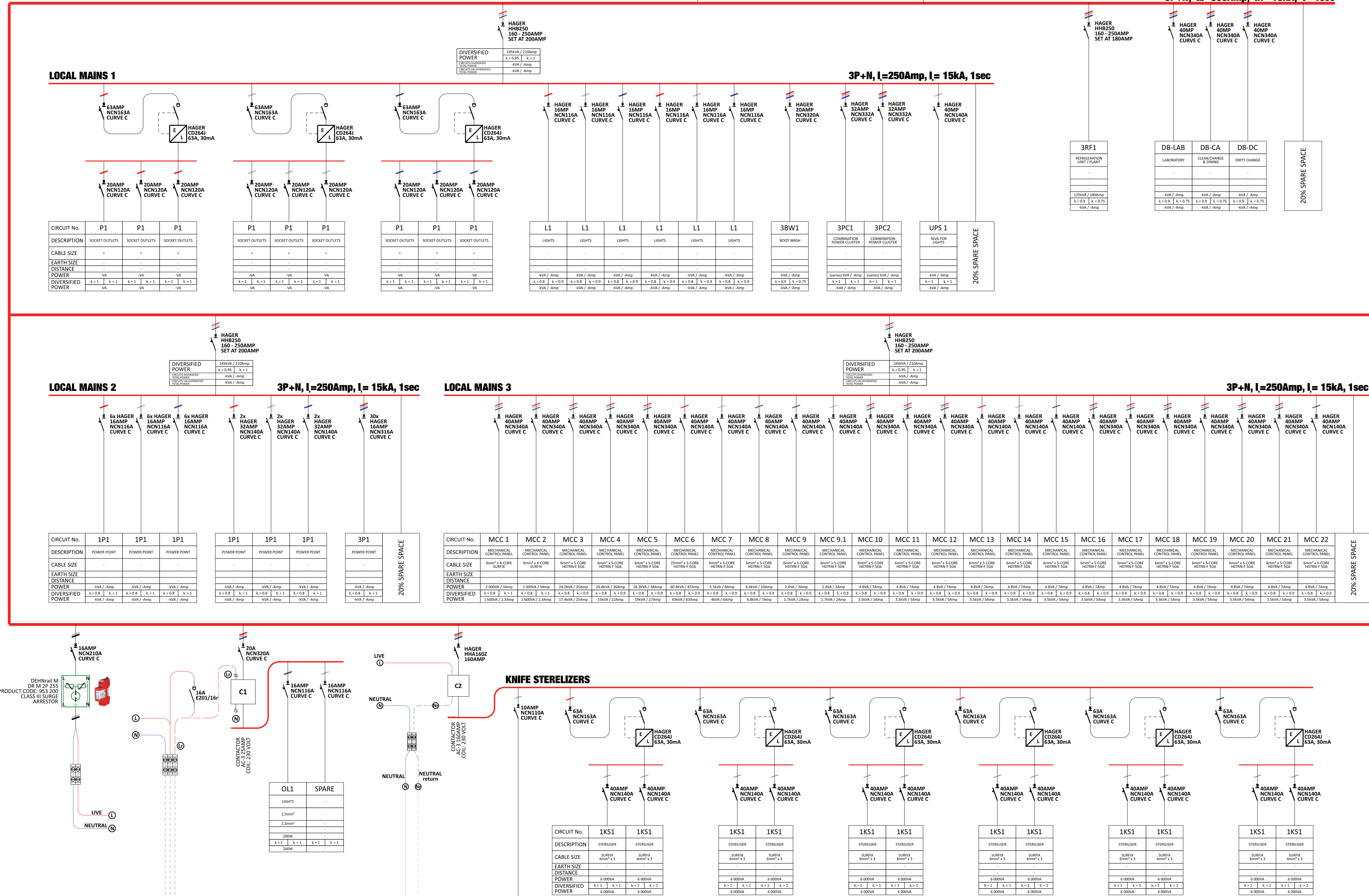


MDB (MAIN DISTRIBUTION BOARD)

SUPPLY CABLES FROM KIOSK 1
3x 240mm² x 4-CORE COPPER

GENERATOR POWER



HAGER QUADRO 5

The distribution board must be factory wired. The distribution board must be factory inspected by the Project Electrical Engineer. Shop drawings must be forwarded to the Project Electrical Engineer for approval, any work done without the Engineers approval will not be accepted.

DANGER SIGNS ON FRONT DOOR AND ABOVE MAINS ISOLATORS



DB MAIN LABEL:

MDB (MAIN DISTRIBUTION BOARD)
SUPPLIED FROM KIOSK 1
3x 120mm² x 4-CORE + 3x 70mm² EARTH
25kA / 800AMP BUSBAR

LABELLING DETAILS:

PREVER 3M Gratoplast SIZK EVO Thermal Printing System or TRAFFOLYTE Engraving

MATERIAL: TRAFFOLYTE
LETTERING/NUMBERING COLOUR: BLACK

DB MAIN LABEL: MAIN DESCRIPTION: 10-15mm TEXT SIZE
FIXED BY LABEL HOLDER OR RIVETS
SECONDARY INFO: 5mm TEXT SIZE
FIXED BY LABEL HOLDER OR RIVETS

BREAKER LABELS: 5mm TEXT SIZE
FIXED BY ALUMINIUM LABEL HOLDER

EARTH LEAKAGE NEUTRAL BARS: 5mm TEXT SIZE - 'E/L NEUTRAL BAR'
FIXED BY RIVETS

DEHN SURGE ARRESTORS WIRING:

- LIVE'S & NEUTRAL WIRING SIZE CLASS I SAME AS PHASE 10mm² 16mm² 25mm² 35mm²
- EARTH WIRING SIZE CLASS I SAME AS PHASE 10mm² 16mm² 25mm² 35mm²
- LIVE'S & NEUTRAL WIRING SIZE CLASS I & II SAME AS PHASE 10mm² 16mm² 25mm² 35mm²
- EARTH WIRING SIZE CLASS I & II SAME AS PHASE 10mm² 16mm² 25mm² 35mm²
- LIVE'S & NEUTRAL WIRING SIZE CLASS II SAME AS PHASE 4mm² 6mm² 10mm² 16mm²
- EARTH WIRING SIZE CLASS II SAME AS PHASE 4mm² 6mm² 10mm² 16mm²
- LIVE'S & NEUTRAL WIRING SIZE CLASS II & III SAME AS PHASE 4mm² 6mm² 10mm² 16mm²
- EARTH WIRING SIZE CLASS II & III SAME AS PHASE 4mm² 6mm² 10mm² 16mm²
- LIVE'S & NEUTRAL WIRING SIZE CLASS III SAME AS PHASE 4mm² 6mm² 10mm² 16mm²
- EARTH WIRING SIZE CLASS III SAME AS PHASE 4mm² 6mm² 10mm² 16mm²

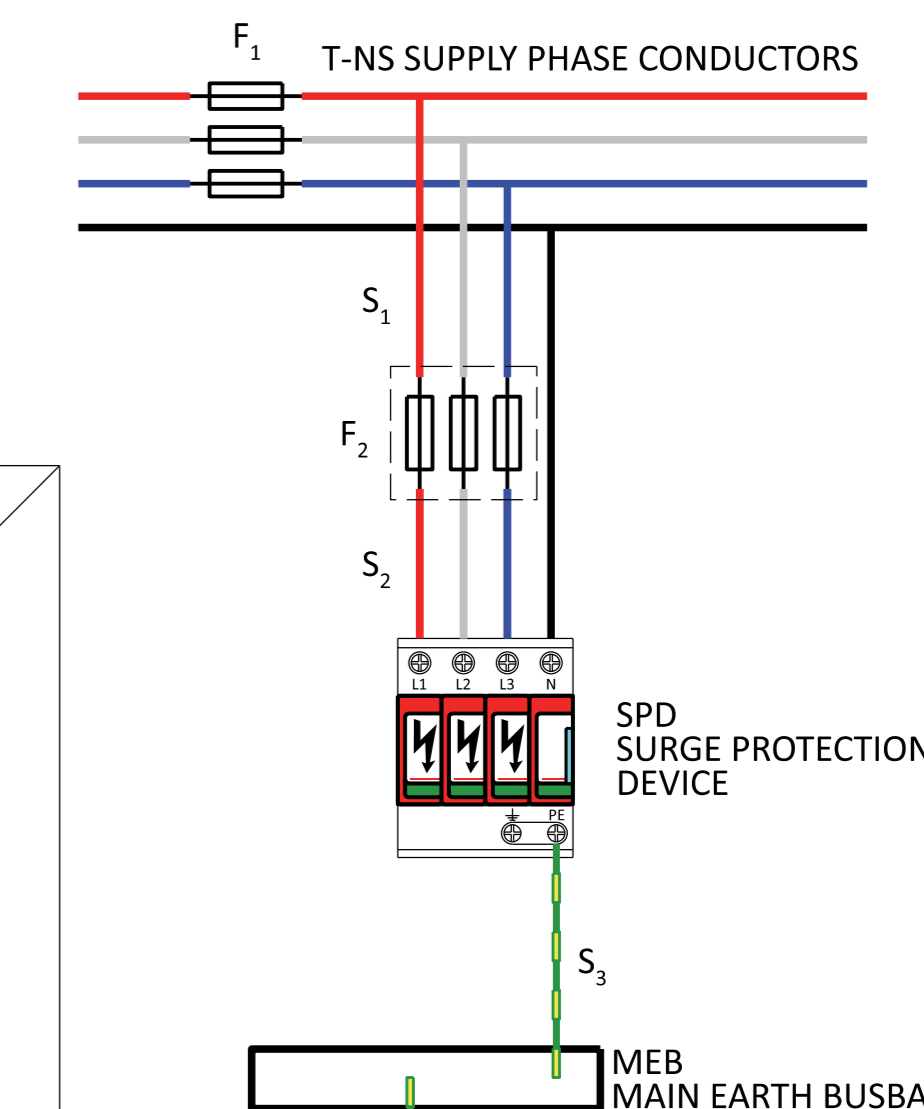
EARTH WIRING COULORS

WIRING ROUTING 1
WIRING ROUTING 2

GREEN/YELLOW INSULATED

MAY NOT BE PARALLEL/TIED TO PHASE OR NEUTRAL WIRING
90 DEGREE BENDS TO BE AVOIDED IF POSSIBLE
SEE MANUFACTURERS WIRING INSTRUCTIONS

DEHN MANUFACTURERS REQUIREMENTS:
S LENGTH: S + S + S = 500mm² MAXIMUM
S SIZE: 10mm²
F: if F > 125AMP then F = NOT REQUIRED
S SIZE: 10mm²
S LENGTH: S + S + S = 500mm² MAXIMUM
S SIZE: 10mm²
S LENGTH: S + S + S = 500mm² MAXIMUM



THE DISTRIBUTION BOARD MANUFACTURER:
ALL WIRE TERMINATIONS NOT TERMINATED IN CIRCUIT BREAKERS MUST BE DONE WITH BOOTHLACE FERRULS
Normally, all Neutral, Earth, control conductors and all wiring terminated in screw terminals
Hellermann/Tyton Square (equal) profile crimpers to be used:
Crimper VAC5 for 0.5 - 6mm² & Crimper YTB6 for 6 - 16mm²

THE DISTRIBUTION BOARD MANUFACTURER:
MUST ENSURE THAT ALL CIRCUIT BREAKER SETTINGS IS SET AS PER ENGINEERS INSTRUCTIONS.
THE BOARD MANUFACTURER MUST ALLOW IN HIS RATES FOR THE SWITCHGEAR / CONTROLLER SUPPLIERS TO DO ALL SETTINGS IN THE MANUFACTURERS WORKSHOP

THE DISTRIBUTION BOARD MANUFACTURER:
CONTROL WIRING MUST BE WIRED IN GREY WIRING, EACH WIRE END OF CONTROL WIRING MUST BE LABELLED WITH HELLERMANN TYTON HELAGRIP MARKERS

FOR CONTRACTORS:
ALL THREE WIRES OF EACH CIRCUIT MUST BE LABELLED WHERE IT TERMINATE ON THE CIRCUIT BREAKER / NEUTRAL BAR & EARTH BAR WITH HELLERMANN TYTON HELAGRIP MARKERS: L1 or P1 etc.

FOR TENDER PURPOSES ONLY

<p>SCIP ENGINEERING GROUP JOHANNESBURG WITBANK</p>	<p>ISILO ABATTOIR (ISILO COUNTY - KENYA)</p>	<p>PROJECT DESCRIPTION</p> <p>PHASE 2 SINGLE LINE DIAGRAM : MDB MAIN DISTRIBUTION BOARD</p>	<p>Veld du Toit RAADGEWEENDE ELEKTRIESE INGENIEURS CONSULTING ELECTRICAL ENGINEER</p>	<p>7 FEBRUARY 2023</p>
				<p>PROJECT No. AREA DISCIPLINE DRAWING NO. REVISION</p>