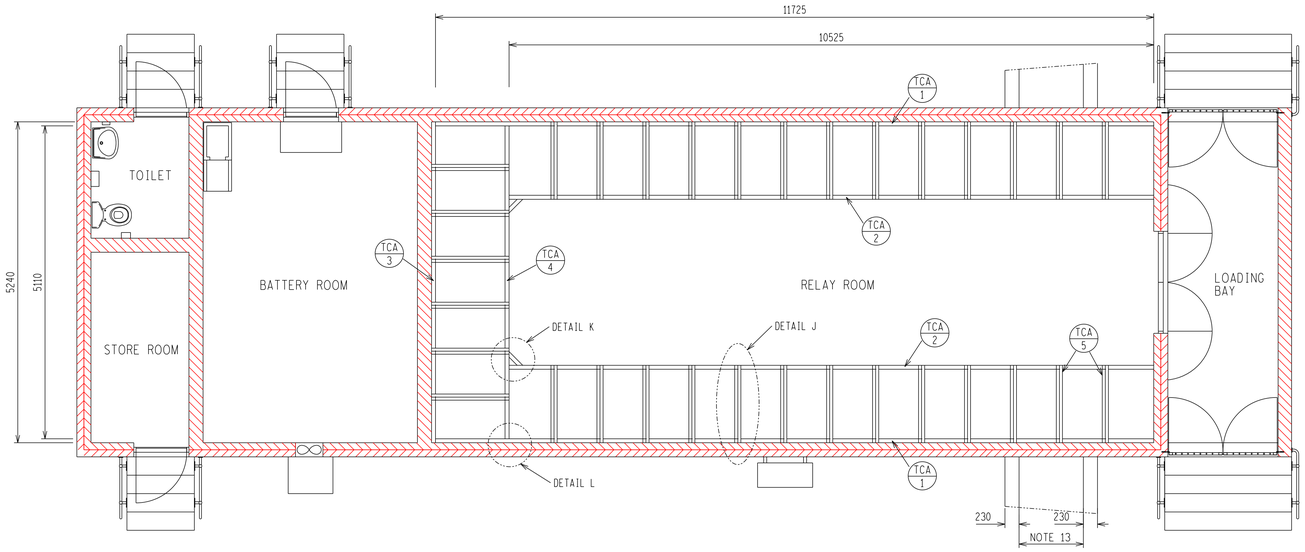
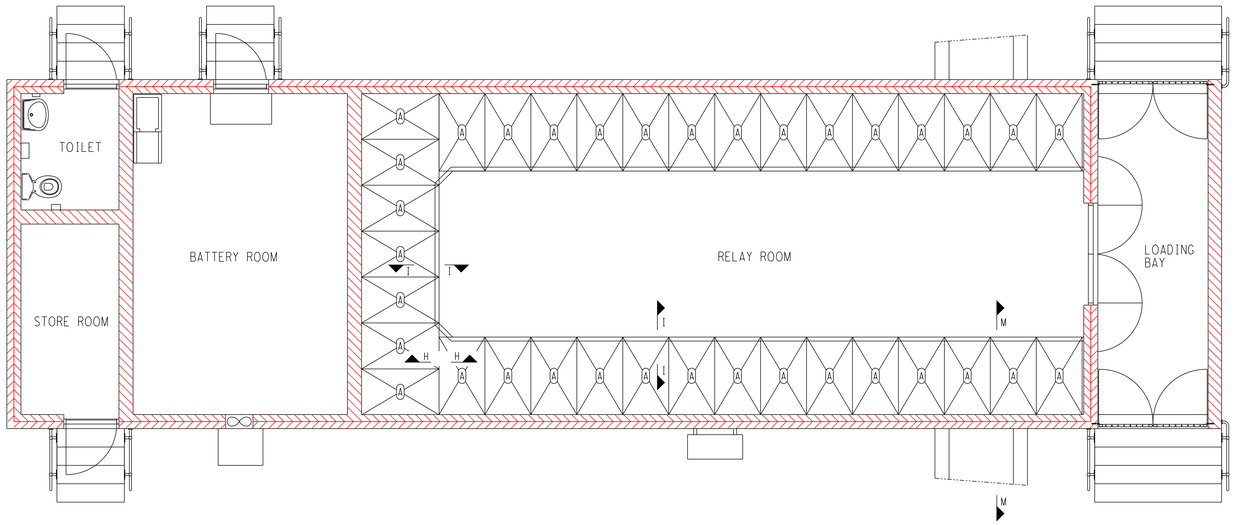
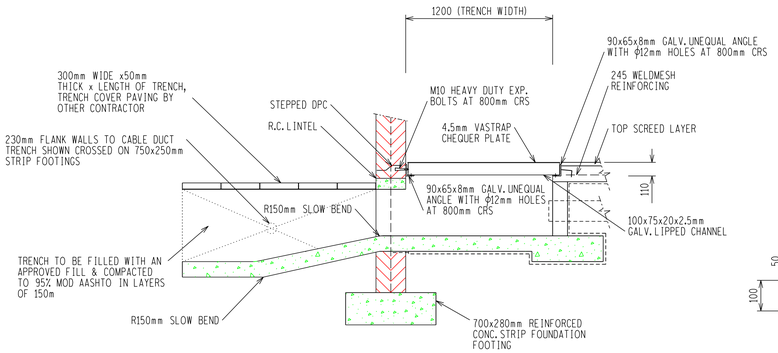


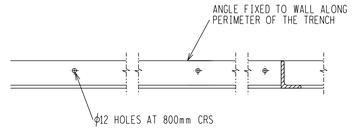
FLOOR CHANNEL LAYOUT PLAN



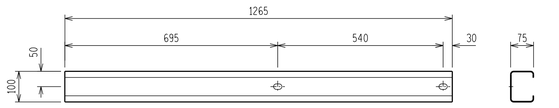
TRENCH COVER PLAN LAYOUT



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

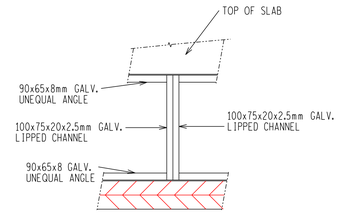


SECTION H-H BEARER CHANNEL
(NTS)

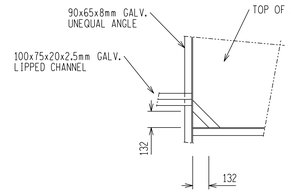


BEARER CHANNEL
SCALE 1:10

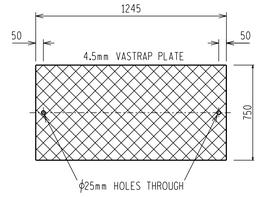
SLOT DETAIL



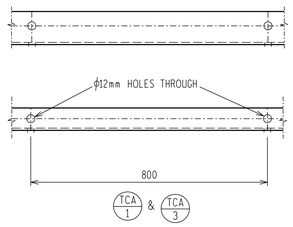
DETAIL J
(NTS)



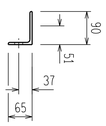
DETAIL K
(NTS)

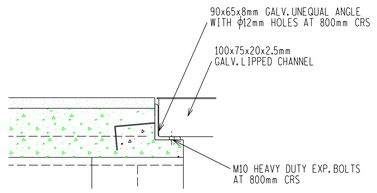


TRENCH COVER DETAIL
(NTS)

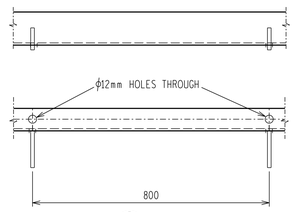


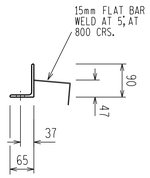
(NTS)

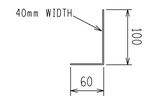




SECTION I-I
(NTS)







15mm FLAT BAR
(NTS)

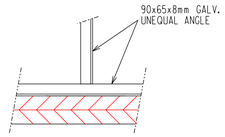
NOTES:
1. ALL STRUCTURAL USE OF STEEL TO CONFORM TO SANS 10162.
2. GRADE OF STEEL TO BE SANS 1431 GRADE 350WA.
3. STEELWORK TO BE HOT DIP GALVANIZED TO SANS 121.
4. STEELWORK TO BE CHECKED AND STRAIGHTENED AFTER GALVANIZING.
5. BOLTS, NUTS AND WASHERS TO BE IN ACCORDANCE WITH SANS 1700.
6. NO EXTENSIONS 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 - RED OXIDE PRIMER, 1x UNIVERSAL UNDERCOAT AND 2x FINISHING COATS APPROVED GLOSS ENAMEL PAINT. COLOUR -LIGHT GREY.
9. TRENCH COVERS TO BE USED ARE 4.5mm VASTRAP CHEQUER PLATES PLACED ON 90x65x8mm GALV. UNEQUAL ANGLE. 35 TYPE A TRENCH COVER PLATES TO BE USED, TYPE A: 1245x750mm.
10. TRENCH COVERS AS SHOWN, 4,5mm "VASTRAP" COVERS TO HAVE ϕ25mm 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. RC LINTEL TO BE USED ABOVE ALL CABLE DUCT TRENCH ENTRANCES INTO THE BUILDING.
13. CABLE DUCT TRENCHS 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	2	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	11725	23.45	218.08
TCA 2	2	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	10525	21.05	195.77
TCA 3	1	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	5240	5.24	48.73
TCA 4	1	MILD STEEL GALV. UNEQUAL ANGLE 90x65x8	5110	5.11	47.52
TCA 5	64	MILD STEEL GALV. LIPPED CHANNEL 100x75x20x2.5	1265	80.96	429.90
		TOTAL MASS =			940

STEEL SCHEDULE AND MASS - TRENCH COVER QUANTITIES

ITEM	QTY	DESCRIPTION	CUTTING LENGTH	TOTAL LENGTH	TOTAL MASS (kg)
A	35	VASTRAP CHEQUER PLATE (1245x750)	0.933m²	32.66m²	1233.89
		TOTAL MASS =			1233.89



DETAIL L
(NTS)

D-DT-5281	SHEET 1A	CONTROL ROOM SECTIONS AND DETAILS
DRG NO.	SHEET NO.	REFERENCE DRAWINGS

THIS DRAWING IS THE NEW OFFICIAL REVISION AND IT SUPERSEDES ALL OTHER PUBLISHED DRAWINGS

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
1	UPDATED REFERENCED DRAWING	BMH	NSH	NMM	11/04/2018	
0	NEW DRAWING				/ /	

Eskom

AUTH: N WEBBER
DATE: 07/01/2015
CHKD: B HLOMENDLINI
DATE: 07/01/2015
DRAWN: G BEETGE
DATE: 07/01/2015

SUBSTATION
CONTROL ROOM: TYPE A
TRENCH COVER LAYOUT PLAN AND SECTION DETAILS

SAP No.
SCALE 1:50
THIS DRAWING IS THE PROPERTY OF ESKOM

D-DT-5280

SET	SHEET	REVISION
	2A	1

A1L