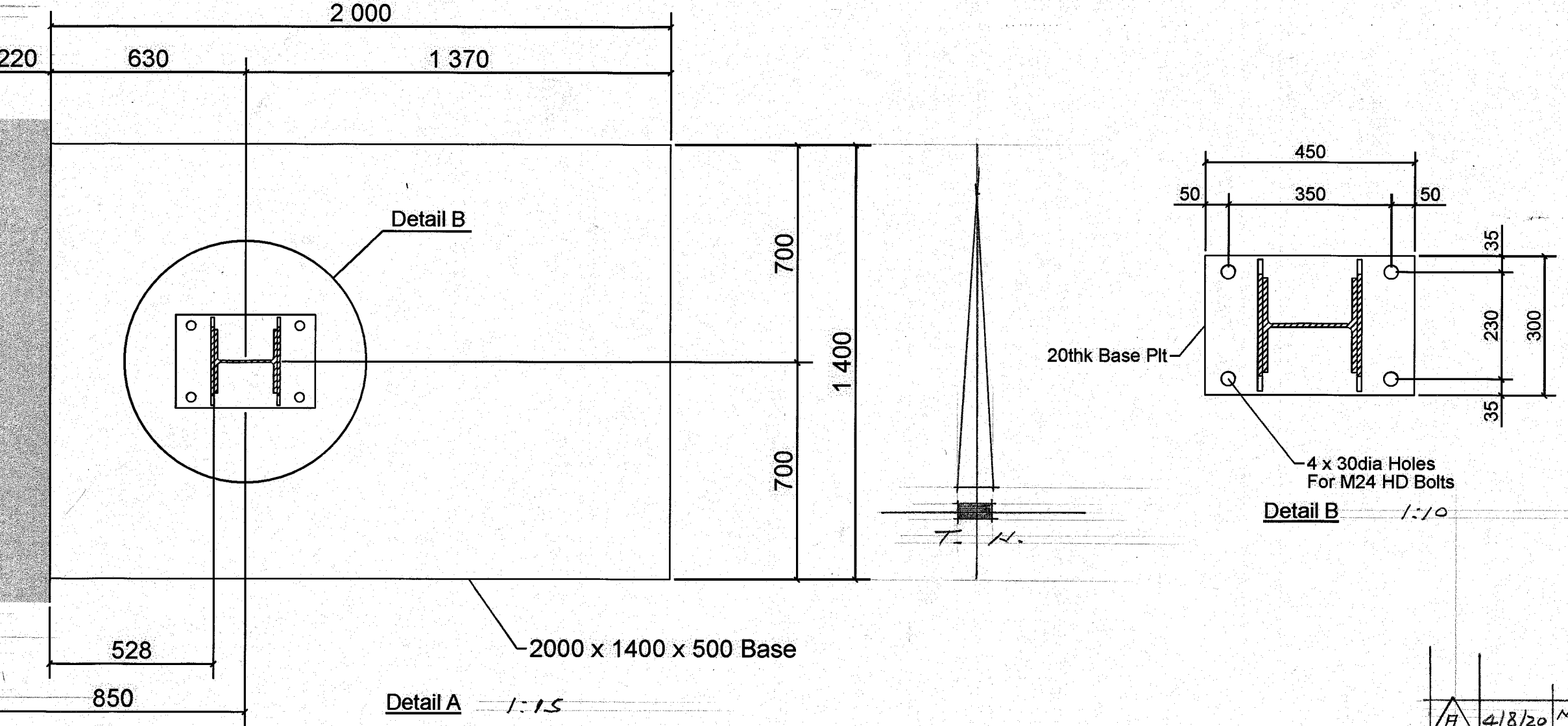


|                               |                        |
|-------------------------------|------------------------|
| NEW 1 <sup>ST</sup> FL. STORE | 17,494 m <sup>2</sup>  |
| NEW GR. FL. OFFICE            | 17,494 m <sup>2</sup>  |
| NEW FACTORY                   | 395,949 m <sup>2</sup> |
| TOTAL NEW                     | 430,937 m <sup>2</sup> |

### PLAN 1:75



|  |  |
|--|--|
| NEW FACTORY                                    |  |
| ENERGY DEMAND FOR LIGHTING (W/M <sup>2</sup> ) |  |
| TOTAL NEW AREA OF OFFICE BLDG                  | = 174,162 M <sup>2</sup>                       |
| MAX. WATT FOR LIGHTING ALLOWED                 | NOT TO EXCEED 170 W/M <sup>2</sup> = 29,607 SW |
| ENERGY DEMAND FOR LIGHTING                     | ACHIEVED: (2X) LIGHTS @ 120W EACH MAX          |
| COMPLIES WITH SANS 204 = 240W                  |  |
| EX. FACTORY                                    |  |
| ENERGY DEMAND FOR LIGHTING (W/M <sup>2</sup> ) |  |
| TOTAL NEW AREA OF FACTORY BLDG                 | = 395,949 M <sup>2</sup>                       |
| MAX. WATT FOR LIGHTING ALLOWED                 | NOT TO EXCEED 150 W/M <sup>2</sup> = 59,392 W  |
| ENERGY DEMAND FOR LIGHTING                     | ACHIEVED: (6X) LIGHTS @ 950W EACH MAX          |
| COMPLIES WITH SANS 204 = 5700W                 |  |

- GENERAL NOTES:**
- FOOTED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALING. ALL DIMENSIONS & FALL OF GROUND TO BE CHECKED ON SITE.
  - ALL NEW WORK TO COMPLY WITH THE S.A. NATIONAL BUILDING REGULATIONS.
  - SANS 1008 & 1009: THE S.A.B.S APPROVED OR ARGUMENT BOARD SA APPROVED.
  - OWNER SHALL PROVIDE ALL WALLS, WINDOWS AND AT POSITIONS AS SHOWN ON TYPICAL DETAIL SECTION OFFICES.
  - VERTICAL DRIP AT ALL CHANGES IN FLOOR LEVEL.
  - ENERGY USAGE (SANS 1040 XA) AND ENERGY EFFICIENCY (SANS 1041).
  - ALL MATERIALS USED TO BE SABS APPROVED.
  - THE VOLUME OF THE ANNUAL AVERAGE HOT WATER HEATING REQUIREMENTS SHALL COMPLY WITH TABLE 2.4.1 OF SANS 1025 - 12072.
  - A MINIMUM OF 90% OF HOT WATER SHALL BE PROVIDED BY OTHER MEANS THAN ELECTRIC GEYSER I.E. SOLAR WATER HEATING SYSTEM OR HEAT PUMP.
  - SOLAR WATER HEATING SYSTEM SHALL COMPLY WITH SANS 1307, 1309, 1025 & 1026.
  - ELECTRIC GEYSER INSULATION SHALL HAVE A MINIMUM R-VALUE OF 2.3 (100MM THICK ISOTHERM GEYSER BLANKET, R-VALUE 2.2).
  - WATER INSTALLATIONS SHALL COMPLY WITH SANS 1020 & 1024.
  - ALL HOT AND COLD WATER PIPE INSULATION SHALL HAVE A MINIMUM R-VALUE OF 1.0 (50MM THICK BOTHERM LAGGING R-VALUE 1.1).
  - PERMANENT INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS & SHALL COMPLY WITH SANS 428.
  - ALL AIR TIGHTNESS OF PENETRATION SHALL COMPLY WITH SANS 1013 & 1014.
  - NON OPERABLE GLAZING SHALL BE 0.31 U/W.
  - OPERABLE GLAZING SHALL BE 0.31 U/W.
  - ALL EXTERNAL DOORS AND WINDOWS TO HABITABLE ROOMS SHALL BE FITTED WITH A FOAM OR RUBBER OR FERROUS SEAL ON 3 SIDES (DOORS) OR 4 SIDES (WINDOWS) AND A BRUSH OR PROTECTION STOP AT THE BOTTOM OF DOORS.
  - THE PENETRATION SHALL NOT EXCEED 15% OF THE NETT FLOOR AREA PER FLOOR OF THE BUILDING.
  - LIGHTING LEVELS SHALL COMPLY WITH SANS 10114.1 & SANS 10000.
  - THE MAXIMUM ENERGY DEMAND (POWER) & ENERGY CONSUMPTION FOR LIGHTING SHALL COMPLY SANS 204, TABLE 12.
  - IE. 60 W/M<sup>2</sup> DEMAND AND 6.0 WH/M<sup>2</sup> CONSUMPTION PER HOUSE WITH A POPULATION OF 4 PEOPLE FOR 14. DWELLING HOUSE OCCUPANCY AND 17.0 WH/M<sup>2</sup> DEMAND AND 6.0 WH/M<sup>2</sup> CONSUMPTION FOR G1 - OFFICES OCCUPANCY.
  - 800 x 300 ISO BOARD (R10) CONTINUOUS INSULATION SHALL BE INSTALLED AROUND THE VERTICAL EXTERNAL PERIMETER EDGE OF THE BUILDING FROM THE ADJACENT FINISHED GROUND LEVEL DOWNWARDS, FOR ALL BUILDINGS WITH A GROUND FLOOR AREA OF LESS THAN 500M<sup>2</sup>.

|   |           |                                  |
|---|-----------|----------------------------------|
| PR. ENG.                                    |           |                                  |
| OWNER                                       | Amubw     | 08/20 27/07/19                   |
| PR. ARCH.                                   | JWC       | 29/8/20 31/07/19                 |
| <b>CLIMATE ZONE 1</b>                       |           |                                  |
| Harry MacLean<br>SA BUREAU                  |           |                                  |
|   |           |                                  |
| P.O. Box 16575<br>Aldershot                 |           |                                  |
| Tel: (011) 973 2781<br>Cell: 082 823 4762   |           |                                  |
| SACAP REGISTRATION S.T.0905                 |           |                                  |
| DATE  | 24/07/19  | SHEET 05 OF 11                   |
| SCALE                                       | 1:75 1:50 | D3 OCCUPANCY<br>MUN. SUBS. DRWG. |
| NEW FACTORY ADDITION                        |           |                                  |
| FOR WHITE CLOUD TRADING (PTY) LTD.          |           |                                  |
| ON PTH. 01 OF ERF 202<br>ANDERBOLT EXT. A6. |           |                                  |
| BOKSBURG A1 05 13 A                         |           |                                  |

|  |  |
|--|--|
| Greenhouse Construction<br>Pleas Houptpoort; Heidelberg, C/O R23 Balfour and N3 Durban       |  |
| Gordon Gilbert - 202 Craig Rd Anderbolt  |  |
| P.O. Box 411340<br>Craighall 2024, South Africa<br>Tel: +27 11 483 1870 Fax: +27 11 483 9445 |  |
| DATE   | 4/8/20   |
| REVISION   | NEW DOUBLE STOREY ABOVE<br>WEST NEW OFFICE ADDED |
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| Project Number: GM-01  |  |
| Scale: G 1:10  |  |