DRAWINGS

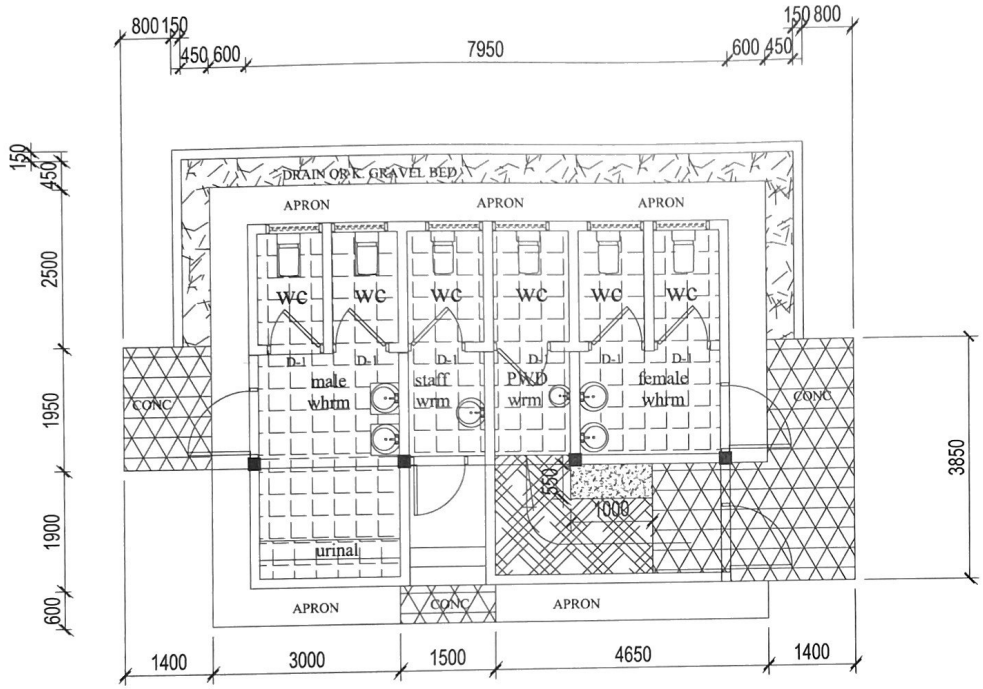
NEW TARGETED AND EMERGENCY PROJECTS (NTEmP)

MFANSTIMAN MUNICIPAL ASSEMBLY,
CENTRAL REGION.

in consultation with the Ghana Education Trust Fund

CONSTRUCTION OF 6-SEATER TOILET BLOCK

SUPERVISION CONSULTANT :
EASTREG COMPANY LIMITED.
P. O. BOX M156,
ACCRA.



BLOCK PLAN
(External works)

LEGEND

	DESCRIPTION	LOCATION	AREA	AREA (M2)
	CONCRETE PAVEMENT	ENTRY	FLOOR	CONCRETE PAVEMENT
	CERAMIC FLOOR TILES	WC, WASH HAND BASIN & URINAL AREA	FLOORS & WALLS	39.54 WALL 21.24 FLOOR
	GRAVEL BED	BACK & SIDES OF BLOCK	FLOOR	GRAVEL BED
	NON SLIP FLOOR TILES	DISABLE ENTRY	FLOOR	NON SLIP FLOOR TILES
	FLOOR SCREED	STAFF ENTRY	FLOOR	FLOOR SCREED

NOTES

FUNDS AND PROCUREMENT MANAGEMENT UNIT
MINISTRY OF EDUCATION
P. O. BOX M45
ACCRA

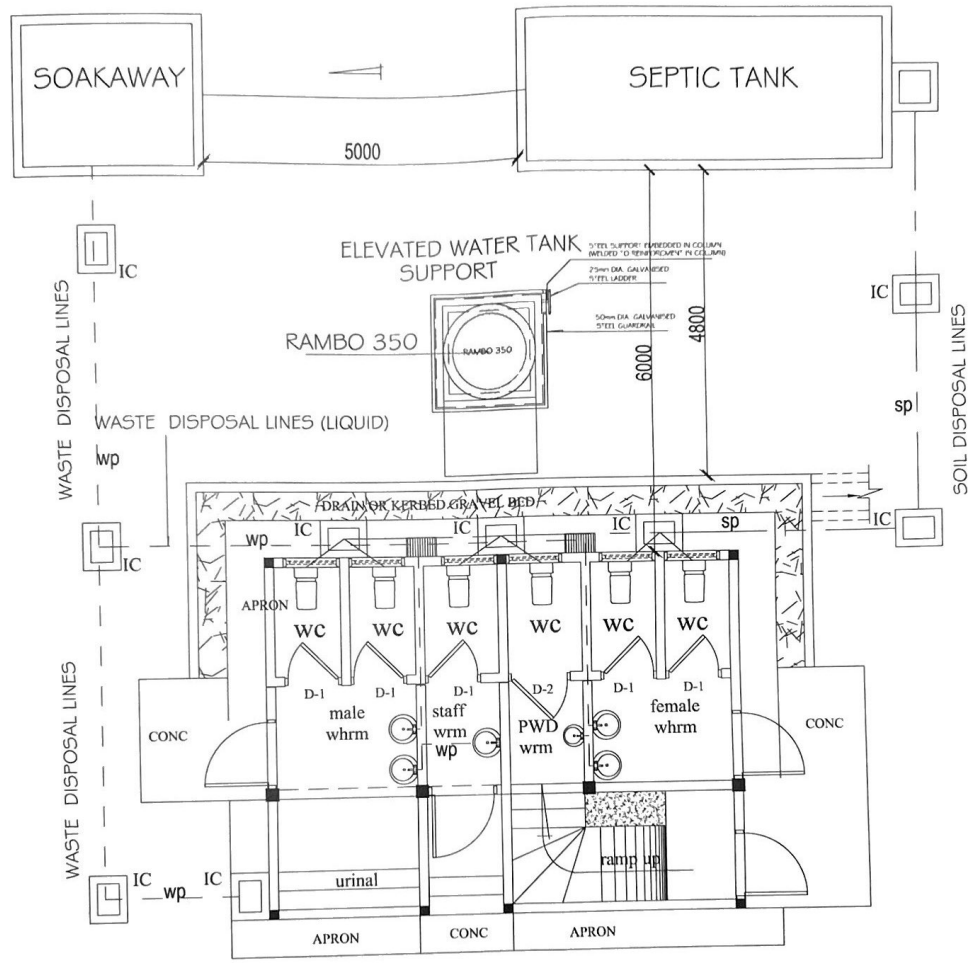
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
BLOCK PLAN & EXTERNAL WORKS

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MEDO
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/6STB/001



BLOCK PLAN
(Service lines)

NOTES

FUNDS AND PROCUREMENT MANAGEMENT UNIT
MINISTRY OF EDUCATION
P. O. BOX M45
ACCRA

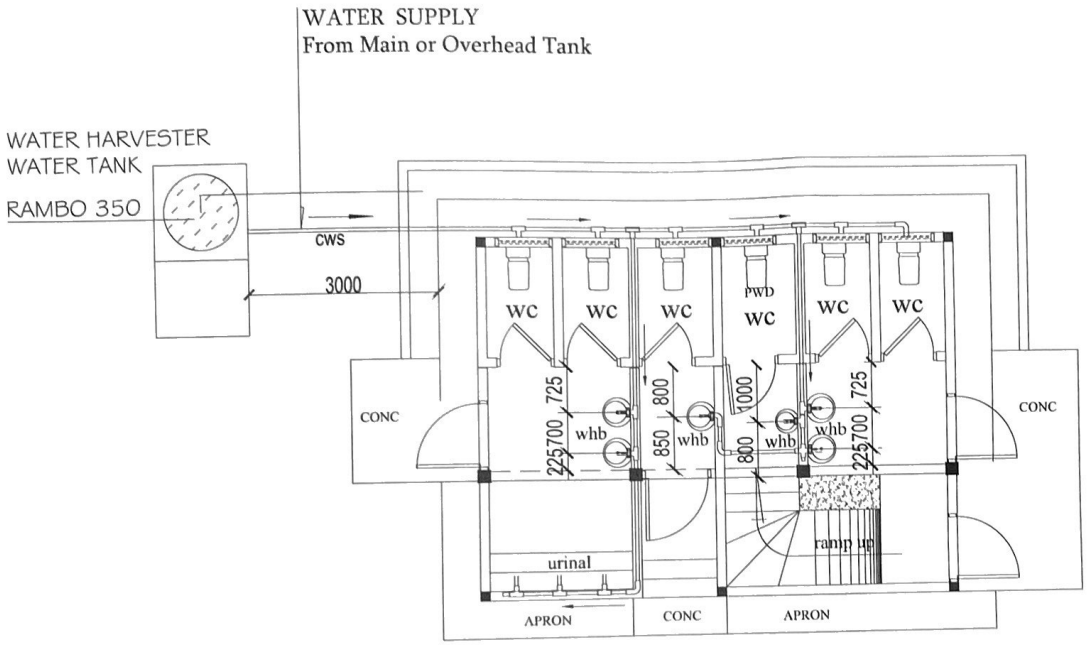
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
BLOCK PLAN & EXTERNAL WORKS

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MKDQ
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/6STB/001A



LEGEND	
	Ø25mm PVC water supply pipe
	'T' PVC for Ø25mm PVC pipe
	'Bend' PVC for Ø25mm PVC pipe
cws	Cold Water Supply
wp	Waste Pipe
sp	Soil Pipe
whb	Washhand Basin

NOTES

BLOCK PLAN
(Water Supply lines)

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MINISTRY OF EDUCATION
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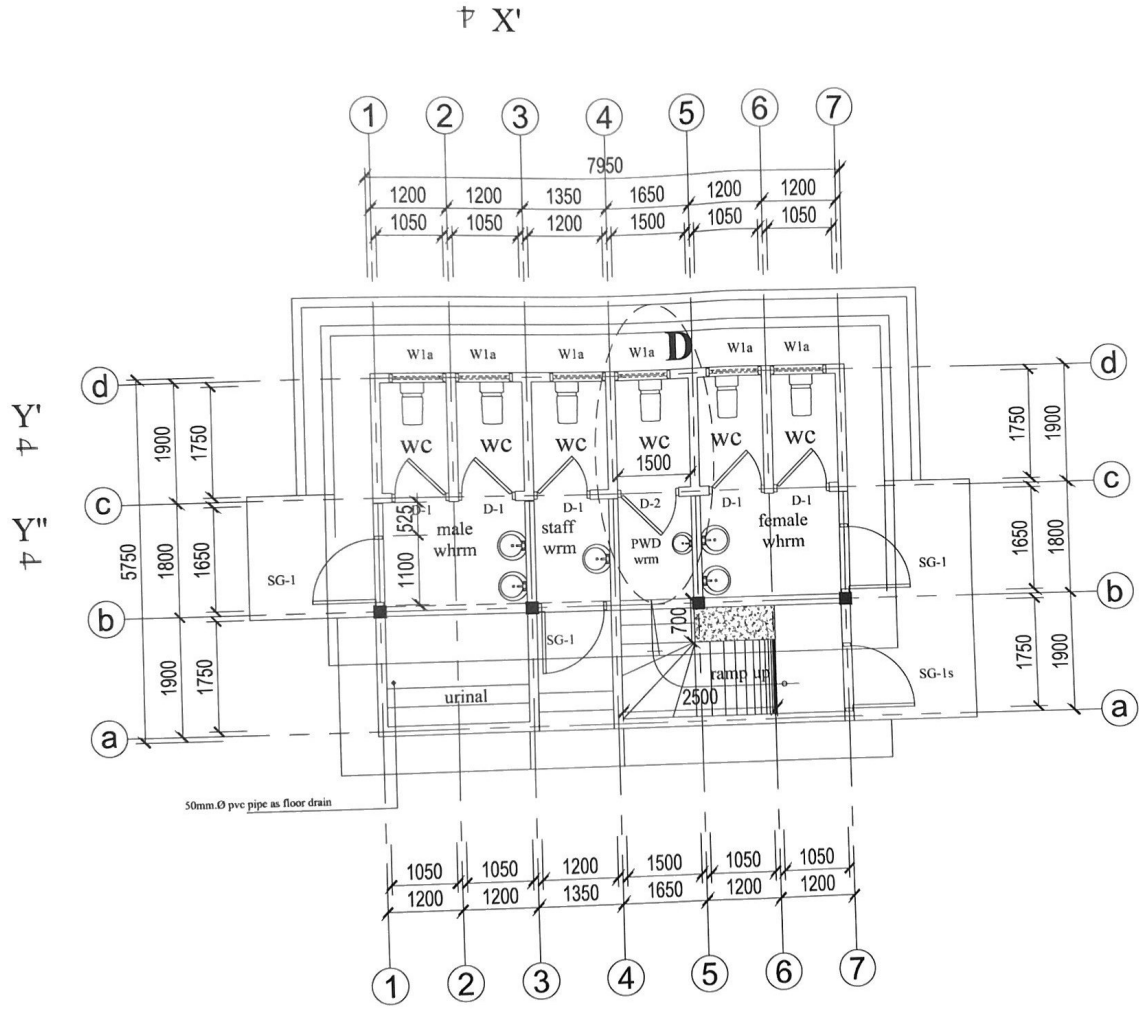
CLIENT
MINISTRY OF EDUCATION

PROJECT
SEIP ADDITIONAL FINANCING

PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
BLOCK PLAN & EXTERNAL WORKS

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MUDO
CHECKED BY	PO
DRAWING NUMBER	MOE/SEIP/6STB/001B



GROUND FLOOR PLAN

NOTES

1 DAMP PROOF MEMBRANE (DPM) IS RECOMMEDED FOR WATER-LOGGED AREAS (A MUST) - TO PREVENT THE OCCURRENCE OF RISING DAMP.

2 GROUND BEAMS ARE RECOMMEDED FOR SITES WHERE THE SOIL TEND TO BE LOOSE AND UNSTABLE

3 THE ARCHITECT/ENGINEER (CLIENTS) ATTENTION MUST BE DRAWN UPON THE INCIDENCE OF ANY OF THE ABOVE.

FUNDS AND PROCUREMENT MANAGEMENT UNIT
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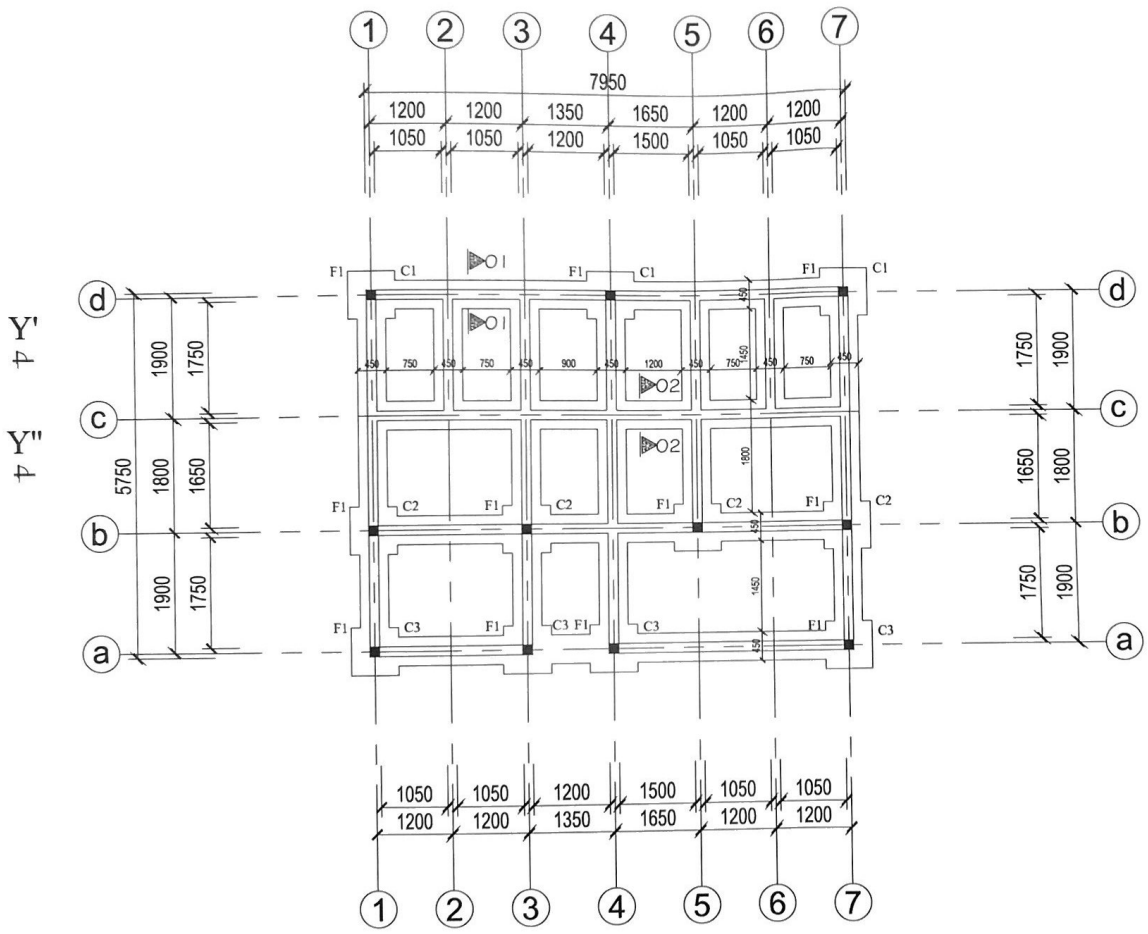
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

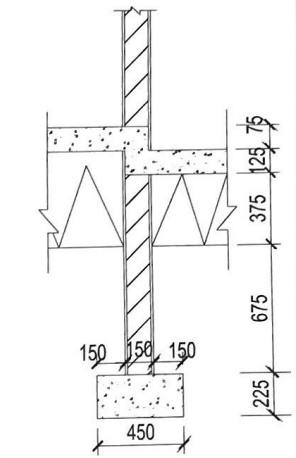
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
GROUND FLOOR PLAN

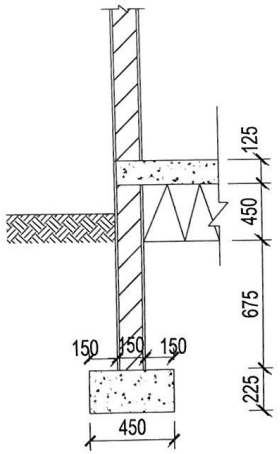
SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MKDO
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/GSTB/002



FOUNDATION PLAN X'



SEC 02-02



SEC 01-01

NOTES

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MINISTRY OF EDUCATION
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ACCRA

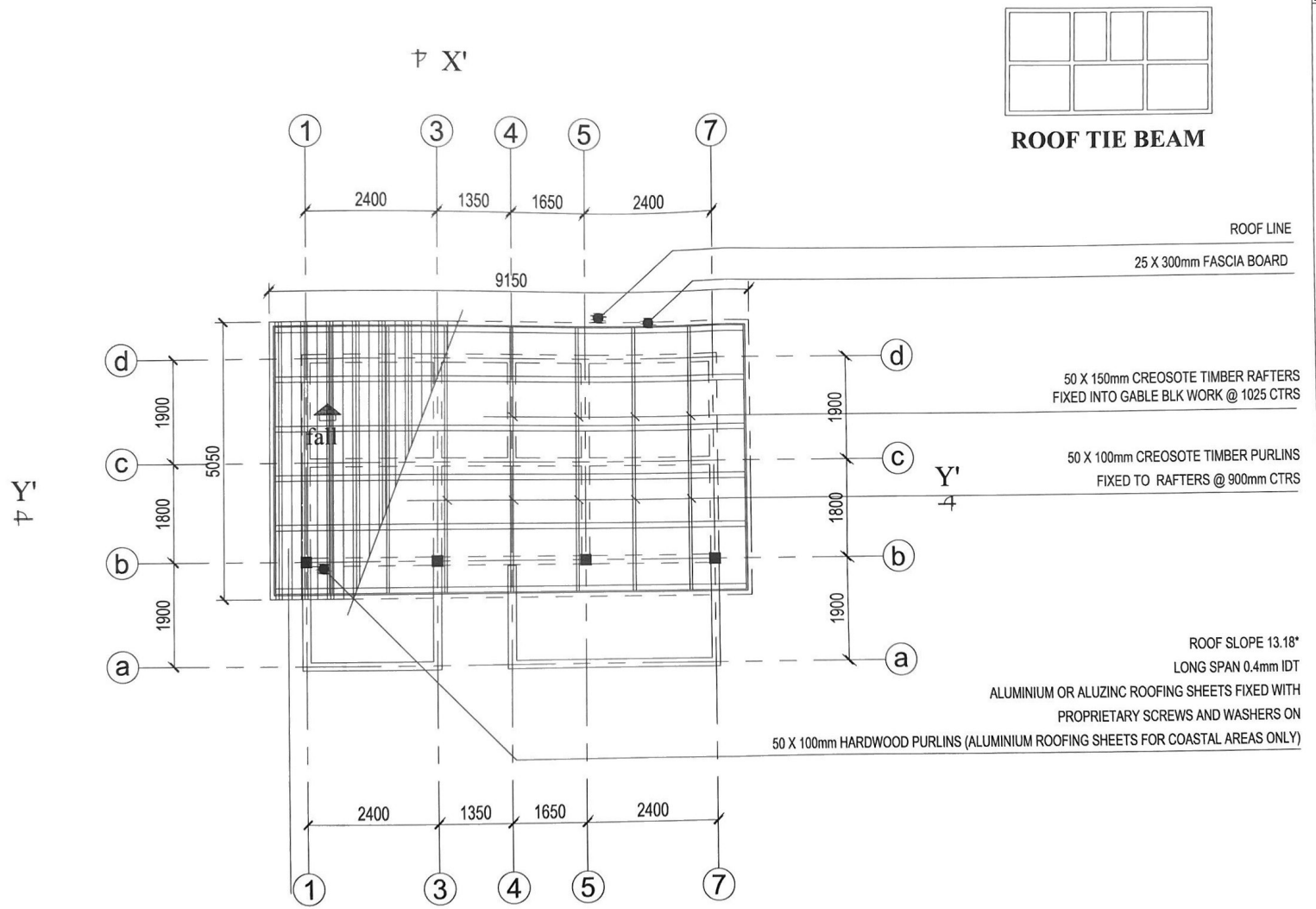
CLIENT: **MINISTRY OF EDUCATION**

PROJECT: **SEIP ADDITIONAL FINANCING**

PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE: **FOUNDATION PLAN**

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MKDO
CHECKED BY	PO
DRAWING NUMBER	MOE/SEIP/6STB/003



ROOF TIE BEAM

ROOF PLAN

NOTES

FUNDS AND PROCUREMENT MANAGEMENT UNIT
MINISTRY OF EDUCATION
P. O. BOX M45
ACCRA

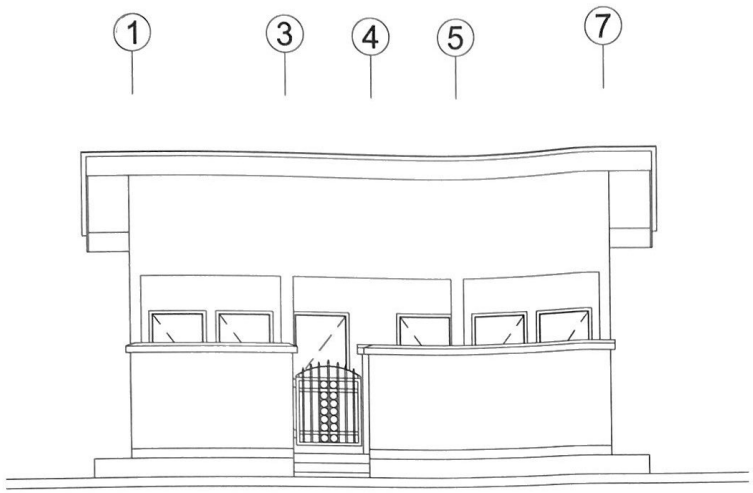
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

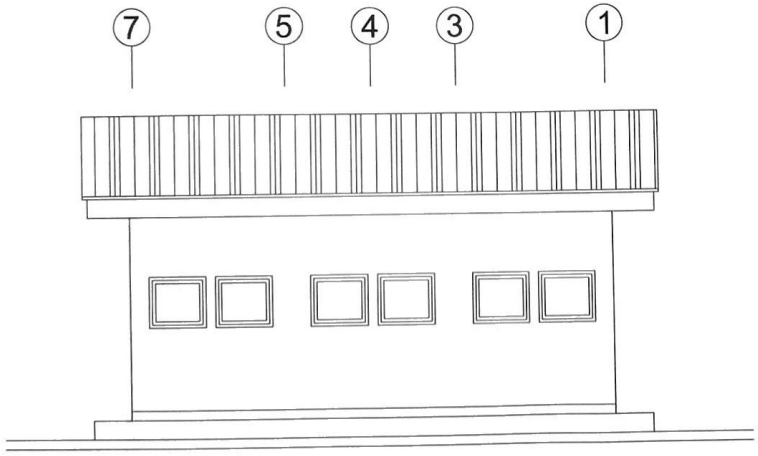
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
ROOF PLAN

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MADQ
CHECKED BY	FO
DRAWING NUMBER	MOE/ESHSP/6STB/004



FRONT ELEVATION



BACK ELEVATION

NOTES

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MINISTRY OF EDUCATION
P. O. BOX M45
ACCRA

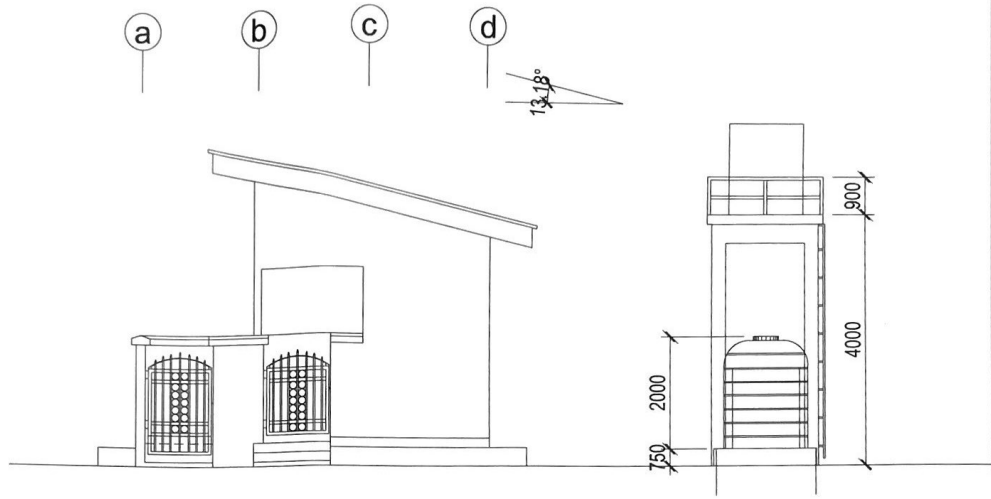
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

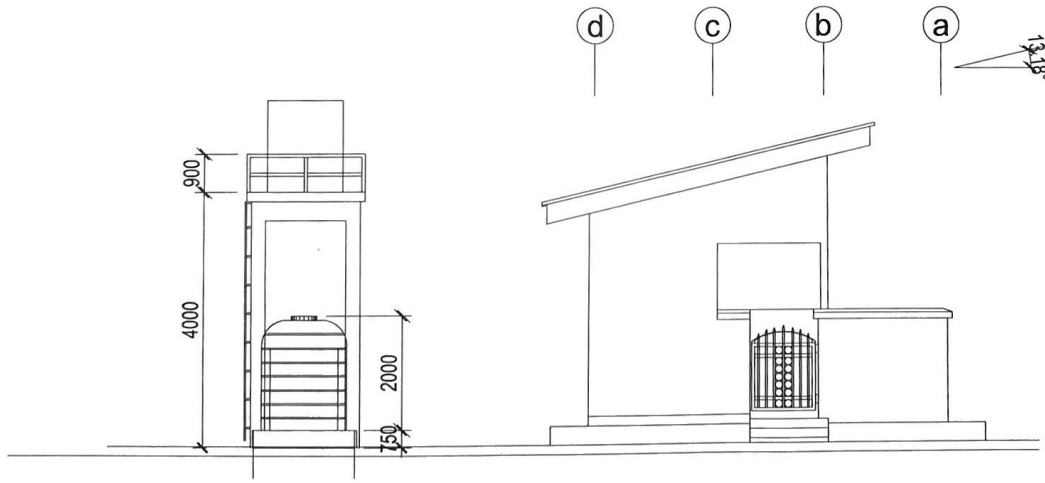
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
ELEVATIONS

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MEDQ
CHECKED BY	PD
DRAWING NUMBER	MOE/ESHSP/6STB/005



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

NOTES

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PROJECT
EMERGENCY SHS PROJECT

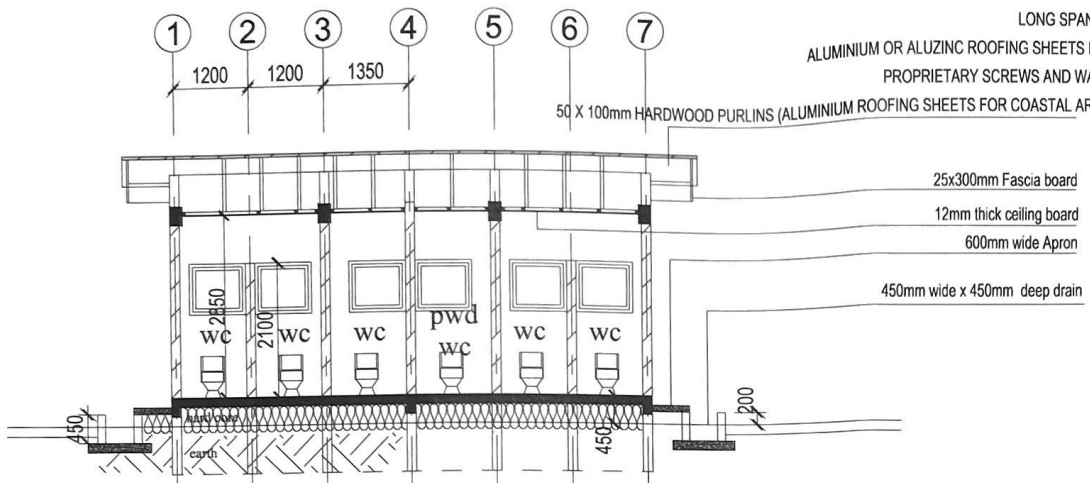
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
ELEVATIONS

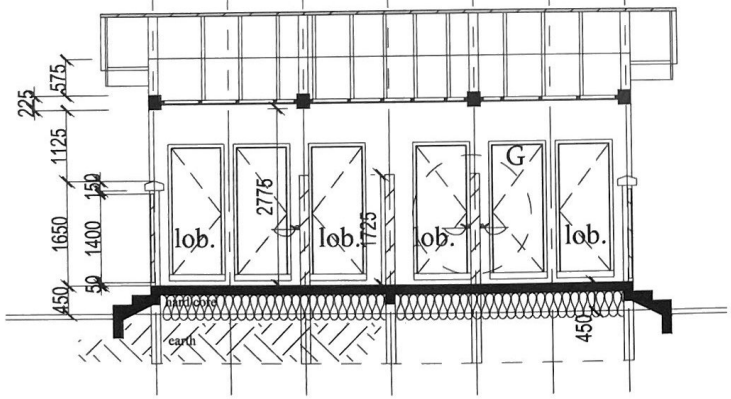
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DRAWN BY	MKDQ
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NOTES

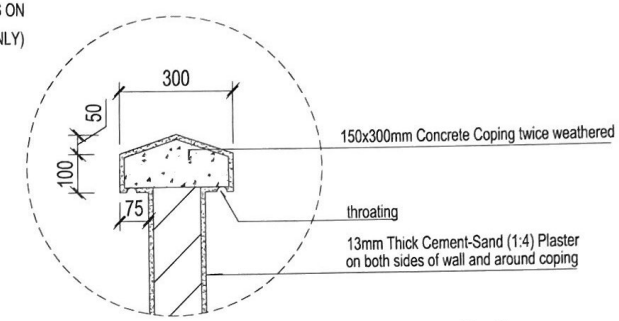
ROOF SLOPE 13.18°
LONG SPAN 0.4mm IDT
ALUMINIUM OR ALUZINC ROOFING SHEETS FIXED WITH
PROPRIETARY SCREWS AND WASHERS ON
50 X 100mm HARDWOOD PURLINS (ALUMINIUM ROOFING SHEETS FOR COASTAL AREAS ONLY)



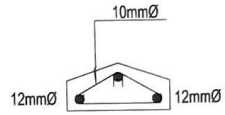
SECTION Y'-Y'



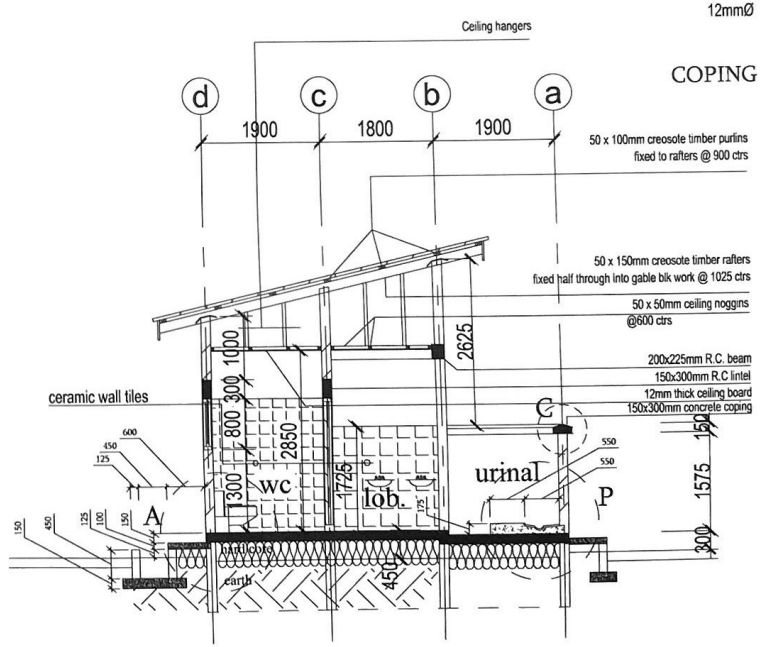
SECTION Y"-Y"



DETAIL C - COPING



COPING REINFORCEMENT



SECTION X'-X'

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CLIENT: **MINISTRY OF EDUCATION**

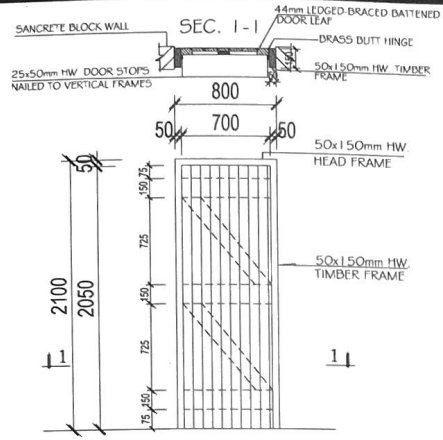
PROJECT: **EMERGENCY SHS PROJECT**

PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

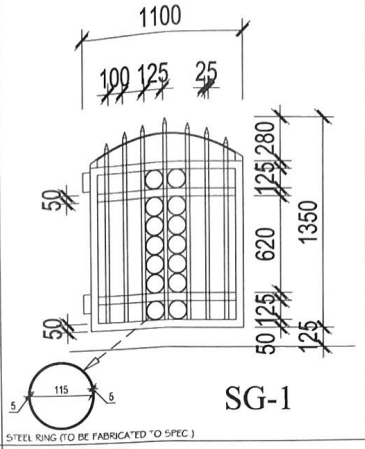
SHEET TITLE: **SECTIONS**

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	DA
DRAWN BY	MEDQ
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/6STB/006

DOOR & SCHEDULE

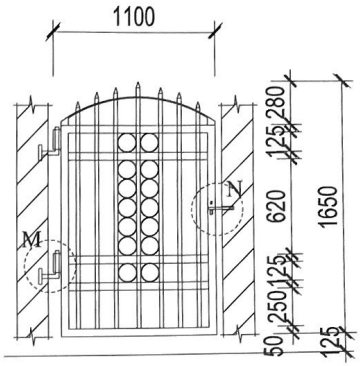


D-1

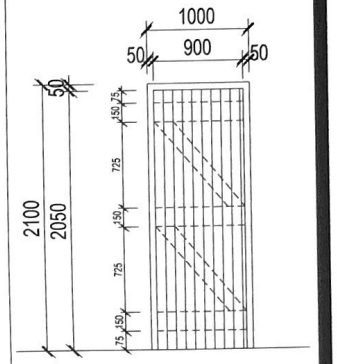


STEEL RING (TO BE FABRICATED TO SPEC.)

SG-1



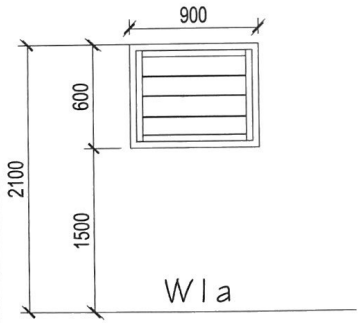
SG-1s



D-2

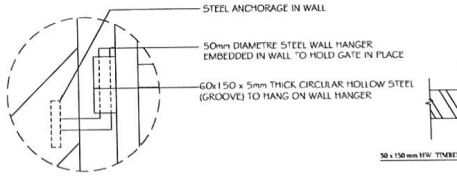
	D-1	SG-1	SG-1s	D-2
DESCRIPTION	TIMBER LEDGED, BRACED AND BATTENED DOOR	METAL (STEEL) GATE (WELDED WITH 50mm & 25mm SQUARE PIPES)	METAL (STEEL) GATE (WELDED WITH 50mm & 25mm SQUARE PIPES)	TIMBER LEDGED, BRACED AND BATTENED DOOR
FINISH	1 UNDER COAT ALUMINIUM PRIMER AND 2 COATS OIL PAINT.	1 UNDER COAT ALUMINIUM PRIMER AND 2 COATS OIL PAINT.	1 UNDER COAT ALUMINIUM PRIMER AND 2 COATS OIL PAINT.	1 UNDER COAT ALUMINIUM PRIMER AND 2 COATS OIL PAINT.
LOCATION	WC CUBICLES	STAFF, MALE & FEMALE WASHROOMS	DISABLED WASHROOM	DISABLED WASHROOM
NUMBER REQUIRED	5	3	1	1
HINGES	3 NO. 150mm BRASS BUTT HINGES	STEEL WALL HANGERS & LOCKS (SEE DETAIL M & N)	STEEL WALL HANGERS & LOCKS (SEE DETAIL M & N)	3 NO. 150mm BRASS BUTT HINGES
TYPE OF LOCK	HEAVY DUTY PADLOCK (5No.)	HEAVY DUTY PADLOCK (3No.)	HEAVY DUTY PADLOCK (1 No.)	HEAVY DUTY PADLOCK (1 No.)

WINDOW & SCHEDULE

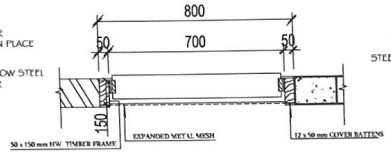


W1a

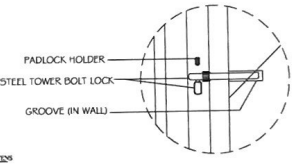
	W1a
DESCRIPTION	1 BAY TIMBER FRAMED 4 BLADE NACO CARRIER WITH 6x150MM PLAIN GLASS BLADE FINISHED WITH 2 COATS OIL PAINT.
FINISH	1 UNDER COAT ALUMINIUM PRIMER
LOCATION	WASHROOMS
NUMBER REQUIRED	6
HINGES	——
TYPE OF LOCK	——



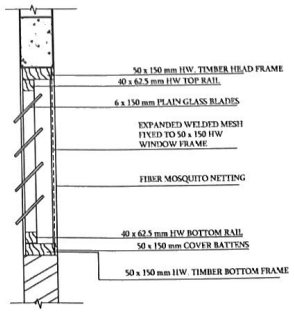
DETAIL M - WALL (STEEL)HANGER



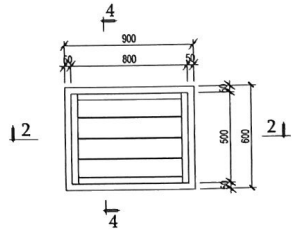
SEC 2 - 2



DETAIL N - LOCK



SEC 4 - 4



W1 (6 No.)

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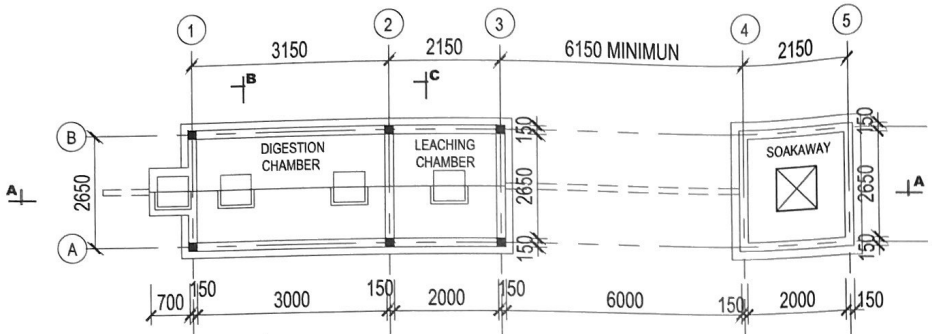
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

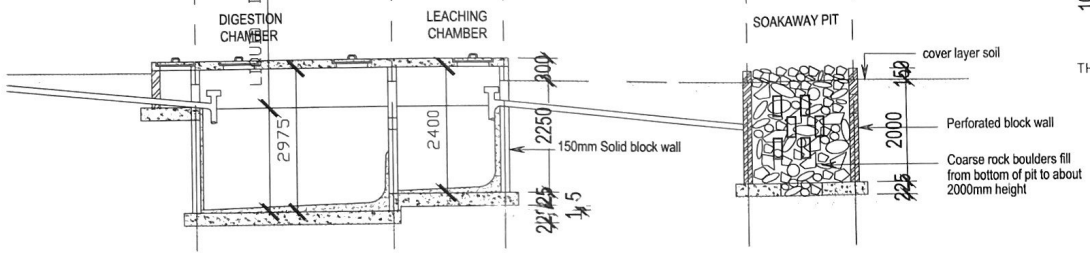
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
DOOR & WINDOW SCHEDULE

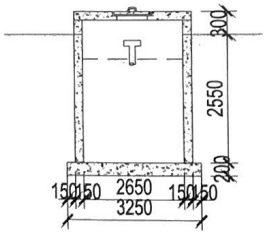
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DESIGNED BY	SA
DRAWN BY	MEDQ
CHECKED BY	PD
DRAWING NUMBER	MOE/ESHSP/6STB/007



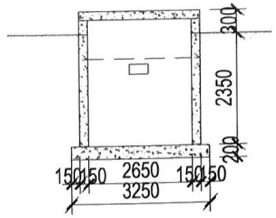
FLOOR PLAN



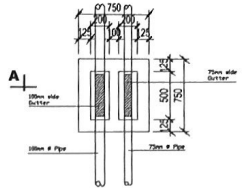
SECTION A - A



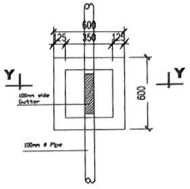
SECTION B - B



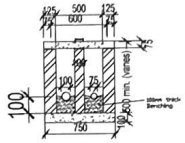
SECTION C - C



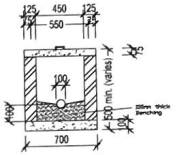
PLAN OF INSPECTION CHAMBER 1



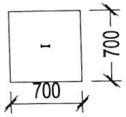
PLAN OF INSPECTION CHAMBER 3



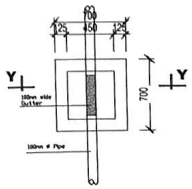
SECTION A - A THROUGH INSPECTION CHAMBER 1



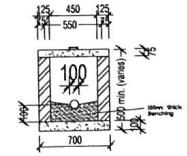
SECTION Y - Y THROUGH INSPECTION CHAMBER 3



PLAN OF INSPECTION CHAMBER 1 (COVER)



PLAN OF INSPECTION CHAMBER 3



SECTION Y - Y THROUGH INSPECTION CHAMBER 3

NOTES

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CLIENT
MINISTRY OF EDUCATION

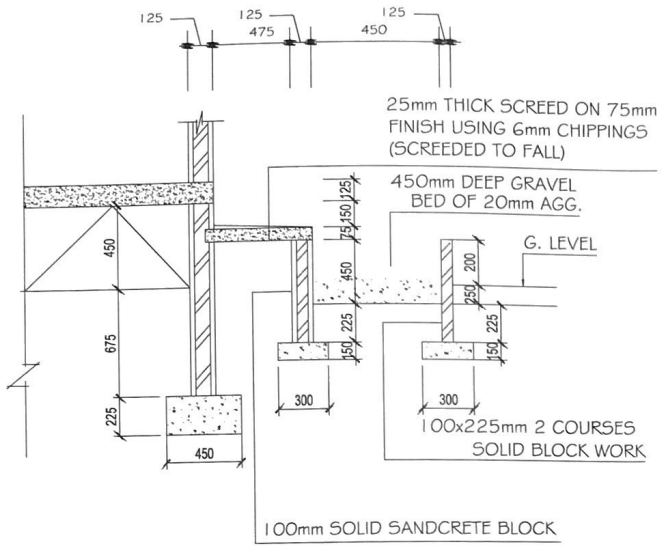
PROJECT
EMERGENCY SHS PROJECT

PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

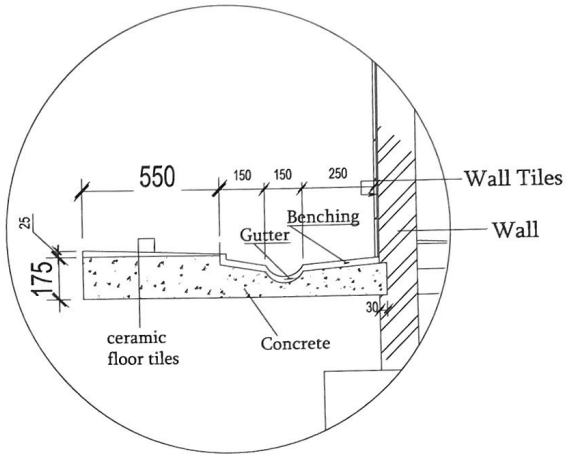
SHEET TITLE
SEPTIC TANK DETAILS

SCALE	1:100
DATE	SEPT 2016
DESIGNED BY	SA
DRAWN BY	MKDQ
CHECKED BY	PO

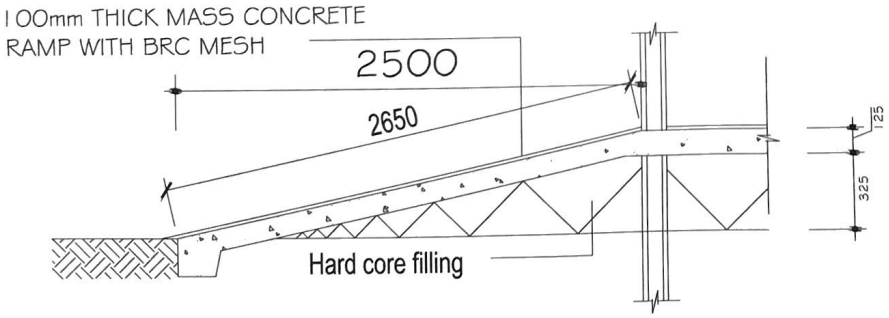
DRAWING NUMBER **MOE/ESHSP/6STB/008**



DETAIL (A) OF KERBED GRAVEL BED / DRAIN DETAIL



DETAIL P - URINAL



RAMP DETAIL

NOTES

FUNDS AND PROCUREMENT MANAGEMENT UNIT
MINISTRY OF EDUCATION
P. O. BOX M45
ACCRA

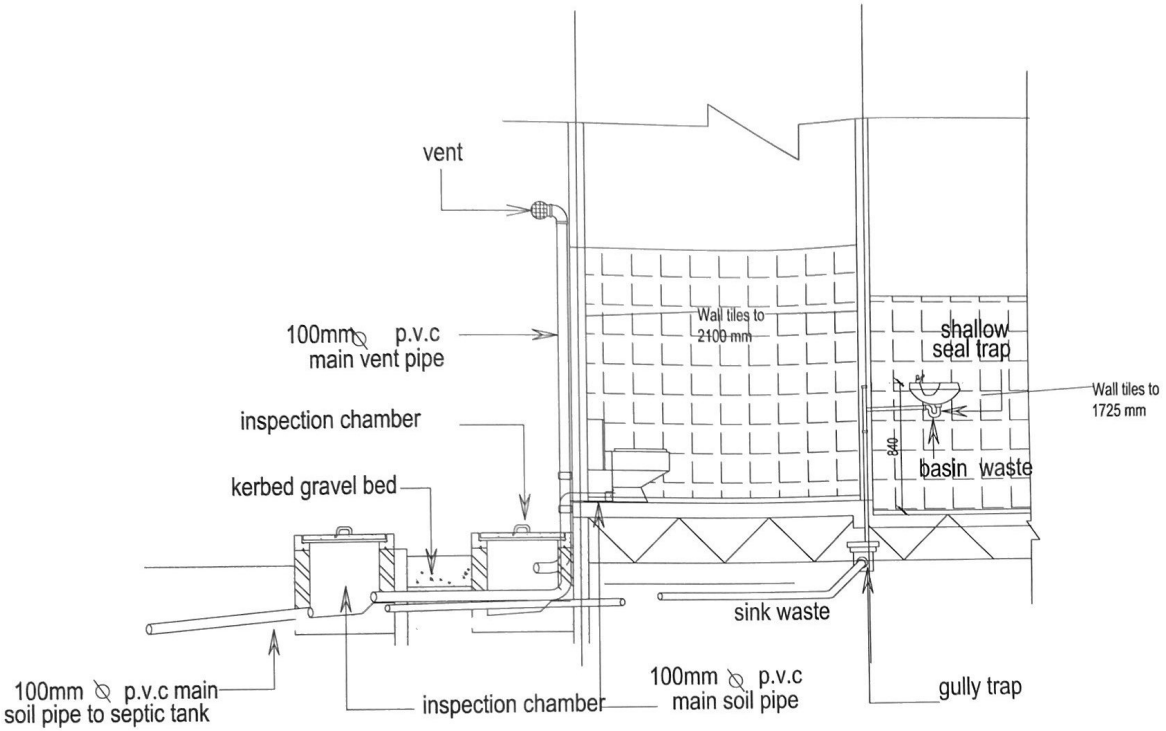
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

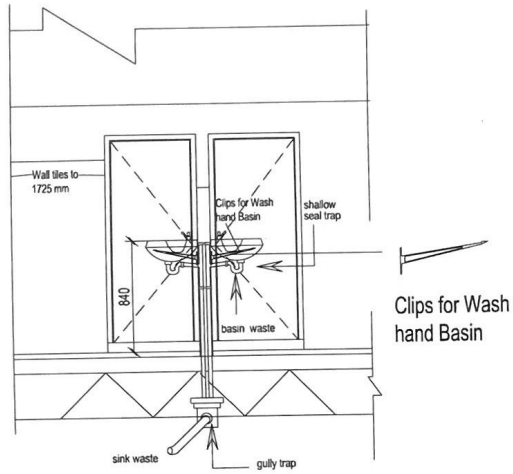
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE
EXTERNAL WORKS DETAILS

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MADQ
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/6STB/013



DETAIL A - PLUMBING DETAILS



DETAIL G - WASH HAND BASIN

FUNDS AND PROCUREMENT MANAGEMENT UNIT
MINISTRY OF EDUCATION
P. O. BOX M45
ACCRA

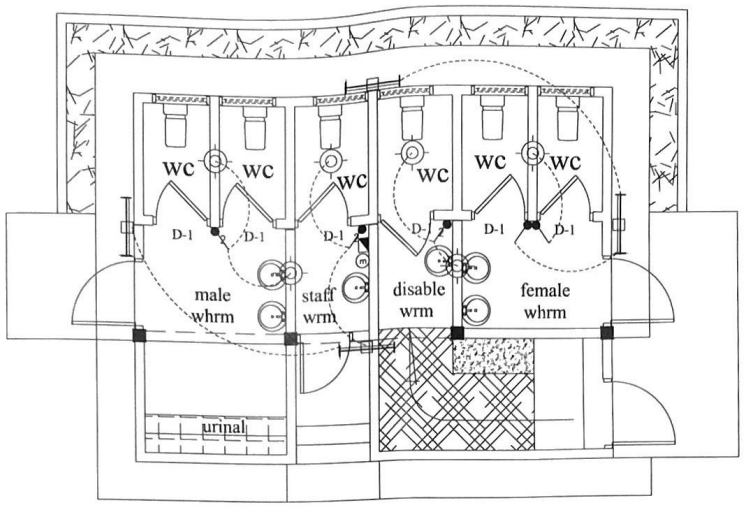
CLIENT: **MINISTRY OF EDUCATION**

PROJECT: **EMERGENCY SHS PROJECT**

PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE: **PLUMBING DETAILS**

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MKDQ
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/6STB/014



LEGEND

ITEM	SYMBOL	DESCRIPTION	GROUND FLOOR	MOUNTING HEIGHT(m)
1		11W, 230V PENDANT OR EQUAL LUMINAIRE WITH ENERGY SAVING LAMP	6	CEILING
2		1X36W, 1200mmX110mm, DUST-TIGHT, JET PROOF CORROSION-RESISTANT FLUORESCENT LUMINAIRE WITH LAMP & DIFFUSER PHILIPS TCW 058 WITH IP65 PROTECTION	4	WALL/ CEILING
3		5A, 230V 1-WAY 1-GANG FLUSH PLATE SWITCH	2	1.35
4		5A, 230V 2-WAY 1-GANG FLUSH PLATE SWITCH	4	1.35
5		FLUSH MOUNTED DISTRIBUTION BOARD	1	1.8
13	(m)	ECG METER	1	1.5

NOTES

FUNDS AND PROCUREMENT MANAGEMENT UNIT
MINISTRY OF EDUCATION
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ACCRA

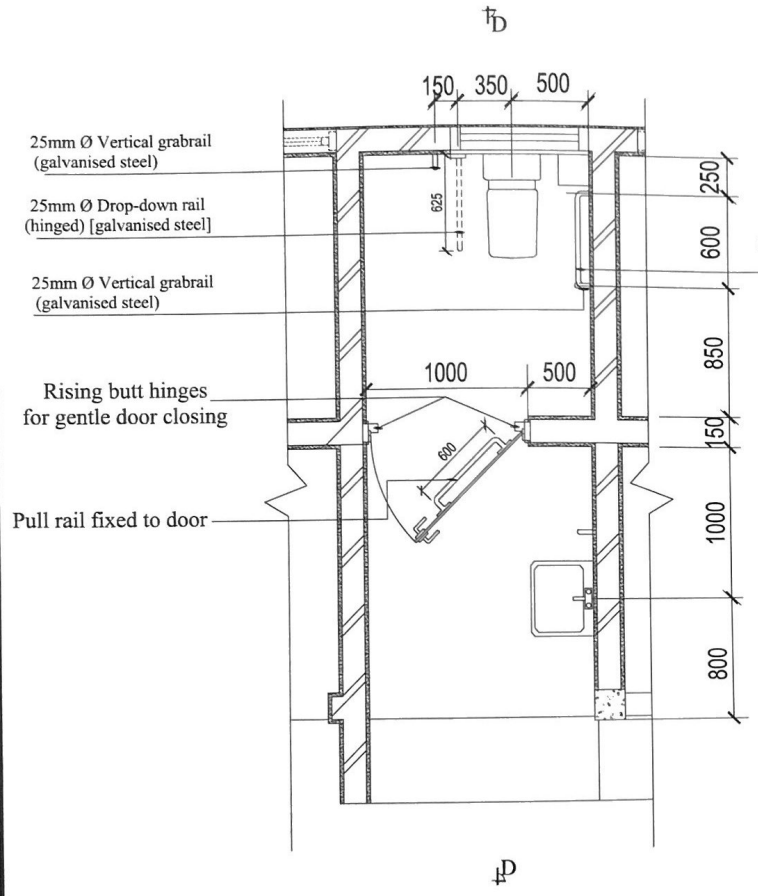
CLIENT
MINISTRY OF EDUCATION

PROJECT
EMERGENCY SHS PROJECT

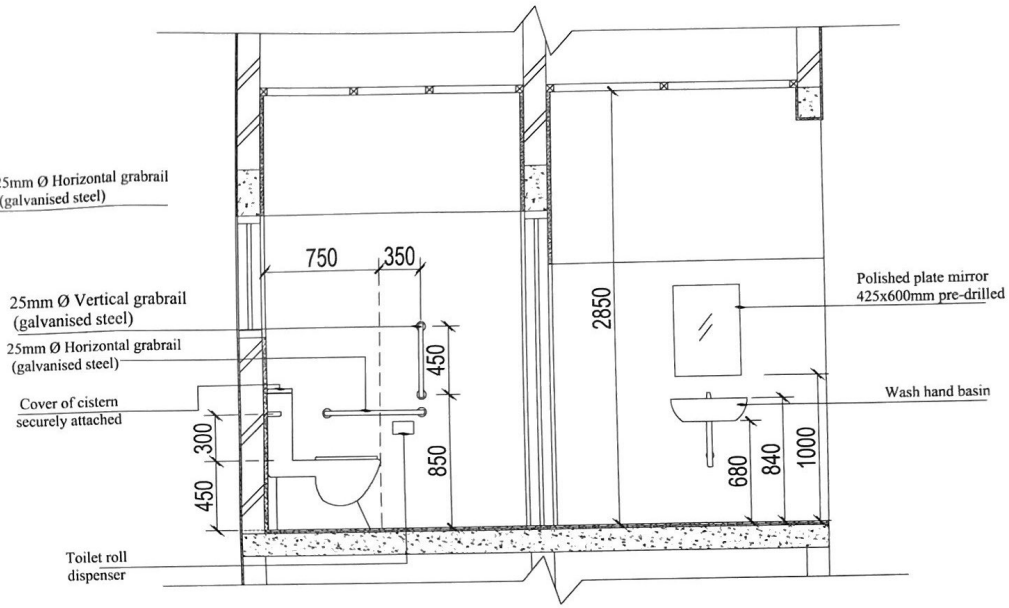
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE

SCALE	1:100
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MKDQ
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/6STB/015



DETAIL D - PART PLAN



SECTION D-D

FUNDS AND PROCUREMENT MANAGEMENT UNIT **MINISTRY OF EDUCATION** P. O. BOX M45 ACCRA	
CLIENT	**MINISTRY OF EDUCATION**
PROJECT	**EMERGENCY SHS PROJECT**
	PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS
SHEET TITLE	**PWD WC DETAILS**
SCALE	1:25
DATE	SEPT 2018
DESIGNED BY	SA
DRAWN BY	MKDQ
CHECKED BY	PD
DRAWING NUMBER	**MOE/ESHSP/6STB/016**

6mm THICK PLYWOOD CEILING FIXED TO CEILING NOGGINS @ 600mmc/c

4No. LOUVRE BLADES IN 'NACO' CARRIERS AS SPECIFIED IN DOOR & WINDOW SCHEDULE

APPROVED ADHESIVE ON CEMENT-SAND RENDERED BACKING (1:3)

250x400mm GLAZED CERAMIC WALL TILES FIXED WITH APPROVED ADHESIVE ON CEMENT-SAND RENDERED BACKING. LAYING/GROUTING GAP 5mm. fin. thickness 20mm

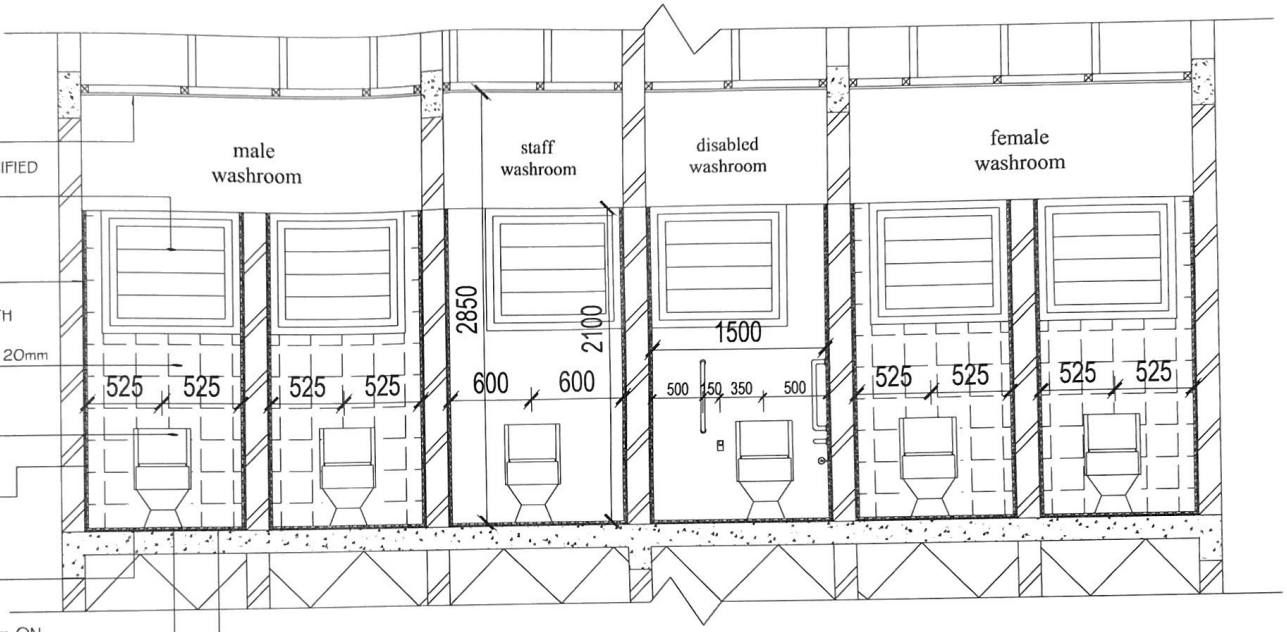
APPROVED WC BOWL & CISTERN

5mm THICK LAYING/GROUTING GAP

5mm THICK LAYING/GROUTING GAP

NON-SLIP PORCELAIN FLOOR TILES 300x300mm ON SCREEDED BED. FINISHED THICKNESS 50mm

CEMENT-SAND (1:3) SCREEDED BED



DETAIL OF SECTION Y'-Y'

FUNDS AND PROCUREMENT MANAGEMENT UNIT
MINISTRY OF EDUCATION
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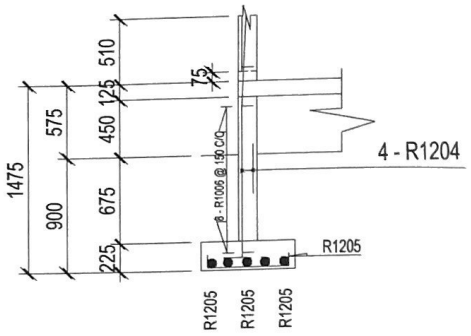
CLIENT: **MINISTRY OF EDUCATION**

PROJECT: **EMERGENCY SHS PROJECT**

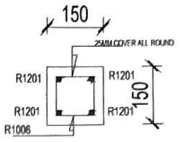
PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS

SHEET TITLE: **WC CUBICLE DETAIL (SECTION Y'-Y')**

SCALE	1:25
DATE	SEPT 2016
DESIGNED BY	SA
DRAWN BY	MKDO
CHECKED BY	PO
DRAWING NUMBER	MOE/ESHSP/6STB/016A



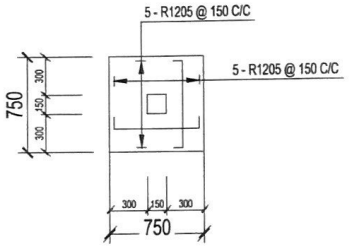
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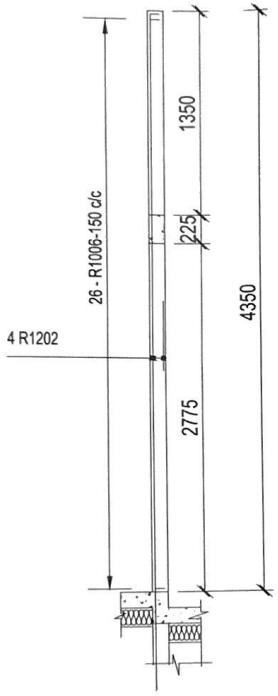
SEC. 1-1

BENDING SCHEDULE

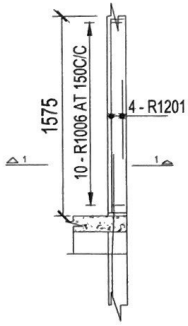
MARK	DIA	QTY.	LENGTH	SHAPE
R1201	12Ø	16	1625	1475 | 150
R1202	12Ø	16	4400	4250 | 150
R1203	12Ø	12	3420	3270 | 150
R1204	12Ø	44	2235	2085 | 150
R1205	12Ø	110	2385	2085 | 150
R1006	10Ø	88	520	100 / 100



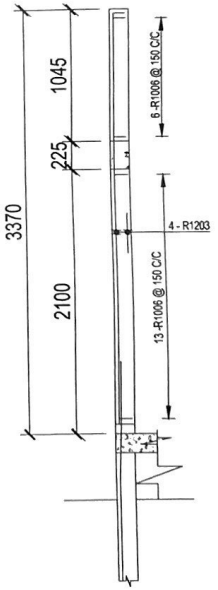
FOUNDATION FOOTING F1 (11 No)



COLUMN TYPE C2
(4 No)



COLUMN TYPE C3
(4 No)

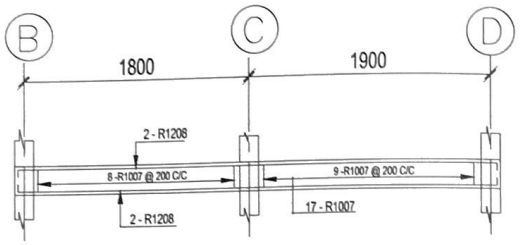


COLUMN TYPE C1 (3No.)

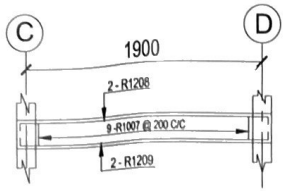
MINISTRY OF EDUCATION
FUNDS AND PROCUREMENT MANAGEMENT UNIT
P. O. BOX M45
ACCRA

CLIENT
MINISTRY OF EDUCATION

PROJECT	**SEIP ADDITIONAL FINANCING**
	PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS
SCALE	1:50 1:10
DATE	SEPT. 2018
DRAWN BY	SA
CHECKED BY	MEDO
DRAWING NUMBER	**MOE/SEIP/6STB/STR/001**



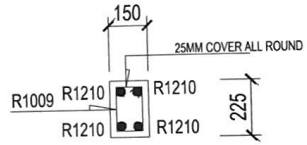
BEAM ON GRIDLINE 1,3,5 & 7
(4No.thus.)



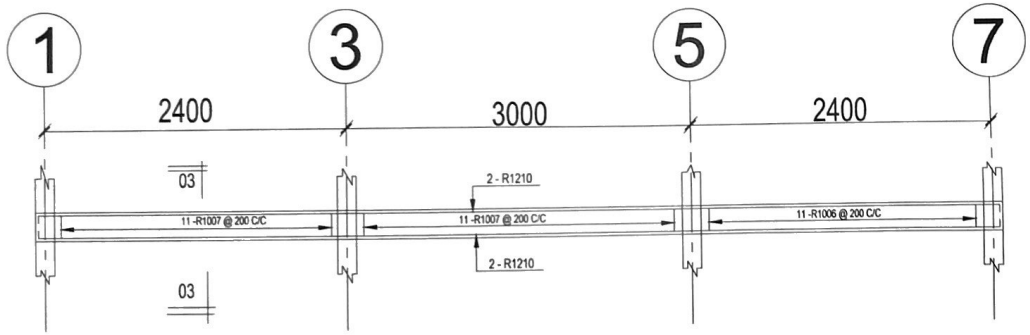
BEAM ON GRIDLINE 4

BENDING SCHEDULE

MARK	DIA	QTY.	LENGTH	SHAPE
R1208	12Ø	16	4100	3800 150
R1209	12Ø	4	2300	2000 150
R1210	12Ø	12	7900	7600 150
R1009	10Ø	176	750	100 175



SEC.03-03

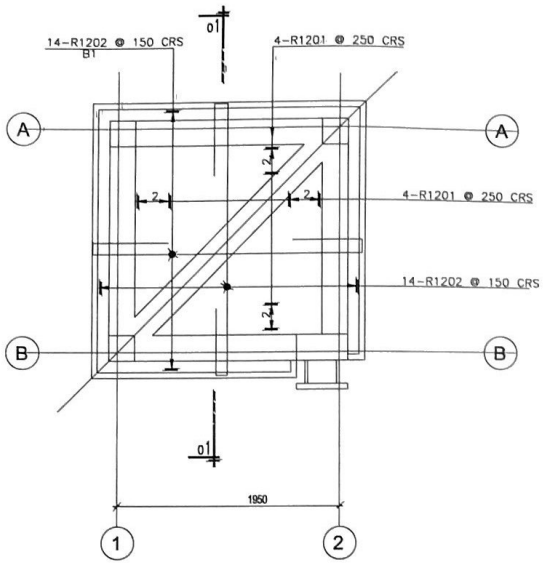


BEAM ON GRIDLINE B,C & D (3No. thus.)

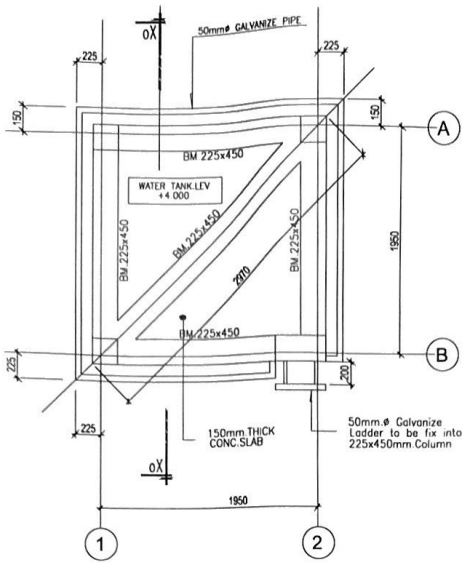
MINISTRY OF EDUCATION
FUNDS AND PROCUREMENT MANAGEMENT UNIT
P. O. BOX M45
ACCRA

CLIENT
MINISTRY OF EDUCATION

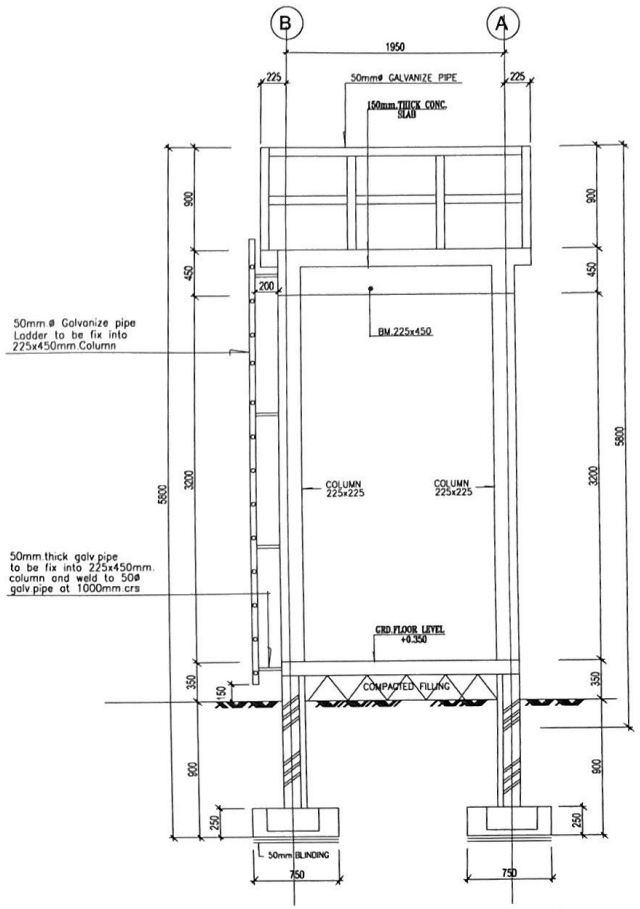
PROJECT	**SEIP ADDITIONAL FINANCING**
	PROPOSED 6-SEATER TOILET BLOCK FOR SENIOR HIGH SCHOOLS
SCALE	1:50 1:10
DATE	
DRAWN BY	
CHECKED BY	
DRAWING NUMBER	**MOE/SEIP/6STB/STR/002**



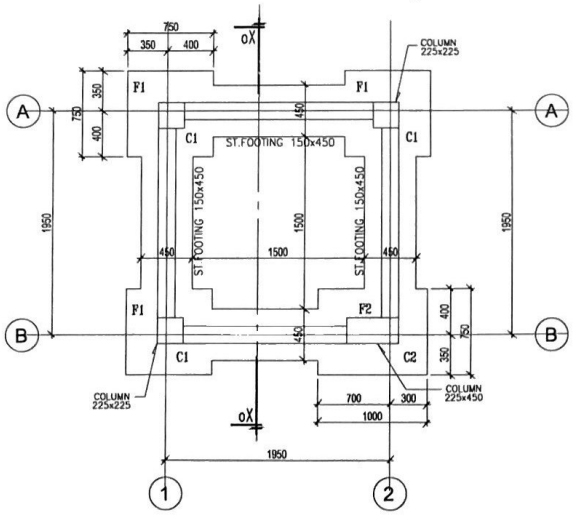
WATER TANK SLAB DET.
AT LEVEL 4.000
SCALE:1:33



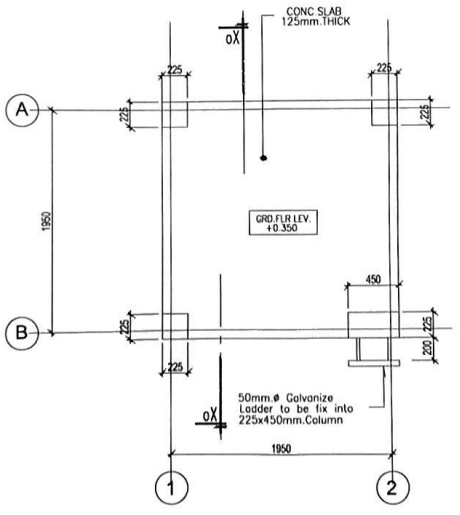
WATER TANK SLAB DET.
AT LEVEL 4.000
SCALE:1:33



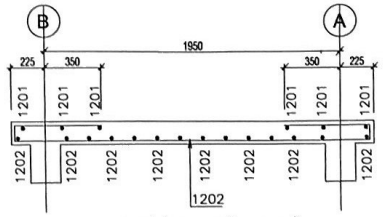
TYPICAL SECTION THRU'PLAN'S
SECTION oX-oX
SCALE:1:33



FOUNDATION LAYOUT
SCALE:1:33



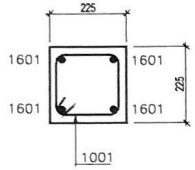
GROUND FLOOR SLAB
SCALE:1:33



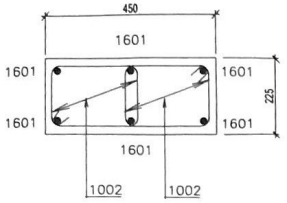
section o2 - o2
SCALE:1:25

rev.	date of revision	revision details	initials
		revision	

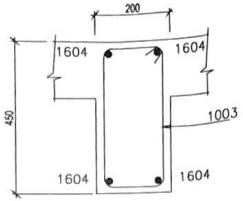
client	MINISTRY OF EDUCATION, FUNDS AND PROCUREMENT MANAGEMENT UNIT P. O. BOX M 45, ACCRA
project	EMERGENCY SHS PROJECT
drawing title	WATER TANK DETAILS
scale: AS SHOWN	date: MAY. 2014 — JOB DETAILER: MA/DQ
project no.: STR/2014-01	drawing no.: STR/001 — JOB ENGINEER: MA/DQ



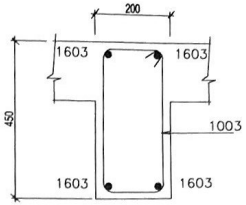
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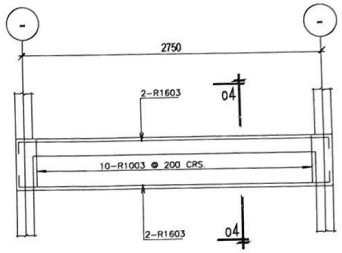
section o2 - o2



section o3 - o3

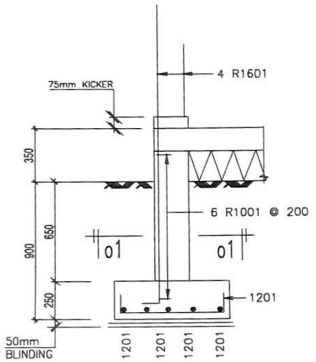


section o4 - o4

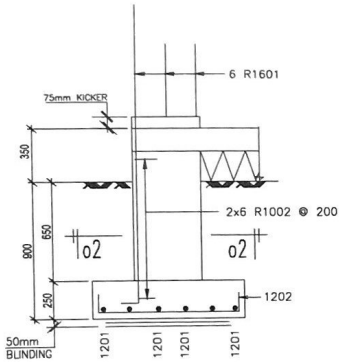


WATER-TANK BM DET.DIAGONAL (1 NO.THUS)

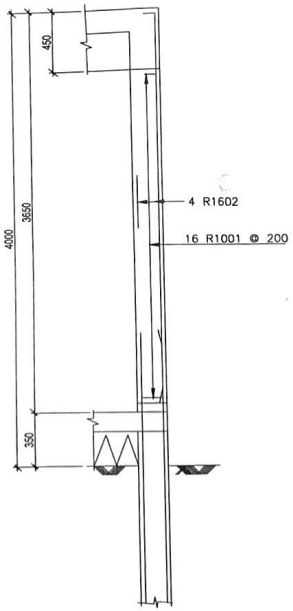
SCALE:1:33



ELEVATION

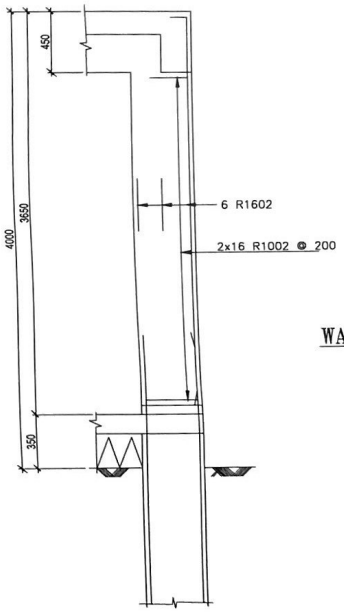


ELEVATION



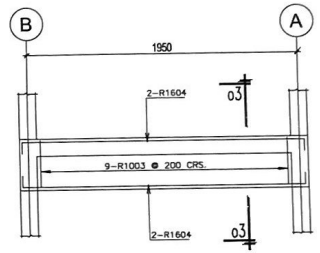
COL.TYPE C1 DETAILS
(3 no thus) 200x200

SCALE:1:25



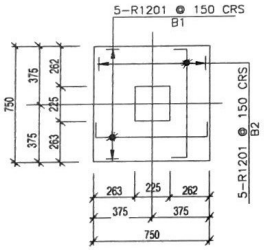
COL.TYPE C2 DETAILS
(1 no thus) 200x450

SCALE:1:25



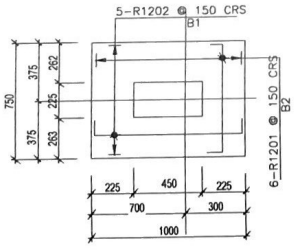
WATER-TANK BEAM DETAILS (4 NO.THUS)

SCALE:1:33



FOOTING F1 (3No.THUS)
DETAIL 225x225

SCALE:1:25



FOOTING F2 (1No.THUS)
DETAIL 225x450

SCALE:1:25

rev.	date of revision	revision details	initials
		revision	

client: MINISTRY OF EDUCATION,
FUNDS AND PROCUREMENT MANAGEMENT UNIT
P. O. BOX M 45, ACCRA

project: EMERGENCY SHS PROJECT

drawing title: WATER TANK DETAILS

scale	date	JOB DETAILER
AS SHOWN	MAY. 2014	MKDQ
project no. STR/2014-01	drawing no. STR/001	JOB ENGINEER MKDQ