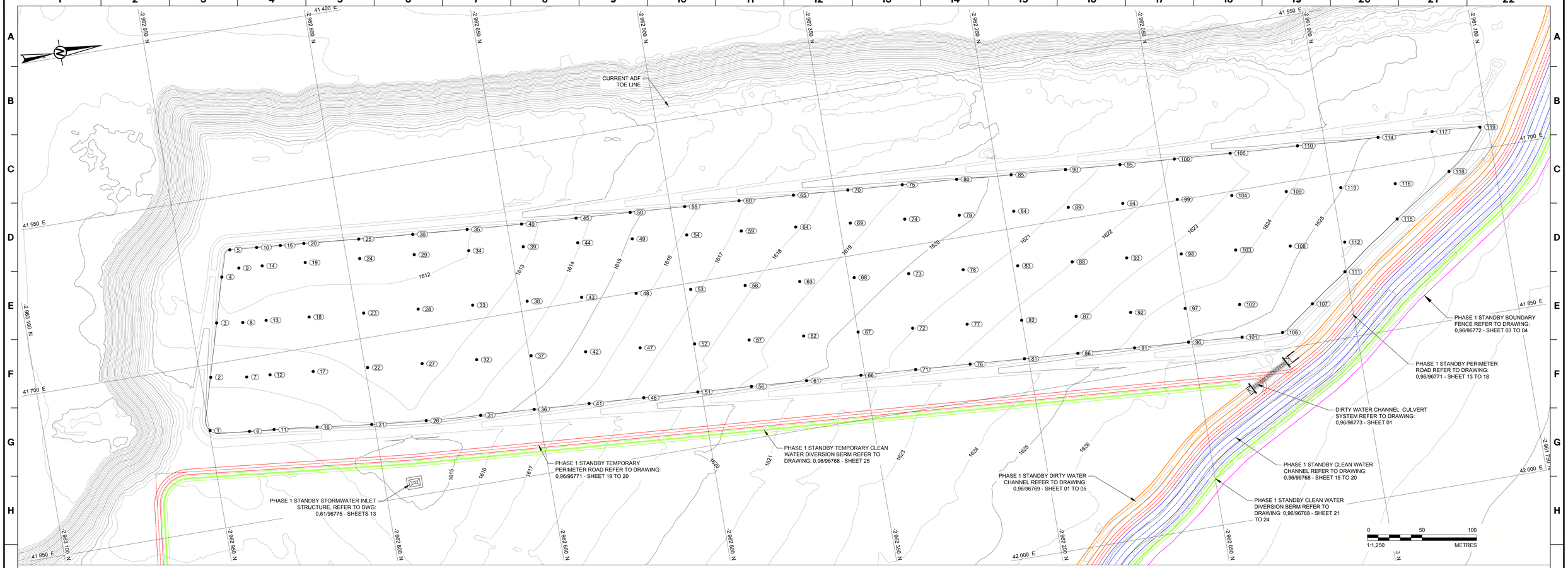


## PHASE 1 STANDBY BASIN EXCAVATION LAYOUT

SCALE 1:1,250 m

### STANDBY ADF BASIN EXCAVATION SETOUT TABLE WGS84 LO 29

| POINT No. | EASTING (m) | NORTHING (m) | POINT ELEVATION (m) |
|---|---|---|---|
| 1 | 41759.72 | -2962949.48 | 1615.039 |
| 2 | 41711.83 | -2962940.66 | 1613.760 |
| 3 | 41663.62 | -2962927.02 | 1612.490 |
| 4 | 41623.06 | -2962915.35 | 1611.709 |
| 5 | 41599.70 | -2962903.96 | 1611.672 |
| 6 | 41766.51 | -2962913.97 | 1614.913 |
| 7 | 41717.04 | -2962908.16 | 1613.732 |
| 8 | 41667.27 | -2962903.38 | 1612.346 |
| 9 | 41617.50 | -2962898.60 | 1611.684 |
| 10 | 41601.68 | -2962879.35 | 1611.721 |
| 11 | 41768.61 | -2962891.56 | 1614.814 |
| 12 | 41718.65 | -2962886.77 | 1613.632 |
| 13 | 41668.88 | -2962881.99 | 1612.413 |
| 14 | 41619.11 | -2962877.21 | 1611.811 |
| 15 | 41603.53 | -2962857.73 | 1611.807 |
| 16 | 41772.89 | -2962852.29 | 1614.504 |
| 17 | 41722.20 | -2962847.43 | 1613.357 |
| 18 | 41672.43 | -2962842.65 | 1612.400 |
| 19 | 41622.66 | -2962837.87 | 1611.913 |
| 20 | 41605.23 | -2962836.22 | 1611.918 |
| 21 | 41778.99 | -2962802.65 | 1614.154 |
| 22 | 41726.98 | -2962797.66 | 1612.860 |
| 23 | 41677.21 | -2962792.88 | 1612.269 |
| 24 | 41627.44 | -2962788.10 | 1611.903 |
| 25 | 41609.72 | -2962786.04 | 1611.886 |
| 26 | 41783.91 | -2962752.87 | 1614.082 |
| 27 | 41731.76 | -2962747.89 | 1612.781 |
| 28 | 41681.99 | -2962743.11 | 1612.287 |
| 29 | 41632.22 | -2962738.33 | 1611.887 |
| 30 | 41613.71 | -2962736.58 | 1611.881 |

### STANDBY ADF BASIN EXCAVATION SETOUT TABLE WGS84 LO 29

| POINT No. | EASTING (m) | NORTHING (m) | POINT ELEVATION (m) |
|---|---|---|---|
| 31 | 41787.33 | -2962702.98 | 1614.535 |
| 32 | 41736.54 | -2962698.12 | 1613.407 |
| 33 | 41686.77 | -2962693.34 | 1612.664 |
| 34 | 41637.00 | -2962688.56 | 1611.999 |
| 35 | 41617.51 | -2962686.72 | 1611.971 |
| 36 | 41790.20 | -2962653.73 | 1615.394 |
| 37 | 41741.32 | -2962648.35 | 1614.312 |
| 38 | 41691.55 | -2962643.57 | 1613.491 |
| 39 | 41641.78 | -2962638.79 | 1612.821 |
| 40 | 41621.03 | -2962636.83 | 1612.664 |
| 41 | 41793.34 | -2962603.32 | 1616.306 |
| 42 | 41746.10 | -2962598.57 | 1615.342 |
| 43 | 41696.33 | -2962593.80 | 1614.566 |
| 44 | 41646.56 | -2962589.02 | 1613.926 |
| 45 | 41624.04 | -2962586.72 | 1613.715 |
| 46 | 41796.44 | -2962553.15 | 1617.298 |
| 47 | 41750.88 | -2962548.80 | 1616.512 |
| 48 | 41701.11 | -2962544.02 | 1615.713 |
| 49 | 41651.33 | -2962539.25 | 1615.085 |
| 50 | 41627.12 | -2962537.01 | 1614.765 |
| 51 | 41799.57 | -2962503.50 | 1618.271 |
| 52 | 41755.66 | -2962499.03 | 1617.616 |
| 53 | 41705.88 | -2962494.25 | 1616.812 |
| 54 | 41656.11 | -2962489.47 | 1616.097 |
| 55 | 41630.18 | -2962487.01 | 1615.721 |
| 56 | 41802.72 | -2962454.23 | 1619.234 |
| 57 | 41760.43 | -2962449.26 | 1618.630 |
| 58 | 41710.66 | -2962444.48 | 1617.835 |
| 59 | 41660.89 | -2962439.70 | 1617.168 |
| 60 | 41633.31 | -2962437.08 | 1616.704 |

### STANDBY ADF BASIN EXCAVATION SETOUT TABLE WGS84 LO 29

| POINT No. | EASTING (m) | NORTHING (m) | POINT ELEVATION (m) |
|---|---|---|---|
| 61 | 41805.93 | -2962403.69 | 1620.098 |
| 62 | 41765.21 | -2962399.49 | 1619.536 |
| 63 | 41715.44 | -2962394.71 | 1618.713 |
| 64 | 41665.67 | -2962389.93 | 1617.913 |
| 65 | 41636.55 | -2962387.16 | 1617.567 |
| 66 | 41809.38 | -2962353.80 | 1620.763 |
| 67 | 41769.99 | -2962349.72 | 1620.255 |
| 68 | 41720.22 | -2962344.94 | 1619.462 |
| 69 | 41670.45 | -2962340.16 | 1618.737 |
| 70 | 41640.24 | -2962337.29 | 1618.317 |
| 71 | 41812.60 | -2962303.55 | 1621.547 |
| 72 | 41774.77 | -2962299.95 | 1620.953 |
| 73 | 41725.00 | -2962295.17 | 1620.112 |
| 74 | 41675.23 | -2962290.39 | 1619.345 |
| 75 | 41643.79 | -2962287.39 | 1618.867 |
| 76 | 41816.02 | -2962253.59 | 1622.213 |
| 77 | 41779.55 | -2962250.18 | 1621.610 |
| 78 | 41729.78 | -2962245.40 | 1620.706 |
| 79 | 41680.01 | -2962240.62 | 1619.834 |
| 80 | 41647.24 | -2962237.49 | 1619.537 |
| 81 | 41819.50 | -2962203.75 | 1622.785 |
| 82 | 41784.33 | -2962200.41 | 1622.255 |
| 83 | 41734.56 | -2962195.63 | 1621.326 |
| 84 | 41684.79 | -2962190.85 | 1620.417 |
| 85 | 41651.45 | -2962187.67 | 1620.179 |
| 86 | 41822.71 | -2962154.72 | 1623.502 |
| 87 | 41789.11 | -2962150.63 | 1622.879 |
| 88 | 41739.34 | -2962145.86 | 1621.980 |
| 89 | 41689.57 | -2962141.08 | 1621.090 |
| 90 | 41655.11 | -2962137.83 | 1620.522 |

### STANDBY ADF BASIN EXCAVATION SETOUT TABLE WGS84 LO 29

| POINT No. | EASTING (m) | NORTHING (m) | POINT ELEVATION (m) |
|---|---|---|---|
| 91 | 41826.48 | -2962102.78 | 1624.228 |
| 92 | 41793.89 | -2962100.86 | 1623.622 |
| 93 | 41744.12 | -2962096.08 | 1622.642 |
| 94 | 41694.34 | -2962091.31 | 1621.725 |
| 95 | 41658.94 | -2962087.93 | 1621.308 |
| 96 | 41829.62 | -2962053.22 | 1625.008 |
| 97 | 41798.67 | -2962051.09 | 1624.341 |
| 98 | 41748.89 | -2962046.31 | 1623.250 |
| 99 | 41699.12 | -2962041.53 | 1622.390 |
| 100 | 41662.21 | -2962038.03 | 1622.094 |
| 101 | 41833.32 | -2962004.12 | 1625.431 |
| 102 | 41803.44 | -2962001.32 | 1624.481 |
| 103 | 41753.67 | -2961996.54 | 1623.809 |
| 104 | 41703.90 | -2961991.76 | 1623.077 |
| 105 | 41665.55 | -2961986.74 | 1623.017 |
| 106 | 41835.26 | -2961966.89 | 1625.822 |
| 107 | 41813.96 | -2961935.62 | 1625.731 |
| 108 | 41758.45 | -2961946.77 | 1624.723 |
| 109 | 41708.68 | -2961941.99 | 1623.908 |
| 110 | 41669.12 | -2961924.83 | 1623.736 |
| 111 | 41789.95 | -2961901.39 | 1625.877 |
| 112 | 41763.23 | -2961897.00 | 1625.859 |
| 113 | 41713.46 | -2961892.22 | 1624.957 |
| 114 | 41673.79 | -2961850.90 | 1625.071 |
| 115 | 41750.37 | -2961846.13 | 1625.927 |
| 116 | 41718.24 | -2961842.45 | 1625.561 |
| 117 | 41676.88 | -2961801.21 | 1625.912 |
| 118 | 41715.36 | -2961792.16 | 1626.444 |
| 119 | 41680.14 | -2961757.42 | 1626.822 |

**NOTE(S)**

- SETOUT TABLES ELEVATIONS ARE DEPENDENT ON EXCAVATION DEPTH CALCULATED DURING THE MATERIAL BALANCE. IF THE MATERIAL BALANCE CHANGES, ALL ELEVATIONS IN THE SETOUT TABLES HAVE TO BE UPDATED. CURRENT SETOUT TABLE ELEVATIONS ARE BASED ON REV0 OF THE MATERIAL BALANCE.
- INVERT ELEVATIONS ARE TO TOP OF CLAY.

ISSUED FOR

**INFORMATION**

Franco Small
Pr.Eng. 20170153

Lo 29
SOUTH AFRICAN SURVEY GRID
WGS84 DATUM
FEBRUARY 2021

THIS DRAWING HAS BEEN CREATED ON A C.A.D. SYSTEM. ANY AMENDMENT MUST BE EFFECTED ON THE SAME SYSTEM.

| REV | DATE | INDEX REFERENCE: | MPM BY | DL CHKD BY | FS AUTH BY | KKS APP | REFERENCE DWG. No. | REFERENCE DRAWINGS |
|---|---|---|---|---|---|---|---|---|
| A | 21/06/10 | ISSUED FOR INFORMATION | | | | | | |

| | | | | |
|---|---|---|---|---|
| DRG REGISTERED | 01 12 17 | | AUTHORISED FOR ESKOM BY: | DATE |
| DESIGN APPROVED | 01 12 17 | FS | DK | 02/03/18 |
| KKS APP | 01 12 17 | | AUTHORISED FOR ESKOM BY: | DATE |
| AUTH BY | 01 12 17 | FS | AK | 02/03/18 |
| CHKD BY | 01 12 17 | DL | ESKOM HOLDINGS LTD. REG. No. 2002/015527/06 | |
| DRAWN BY | 01 12 17 | MPM | | |
| SCALE | AS SHOWN | | | |

TUTUKA ASH DUMP VOLUME INCREASE PROJECT
PHASE 1 DETAILED DESIGN
STANDBY ADF BASIN EXCAVATION
LAYOUT, SO INFO & TABLES

Eskom Enterprises

| SHEET | REV. |
|---|---|
| 06 | A |

0,61 /96775

SIZE GROOTTE A0L