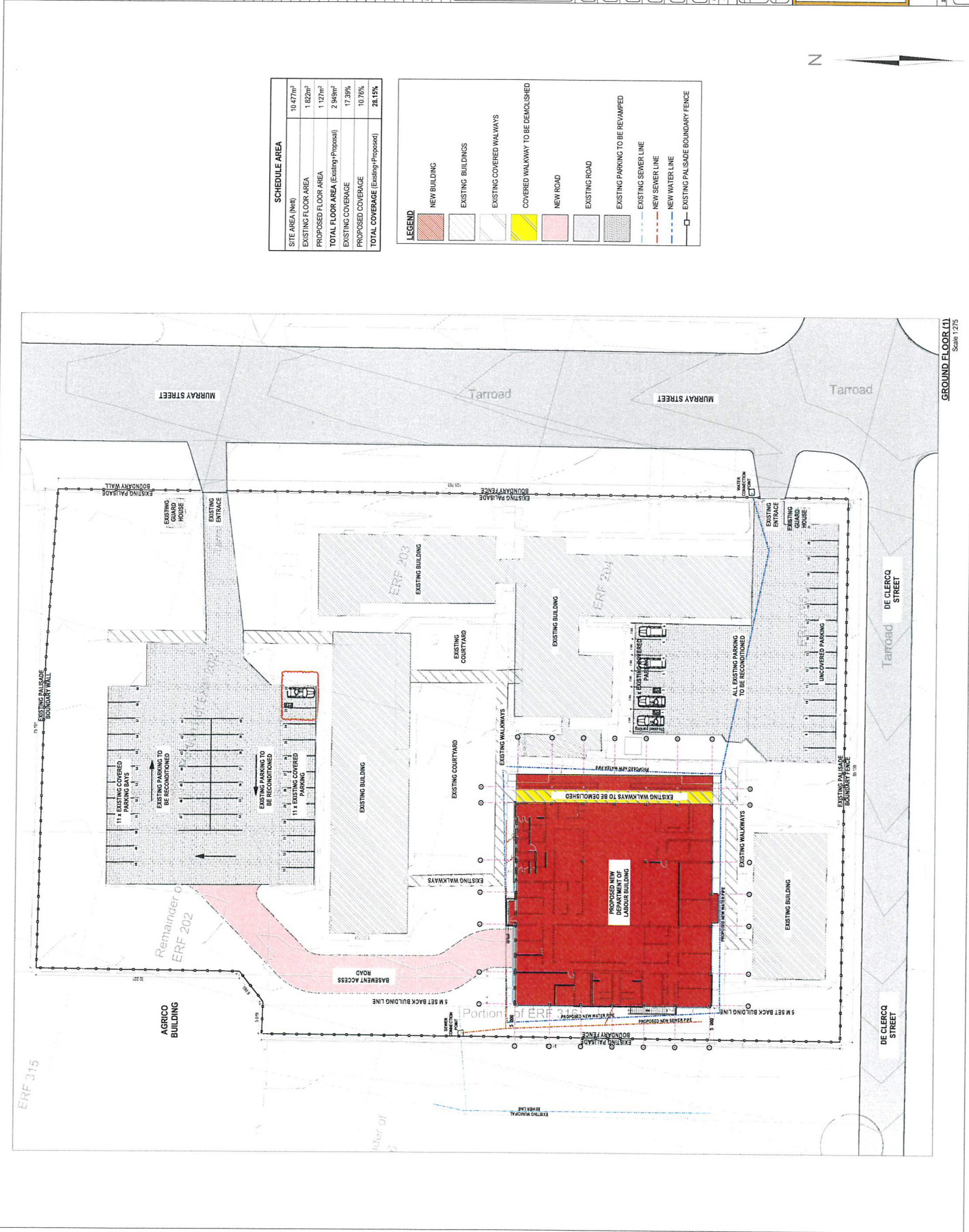


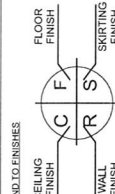
ARCHITECTURAL DRAWINGS



● ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

● DIMENSIONS TO BE READ ; NOT TO BE SCALED FROM THIS DRAWING

● CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

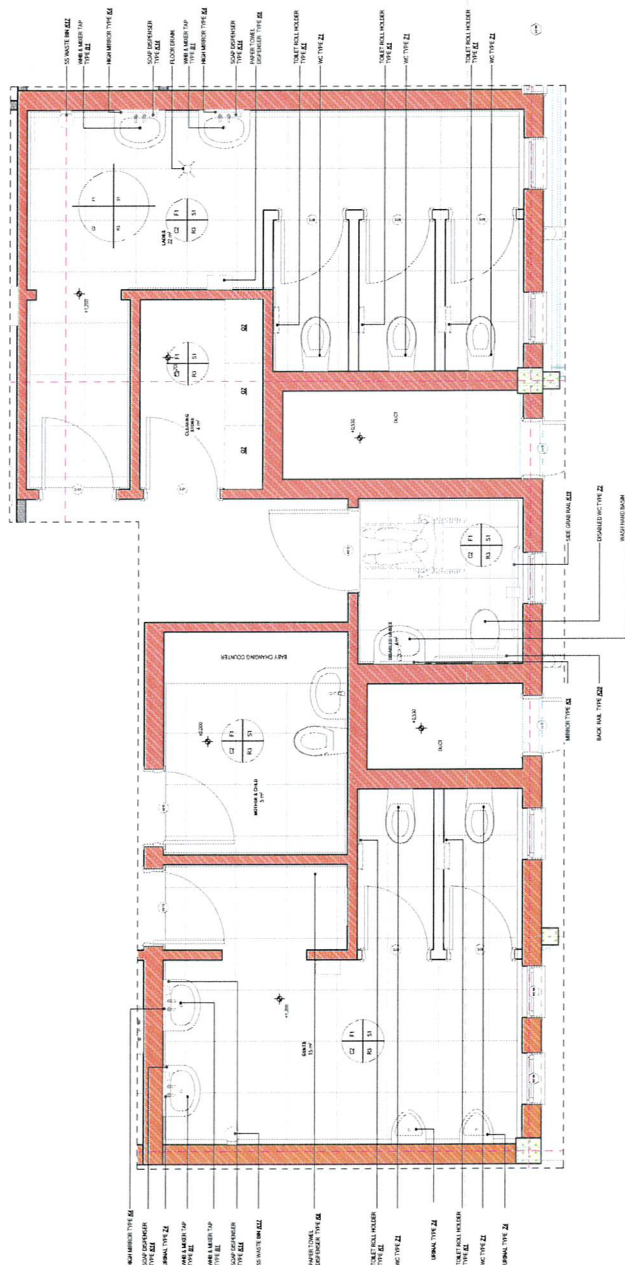
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INSTITUTION	PROJECT STAGE
UNIVERSITY OF LONDON CENTRE	DISCIPLINE
SERVICE	
PROPOSED NEW OFFICE BUILDING	
CONTRACT SECTION	
STAGE 4: TENDER DOCUMENTS	

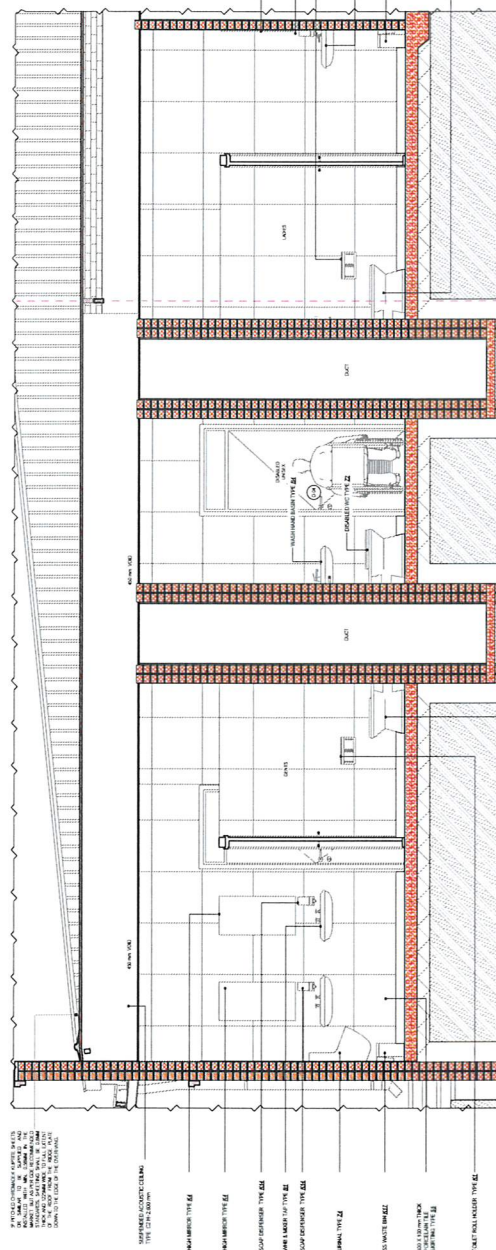
PUBLIC ABLUTIONS WET AREA DETAILS		DRAWING REVISIONS	
FILE NO.	TEAM	ITEM NO.	
DESIGN	TECHNICAL INTERNATIONAL	1	DRAWN
SCALE	INDICATED	2	CHECKED
			E. SILVA T. M. SILVA E. SILVA
DATE		RESPONSIBLE PROFESSIONAL	
APRIL 2019	NAME	PRO NUMBER	PRICE
	THOMAS BARTAZZA		4387152
APRIL 2019		DRAWING CO-ORDINATED	
	EDUARDO SILVA		PRICE
			4387152

[illegible]

A1	SIZE	CL200 SYSTEM	ArticAD	DRAWING NUMBER		REV	FILE NAME
				WCS:054120-A500-01			

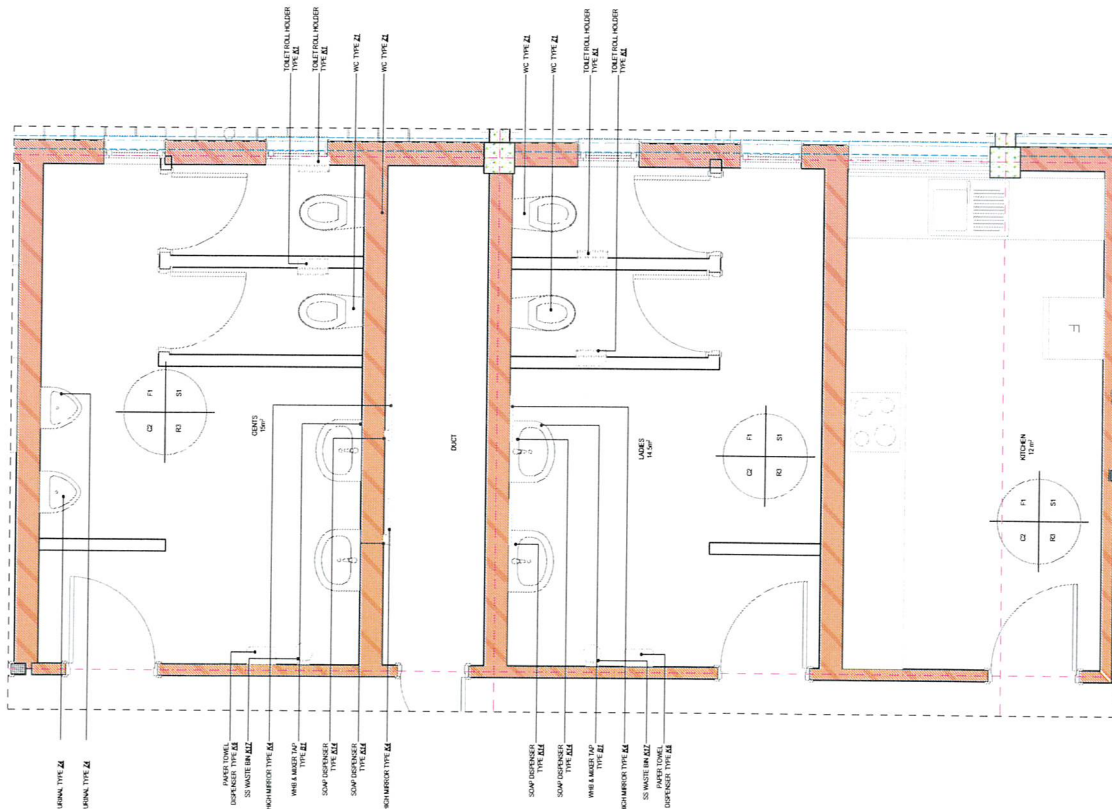


REF: 300/01
Scale 125



REF: 300/01
Scale 125

[illegible]



STAFF ABLUTION DETAILS SECTIONAL ELEVATION

Section 1.26
ACTION

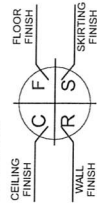
STAFF ABLUTION DETAILS LAYOUT

[illegible]

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
- DIMENSIONS TO BE READ : NOT TO BE SCALED FROM THIS DRAWING
- CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

LEGEND TO FINISHES



REVISIONS	
REVISION No	DATE :
DESCRIPTION:	



Department:
Public Works
REPUBLIC OF SOUTH AFRICA

INSTITUTION
COLLEGE OF EDUCATION

PROPOSED NEW OFFICE BUILDING

CONFIDENTIAL - SECTION

STAGE 4: TENDER DOCUMENTS

DISCUSSION

ARCHITECTURE

SCAPTION - SUB DIVISION

UNSELLING & SUPPORT

FILE No.	TIBA	ITEM No.
DESIGN	TECTURA INTERNATIONAL	DRAWING
SCALE	INDICATED	E.SANMARTÍN, BARRIO DE LA VILLA
		CHECKED BY
DATE	RESPONSIBLE PROFESSIONAL NAME	PEN NUMBER
APRIL 2019	THOMAS MARIAYZA	PRACA C-01712
APRIL 2019	EDUARDO SILVEIRA	PRACA



IRA - INTERNATIONAL

[illegible]

CONTRACTOR:

CARD	FILE	FILE
SIZE	NAME	REV
	AdxCAD	
	DRAWING NUMBER	
A1	WCS:054120-A500-02	
	#	

[illegible]

LOOR:

2. EXTERIOR PORCELAIN TILES/MATTI
100x300/6mm thick matt porcelain tile to comply with SANS 10400 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification. Fittings to include ribbed angle lites where there is change of level. Colour and

4. **CEMENT SCREED.**
10 mm thick polished cement sand screeds to comply with Government standard specifications.

1. INTERIOR PORCELAIN TILE SORTING
30mm wide x 100mm high x 10mm thick multi porcelain tile to comply with
AUS 1449 laid with approved adhesives and grout on 20mm thick
concrete in strict compliance to manufacturers instructions and SANS
3040 specification, with cover base and straight tops. Complete with
corner and lap trims. Fittings to include, raised angle lines where there is

3. HARDWOOD OR EQUIV. AND APPROVED.
 15" x 75mm x 20mm Moulded Hardwood Starting" to comply with SANS 1066, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1

5. GRANULITHIC FINISH
10 mm high x 20 mm thick hardened Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part aggregate that would pass through a 5mm mesh sieve, laid by specialist in bands not exceeding 10m², divided with approved brass dividing strips. All must be manufactured and installed in strict compliance to the latest SANS approved standards. Colour pattern and approximate size to be submitted

CERAMIC WALL TILES-FULL HEIGHT
 100mm x 300mm x 7mm thick glazed ceramic tiles to Comply with
 BS EN 12002 or Laid on 15 mm thick plaster prepared to
 receive wall tiles fixed with approved adhesives and grout in compliance to
 manufacturer's specifications and Government standard specifications.
 Tiles to be laid in full random pattern. All to be manufactured and inspected in
 accordance to manufacturer's test house.

Standard specifications laid from finish floor level to window level AND window sill level. All window openings shall be installed in strict compliance with the manufacturer's instructions. All window openings shall be installed in strict compliance to the latest SANS approved standards (Palm to Architects approval)

GYPSONUM SUSPENDED CEILING.
6'00mm (6.4mm) thick perforated gypsum ceiling boards to comply with SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

PLASTERED SOFFITS (SABS)
 mixed and painted 15mm thick smooth cement sand plaster render on all sides in accordance with specialists instructions and complying with SANS standards. Colour to be approved white.

STAIRCASE SEC₅

STAIR CASE RISER AND TREAD DETAIL

Scale 1:5

STAIRCASE HANDRAIL DETAIL

RAMP BALUSTRAID DETAIL
Scale 1/25

1

[illegible][illegible]

INSTITUTION

USED NEW OFFICE BUILDING

CONTRACT NO. 100-0000000000000000 PROJECT NO. 100-0000000000000000 SECTION NO. 100-0000000000000000 DRAWING NO. 100-0000000000000000	CONTRACTOR:
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[illegible]

DRAWING NUMBER	REV
	NAME

CS-054120-A800-01

1000

FINISHES LEGEND

1.1. INTERIOR PORCELAIN TILE (SANS 1449)

Porcelain tiles must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.2. EXTERIOR PORCELAIN TILE (SANS 1449)

Exterior tiles must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.3. CARPET

Carpet must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.4. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.5. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.6. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.7. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.8. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.9. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.10. GRANULITE FINISH

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1.11. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.12. GRANULITE FINISH

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1.13. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.14. GRANULITE FINISH

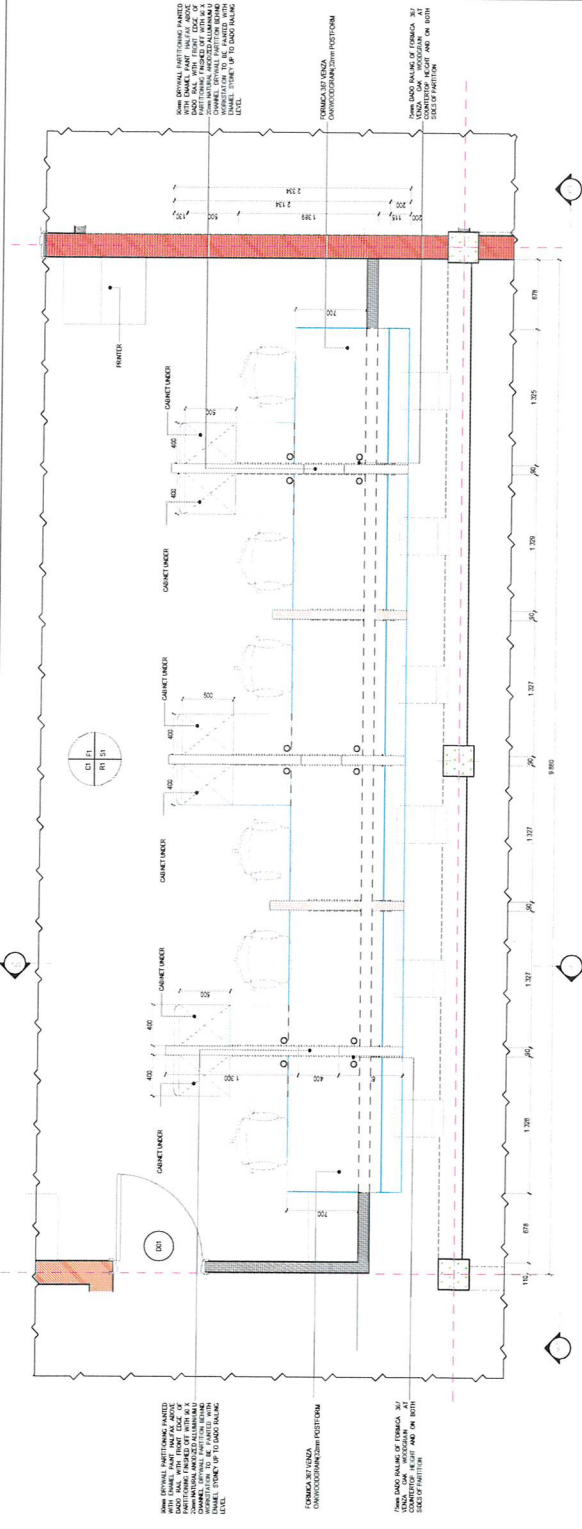
Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

1.15. GRANULITE FINISH

Granulite finish must comply with SANS 1449 and approved adhesive and grout on 20mm thick beds in strict compliance with the manufacturer's instructions and SANS specifications. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate. Tiles to be installed on a flat, clean, dry, and sound substrate.

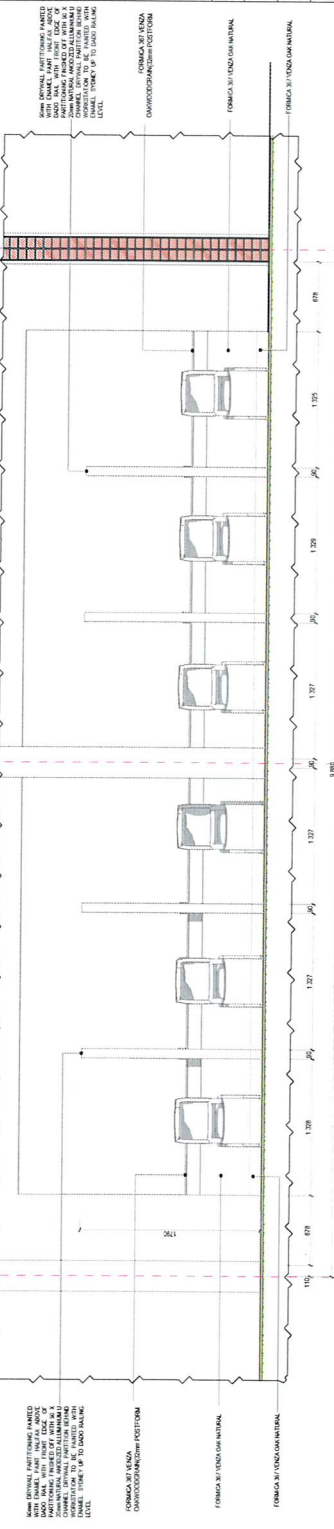
1.16. GRANULITE FINISH

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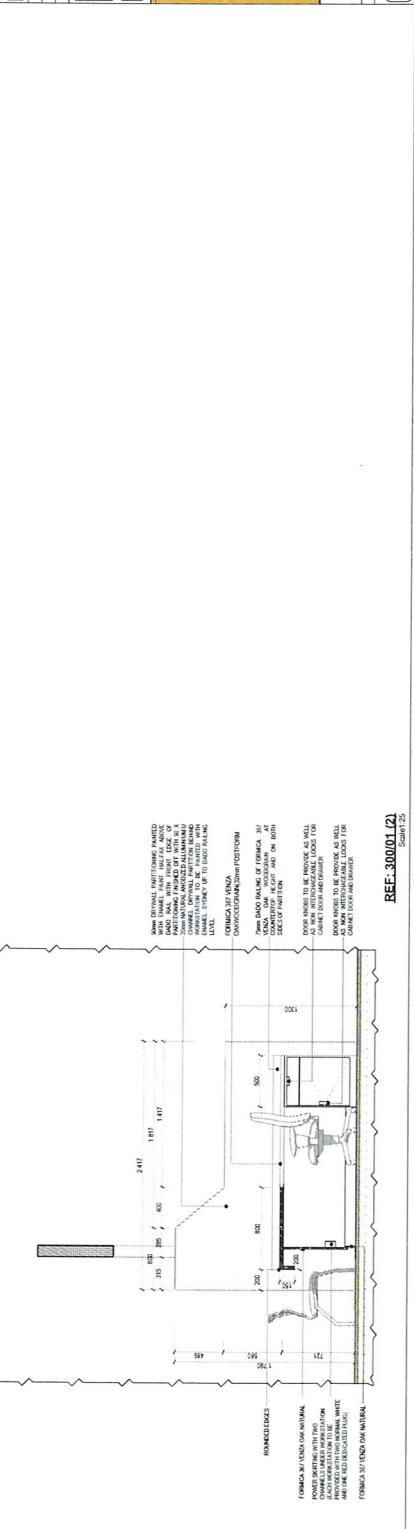
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Sheet 25



REF: 30001 (2)

Sheet 25



REF: 30001 (2)

Sheet 25

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
- DIMENSIONS TO BE READ: NOT TO BE SCALED FROM THIS DRAWING
- CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

LEGEND TO FINISHES

FLOOR FINISH

CEILING FINISH

WALL FINISH

SKIRTING FINISH

public works

Department of Public Works

REPUBLIC OF SOUTH AFRICA

STAGE 4: TENDER DOCUMENTS

PROJECT TYPE

4

WORK DESCRIPTION: TENDER DOCUMENTS

PROJECT DESCRIPTION

DATE: 15/01/2024

DESIGNER: T. M. M. M.

ARCHITECT: T. M. M. M.

ENGINEER: T. M. M. M.

PAINT: T. M. M. M.

ROOF: T. M. M. M.

STRUCTURE: T. M. M. M.

MECHANICAL: T. M. M. M.

ELECTRICAL: T. M. M. M.

PLUMBING: T. M. M. M.

HEATING: T. M. M. M.

Cooling: T. M. M. M.

Lighting: T. M. M. M.

Acoustics: T. M. M. M.

Security: T. M. M. M.

Fire: T. M. M. M.

Other: T. M. M. M.

CONTRACTOR

NAME: T. M. M. M.

ADDRESS: T. M. M. M.

CONTACT: T. M. M. M.

DATE: T. M. M. M.

PROJECT NUMBER: T. M. M. M.

WCS: 054120-A800-02

A1

CIVIL DRAWINGS

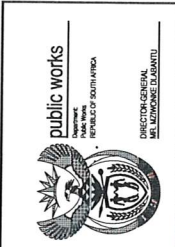
NO.	DATE	REVISION	BY
1	11/09/20	1. ALL LEVELS DIMENSIONS TO BE CHECKED & CONFIRMED ON SITE 2. ALL DRAWINGS TO BE IN CONFORMANCE WITH RELEVANT DRAWINGS	EM

NOTES:

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Department of Public Works

as per drawings

page no
A1

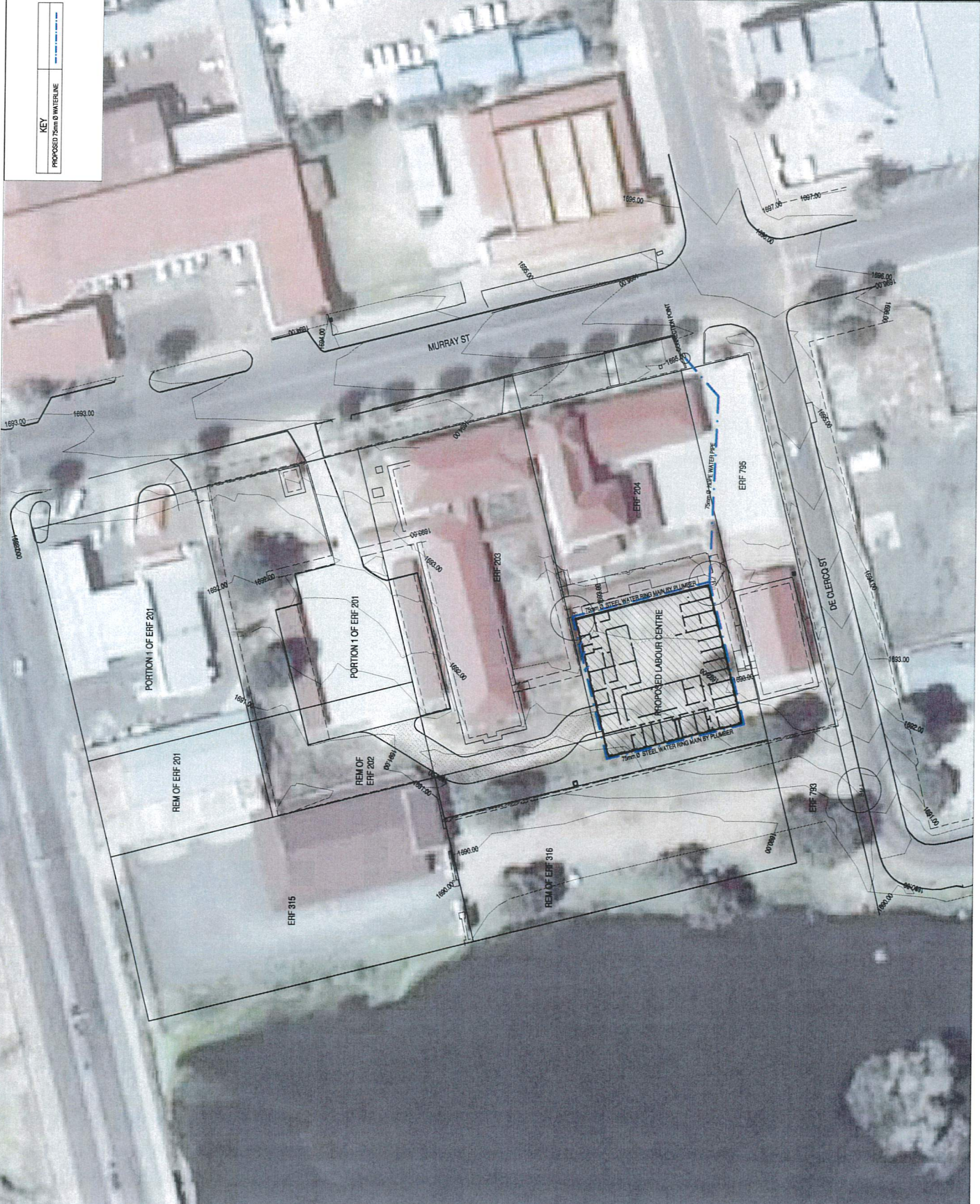


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30A EMERLO STREET
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TEL: +27 13 752 8478
Web: www.tmsconsulting.com
E-mail: info@tmsconsulting.co.za

client
EMERLO : DEPARTMENT OF LABOUR
CONSTRUCTION OF LABOUR CENTRE:

WCS number
054120
WATER LAYOUT
sheet no
1200
date
06/02/18
checked
C.T.P.
drawing number
C054120/02/1

KEY
PROPOSED 75mm Ø WATERLINE



[illegible]

NOTES

1. ALL LEVELS & DIMENSIONS TO BE CHECKED & CONFIRMED ON SITE
2. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT DRAWINGS

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date	_____	_____	_____
professional registration no.	_____	_____	_____

Card No	Card No Name	page type
1	1	A1



public works

Public Works
THE PUBLIC OF SOUTH AFRICA

DIRECTIONS-GENERAL
MIR MIZRANOFFE DI ADANTI

1



9A ELMHKE STREET
ELSAPRUIT 1201
TEL: +27 13 752 8475
E-mail: info@tmscons
Web: www.tmsconsulting.com

doi:10.1017/S0022292412001712

CIVIL

MERLO : DEPARTMENT OF LABOR

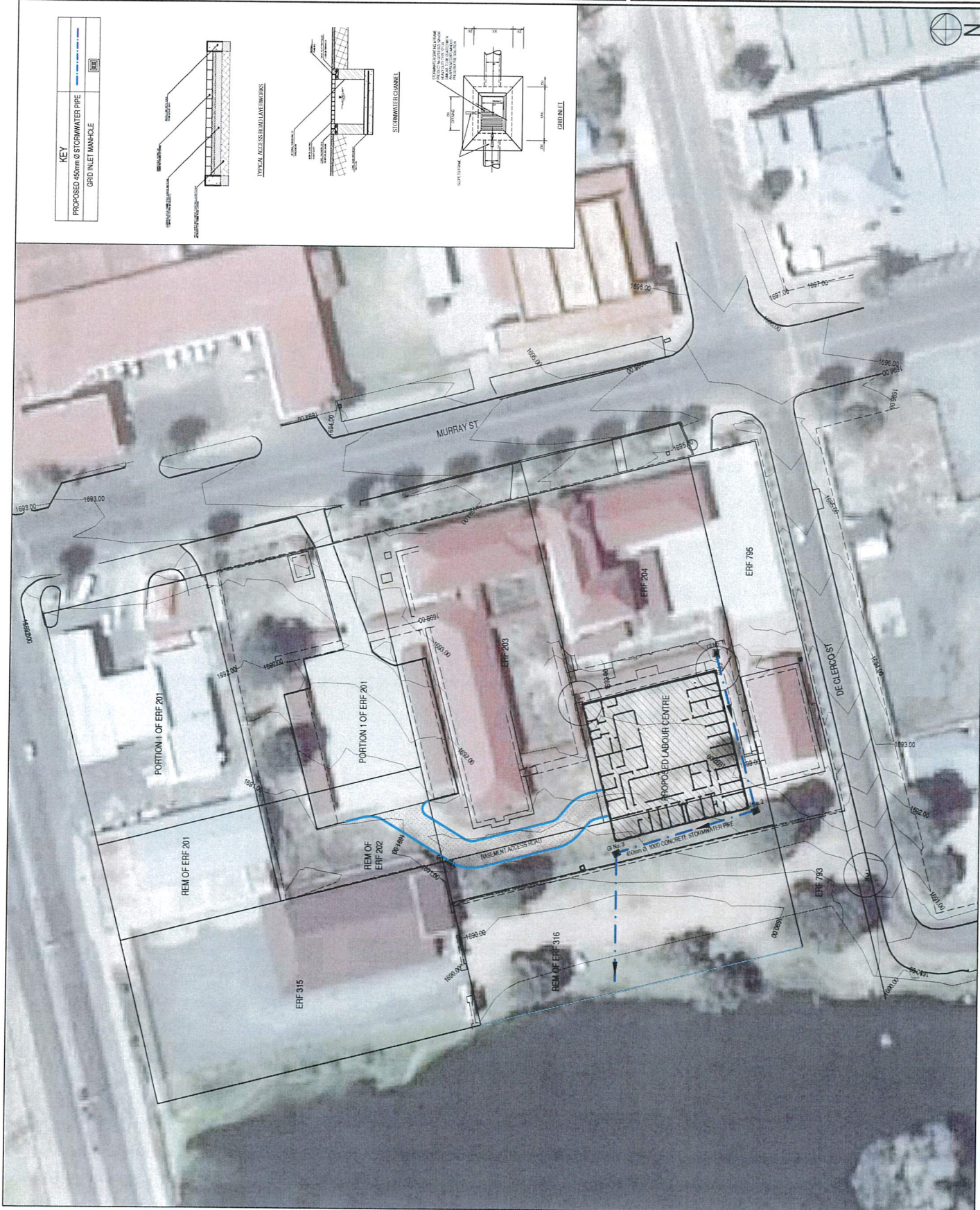
CONSTRUCTION OF LABOUR CENTRES

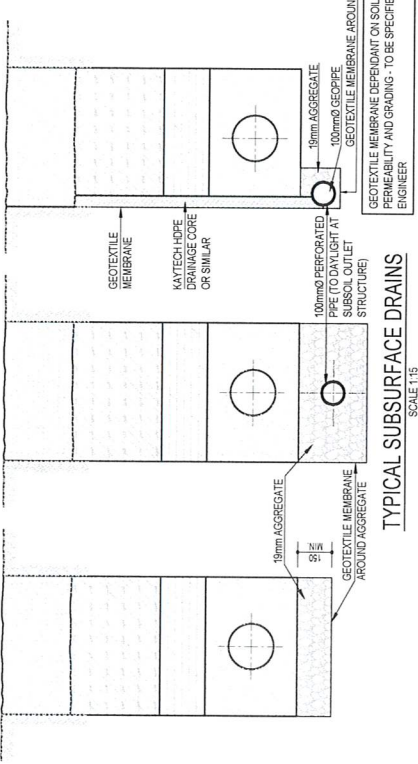
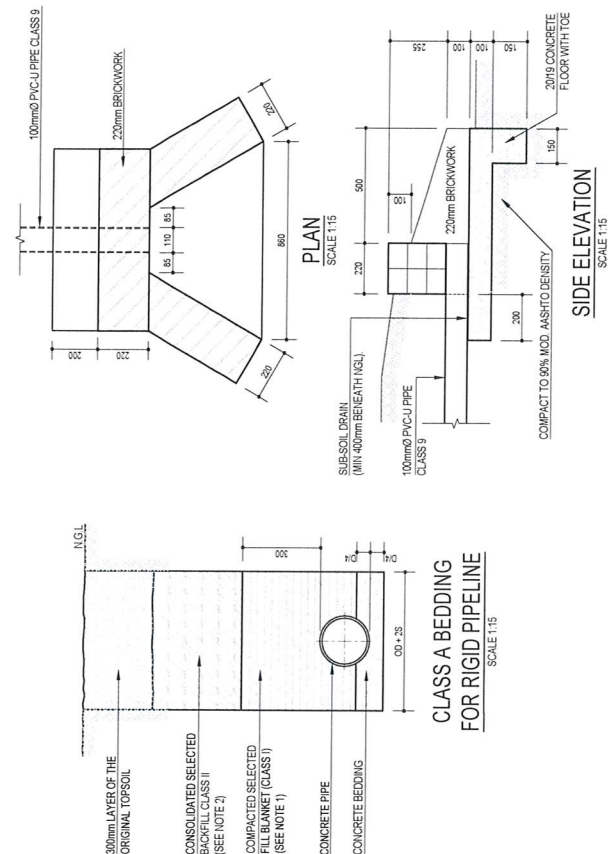
ACS number

STORMWATER, ACCESS ROAD LAYOUT TYPICAL LAYERWORKS & DETAILS

ed res.		
scale	1200	
date	04/20/18	

C054120/04





GEOTEXTILE MEMBRANE DEPENDANT ON SOIL
PERMEABILITY AND GRADING - TO BE SPECIFIED BY
ENGINEER

TYPICAL SUBSURFACE DRAINS

CLASS "A" BEDDING DETAIL

PIPE ENCASING DETAIL

NOTES:

- 4) CLASS "X" BEDDING /ENCASING CONCRETE BETWEEN JOINTS SHALL BE CARRIED OUT IN ONE CONTINUOUS OPERATION USING CLASS 20/19
- 5) FLEXIBLE JOINTS MUST BE CONCRETE BEDDING / PPE JOINT CLASS "X" CONCRETE BEDDING / ENCASING WITH A 12mm THICK CONCRETE PLACED VERTICALLY FOR THE ENTIRE CONCRETE AREA. PPE JOINTS MUST BE SEALED WITH A WET SLUSH TO PREVENT SLUSH FROM PENETRATING THE JOINT.
- 6) EXCEPT FOR THE 300mm BACKFILL ON THE TOP OF THE PPE, THE BALANCE OF THE TRENCH MAY BE BACKFILLED WHEN THE CLASS "X" BEDDING / ENCASING HAS OBTAINED THE COMPRESSIVE STRENGTH OF 15MPa

[illegible]

No.	DATE	AMENDMENT	BY

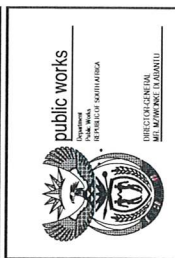
NOTES:
 1. ALL LEVELS ARE INDICATED TO THE CLASSED & COMPLETED SURFACE.
 2. ALL DIMENSIONS TO THE EXTERIOR UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS TO THE INTERIOR UNLESS OTHERWISE SPECIFIED.

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 TEL: +27 13 732 4478
 Web: www.dpworks.gov.za
 Email: info@dpworks.gov.za

name: _____
 date: _____
 professional registration no.: _____
 contract no.: _____
 sheet no.: _____
 of _____
 A 2

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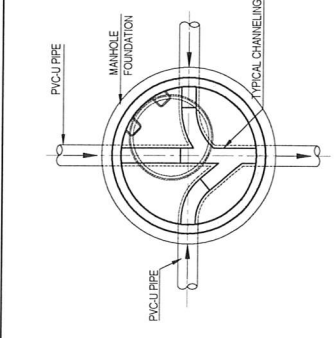
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 professional registration no.: _____
 contract no.: _____
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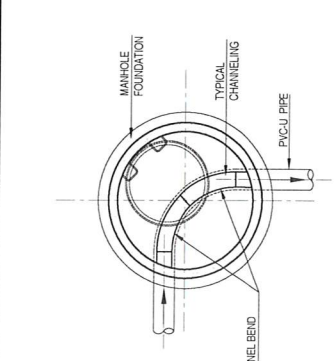
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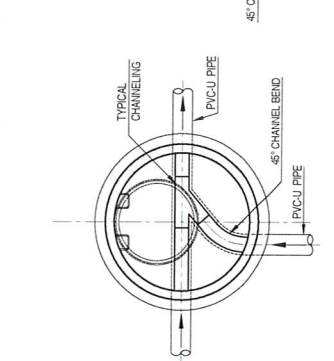
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 sheet no.: _____
 of _____
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PLAN
 (TYPICAL EXAMPLE OF SIDE CONNECTIONS IN MANHOLE)
 SCALE 1:25

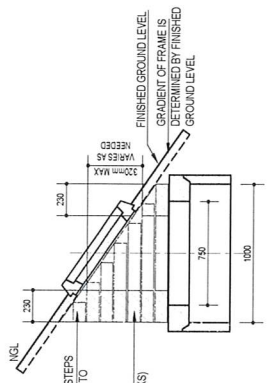


PLAN
 (TYPICAL EXAMPLE OF 90° BEND IN MANHOLE)
 SCALE 1:25



PLAN
 (TYPICAL EXAMPLE OF THROUGH CONNECTION IN MANHOLE)
 SCALE 1:25

TYPICAL MANHOLE LAYOUTS SHOWING POSITIONS OF MANHOLE FRAME, STEPS AND CHANNELING

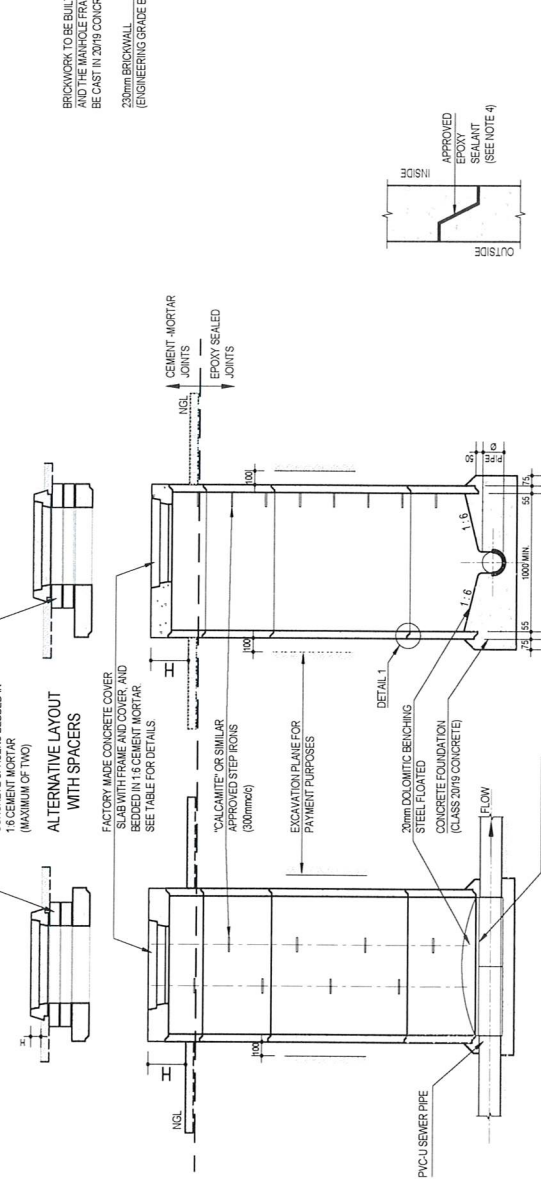
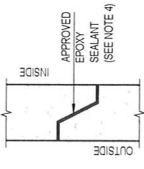


TYPICAL SECTION
 BUILT IN MANHOLE FRAME AT
 FINISHED SLOPED SIDEWALKS
 SCALE 1:25

(WITH WRITTEN PERMISSION FROM THE ENGINEER ONLY)

NOTES:

- 1) CONCRETE FOR MANHOLES MUST BE OF DOLOMITIC ORIGIN.
- 2) TYPICAL VALUES FOR H:
 H = 50 - 75mm WITHIN KERB AND ROAD RESERVES
 = 250mm LOW COST HOUSING DEVELOPMENTS
 = 500mm OPEN VELD OR ROAD RESERVES WHERE UNDEFINED ROADWAYS
- 3) CHANNELING:
 POSITION OF MANHOLES CAN BE CONCEALED BY GRASS OR OTHER GROWTH.
 NOMINAL DIAMETERS
 Ø ≤ 300mm CLAY OR DOLOMITIC CONCRETE OR NUTEC CEMENT
 Ø > 300mm INSTU CAST DOLOMITIC CONCRETE
- 4) CONCRETE MANHOLE SECTIONS MUST BE FIXED WITH AN EPOXY SEALER SUCH AS EPOXYMAX 344 OR PRO STRUCT 887 OR SIMILAR APPROVED
- 5) EACH OF THE MANHOLE SECTIONS MUST BE CORROSION PROTECTED BY AN EPOXY SEALER
- 6) MANHOLE FRAMES MAY ONLY BE BUILT IN ON SLOPED FINISHED SIDEWALKS OR VIA WRITTEN INSTRUCTION BY THE ENGINEER
- 7) OVER EXCAVATION MAY ONLY BE FILLED AFTER APPROVAL BY THE ENGINEER WITH GRADE 2019 CONCRETE OR SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER
- 8) NO PART OF THE MANHOLE MAY BE FINISHED OFF WITH CEMENT WASH OR MORTAR



- 1) CONCRETE FOR MANHOLES MUST BE OF DOLOMITIC ORIGIN.
- 2) TYPICAL VALUES FOR H:
 H = 50 - 75mm WITHIN KERB AND ROAD RESERVES
 = 250mm LOW COST HOUSING DEVELOPMENTS
 = 500mm OPEN VELD OR ROAD RESERVES WHERE UNDEFINED ROADWAYS
- 3) CHANNELING:
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 NOMINAL DIAMETERS
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- 5) EACH OF THE MANHOLE SECTIONS MUST BE CORROSION PROTECTED BY AN EPOXY SEALER
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- 7) OVER EXCAVATION MAY ONLY BE FILLED AFTER APPROVAL BY THE ENGINEER WITH GRADE 2019 CONCRETE OR SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER
- 8) NO PART OF THE MANHOLE MAY BE FINISHED OFF WITH CEMENT WASH OR MORTAR

C054120/07



ANCHOR BLOCKS ON SLOPES STEEPER THAN 1:10



NOTES	1. ALL LEVELS AND DIMENSIONS TO BE CHECKED & CONFIRMED ON SITE 2. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT DRAWINGS
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on bond summary

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*confined on bond summary as per Consolidated Summary
Notice AS-0108-1 (10/04/06) [EQA 0018 MB 0015]*

name _____

date _____

professional registration no. _____



public works

Department
of Public Works
REPUBLIC OF SOUTH AFRICA

EDUCATION GENIEVAL
MIL. MONTROISE 13 JANUARI

service
EMERLO : DEPARTMENT OF LABOUR
CONSTRUCTION OF LABOUR CENTRE:

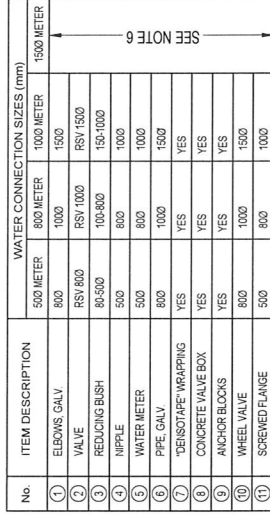
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drawing title	STANDARD DRAWING; SEWER ANCHOR BLOCKS AND RODDING EYE
ref. no.	designed E.M.
scale	drawn E.M.
date	checked C.T.P.
drawing number	

C054120/09



NOTES:
1. ALL LEVELS & DIMENSIONS TO BE CHECKED & CONFIRMED ON SITE
2. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH RELEVANT DRAWINGS

Type & size	Qty.	Out Length mm	Form Code	A mm	B mm	Mass kg
R8	1	1 420	60	300	300	0.553



MUNICIPAL VALVE

Dimensions: 450, 16, 121.5, 16, 121.5, 175, 16, 121.5, 16, 121.5.

Labels: CONCRETE COLLAR, 200mmØ uPVC PIPE, WELL, COMPACTED BACKFILL, 150mmØ uPVC PIPE, BRICKS, SOILCRETE, R8 REBAR CAST IN PLACE VALVE BOX, NGL.

ISOLATION VALVE

Label: ONLY FITTED IF PIPE Ø ≤ 150mmØ.

Labels: ANCHOR BLOCK, FLOW DIRECTION.

Flow direction arrows are shown on the right side of the diagram.

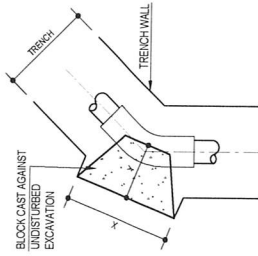
No.	DATE	AMENDMENT	DP
Copyright used in the Department of Public Works as-built drawings _____ certified as-built drawings as per Contrasted Drawing Act/Act 105-BUILD DRAWING REQUIREMENTS name: _____ date: _____ professional registration no.: _____ cad file name: _____ page type: A1			
public works Department of Public Works REPUBLIC OF SOUTH AFRICA DIRECTOR GENERAL MR. YONISSE DUBANTU			
consultant 39A EMME STREET NELSPRUIT 1201 Web: www.tmsconsulting.com P.O. Box 620 NELSPRUIT 1200 TEL: +27 13 752 8478 E-mail: info@tmsconsulting.co.za			
discipline: CIVIL service: _____ EMERLO : DEPARTMENT OF LABOUR CONSTRUCTION OF LABOUR CENTRE:			
WCD number: 054120 drawing size: _____ STANDARD DRAWING: WATER PIPE THRUST BLOCKS ref no.: _____ designed TC scale: AS SHOWN drawn EM date: 11/02/17 checked: CTP drawing number: _____			

C054120/12

C054120/12

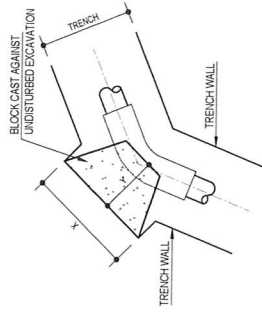
CONCRETE THRUST BLOCKS

- * UNDESIRABLE SAND, GROUND MIXTURES OR DEBRIS
- * UNIFORM SAND WITH A BEARING CAPACITY OF AT LEAST 150kPa
- * UNSUBMERGED CONDITIONS
- * MAXIMUM INTERNAL PIPE PRESSURE OF 18 Bar
- * USE 10 MPa CONCRETE
- * 3/4" THE DEPTH OF THE THRUST BLOCK TO BE PLACED BELOW THE PIPE AXIS
- * KEEP CONCRETE AWAY FROM THE COUPLINGS & THE PIPE JOINTS
- * THRUST BLOCKS FOR PIPE Ø LARGER THAN 300mm & HIGHER TEST PRESSURES THAN 18 BAR SHALL BE DESIGNED BY THE ENGINEER
- * THRUST BLOCKS AT PUDDLE FLANGES SHALL BE REINFORCED & DESIGNED BY THE ENGINEER



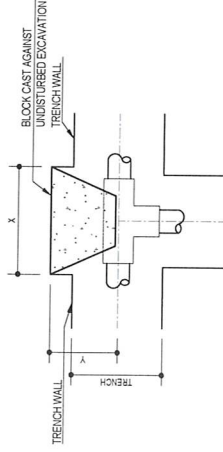
THRUST BLOCK FOR 45° BEND

NOMINAL PIPE DIAMETER e	AREA REQUIRED mm ²	DIMENSIONS (mm)						AREA PROVIDED mm ²	VOL (m ³)
		D	X	X	X	Y	Y		
100	0.951	600	600	600	600	725	0.190	0.040	
150	2.019	900	900	900	900	500	0.250	0.060	
200	3.142	1,000	500	1,000	500	1,000	0.500	0.120	
250	4.418	1,000	500	1,000	500	1,000	0.750	0.180	
300	5.890	1,300	650	1,300	650	2,000	1.300	0.300	
350	7.550	1,300	650	2,000	1,300	2,000	1.300	0.300	
400	9.396	1,600	800	2,500	1,600	2,500	1.600	0.400	
450	11.424	1,600	800	2,500	1,600	2,500	1.600	0.400	
500	13.633	1,900	950	3,000	1,900	3,000	1.900	0.475	
550	16.021	1,900	950	3,000	1,900	3,000	1.900	0.475	
600	18.588	2,200	1,100	3,500	2,200	3,500	2.200	0.550	
650	21.333	2,200	1,100	3,500	2,200	3,500	2.200	0.550	
700	24.256	2,500	1,250	4,000	2,500	4,000	2.500	0.625	
750	27.357	2,500	1,250	4,000	2,500	4,000	2.500	0.625	
800	30.636	2,800	1,400	4,500	2,800	4,500	2.800	0.700	
850	34.092	2,800	1,400	4,500	2,800	4,500	2.800	0.700	
900	37.725	3,100	1,550	5,000	3,100	5,000	3.100	0.775	
950	41.534	3,100	1,550	5,000	3,100	5,000	3.100	0.775	
1,000	45.519	3,400	1,700	5,500	3,400	5,500	3.400	0.850	
1,050	49.680	3,400	1,700	5,500	3,400	5,500	3.400	0.850	
1,100	54.016	3,700	1,850	6,000	3,700	6,000	3.700	0.925	
1,150	58.527	3,700	1,850	6,000	3,700	6,000	3.700	0.925	
1,200	63.212	4,000	2,000	6,500	4,000	6,500	4.000	1.000	
1,250	68.071	4,000	2,000	6,500	4,000	6,500	4.000	1.000	
1,300	73.104	4,300	2,150	7,000	4,300	7,000	4.300	1.075	
1,350	78.311	4,300	2,150	7,000	4,300	7,000	4.300	1.075	
1,400	83.692	4,600	2,300	7,500	4,600	7,500	4.600	1.150	
1,450	89.247	4,600	2,300	7,500	4,600	7,500	4.600	1.150	
1,500	94.976	4,900	2,450	8,000	4,900	8,000	4.900	1.225	
1,550	100.879	4,900	2,450	8,000	4,900	8,000	4.900	1.225	
1,600	106.956	5,200	2,600	8,500	5,200	8,500	5.200	1.300	
1,650	113.198	5,200	2,600	8,500	5,200	8,500	5.200	1.300	
1,700	119.605	5,500	2,750	9,000	5,500	9,000	5.500	1.375	
1,750	126.177	5,500	2,750	9,000	5,500	9,000	5.500	1.375	
1,800	132.914	5,800	2,900	9,500	5,800	9,500	5.800	1.450	
1,850	139.815	5,800	2,900	9,500	5,800	9,500	5.800	1.450	
1,900	146.880	6,100	3,050	10,000	6,100	10,000	6.100	1.525	
1,950	154.109	6,100	3,050	10,000	6,100	10,000	6.100	1.525	
2,000	161.500	6,400	3,200	10,500	6,400	10,500	6.400	1.600	
2,050	169.054	6,400	3,200	10,500	6,400	10,500	6.400	1.600	
2,100	176.772	6,700	3,350	11,000	6,700	11,000	6.700	1.675	
2,150	184.645	6,700	3,350	11,000	6,700	11,000	6.700	1.675	
2,200	192.673	7,000	3,500	11,500	7,000	11,500	7.000	1.750	
2,250	200.856	7,000	3,500	11,500	7,000	11,500	7.000	1.750	
2,300	209.194	7,300	3,650	12,000	7,300	12,000	7.300	1.825	
2,350	217.687	7,300	3,650	12,000	7,300	12,000	7.300	1.825	
2,400	226.335	7,600	3,800	12,500	7,600	12,500	7.600	1.900	
2,450	235.138	7,600	3,800	12,500	7,600	12,500	7.600	1.900	
2,500	244.096	7,900	3,950	13,000	7,900	13,000	7.900	1.975	
2,550	253.209	7,900	3,950	13,000	7,900	13,000	7.900	1.975	
2,600	262.477	8,200	4,100	13,500	8,200	13,500	8.200	2.050	
2,650	271.899	8,200	4,100	13,500	8,200	13,500	8.200	2.050	
2,700	281.476	8,500	4,250	14,000	8,500	14,000	8.500	2.125	
2,750	291.207	8,500	4,250	14,000	8,500	14,000	8.500	2.125	
2,800	301.092	8,800	4,400	14,500	8,800	14,500	8.800	2.200	
2,850	311.131	8,800	4,400	14,500	8,800	14,500	8.800	2.200	
2,900	321.324	9,100	4,550	15,000	9,100	15,000	9.100	2.275	
2,950	331.671	9,100	4,550	15,000	9,100	15,000	9.100	2.275	
3,000	342.172	9,400	4,700	15,500	9,400	15,500	9.400	2.350	



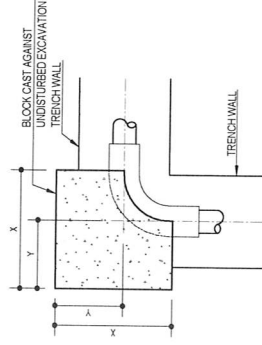
THRUST BLOCK FOR 22½° BEND

NOMINAL PIPE DIAMETER ø (mm)	AREA REQUIRED mm ²	SCALE 1:10					AREA PROVIDED mm ²	VOL. (m ³)
		D	Z	X	Y			
125	0.0581	800	400	400	200	0.1600	0.032	
150	0.104	1000	500	500	250	0.2500	0.050	
200	0.174	1000	500	500	250	0.2500	0.050	
250	0.270	1200	600	600	300	0.3600	0.072	
300	0.344	1400	700	700	350	0.4250	0.085	
350	0.486	1600	800	800	400	0.5600	0.112	
400	0.656	1800	900	900	450	0.7200	0.144	



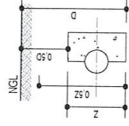
THRUST BLOCK FOR TEE-PIECE

TOWHAIN PIPE DIAMETER ø (mm)	AREA REQUIRED mm ²	DIMENSIONS (mm)				Y	AREA PROVIDED mm ²	VOL (m ³)
		D	Z	X				
75	0.980	800	400	400	200	0.160	0.032	0.003
100	1.571	1,000	500	500	250	0.250	0.063	0.005
150	0.318	1,000	500	500	250	0.250	0.063	0.005
200	0.395	1,200	600	1,000	500	0.500	0.300	0.040
250	0.883	1,300	650	1,400	700	0.910	0.560	0.074
300*	1.772	1,400	700	1,500	950	1.330	0.824	0.125



THRUST BLOCK FOR 90° BEND

TOWNTON PIPE DIAMETER mm	AREA REQUIRED m ²	DIMENSIONS (mm)				AREA PROVIDED m ²	VOL (m ³)
		D	Z	X	Y		
75	0.113	600	400	450	275	0.18	0.065
100	0.201	1,000	500	500	250	0.25	0.100
150	0.353	1,500	750	750	300	0.42	0.165
200	0.632	2,000	1,000	1,000	500	0.50	0.200
250	0.983	2,500	1,250	1,250	600	0.60	0.240
300	1.254	3,000	1,500	1,500	1,000	1.30	0.266
350	1.606	3,500	2,000	2,000	1,000	1.80	0.300
400	2.006	4,000	2,500	2,500	1,250	2.10	0.363



TYPICAL SECTION

D/P W		AMENDMENT	
No.	DATE		
		Copyright vests in the Department of Water Affairs	
as-built drawings		certified as-built drawings as per Christened Drawing ANSWER AS-BUILT DRAWING REQUIREMENTS	
name:		date:	
professional registration no.:			
cad file name		page type A1	
 public works Department Public Works REPUBLIC OF SOUTH AFRICA DIRECTOR GENERAL MIL MOKGOSWE (B.AUTU)		 consultant P.O. Box 603, NELSPRUIT 1201 TEL. +27 13 752 6478 Web www.tmsconsulting.com E-mail info@tmsconsulting.co.za	
		discipline CIVIL	
		service	
EMERLO - DEPARTMENT OF LABOUR		CONSTRUCTION OF LABOUR CENTRE:	
WCD number		054120	
Drawing title		STANDARD DRAWING : WATER PIPE THRUST BLOCKS	
ref no. :		designed TC	
scale AS SHOWN		drawn EM	
date 11/03/17		checked CTP	
drawing number			

C054120/12

ELECTRICAL DRAWINGS

PRELIM	WORK NUMBER	654120	UPPER GROUND LIGHTING LAYOUT	DATE	
	DRAWING TITLE			DESIGNED	
				CHECKED	
				SCALE	
				1:50	
				DATE	
				03/03/05	DK
				201-948505	
				drawing number	
				140001-02-100-001	
				REVISION	B



SCALE 1:50

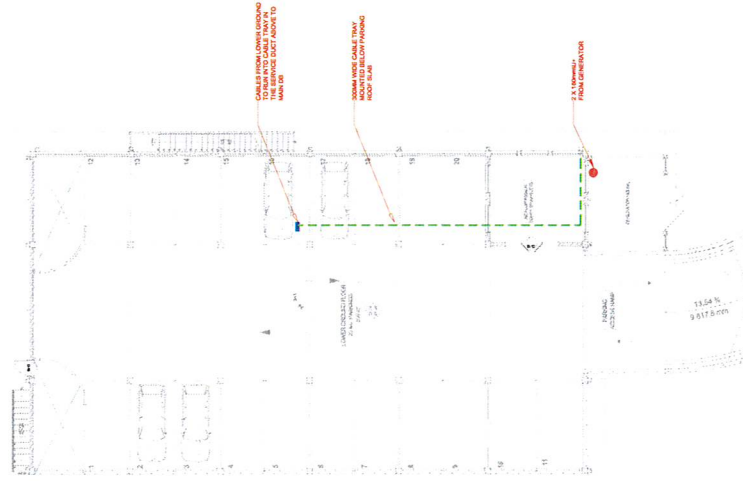
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CONTAINER TITLE	
UPPER GROUND SMALL POWER LAYOUT	
REF ID#	CONTAINER NAME
FILE NAME	DATE
DATA	CHECKED BY
20160805	
Inventory Number:	REVISION
140001-02-100-903	B



SCALE 1:50

[illegible]

SCALE 1:50



REV	DATE	BY	DESCRIPTION
1	01/01/01	XXX	INITIAL RELEASE
2	01/01/01	XXX	INITIAL RELEASE

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CAO FILE NUMBER
ELECT - EE10491 - 011



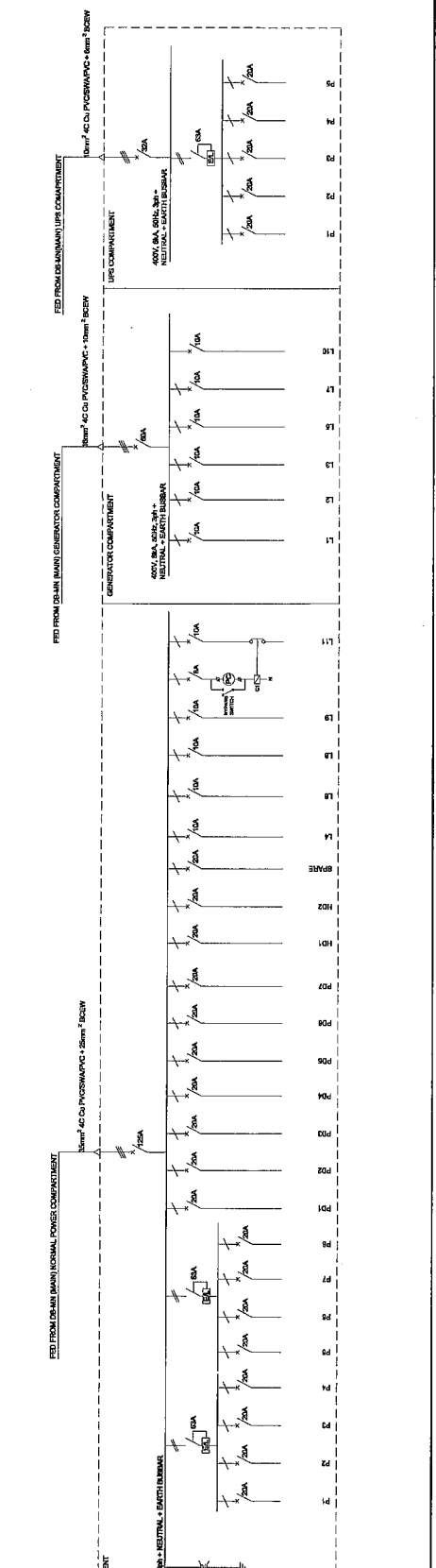
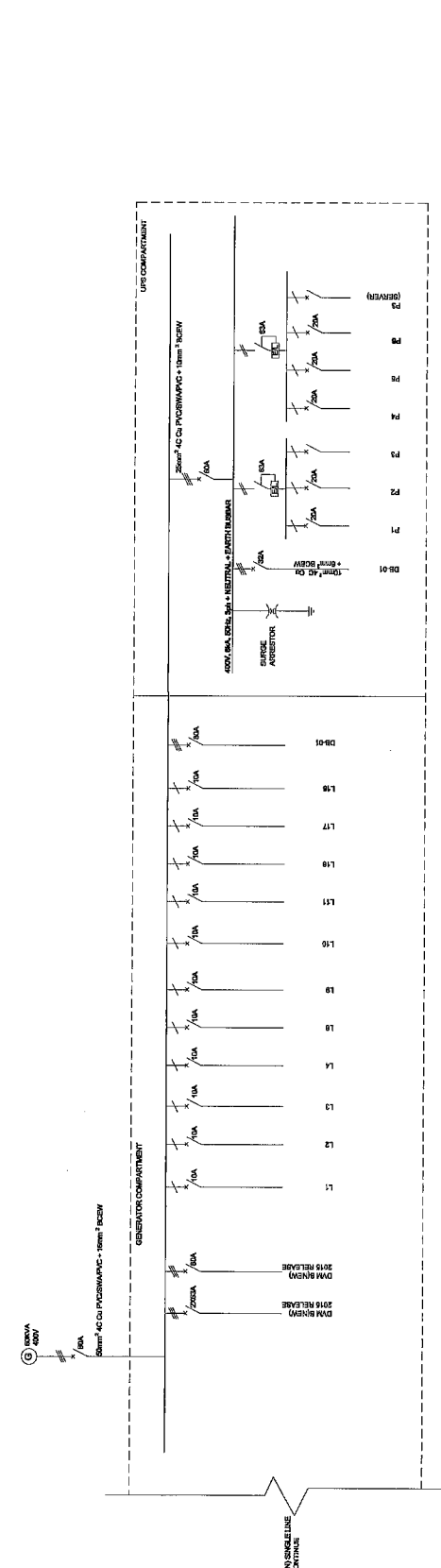
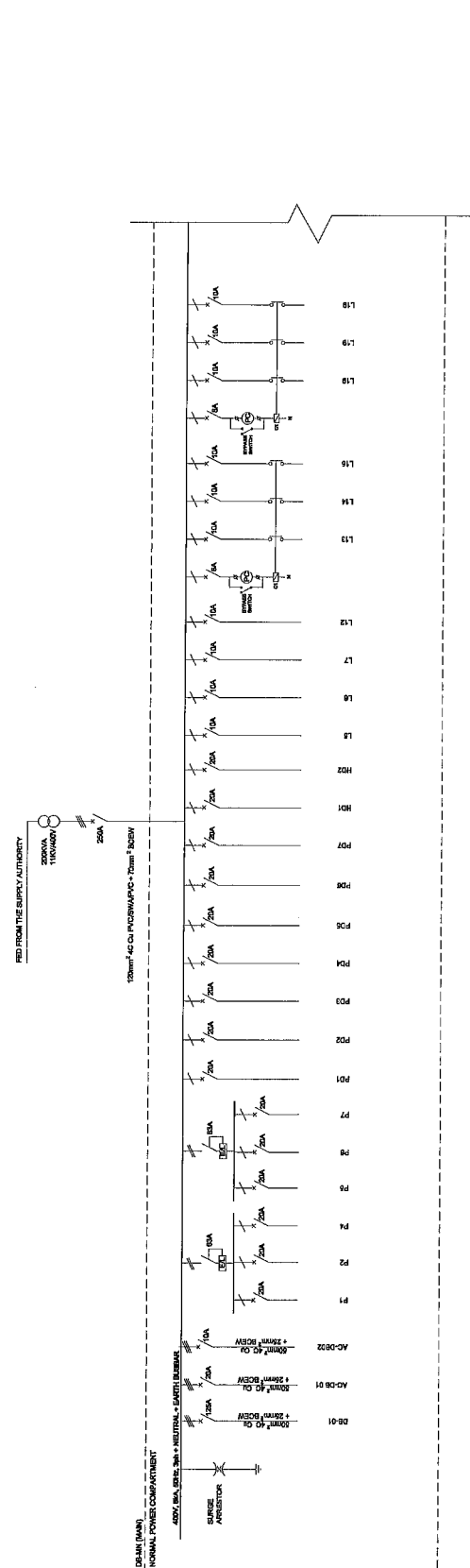
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UPPER AND LOWER GROUND FLOOR PLAN TRUNKING LAYOUT	
REF. NO.	CONTAINER
SCALE	1:150
DATE	20/08/05
Drawing number	1400001-02-100-004
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LEGEND	SYMBOL	DESCRIPTION
		POWER TRANSFORMER
		THREE PHASE CIRCUIT BREAKER
		SINGLE PHASE CIRCUIT BREAKER
		ISOLATOR
		SWITCH
		GENERATOR
		CABLE TERMINATION
		EARTH

REVISION	NO.	DATE	BY	CHKD.
1	1	10/01/2010	10/01/2010	10/01/2010

public works
DIRECTOR GENERAL
OF PUBLIC WORKS
JALORANG, SURABAYA

ERNELO LABOUR CENTER
PROJECT
ELECTRICAL
DRAWING NO. 044120
SINGLE LINE DIAGRAMS
140001-02-100-006
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[illegible]

ERMELLO LABOUR CENTER

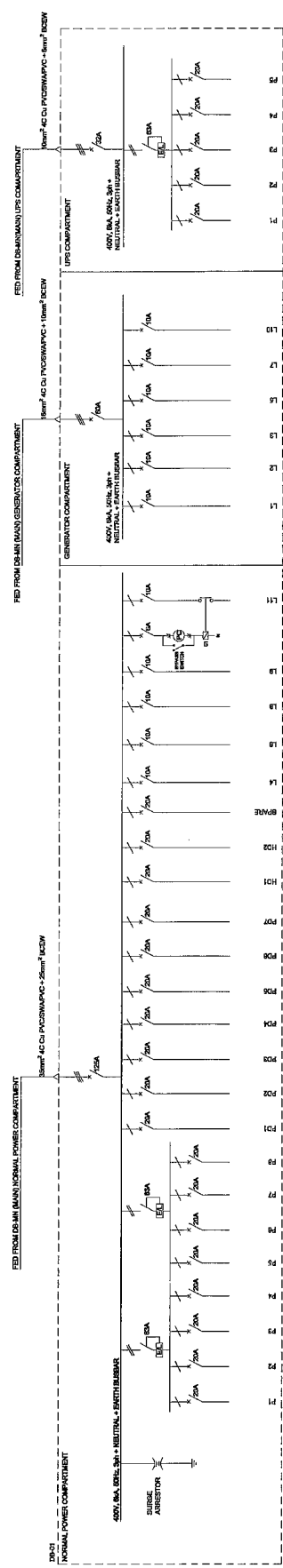
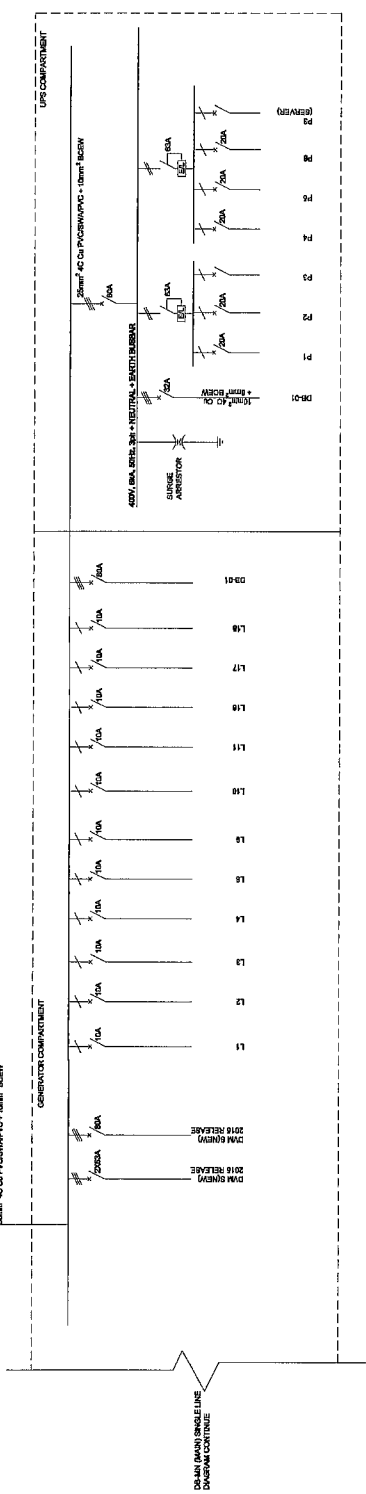
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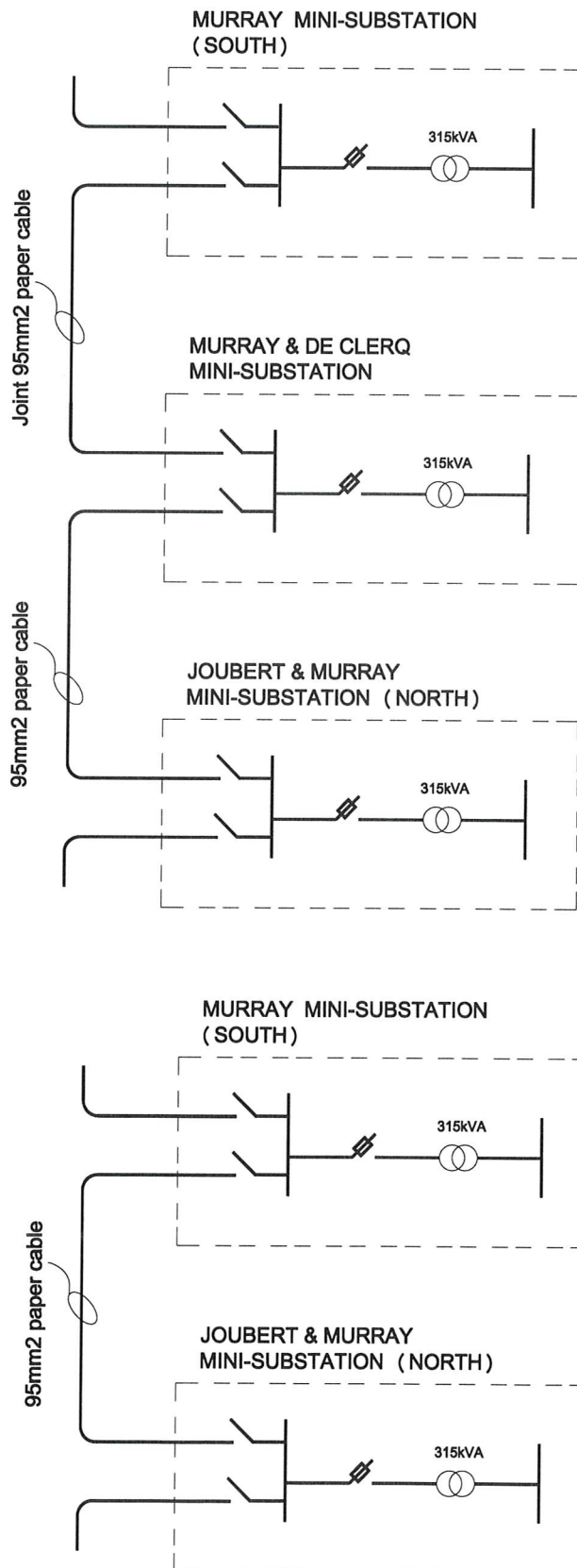
DB - SINGLE LINE DIAGRAMS

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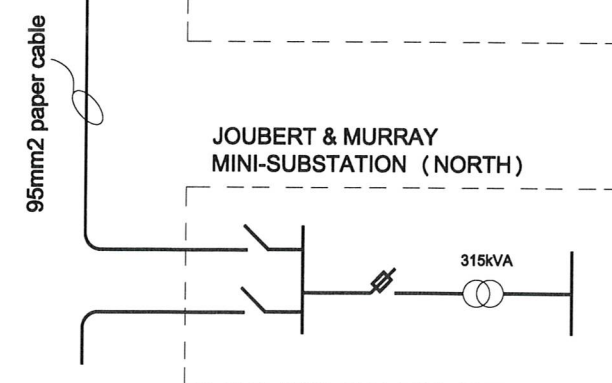
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2-100-005 A



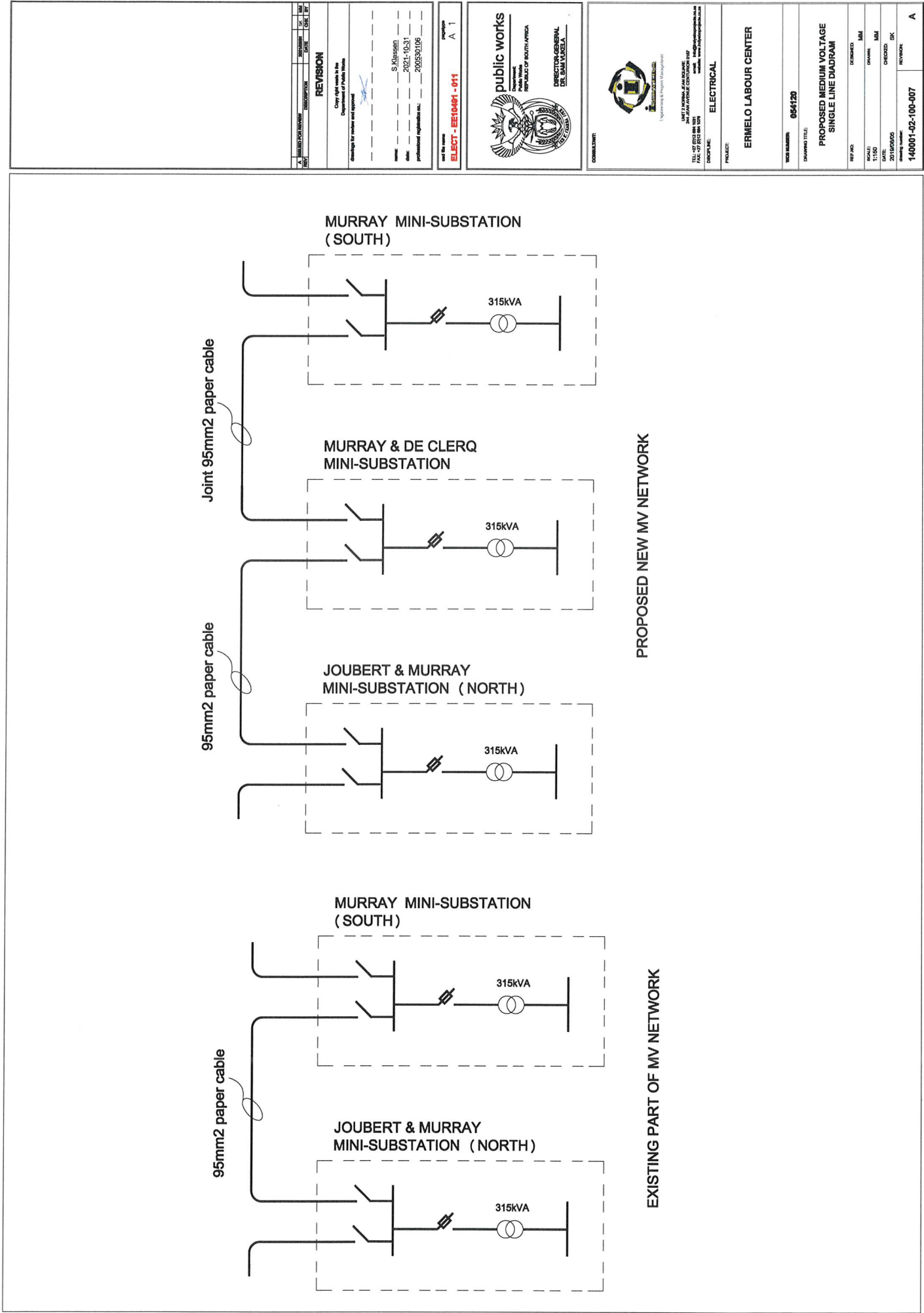


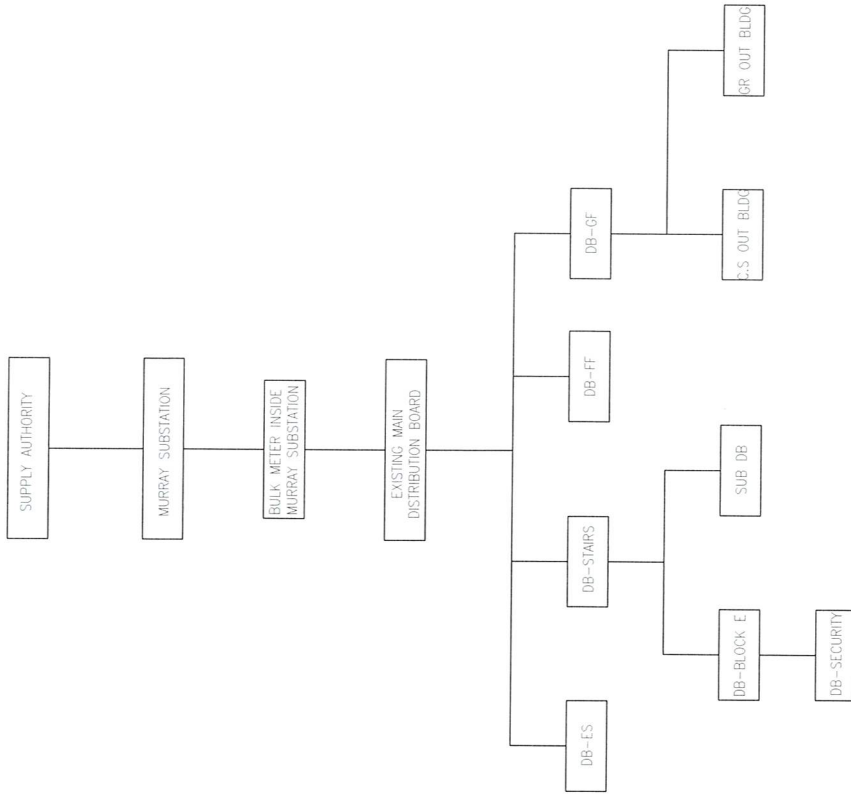
PROPOSED NEW MV NETWORK



EXISTING PART OF MV NETWORK

REVISION Copy right vests in the Department of Public Works Drawings for review and approval Name: _____ Date: _____ Professional registration no.: _____		Drawn by: _____ Checked by: _____ Date: _____ Scale: _____ Drawing number: _____
public works Department of Public Works REPUBLIC OF SOUTH AFRICA DIRECTOR GENERAL DR. SAM MASELA		CONSULTANT  1000001-02-100-007
PROJECT: ELECTRICAL PREPARED BY: _____ CHECKED BY: _____ DATE: _____ SCALE: _____ DRAWING NUMBER: _____		PROJECT: ELECTRICAL PREPARED BY: _____ CHECKED BY: _____ DATE: _____ SCALE: _____ DRAWING NUMBER: _____
WORK NUMBER: 065120 DRAWING TITLE: PROPOSED MEDIUM VOLTAGE SINGLE LINE DIAGRAM		REF. JAC: _____ SCALE: 1:100 DATE: 2011/06/05 DRAWING NUMBER: 1400001-02-100-007





REV	REVISION	DATE	BY
1	ISSUED FOR INFORMATION	2011/06/05	MM

REVISION

Copyright reserved
Department of Public Works

Drawing for information

NAME: _____
DATE: _____
PROFESSIONAL REGISTRATION NO.: _____

ISSUED FOR INFORMATION
ELECT - EE10491 - 011
A 1



PROJECT: **ELECTRICAL**
PRODUCT: **ERMIELO LABOUR CENTER**
DRAWING NUMBER: **054120**
DATE: 2011/06/05
BY: MM
CHECKED: SK
DRAWN: MM

WORK NUMBER: **054120**
DRAWING TITLE: **EXISTING SITE PLAN LOW VOLTAGE SINGLE LINE DIAGRAM**

REVISION: **A**
DRAWING NUMBER: **140001-02-100-008**

MURRAY & DE CLERQ
SUBSTATION (NEW)

RELOCATED BULK
METER

NEW KIOSK (K1)

G
150kVA

AMF 260A

EXISTING MAIN
DISTRIBUTION BOARD

GENERATOR
KIOSK

DB-UPS

DB-MAIN

SUB - DB

AC-DB-01

AC-DB-02

NO.	REVISION	DESCRIPTION	DATE	BY	APP.
1					

REVISION

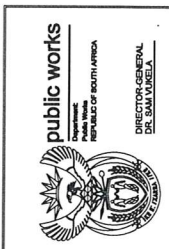
Copy right vests in the
Department of Public Works

Drawings for review and approval

NAME: S. Klemm
DATE: 2021-10-31
PROFESSIONAL REGISTRATION NO.: 200550109

Call the name
ELECT - EE10491 - 011

Page No.
A 1

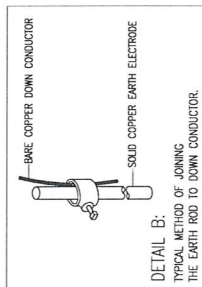


public works
Department of Public Works
REPUBLIC OF SOUTH AFRICA
DIRECTOR-GENERAL
DR. SAM VOSOLA

ERMIELO LABOUR CENTER

UNIT 2 NORMAL JUAN KILIANE
101 JOHANNESBURG
TEL: 011 471 0111
FAX: 011 471 0111
WWW.ERMIELOLABOURCENTER.CO.ZA

WORK NUMBER	054120
DRAWING TITLE	PROPOSED SITE PLAN LOW VOLTAGE SINGLE LINE DIAGRAM
REF NO.	DESIGNED: MM
SCALE	DRAWN: MM
DATE	CHECKED: SK
2019/03/05	REVISION: A
drawing number:	140001-02-100-009

[illegible]

MECHANICAL DRAWINGS

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
- DIMENSIONS TO BE READ, NOT TO BE SCALED FROM THIS DRAWING
- CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

LEGEND

REVISIONS

REV.	DATE	DESCRIPTION	NAME
H	22-11-21	Updated to Contractor's comments.	MH
G	26-10-21	Updated Architect's layout and issued for construction.	MH
F	09-05-19	Architect's layout revised.	AL
E	26-02-19	Architect's layout revised.	AL
D	30-01-19	Architect's layout revised.	AL
C	25-10-18	Architect's layout revised.	AL
B	02-03-18	Architect's layout revised.	MH
A	29-01-18	Issued for information.	MH

public works

Department of Public Works
REPUBLIC OF SOUTH AFRICA

ERMEDO LABOUR CENTRE

PROPOSED NEW OFFICE BUILDING

STAGE 2: CONCEPT DESIGN

WORK DESCRIPTION: MECHANICAL HVAC

OFFICE BUILDING, CONSTRUCTION & SUPPORT FACILITIES

UPPER GROUND FLOOR HVAC

DATE: 2021

NAME: ANTON KOTZE

DATE: 2021

NAME: M.H.

HDM Engineering

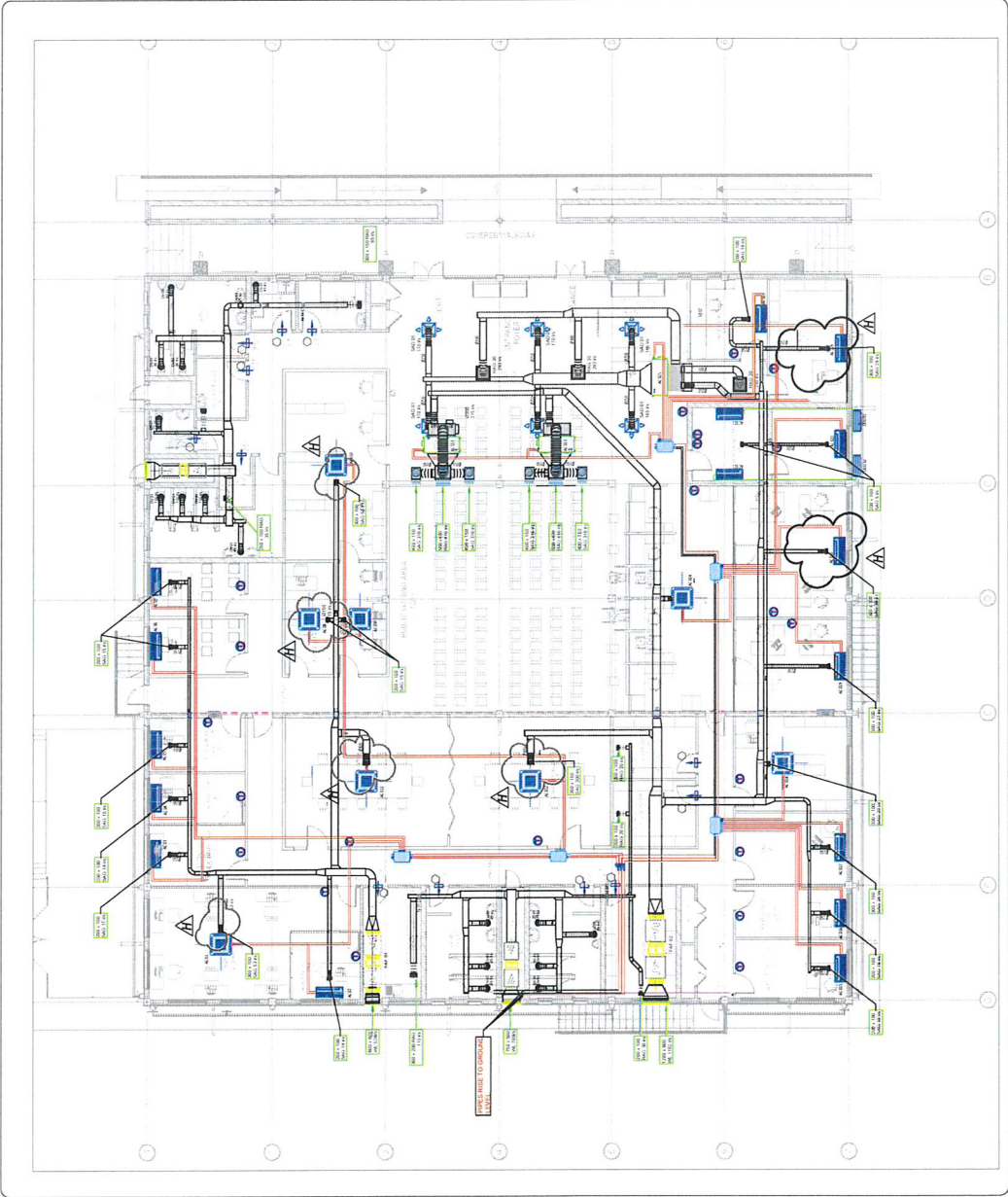
Tel: (012) 654 1746

info@hdm.co.za

www.hdm.co.za

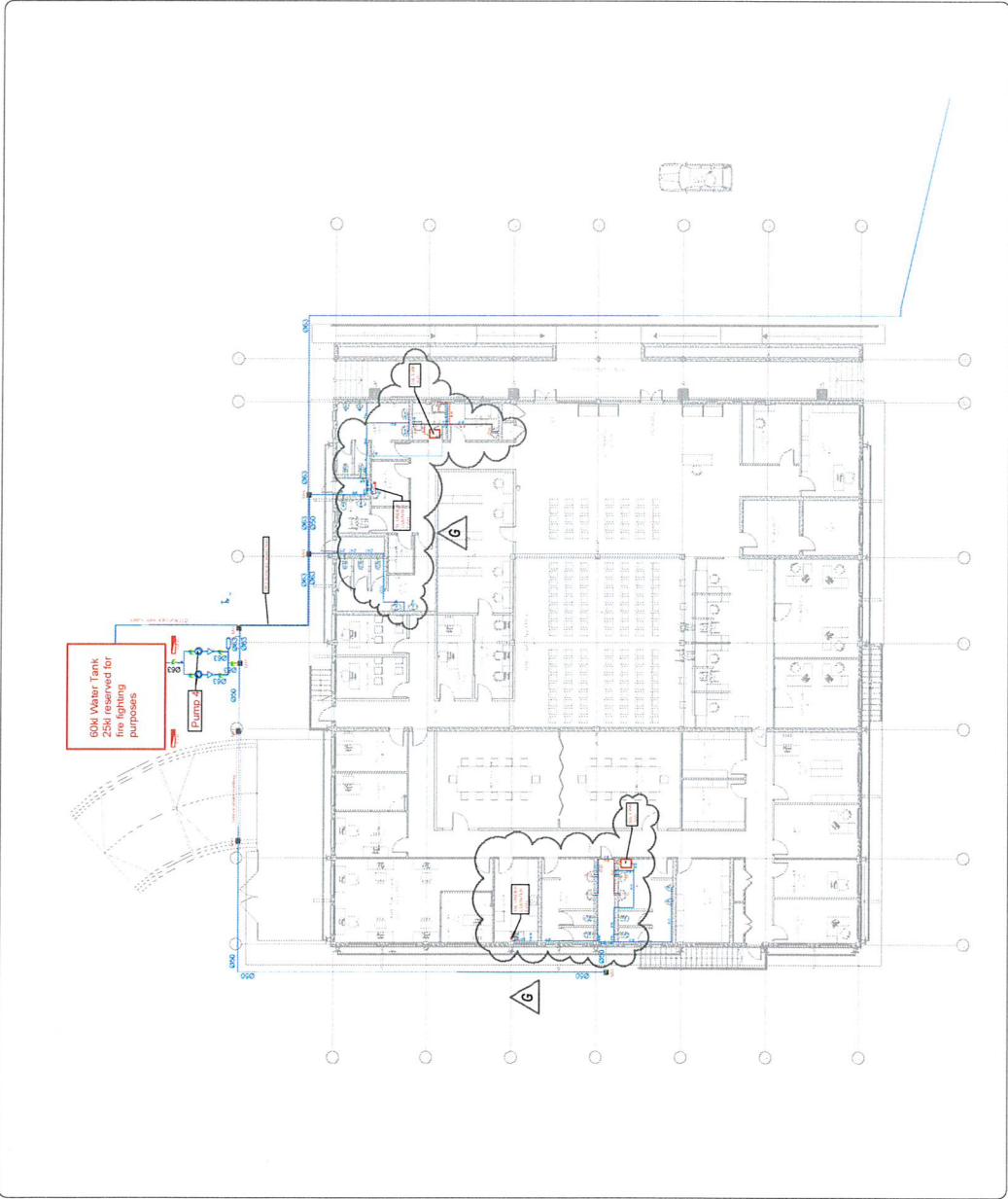
1052-AC-01

H



LOWER GROUND
1/25

- General Notes:**
1. This drawing is a conceptual design and is not to be used for construction.
 2. This drawing is not to be used for construction.
 3. This drawing is not to be used for construction.
 4. This drawing is not to be used for construction.
 5. This drawing is not to be used for construction.
 6. This drawing is not to be used for construction.
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 15. This drawing is not to be used for construction.
 16. This drawing is not to be used for construction.
 17. This drawing is not to be used for construction.
 18. This drawing is not to be used for construction.
 19. This drawing is not to be used for construction.



GROUND
1100

NOTES

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Fire Notes : All work to comply with SANS 10400 :
SANS 10400 REQUIREMENTS:
1.2 Supply water to the fire alarm system
4.35 Fire alarm system (Alarm)
4.36 Fire alarm system (Alarm)
4.37 Access for fire-fighting and rescue purposes - Complies - Access is provided

LEGEND

0	24-11-21	Updated to client's comments.	AMT
F	27-10-21	Updated Layout and issued for Shop Plan	AMT
E	16-09-19	Client's Comments	AMT
D	26-02-19	Architect's Layout Approved	WAK
C	25-10-18	Architect's Layout Revised	WAK
B	02-02-18	Architect's Layout Revised	WAK
A	29-01-18	For Information	WAK
REV No.	DATE	DESCRIPTION	NAME

REVISIONS



INTENTION	ERMELO LABOUR CENTRE
PROPOSED NEW OFFICE BUILDING	
STAGE 2: CONCEPT DESIGN	
DISCIPLINE	MECHANICAL, WET SERVICES
PROJECT TYPE	2

OFFICE SUITS, CONSULTING & SUPPORT FACILITIES									
GROUND FLOOR WET SERVICES									
DRAWING DESCRIPTION									
ITEM No.		T.S.		K.L.		DRAWN		CHECKED	
SCALE		1:100		1:1		DATE		DATE	
OCT 2021		ANTHONY		ANTHONY		OCT 2021		ANTHONY	
OCT 2021		ANTHONY		ANTHONY		OCT 2021		ANTHONY	



HDM Engineering

1052-WS-01

DATE	DATE	DATE	DATE
2021	2021	2021	2021
2021	2021	2021	2021
2021	2021	2021	2021

Pump Schedule	
Pump number	Description
4	Flow 6.4kl/s Head 200kPa Power 150kW

Electrical Consumption	
Pump number	Description
4	Flow 6.4kl/s Head 200kPa Power 150kW



- ### LEGEND

[illegible]

INSTITUTE	ERMELLO LABOUR CENTRE	
SERVICE	PROPOSED NEW OFFICE BUILDING	
CONTRACT SECTION	STAGE 2: CONCEPT DESIGN	
DISCIPLINE	MECHANICAL, HEAT SERVICES	2
WORK DESCRIPTION: SUB DIVISION	OFFICE SUITS, CONSULTING & SUPPORT FACILITIES	
TO WHAT DISCIPLINE		

LOWER GROUND FLOOR WET SERVICES			
ITEM No.	DESCRIPTION	ITEM No.	DESCRIPTION
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3	3.100	4	4.100
5	5.100	6	6.100
7	7.100	8	8.100
9	9.100	10	10.100
11	11.100	12	12.100
13	13.100	14	14.100
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25	25.100	26	26.100
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135	135.100	136	136.100
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149	149.100	150	150.100
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159	159.100	160	160.100
161	161.100	162	162.100
163	163.100	164	164.100
165	165.100	166	166.100
167			



FILE	NAME		REV
DRAWING NUMBER			
A1	1052-WS-02		B

STRUCTURAL DRAWINGS

• ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

• DIMENSIONS TO BE READ: NOT SCALED FROM THIS DRAWING

• CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ENGINEER.

REVISION NO		DATE :	DESCRIPTION :
		15-03-19	REVISED - ELEVATION FOR ROOF ADDED
		05-10-18	ISSUE FOR APPROVAL



public works

Department:
Public Works

REPUBLIC OF SOUTH AFRICA

TO LABOUR CENTRE

TRACT - SECTION

STRUCTURAL

DESCRIPTION

2017	
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[illegible]

ALTECOUN BUILDING ENGINEERS
P.O. BOX 87999, Highland Park, 0180
203 Wicks Hill Avenue, Highland
Park, 0180
Tel: (01793) 441450
Fax: (01793) 441460
E-mail: mail@altcoun.co.uk

CONTRACTOR:

UNIT	
------	--

16303/6

1

Structural drawing of a square slab with dimensions 10300x10300 mm. The drawing shows a square slab with diagonal reinforcement. The perimeter is defined by beams (31) to (36) with dimensions 5150 mm. The internal dimensions are 5150 mm. The total dimensions are 10300 mm. The drawing includes a north arrow pointing towards the top right.

UPPER CEILING RING
BEAM LAYOUT (LVL 7.870)
SCALE 1:100

SCALE 1:100

[illegible]

SUNSCREEN MEMBERS
OMITTED FOR CLARITY

PLEASE NOTE UPPER ROOF
DIFFERS FROM ARCHITECTURAL
DRAWINGS TO MATCH NEW ROOF
RING BEAMS, ROOF SLOPES
& STEEL WORK DESIGN

ELEVATION ON UPPER ROOF
SCALE 1:100

SCALE 1:100

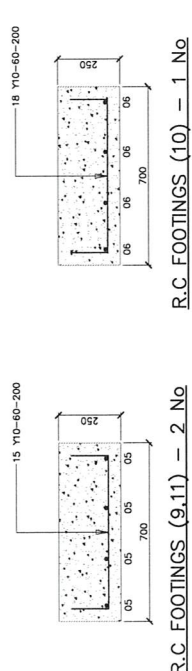
REFER TO L16303-DW-1000-033
FOR CAST IN PLATE LAYOUT & DETAILS

MAXIMUM GROUND PRESSURE: 150KPa
FLOOR IMPOSED LOAD: 5KPa
ROOF IMPOSED LOADS: 0.25KPa

LOWER CEILING RING
BEAM LAYOUT (LVL 4,800)
SCALE 1:100

SCALE 1:100

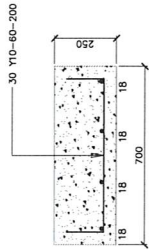
MAXIMUM GROUND PRESSURE: 150KPa
FLOOR IMPOSED LOAD: 5KPa
ROOF IMPOSED LOADS: 0.25KPa

[illegible]

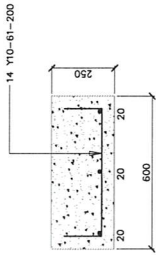
Technical drawing of a rectangular panel. The panel has a width of 250 and a height of 17. A reference line labeled 9 Y10-61-200 is shown on the left side, pointing to the panel.

[illegible][illegible]

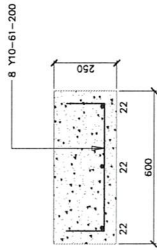
COVER: 50mm



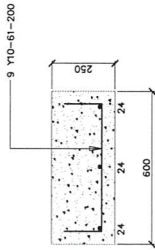
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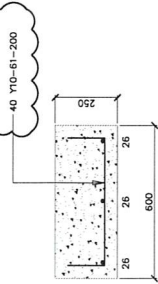
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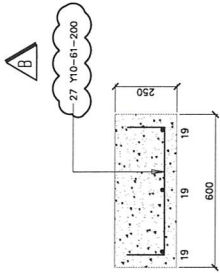
R.C. FOOTINGS (34) — 1 No



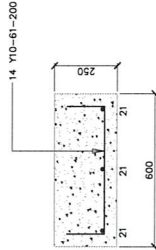
R.C. FOOTINGS (36) — 1 No



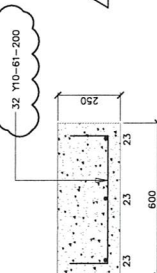
R.C. FOOTINGS (38) — 1 No



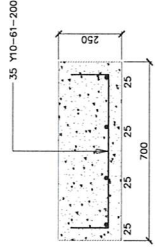
R.C. FOOTING (31) — 1 No



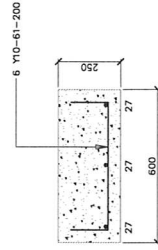
R.C. FOOTINGS (33) — 1 No



R.C. FOOTINGS (35) — 1 No



R.C. FOOTINGS (37) — 1 No



R.C. FOOTINGS (39) — 1 No

MEMBER/UNIT		REINFORCEMENT					DIMENSIONS				
TYPE AND SIZE	TYPE AND DIA	MARK	No. OFF UNITS	No. PER UNIT	TOTAL No. OFF	CUTTING LENGTH	SHAPE CODE	A	B	C	D
STRIP FOOTING (30) 700x250 DP 1 No	Y10	18	01	04	4	6600	20	6600			
	Y10	61	01	30	30	700	38	100	500		
STRIP FOOTING (31) 600x250 DP 1 No	Y10	19	01	03	3	5100	20	5100			
	Y10	61	01	27	27	700	38	100	500		
STRIP FOOTING (32) 600x250 DP 1 No	Y10	20	01	03	3	2800	20	2800			
	Y10	61	01	14	14	700	38	100	500		
STRIP FOOTING (33) 600x250 DP 1 No	Y10	21	01	03	3	2800	20	2800			
	Y10	61	01	14	14	700	38	100	500		
STRIP FOOTING (34) 600x250 DP 1 No	Y10	22	01	03	3	2800	20	2800			
	Y10	61	01	08	8	700	38	100	500		
STRIP FOOTING (35) 600x250 DP 1 No	Y10	23	01	03	3	5950	20	5950			
	Y10	61	01	32	32	700	38	100	500		
STRIP FOOTING (36) 700x250 DP 1 No	Y10	24	01	03	3	2800	20	2800			
	Y10	61	01	09	9	700	38	100	500		
STRIP FOOTING (37) 700x250 DP 1 No	Y10	25	01	04	4	6700	20	6700			
	Y10	61	01	35	35	700	38	100	500		
STRIP FOOTING (38) 600x250 DP 1 No	Y10	26	01	03	3	7750	20	7750			
	Y10	61	01	40	40	700	38	100	500		
STRIP FOOTING (39) 600x250 DP 1 No	Y10	27	01	03	3	2900	20	2900			
	Y10	61	01	06	6	700	38	100	500		

REINFORCEMENT QUANTITIES

BAR DIAMETER (mm)	8	10	12	16	20	25	32	40	GRAND TOTAL
R LENGTH (m)									
MASS (kg)									
Y LENGTH (m)									
MASS (kg)		186.58							186.58

NOTES

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- FROM THIS DRAWING
- ON SITE BEFORE CONSTRUCTION COMMENCES AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ENGINEER.



public works
Department
of Public Works
REPUBLIC OF SOUTH AFRICA

REVISIONS

REVISION No. DATE DESCRIPTION

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NAKO LBE
LAWSON ENGINEERING
203 MANDALA Road, Grahamstown
6160, South Africa
Tel: 033 337 3344
Fax: 033 337 3344
E-mail: info@nako-lbe.co.za

CONTRACTOR

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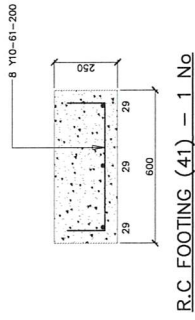
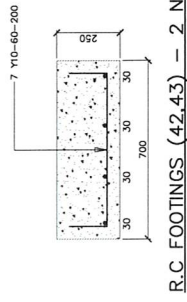
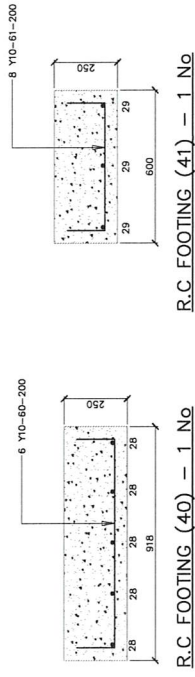
CONTRACTOR

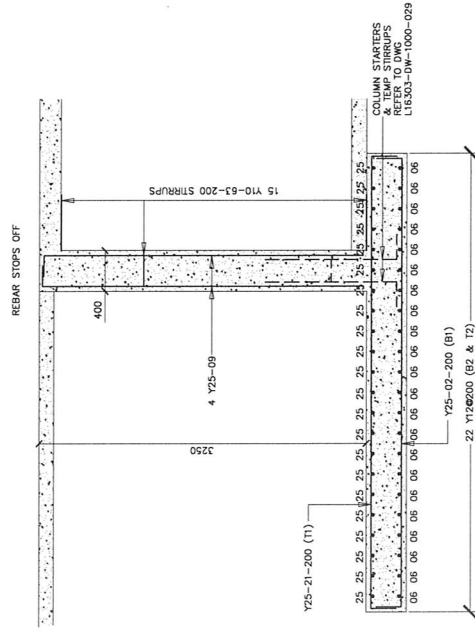
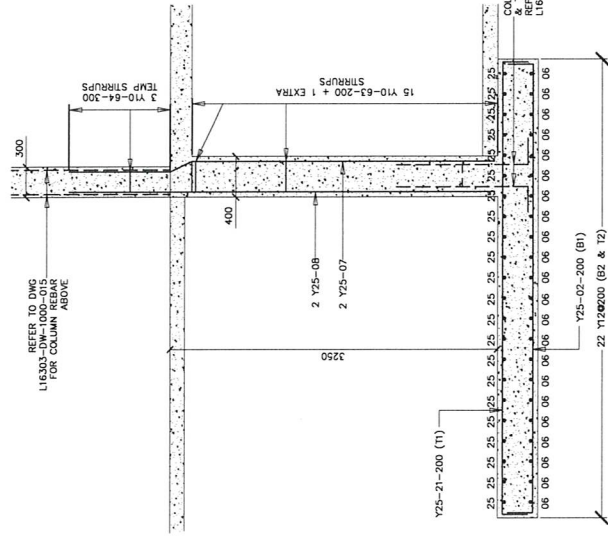
CONTRACTOR

CONTRACTOR

CONTRACTOR

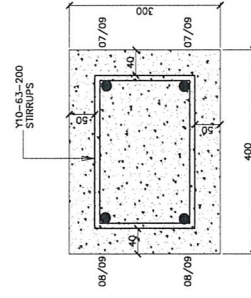
COVER: 50mm

[illegible][illegible]



SECTION A
COLUMNS 1,2,9,17,25,26 017
6 No

SECTION B
COLUMNS 8,16,24
3 No

[illegible]

400x300 COLUMNS
(1,2,8,9,16,17,24,25,26)

NOTES

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REVISIONS		
REVISION NO	DATE :	DESCRIPTION
	15-03-19	ISSUE FOR APPROVAL



Department:
Public Works

INSTITUTION
ERMELO LABOUR CENTRE
SERVICE
PROPOSED NEW OFFICE BUILDING

	DISCIPLINE	PROJEC
	STRUCTURAL	

OFFICE SUITS, COUNSELLING & SUPPORT FACILITIES	DRAWING DESCRIPTION
--	---------------------

COLUMN REBAR IN RETAINING WALL

FILE NO.	6120003		
DESIGN	UNKNOWN		DLOGE
SCALE	INDICATED		MON

RESPONSIBLE PROFESSIONAL	
DATE	SIGNATURE

OCT 2018	N. PILLAY	
DRAWING CO-ORDINATED		

ENGINEERS

NIAKO

LATECAN BOUNDER ENGINEERS
P.O. BOX 67299, Highfields Park, 5769
Tel: (01753) 441600

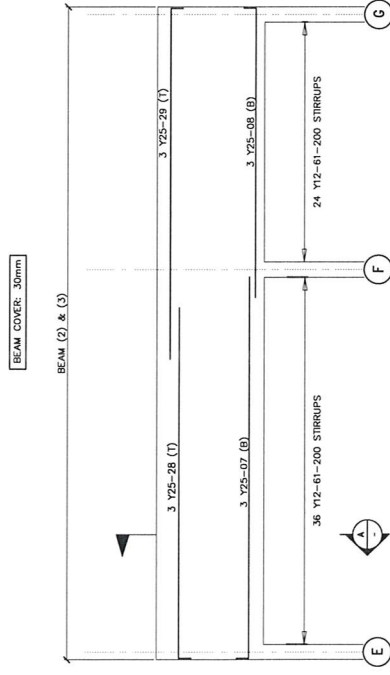
203 West Hazel Avenue, Hayward
Techno Park, California
Fax: (017) 934 4180
E-mail: info@technopark.org

1000000

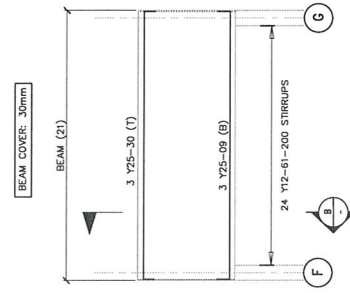
CONTRACTOR:

CADD SYSTEM	AUTOCAD	ERMELLO LABOUR CENTRE
SIZE	DRAWING NUMBER	

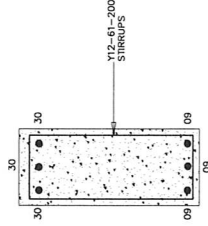
A1	S/16303/17
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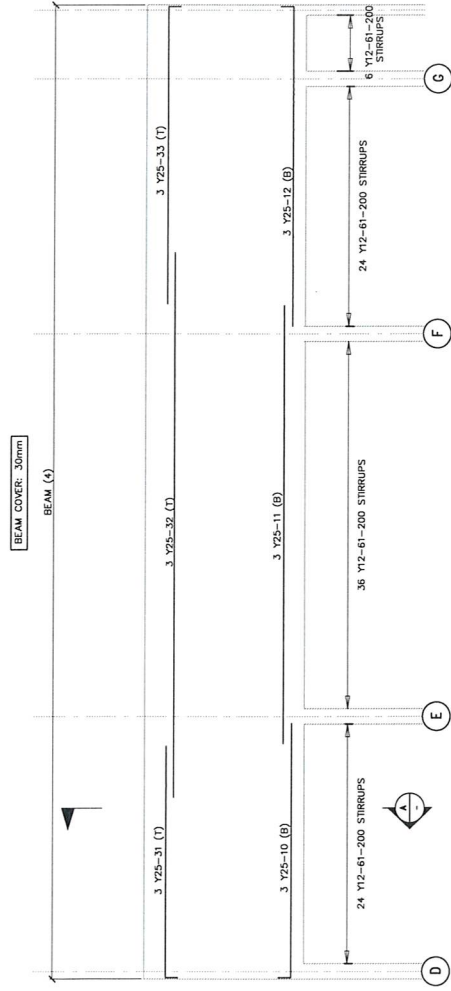


DOWNSTAND BEAMS (2) & (3) - 2 No
300x720 DP

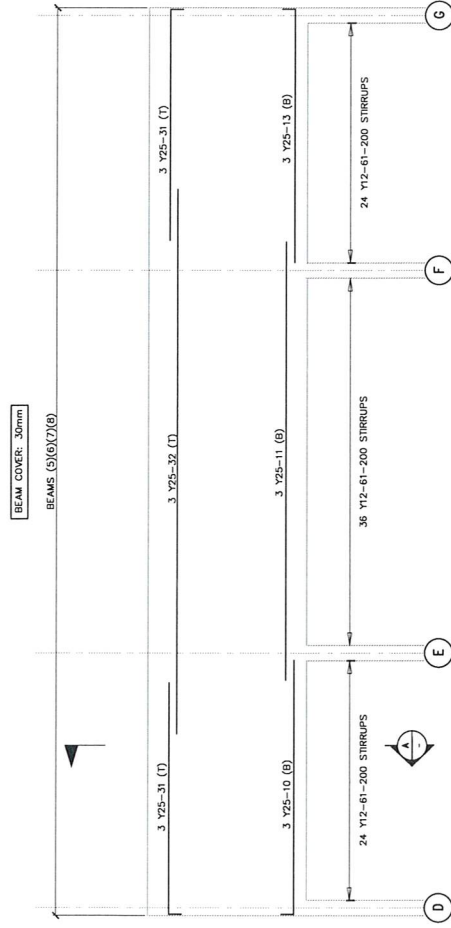


DOWNSTAND BEAM (21) – 1 No
300x720 DP

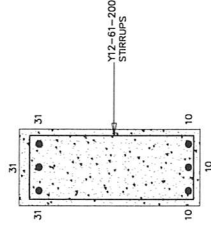
[illegible][illegible]



DOWNSTAND BEAMS (4) – 1 No
300x720 DP



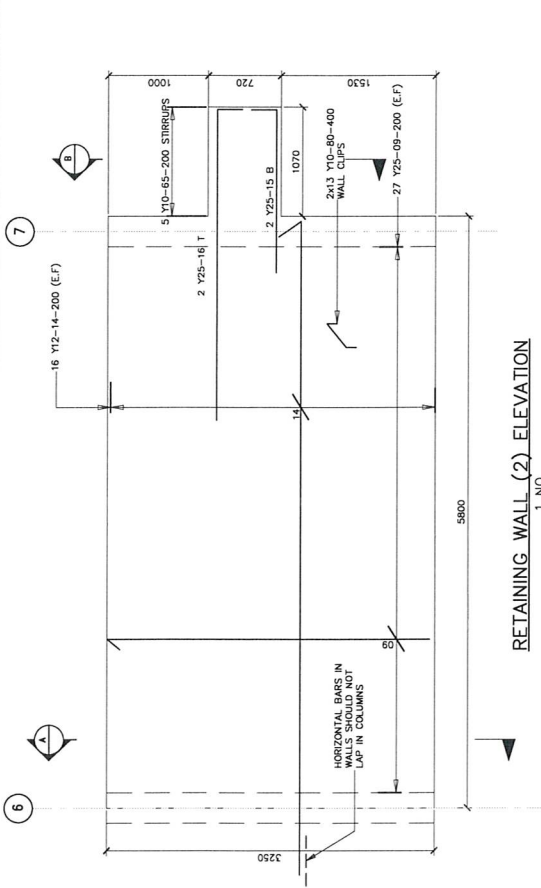
DOWNSTAND BEAMS (5)(6)(7)(8) - 4 No
300x720 DP



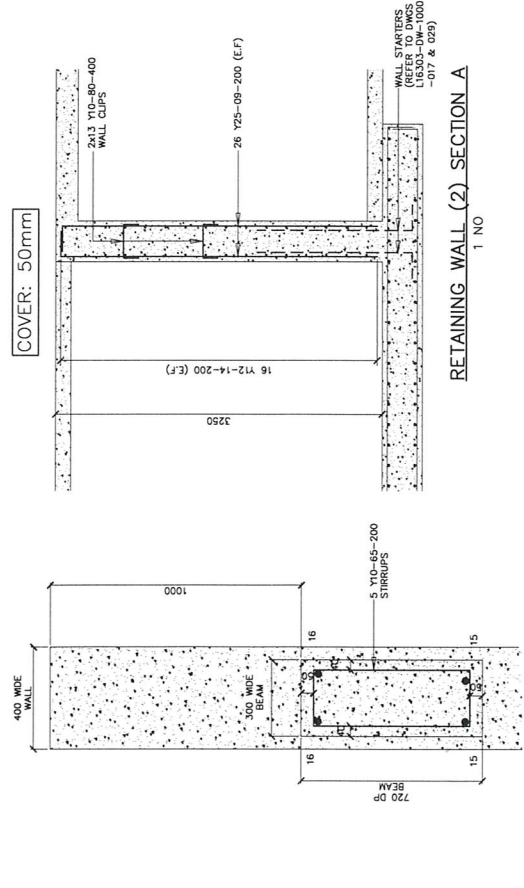
SECTION A-A

MEMBER/UNIT		REINFORCEMENT					REINFORCEMENT QUANTITIES					DIMENSIONS				
TYPE AND SIZE	TYPE AND DIA	MARK	No. OFF UNITS	No. PER UNIT	TOTAL OFF	CUTTING LENGTH	SHAPE CODE	A	B	C	D	E/R				
DOWNSTAND BEAM (4) 300x720 DP 1 No	Y25	10	01	0.3	3	5200	37	250								
	Y25	11	01	0.3	3	8600	20	8600								
	Y25	12	01	0.3	3	6500	37	250								
	Y25	31	01	0.3	3	4800	37	250								
	Y25	32	01	0.3	3	10700	20	10700								
	Y25	33	01	0.3	3	6100	37	250								
DOWNSTAND BEAMS (5/6)/(7/8) 300x720 DP 4 No	Y12	61	01	90	90	1900	60	660	240							
DOWNSTAND BEAMS (5/6)/(7/8) 300x720 DP 4 No	Y25	10	04	0.3	12	5200	37	250								
	Y25	11	04	0.3	12	8600	20	8600								
	Y25	13	04	0.3	12	5200	37	250								
	Y25	31	04	06	24	4800	37	250								
	Y25	32	04	0.3	12	10700	20	5700								
	Y12	61	04	84	336	1900	60	660	240							
REINFORCEMENT QUANTITIES													25	32	40	GRAND TOTAL
BAR DIAMETER (mm)	8	10	12	16	20								GRAND TOTAL			
R LENGTH (m)													3018.35			
MASS (kg)													3018.35			
Y			718.75										3018.35			
MASS (kg)													3018.35			

REVISION NO DATE	REVISIONS	DESCRIPTION																											
 public works Department Public Works REPUBLIC OF SOUTH AFRICA																													
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RETAINING WALL (2) ELEVATION



RETAINING WALL (2) SECTION B

RETAINING WALL (2) SECTION A

READ IN CONJUNCTION WITH
L16303-DW-1000-019

MEMBER/UNIT		REINFORCEMENT					DIMENSIONS				
TYPE AND SIZE	MARK	NO. OFF	PER UNIT	NO. OFF	TOTAL	CUTTING LENGTH	CODE	A	B	C	D
RETAINING WALL (1)	Y25	09	01	48	48	3400	37	250			
5350x400 THK x3250 HIGH 1 No	Y12	10	01	32	32	5500	38	150	5250		
	Y10	80	01	24	24	450	38	100	300		
RETAINING WALL (3)(4)(5)(6)	Y25	09	04	48	192	3400	37	250			
5000x400 THK x3250 HIGH 4 No	Y12	11	04	32	128	6000	20	6000			
	Y10	80	04	24	96	450	38	100	300		
RETAINING WALL (7)	Y25	09	01	52	52	3400	37	250			
5650x400 THK x3250 HIGH 1 No	Y12	12	01	32	32	6250	37	150			
	Y10	80	01	26	26	450	38	100	300		
RETAINING WALL (8)	Y25	09	01	54	54	3400	37	250			
5837x400 THK x3250 HIGH 1 No	Y12	17	01	32	32	5950	38	150	5700		
	Y10	80	01	26	26	450	38	100	300		
RETAINING WALL (9)	Y25	09	01	168	168	3400	37	250			
17169x400 THK x3250 HIGH 1 No	Y12	18	01	32	32	5450	37	150			
	Y12	19	01	16	16	6050	65	6050			16195
	Y12	20	01	16	16	7000	65	7000			16195
	Y12	24	01	16	16	6050	65	6050			15945
	Y12	25	01	16	16	6900	65	6900			15945
	Y10	80	01	84	84	450	38	100	300		
RETAINING WALL (10)	Y25	09	01	120	120	3400	37	250			
12379x400 THK x3250 HIGH 1 No	Y12	21	01	32	32	5050	37	150			
	Y12	22	01	16	16	4050	65	4050			10216
	Y12	23	01	16	16	4950	65	4950			10216
	Y12	26	01	16	16	4050	65	4050			9966
	Y12	27	01	16	16	4800	65	4800			9966
	Y10	80	01	60	60	450	38	100	300		
RETAINING WALL (11)	Y25	09	01	08	8	3400	37	250			
715x300 THK x3250 HIGH 1 No	Y12	28	01	32	32	850	38	150	600		
	Y10	81	01	04	4	350	38	100	200		
RETAINING WALL (2)	Y25	09	01	54	54	3400	37	250			
5650x400 THK x3250 HIGH 2	Y12	14	01	32	32	7050	37	150			
	Y10	80	01	26	26	450	38	100	300		
& 1700x300x720 DOWNSTAND BEAM 1 No	Y25	15	01	02	2	1850	37	250			
	Y25	16	01	02	2	3300	37	250			
	Y10	65	01	05	5	1700	60	620	170		

REINFORCEMENT QUANTITIES

BAR DIAMETER (mm)	8	10	12	16	20	25	32	40	GRAND TOTAL
LENGTH (m)									
MASS (kg)									
LENGTH (m)									
MASS (kg)		101.06	2308.09			9150.29			11559.44

11559.44
NAKO LBE DRAWING NUMBER
L16303-DW-1000-030-RevA

- NOTES
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - DIMENSIONS TO BE READ: NOT SCALED.
 - CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION.
 - VARiances AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ENGINEER.

REVISION NO.	DATE	DESCRIPTION
1	15/01/19	ISSUE FOR APPROVAL



PROJECT TITLE: PROPOSED NEW OFFICE BUILDING

PROJECT LOCATION: EMALLO LABOUR CENTRE

PROJECT TYPE: OFFICE BUILDING

PROJECT DESCRIPTION: OFFICE BUILDING & SUPPORT FACILITIES

RETAINING WALL & BEAM REBAR

FILE NO: 15003

DESIGN: 15003

DATE: 15/01/19

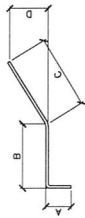
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REVISION: 1

REVISION NO. DATE DESCRIPTION

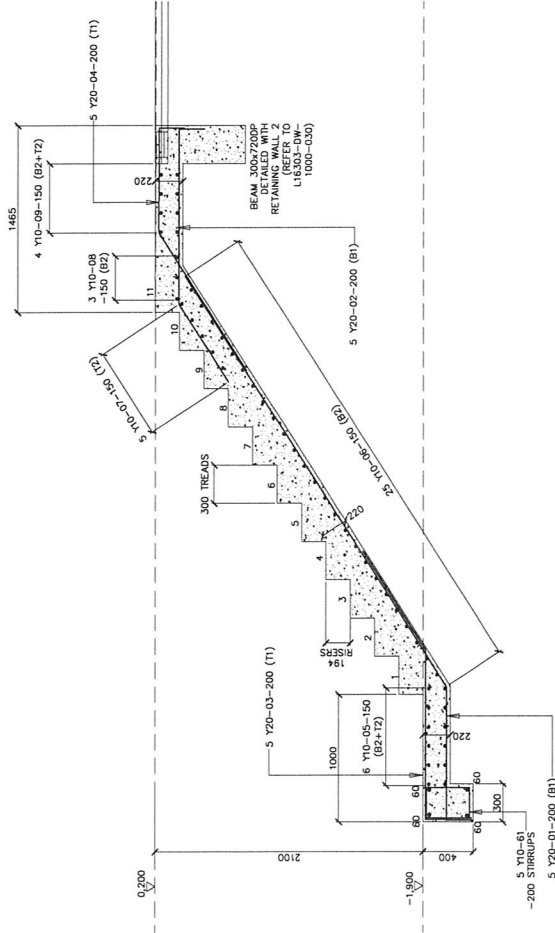


NO.	DATE	BY	CHKD.	APPD.	REV.
1	15/01/19	15003	15003	15003	15003



SHAPE CODE 99

COVER: 30mm



STAIRCASE 3

MEMBER/UNIT		REINFORCEMENT					REINFORCEMENT		DIMENSIONS			
TYPE AND SIZE	TYPE AND DIA	MARK	No. OFF UNITS	No. PER UNIT	TOTAL No. OFF	CUTTING LENGTH	3000 mm	A	B	C	D	E/R
STAIRCASE 3 1 No	Y20	01	01	05	5	5000	99	200	1000	3800	2086	
	Y20	02	01	05	5	2300	45	750	1350		394	
	Y20	03	01	05	5	2450	99	200	1300	950	502	
	Y20	04	01	05	5	2900	45	1300	800		698	
	Y10	05	01	12	12	1100	38	100	900			
	Y10	06	01	25	25	1100	38	100	900			
	Y10	07	01	05	5	1100	38	100	900			
	Y10	08	01	03	3	1100	38	100	900			
	Y10	09	01	08	8	1100	38	100	900			
	Y12	60	01	04	4	1200	38	150	900			
	Y10	61	01	05	5	1300	60	340	240			

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- DIMENSIONS TO BE READ: NOT SCALED
- CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION.
- CONTRACTOR TO REPORT ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ENGINEER.

REVISION No.	DATE	DESCRIPTION
1	2017/04/04	ISSUED FOR APPROVAL



INSTITUTION
EMMELD LAURENCE
PROPOSED NEW OFFICE BUILDING
CONTRACT SECTION

PROJECT TITLE
STRUCTURAL
PROPOSED NEW OFFICE BUILDING
OFFICE SUITE, CONSULTING & SUPPORT FACILITIES

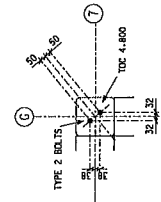
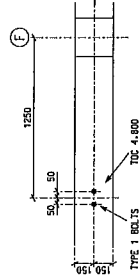
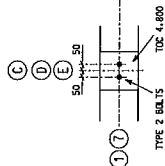
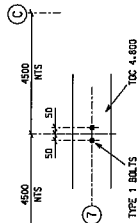
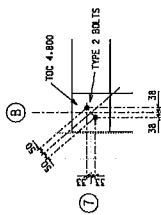
REVISIONS
R.C STAIRCASE 3
REAR

DATE
OCT 2017
N/A
DRAWING COORDINATOR
2017/08

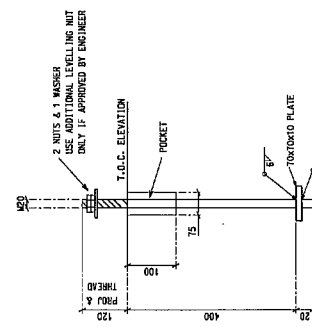
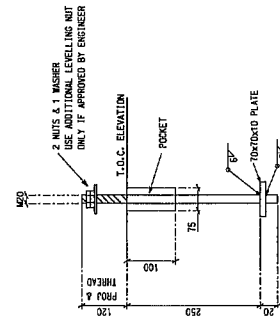
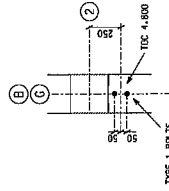
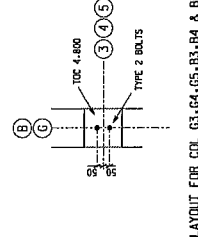
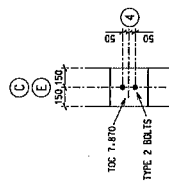
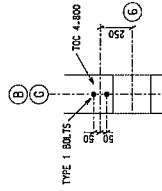
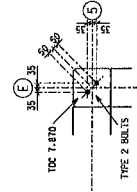
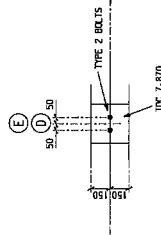
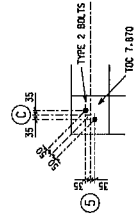
ENGINEER
NAKO LBE
LATIQUAN EMMELD LAURENCE
P.O. BOX 40709, Midrand, 2010
203 Midrand, Midrand, 2010
T: +27 (0)11 753 4400
E: info@nakoengineering.co.za

CONTRACTOR
NAKO LBE
DRAWING NUMBER
S/16303/037

NAKO LBE DRAWING NUMBER
L16303-DW-1000-031-RevA



HD BOLT LAYOUT FOR COL G7



M20 HD BOLT TYPE 2
48 OFF REQUIRED

1. BOLT THREADS SHALL BE IN ACCORDANCE WITH SANS 1556-1
2. BOLTS, NUTS AND PLATES TO BE GRADE 8.8 OR EN19
3. ROUND WASHERS AS PER GRADE A PLAIN WASHERS (SANS 1700-16-2)
1. BOLT ASSEMBLY TO BE ZINC ELECTROPLATED IN ACCORDANCE
WITH SANS 2081 (CLASSIFICATION FEZING)
3. BOLT SHANKS TO BE DECLASSIFIED BEFORE EMBEDMENT IN CONCRETE
2. TEMPLATES TO BE USED WHEN POCKETS ARE NOT PROVIDED
1. NUTS SHALL BE TIGHTENED USING POWER TOOLS OR SHALL BE FULLY
BY HAND USING APPROPRIATE STANDARD LENGTH SPANNERS

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
- DIMENSIONS TO BE READ : NOT TO BE SCALED FROM THIS DRAWING
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FOR APPROVAL			DESCRIPTION
REVISION NO.	DATE:		
REVISIONS			



public works
Department
Public Works
REPUBLIC OF SOUTH AFRICA

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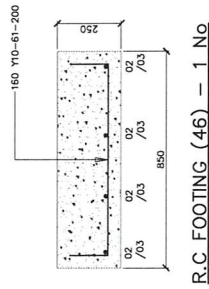
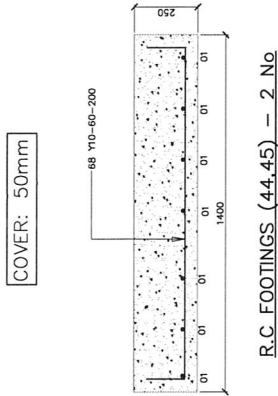


LDL
(LATEGAN BOWMER ENGINEERS)
P.O. BOX 67295, Highveld Park, 0189
203 Witak-Nazad Avenue, Midrand
Tiedra Park, Centurion
Tel: (017) 254-4150
Fax: (017) 254-4188
E-mail: mail@ldengr.co.za

CONTRACTOR:

CADD SYSTEM	AUTOCAD	ESMELD LAUNDR CENTRE	FILE NAME
SHEET			REV
DRAWING NUMBER			
A1	S/16303/39		

NAKOLIE DRAWING NUMBER
L16303-DW-1000-034-REV A

[illegible][illegible]

INSTITUTION

SERVICE

2025 RELEASE UNDER E.O. 14176

DISCUSSION

STRUCTURAL

CORRUPTION - SUB DIVISION

DUNSELLINO & S. IMPORT S.p.A.

SETTING REBAR @

ENTRANCE WALLS

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SIGNATURE

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LBE

REFERENCES

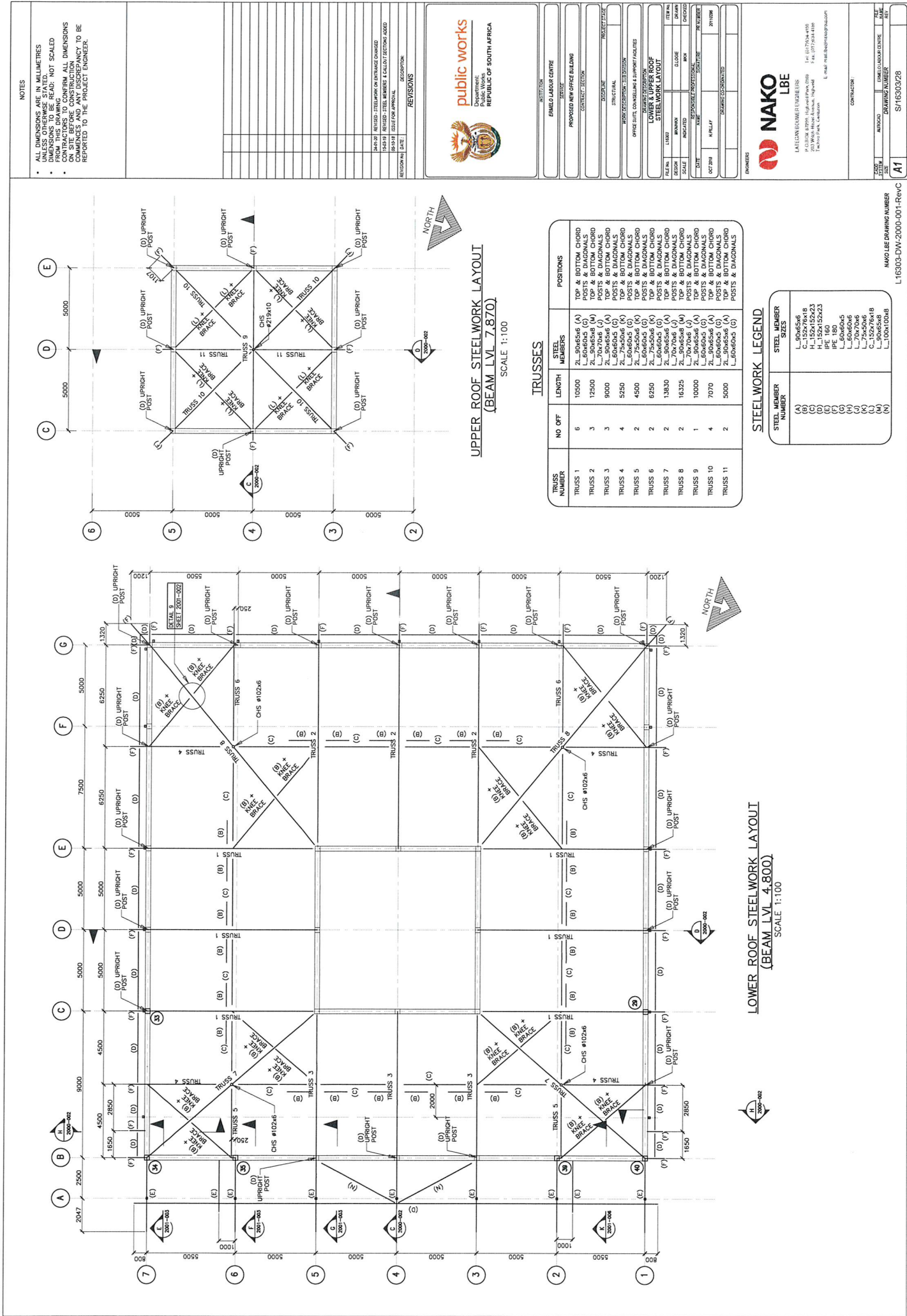
Solid Park, 01059

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CONTRIBUTION:

EMELO LAG

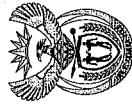
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NOTES

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public works
Public Works
REPUBLIC OF SOUTH AFRICA



REVISIONS

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SECTION 1
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SECTION 5

STEELWORK

PROPOSED NEW OFFICE BUILDING

PROPOSED NEW OFFICE BUILDING

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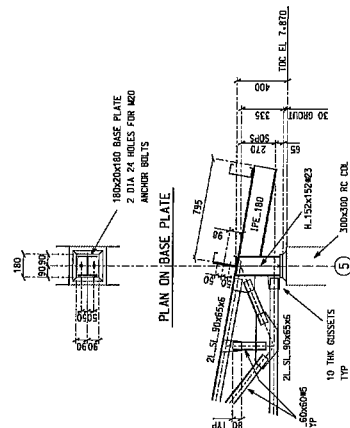
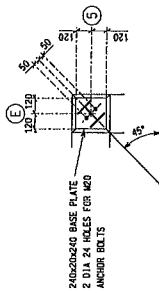
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TYP CORNER COL BASE PLATE DETAIL AT EL. 7.870



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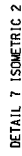
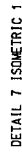
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
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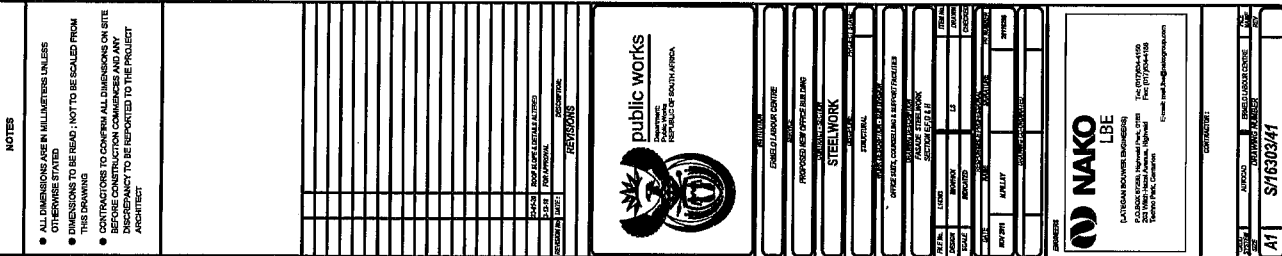
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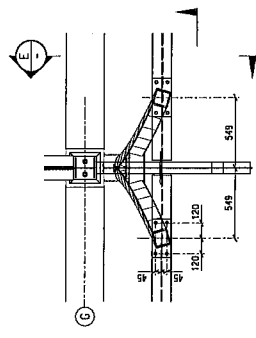
(LATEGAN BOWMER ENGINEERS)
P.O. BOX 67293, Highfield Park, 0189
203 Wick-Holme Avenue, Highfield
Totton Park, Centurion
Tel: (01793) 41150
Fax: (01793) 41188
E-mail: enr@lategan.co.uk

COMPACTOR;

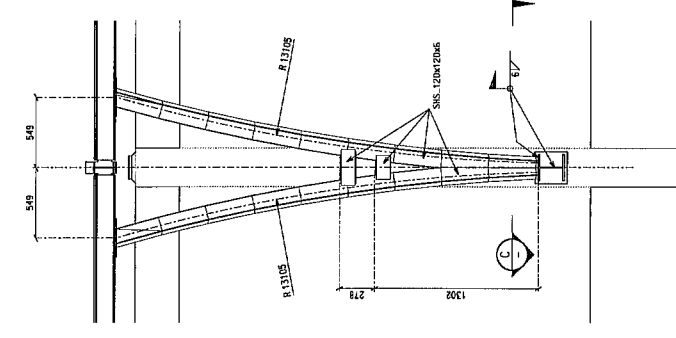
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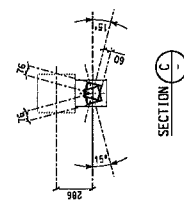




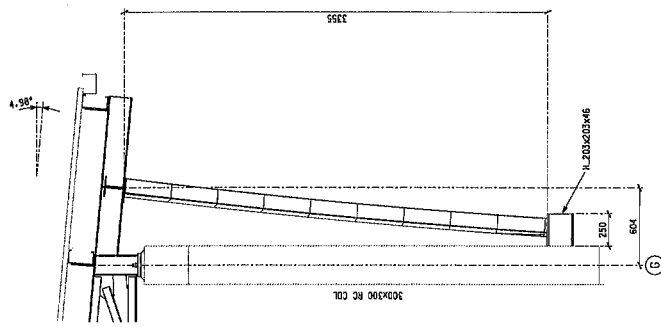
PLAN ON TYPE E COLUMNS
E ARE REQUIRED



SECTION 



SECTION



SECTION E

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S/16303/42	A1				

NAKO LBE DRAWING NUMBER
L16303-0W-2001-004-REV A

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
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3-13-18	FOR APPROVAL
REVISION No.	DATE :
REVISIONS	
	DESCRIPTION



public works
Department
Public Works
REPUBLIC OF SOUTH AFRICA

[illegible]

Source: <http://www.fishbase.org>



18F

UNIVERSITY OF CALIFORNIA

LATEGAM BOLAJER (ENGINEER)

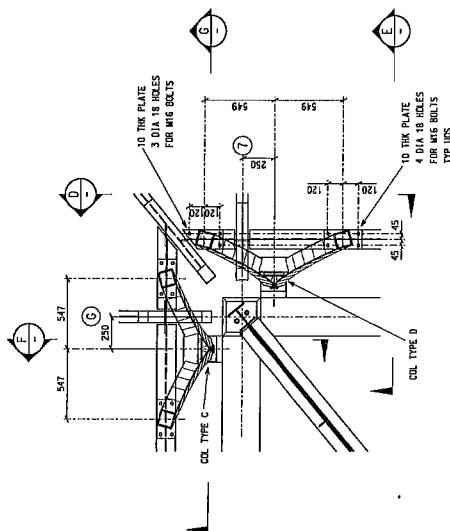
P.O. BOX 67269, Highland Park, 01609 Tel: (01773) 444150

1003 Wilcox-Hazell Avenue, Highland
Cachino Park, Cachino

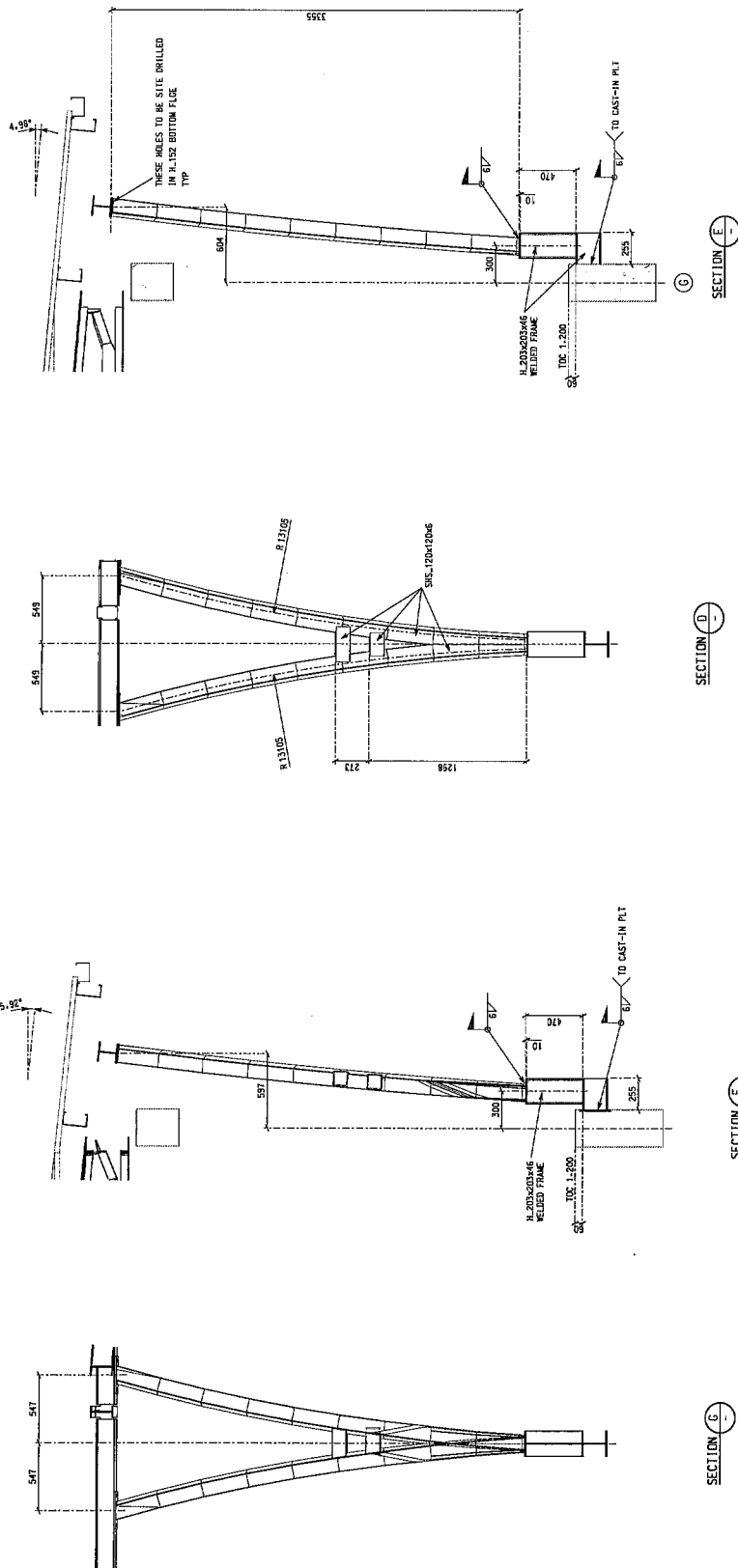
E-mail: mail.be@nmggroup.com

5.75m / 18.7ft

CAD SYSTEM	AUTOCAD	ENGINEER'S OFFICE	FILE NAME
SIZE	SIZE	DRAWING NUMBER	REV
A1		S/16303/43	



PLAN ON TYPE C & D COLUMNS
TYPE CX & DX COLUMNS OPP HAND

NAKO LBE DRAWING NUMBER
L16303-DW-2001-005-REV A

• ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

• DIMENSIONS TO BE READ: NOT SCALED FROM THIS DRAWING

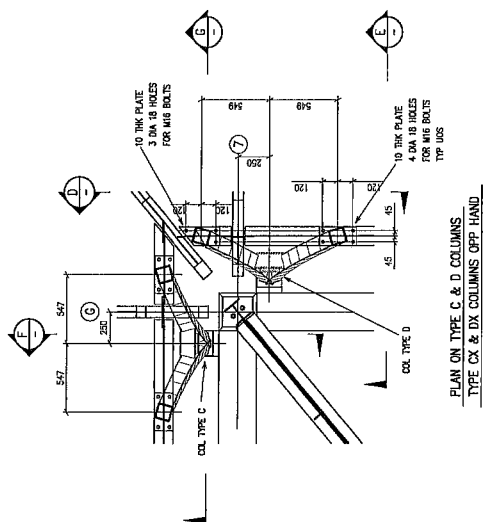
• CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES AND ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ENGINEER.

CLASS No.	DATE :	DESCRIPTION
27-08-20		REMAILED - SUNSCREEN FACADE DETAIL ADDED
24-04-20		REMAILED - COLUMN PLUMBING H & S2 ADDED
15-03-19		ISSUE FOR APPROVAL

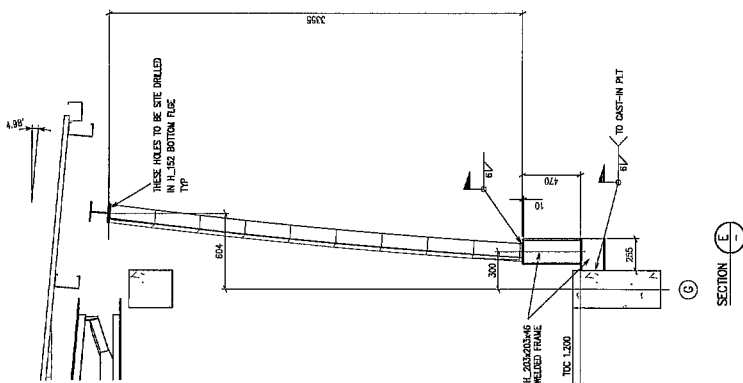
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LBE
(LATHEAN POLYMER EXCISEMENTS)
P.O. BOX 67298, Highview Park, C-169
203 Witch-Hazel Avenue, Highview
Techno Park, Centurion

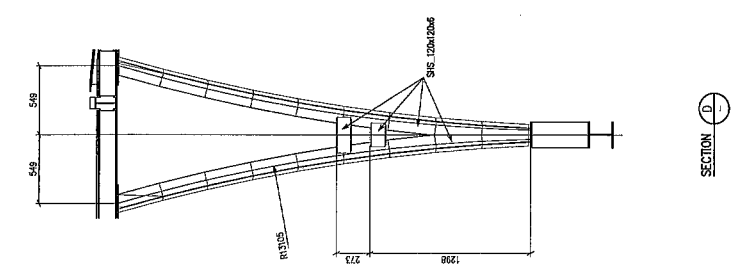
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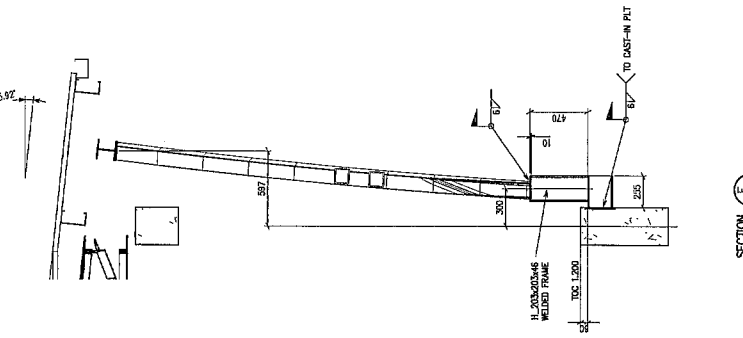
PLAN ON TYPE C & D COLUMNS
TYPE CX & DX COLUMNS OPP HAND



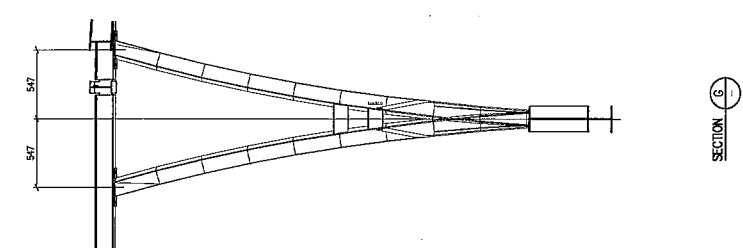
SECTION E



SECTION **D**



SECTION F



SECTION 9

NAKO LBE DRAWING NUMBER
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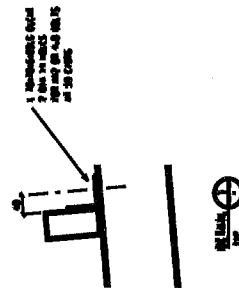
NEW SUNSCREEN FACADE DETAIL

120x120x3 STEEL MEMBERS
FULLY WELDED IN BETWEEN
Y-SHAPED COLUMNS

RHS_120x60x3 SHAPED BRACKET
FULLY WELDED TO NEW Y SHAPED
COLUMNS

6x6 RHS_120x60x3 SUNSCREEN
--STEEL MEMBERS WELDED ON EAST
FACE OF NEW SHAPED BRACKET

REFER TO ARCHITECTURAL DWG
WQSE-DS-4120-A-600-05
FOR SETTING OUT DIMENSIONS



- 1111

[illegible]

public works
Department
Public Works
REPUBLIC OF SOUTH AFRICA

ERNESTO LABOUR CENTRE

PROPOSED NEW OFFICE BUILDING

STEELWORK

STRUCTURAL

OFFICE SUITS, COUNSELLING & SUPPORT FACILITIES

**FACADE STEELWORK
SECTIONS J & K**

[illegible]

NAKO
LIFE

(LATEGAN BOWMER ENGINEERS)
P O BOX 87799, Highwest Park, Q168
203 West Hazel Avenue, Highwest
Teebun Park, Canberra

Example

NAKOLISE DRAWING NUMBER

DATE	ATTORNEY	EMERGENCY CONTACT	REF
A1	DAEWANG HUBBER	S/16303/44	