SANS 204 NOT REQUIRED.

CONCLUSION: TOTAL GLAZING AREA < 15% OF NET FLOOR AREA

17.34 sqm < 24.87 sqm

NORTH WEST ELEVATION = 6.84

SOUTH WEST ELEVATION = 10.50

FENESTRATION - FIRST STOREY PRIVATE ENTERTAINMENT, GYM AND **GAMES ROOM**

= 11W ALLOWED SKWH PER sam = sqm X 5 Kwh

= 137.00 sgm X 5 Kwh= 685.00 Kwh

ENERGY CONSUMPTION = (5 hrs per day X 365) X (13 X 11 WATTS)

= 1825 kwh X 143 watts (x 1000) = 260.975 kwh

FIRST STOREY DWELLING 2

LEGEND: = 11W

ALLOWED SKwH PER sqm

= sqm X 5 Kwh = 195.20 sqm X 5 Kwh

ENERGY CONSUMPTION

= (5 hrs per day X 365) X (17 X 11 WATTS) = 1825 kwh X 187 watts (x 1000)

= 341.275 kwh

= 976.00 Kwh

SITE AREA = 1419.00 Sqm

SITE AREA x 40 % = allowed sw into muni sw = 1419.00 Sqm x 40 %

DWELLING 2

DWELLING I

WATER SUPPLY

WATER METER

WHB

SINK

BATH TUB

COLD WATER STOP COCK

25mm COLD WATER GEYSER PIPE

25mm HOT WATER GEYSER PIPE

15mm HOT WATER SUPPLY PIPE

15mm COLD WATER SUPPLY PIPE

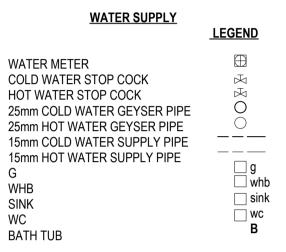
HOT WATER STOP COCK

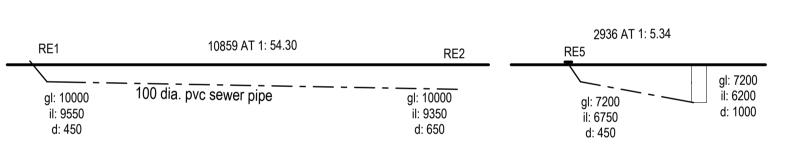
LEGEND

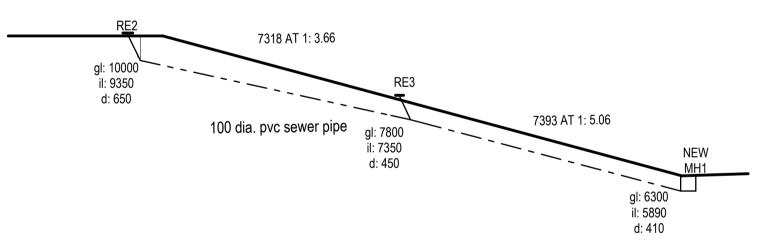
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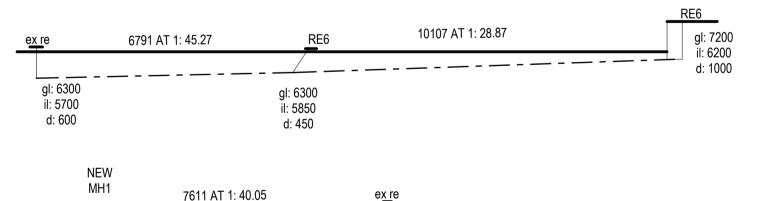
sink

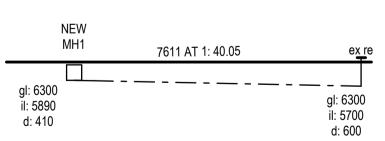
wc











DWELLING I

:2 PERSONS PER BEDROOM

:140L PER DAY

:300L

DWELLING 2

:SOLAR WITH BACK UP ELEMENT

:4 X 2 X140L = 1120L (50% XA2)

:2 PERSONS PER BEDROOM

:140L PER DAY

:300L

:SOLAR WITH BACK UP ELEMENT

:3 X 2 X140L = 840L (50% XA2)

ALL HOT WATER PIPES NOT CHASED INTO WALLS OR ENCASED IN FLOORS TO BE INSULATED TO

DOMESTIC RESIDENCE H4 2 BEDROOMS

THIS WILL BE THE DEMAND OVER A 24H PERIOD

ALL HOT WATER PIPES NOT CHASED INTO WALLS

DOMESTIC RESIDENCE H4 2 BEDROOMS

OR ENCASED IN FLOORS TO BE INSULATED TO

THIS WILL BE THE DEMAND OVER A 24H PERIOD

TYPE OF HOT WATER GENERATION

WATER SUPPLY

MIN R-VALUE OF 1

HOT WATER DEMAND

4 X 2 =8

2 PERSONS PER BEDROOM

8 X 140L /PERSON= 1120L

TYPE OF HOT WATER GENERATION

A20 CLASIFICATION A21 OCCUPANCY

HOT WATER DEMAND

CAPACITY PROVIDED

WATER SUPPLY

MIN R-VALUE OF 1

HOT WATER DEMAND

3 X 2 =6

2 PERSONS PER BEDROOM

6 X 140L /PERSON= 840L

A20 CLASIFICATION

HOT WATER DEMAND

CAPACITY PROVIDED

NUMBER OF BEDROOMS

A21 OCCUPANCY

TOTAL DEMAND

TOTAL DEMAND

NUMBER OF BEDROOMS

PROPOSED BUILDING AREA

GROUND STOREY = 173.36 Sqm FIRST STOREY = 567.36 Sqm

= 740.72 Sqm TOTAL AREA

COVERED PARKING AREA 394.00

P.O.BOX. 561318 \ CHATSWORTH 4030 TEL: 084 779 4061 Checked by

PROJECT

JOASH PERUMAL Drawing Scale

PROPOSED DWELLING 1, DWELLING 2 AND

COVERED PARKING AREA.

@ 15 CHATSWORTH MAIN ROAD, UMHLATUZANA, ON LOT 564 OF UMHLATUZANA.

FOR MR. R. AND MRS. S. GOVENDER.

THE PERFECT PLAN

SACAP : D1082

1:100

PAGE 1/1

LEGEND:

STORMWATER CALCULATIONS

FORMULA

= 567.60 Sqm allowed sw into muni sw

TOTAL HARDEND AREA = 567.36 Sqm

STORMWATER IS LESS THAN 567.60 Sqm THEREFORE CALCULATIONS ACHIEVED