



TRENCH COVER LAYOUT PLAN

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SECTION H-H BEARER CHANNEL (NTS)

BEARER CHANNEL SCALE 1:10

SECTION M-M CABLE DUCT AND TRENCH DETAIL SCALE 1:25

- NOTES:
1. ALL STRUCTURAL USE OF STEEL TO CONFORM TO SANS 10162.
 2. GRADE OF STEEL TO BE SANS 1431 GRADE 350WA.
 3. STEELWORK TO BE HOT DIP GALVANIZED TO SANS 121.
 4. STEELWORK TO BE CHECKED AND STRAIGHTENED AFTER GALVANIZING.
 5. BOLTS, NUTS AND WASHERS TO BE IN ACCORDANCE WITH SANS 1700.
 6. NO EXTENSIONS WILL BE ALLOWED ON ANY STEELWORK.
 7. GALV. STEEL - CLEAN OFF WITH GALVOKLEEN PREPARE APPLY 1x COAT CALCIUM PLUMBATE PRIMER, 1x UNIVERSAL UNDERCOAT AND 2x FINISHING COATS APPROVED GLOSS ENAMEL PAINT.
 8. TRENCH COVERS TO BE USED ARE 4.5mm GALV. VASTRAP CHEQUER PLATES PLACED ON 90x65x8mm GALV. UNEQUAL ANGLE.
 9. TRENCH COVERS, CHANNELS AND UNEQUAL ANGLES REQUIRED FOR THE INSTALLATION OF TYPE O TRENCH COVER SHOULD BE MEASURED, CUT, CLEAN AND TREATED (AS STATED ON NOTE 7) ON SITE. THIS ACTIVITY SHOULD BE INCLUDED WHEN PRICING.
 10. TRENCH COVERS, "4.5mm VASTRAP", COVERS TO HAVE 25mm LIFTING HOLES THROUGH IN POSITIONS AS INDICATED.
 11. 90x65x8mm GALV. UNEQUAL ANGLE TO BE FIXED TO THE WALL ALONG PERIMETER OF THE TRENCH WITH M10 HEAVY DUTY BOLTS AT 800mm CRS.
 12. CABLE DUCT TRENCHES POSITIONS AND CABLE DUCT TRENCHES WIDTH TO BE DETERMINED ACCORDING TO SUBSTATION LAYOUT. ALL SLEEVES TO HAVE SLOW BENDS.

STEEL SCHEDULE AND MASS - TRENCH COVER SUPPORT					
ITEM	QTY	DESCRIPTION	CUTTING LENGTH (mm)	TOTAL LENGTH (m)	TOTAL MASS (kg)
TCA 1	1	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	4390	4.39	40.52
TCA 2	2	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	3880	7.76	71.62
TCA 3	2	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	2500	5.00	46.15
TCA 4	28	MILD STEEL GALV. LIPPED CHANNEL 100x75x20x2.5	1230	34.44	182.88
TCA 5	1	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	4390	4.39	40.52
TOTAL MASS =					381.69

STEEL SCHEDULE AND MASS - TRENCH COVER QUANTITIES					
ITEM	QTY	DESCRIPTION	CUTTING LENGTH	TOTAL LENGTH	TOTAL MASS (kg)
A	9	VASTRAP CHEQUER PLATE (1245x760)	0.946m ²	8.51m ²	321.42
B	3	VASTRAP CHEQUER PLATE (1245x760)	0.946m ²	2.84m ²	107.27
C	2	VASTRAP CHEQUER PLATE (1245x550)	0.685m ²	1.37m ²	51.74
D	2	VASTRAP CHEQUER PLATE (1245x1284)	1.6m ²	3.2m ²	120.86
TOTAL MASS =					601.29

DWG NO.	SHEET NO.	REFERENCE DRAWINGS
D-EC-1740	SHEET 14I	CONTROL ROOM BUILDING 400/230V AC DISTRIBUTION BOARD KEY DIAGRAM
D-EC-1740	SHEET 14H	CONTROL ROOM TOILET, BATTERY ROOM AND SEPTIC TANK DETAILS
D-EC-1740	SHEET 14G	CONTROL ROOM SECURITY GATES SCHEDULE AND DETAILS
D-EC-1740	SHEET 14F	CONTROL ROOM DOORS AND WINDOW SCHEDULE AND DETAILS
D-EC-1740	SHEET 14E	CONTROL ROOM HANDRAIL AND STEPS LAYOUT
D-EC-1740	SHEET 14D	CONTROL ROOM SECTIONS AND DETAILS
D-EC-1740	SHEET 14C	ELECTRICAL CABLES AND EARTHING LAYOUT AND DETAILS
D-EC-1740	SHEET 14A	DETAIL PLAN AND ELEVATIONS
D-EC-1740	SHEET 14	KING WILLIAMSTOWN SUB SWITCH HOUSE EXTENSION GENERAL ARRANGEMENT
054/4311		KING WILLIAMSTOWN SUB SWITCH HOUSE EXTENSION GENERAL ARRANGEMENT

THIS DRAWING IS THE NEW OFFICIAL REVISION AND IT SUPERSEDES ALL OTHER PUBLISHED DRAWINGS					
REV	REVISION DESCRIPTION	BY	CHKD	DATE	PROJECT NO.
0	NEW DRAWING				

Eskom

KING WILLIAMSTOWN CONTROL ROOM TRENCH COVER LAYOUT PLAN AND SECTION DETAILS

AUTH: N WEBBER
DATE: 02/06/2017
CHKD: N HLOMENLINI

SAP No. DATE: 02/06/2017
SCALE 1:50
DRAWING: B HLOMENLINI
DATE: 02/06/2017

D-EC-1740

SET SHEET REVISION
14B 0