

female's unit

male's unit

All measurements have to be checked on site by the contractor

NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-001-A

PROJECT IMPLEMENTING AGENCY

DESIGNED BY:
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CLIENT: MINISTRY OF EDUCATION

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

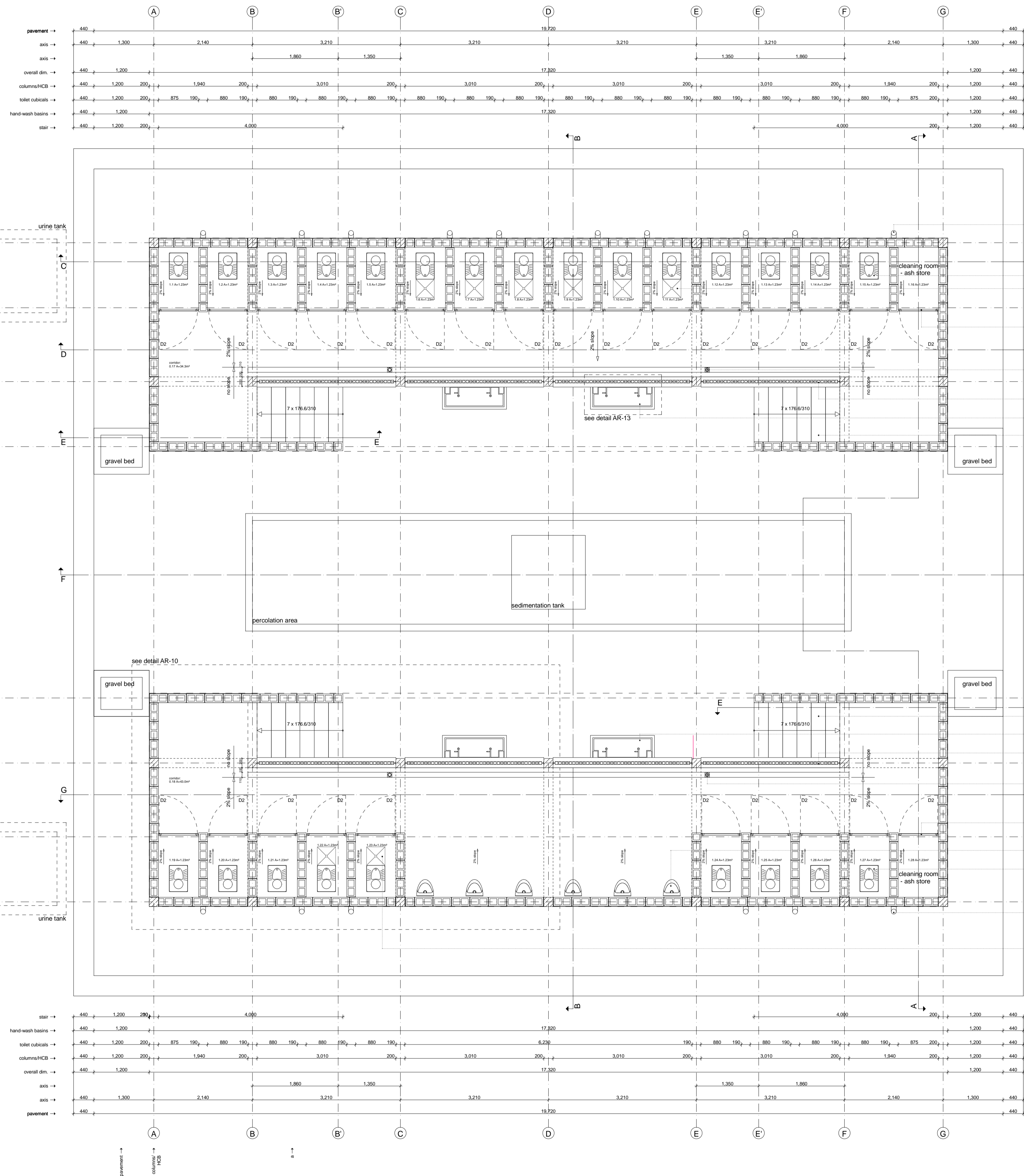
URINE DIVERTING DRY TOILET (UDDT)

LOCATION: Adama
 EARTHQUAKE ZONE: Zone 4
 CLIMATE: Hot & Dry

DRAWING TITLE:
GROUND FLOOR PLAN

DATE OF ISSUE	DRAWN BY	SCALE	DATE OF REVISION	CADRE
01.05.08	NH	1:50		AR
DRAWING NUMBER:				PAGE
AD-AR-DT-T1-0-EP-001-A				A

GROUND FLOOR sc. 1:50



FIRST FLOOR
sc. 1:50

LEGEND

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NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-002-A

PROJECT IMPLEMENTING AGENCY



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CLIENT: MINISTRY OF EDUCATION

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

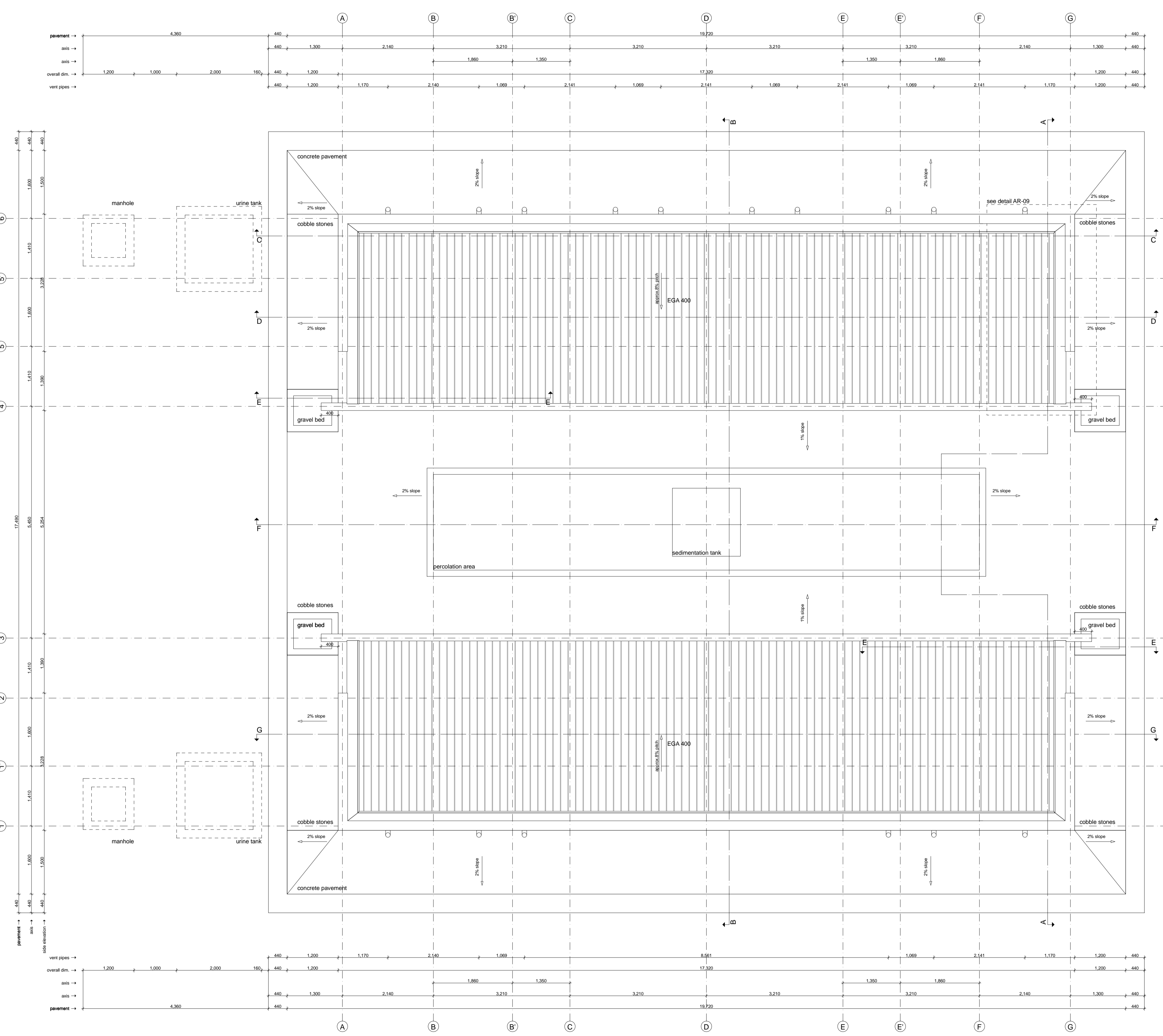
LOCATION: Adama

EARTHQUAKE ZONE: Zone 4

CLIMATE: Hot & Dry

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DRAWING NUMBER:				PAGE
AD-AR-DT-T1-0-EP-002-A				A



ROOF PLAN
sc. 1:50

LEGEND

All measurements have to be checked on site by the contractor

A	Tender	01.05.08	
NO.	REVISION	DATE	SIGN

UCBP AD-AR-DT-T1-0-EP-003-A

PROJECT IMPLEMENTING AGENCY

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CLIENT: **MINISTRY OF EDUCATION**

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

LOCATION: **Adama**

EARTHQUAKE ZONE: **Zone 4**

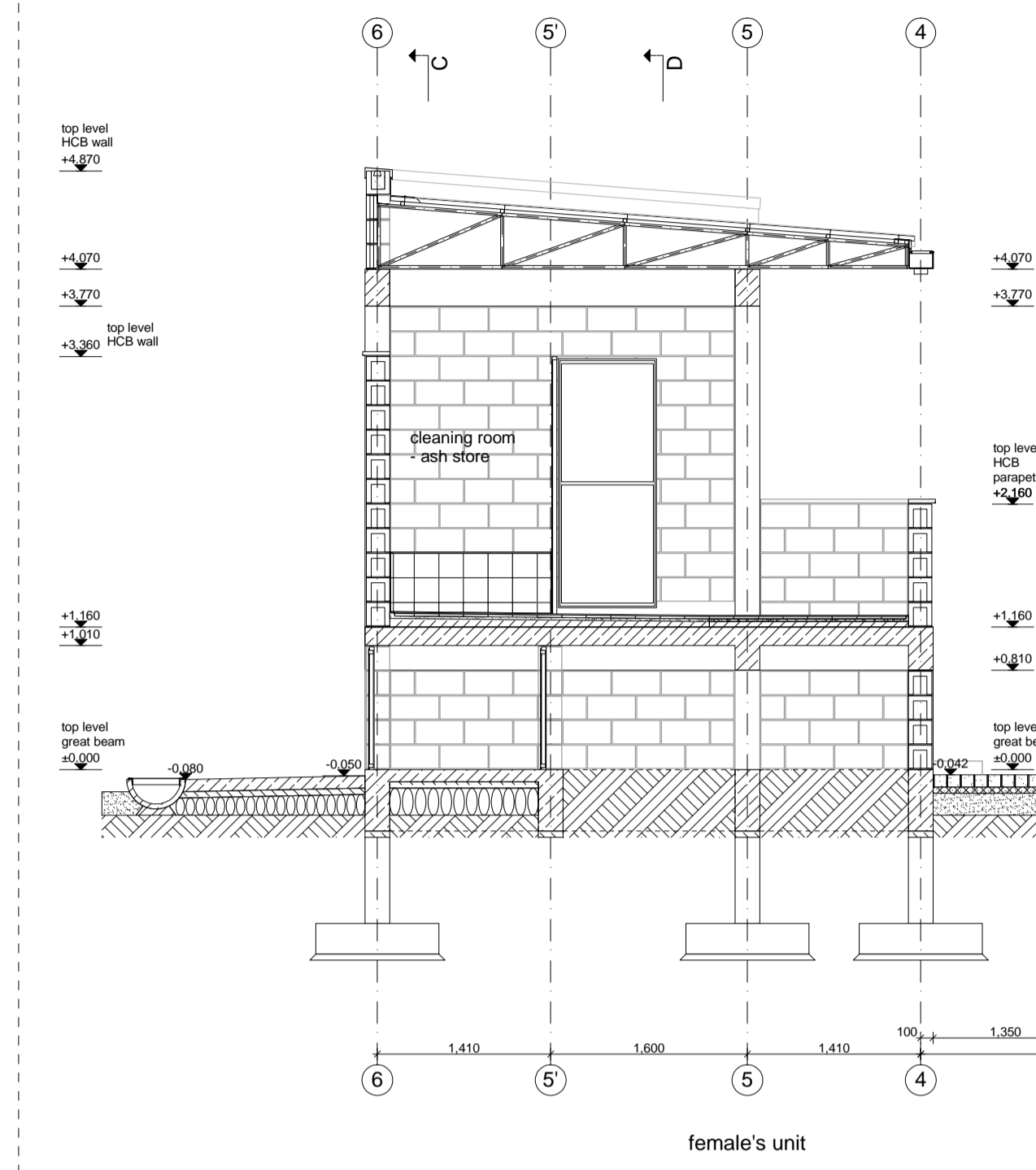
CLIMATE: **Hot & Dry**

DRAWING TITLE:
ROOF PLAN

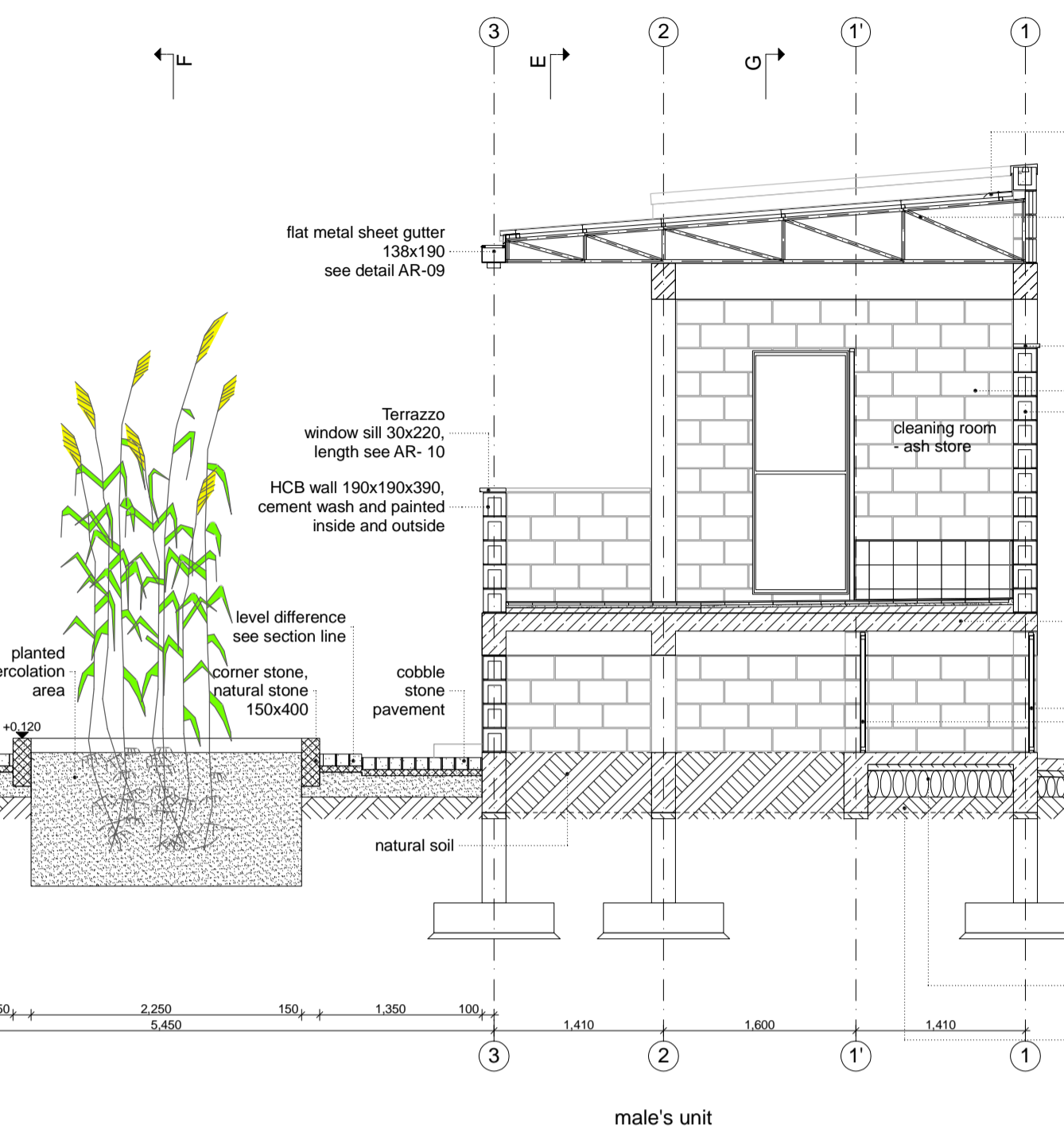
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see detail AR-09



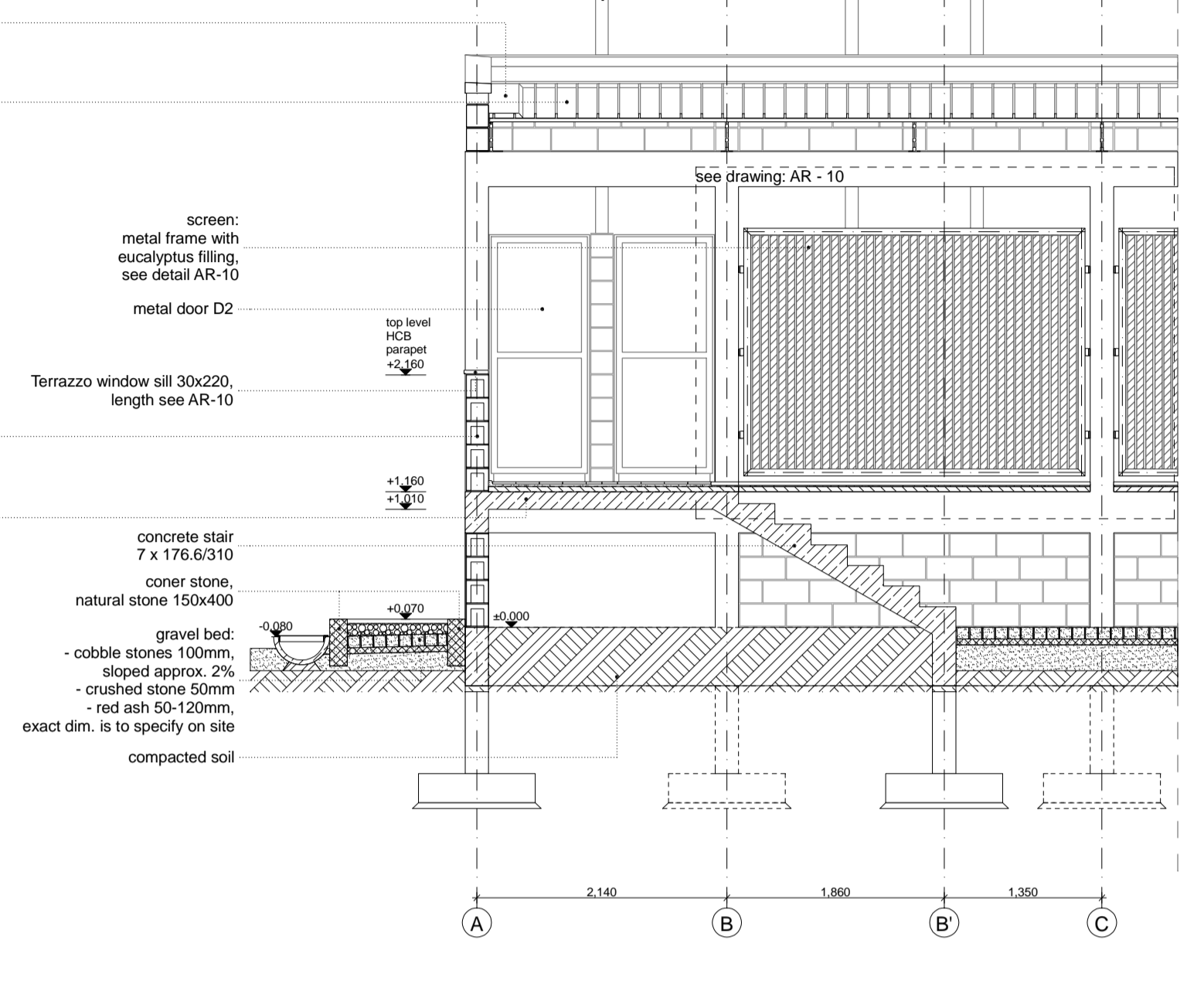
female's unit



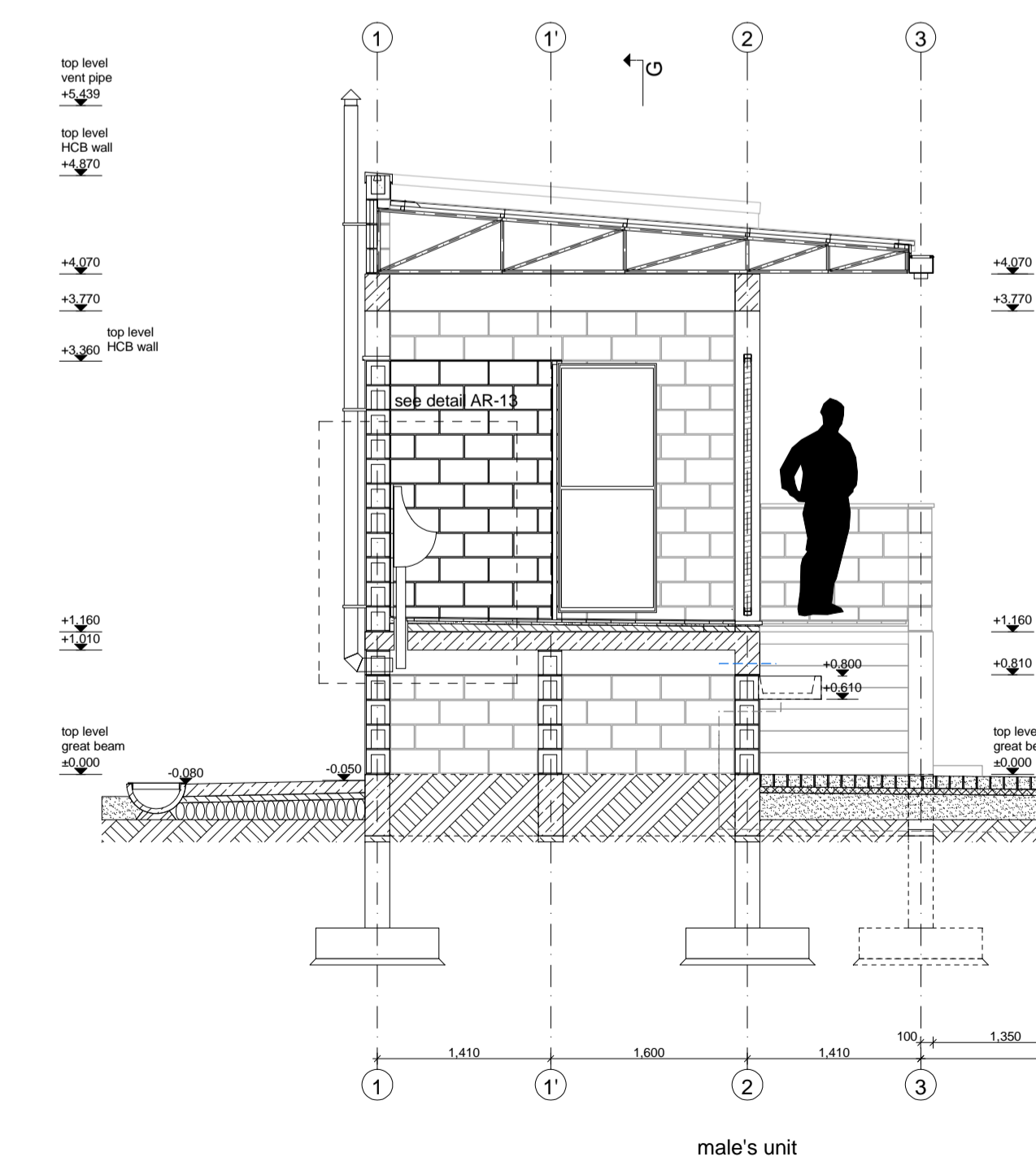
male's unit

SECTION A-A
sc. 1:50

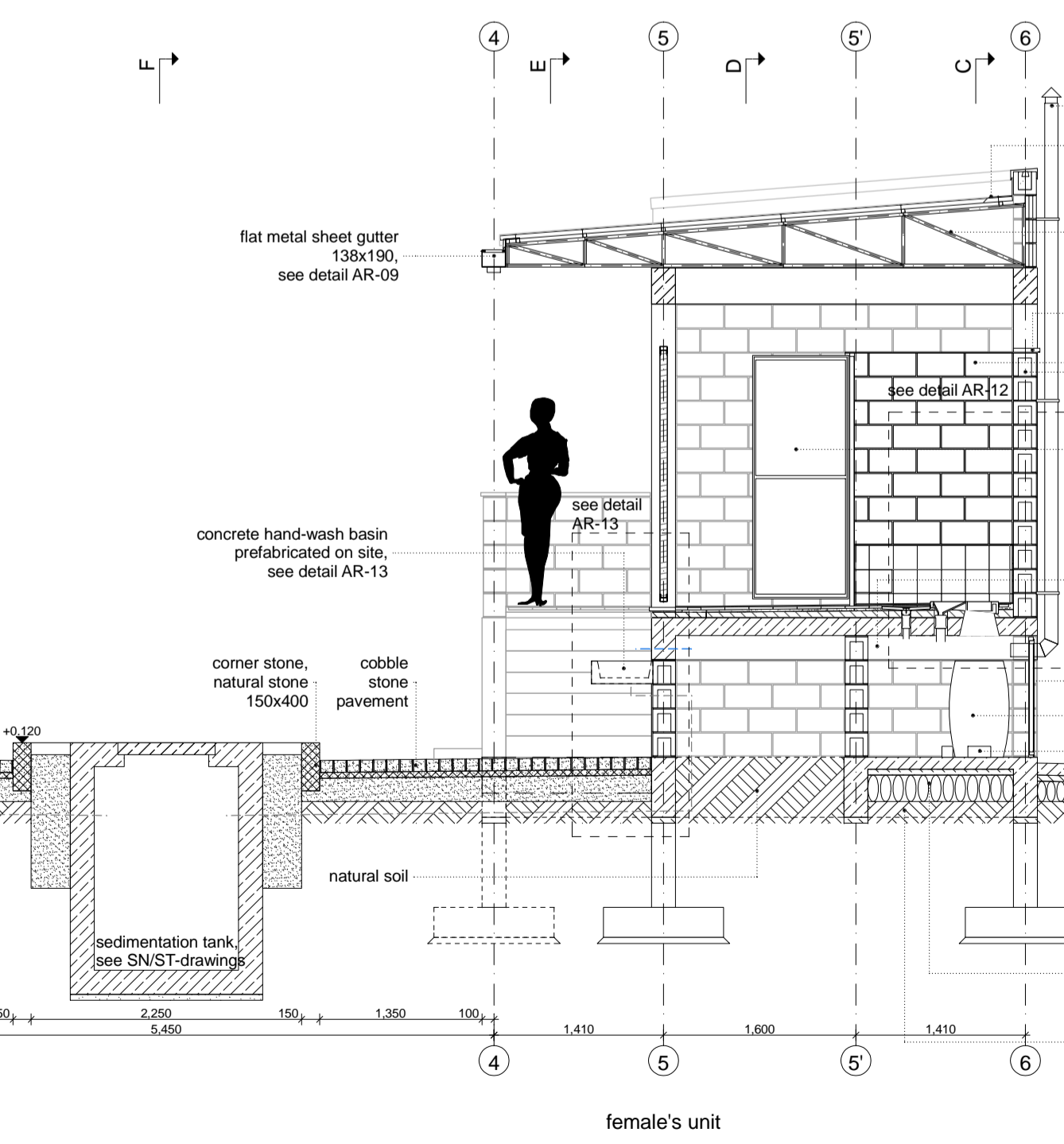
PVC vent pipe d=110 with wire mesh and cap on top



SECTION E-E
sc. 1:50



male's unit



female's unit

SECTION B-B
sc. 1:50

LEGEND

All measurements have to be checked on site by the contractor

A	Tender	01.05.08	
NO.	REVISION	DATE	SIGN

UCBP AD-AR-DT-T1-0-EP-004-A

PROJECT IMPLEMENTING AGENCY



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CLIENT: MINISTRY OF EDUCATION

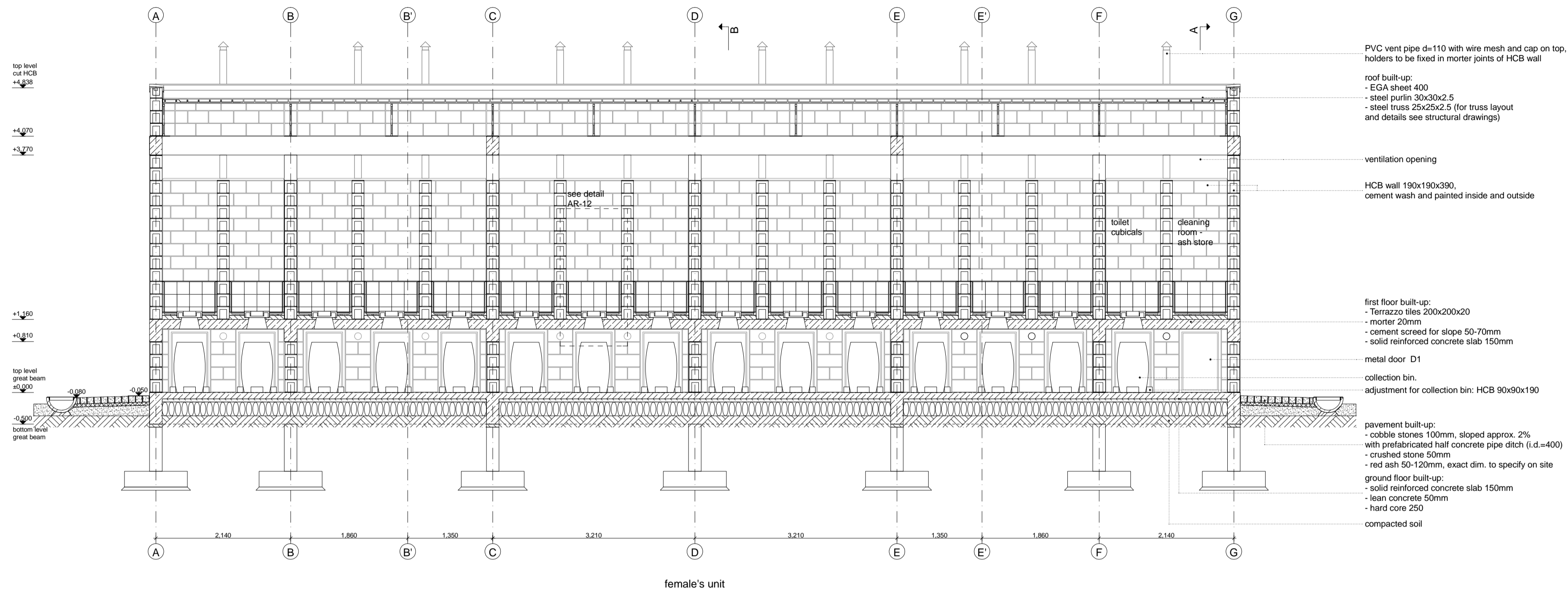
PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

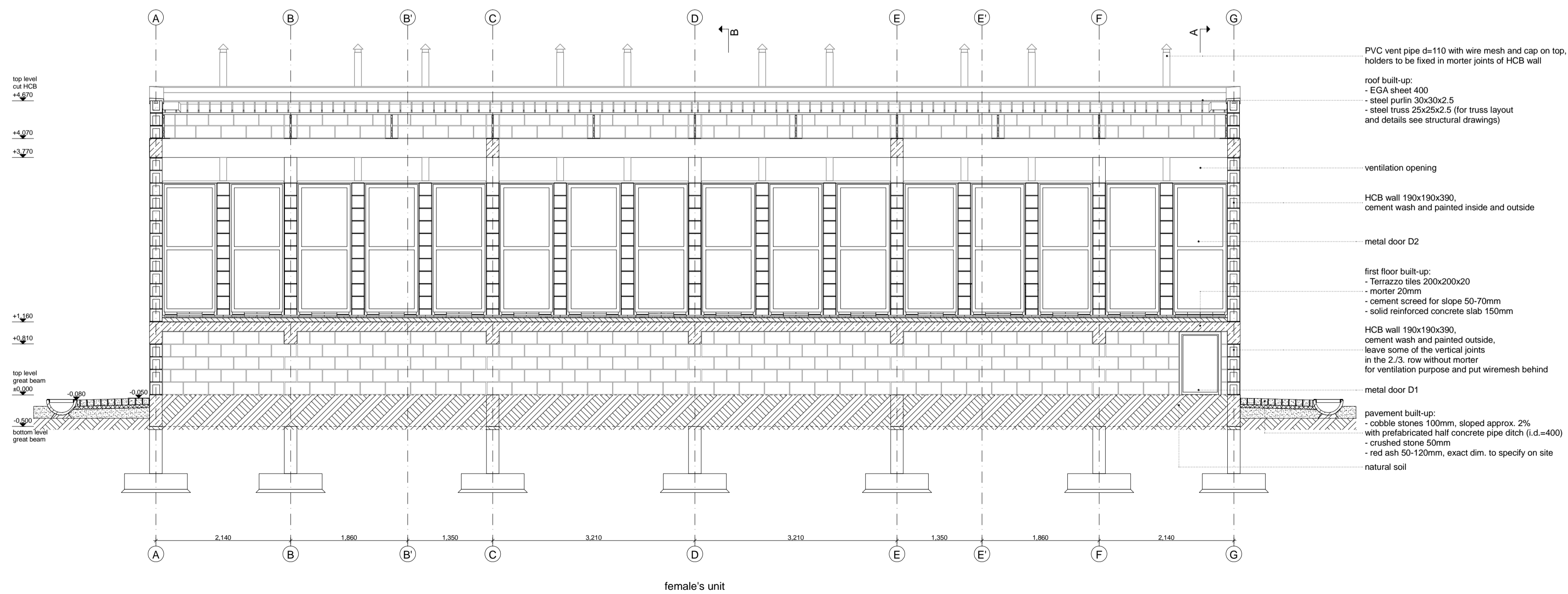
LOCATION: **Adama**
EARTHQUAKE ZONE: **Zone 4**
CLIMATE: **Hot & Dry**

DRAWING TITLE:
SECTIONS A-A, B-B, E-E

DATE OF ISSUE: 01.05.08	DRAWN BY: NH	SCALE: 1:50	DATE OF REVISION:	CHECKED BY: AR
DRAWING NUMBER: AD-AR-DT-T1-0-EP-004-A				PAGE: A



SECTION C-C
sc. 1:50



SECTION D-D
sc. 1:50

LEGEND

All measurements have to be checked on site by the contractor

NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-005-A

PROJECT IMPLEMENTING AGENCY



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CLIENT: MINISTRY OF EDUCATION

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

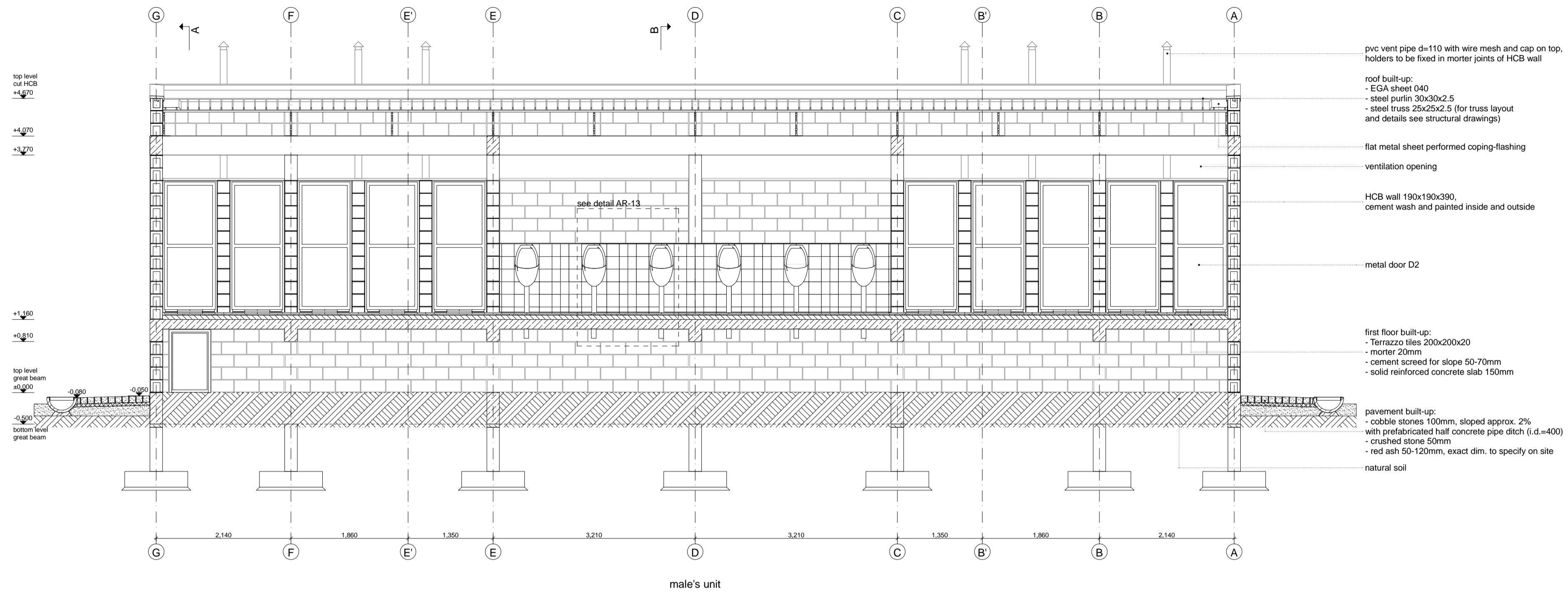
LOCATION: **Adama**

EARTHQUAKE ZONE: **Zone 4**

CLIMATE: **Hot & Dry**

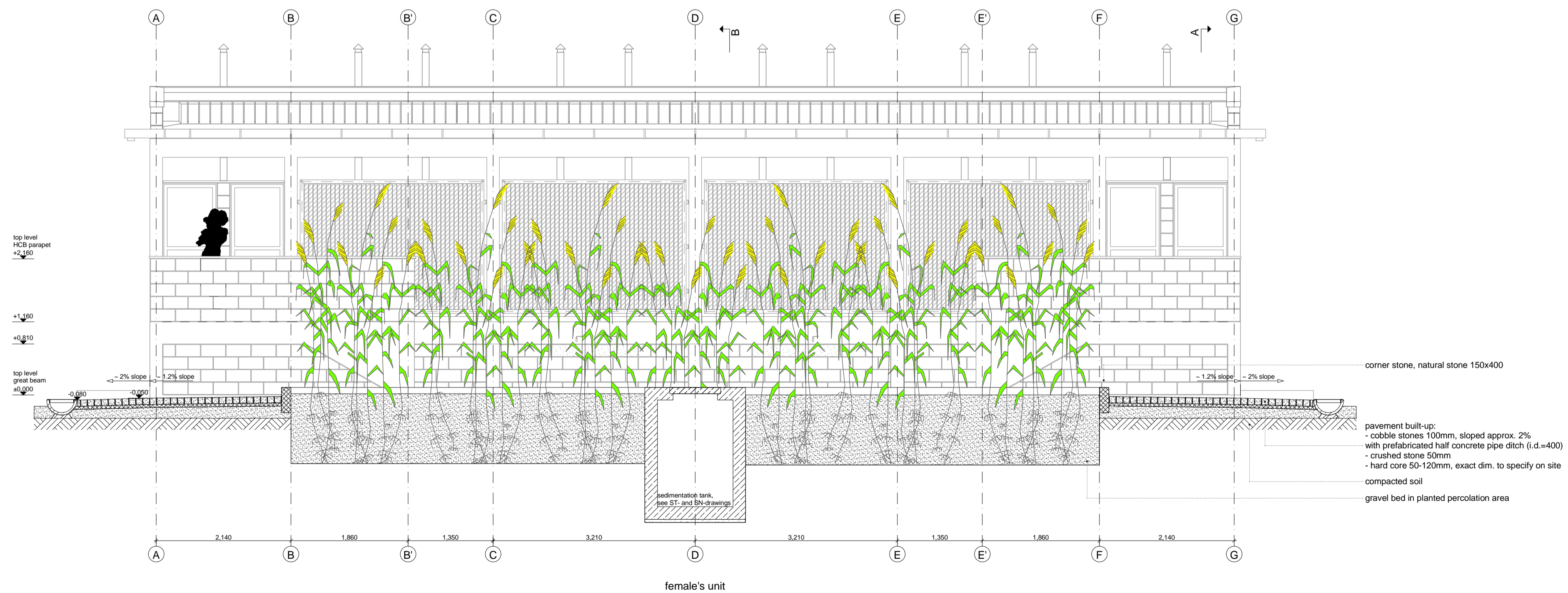
DRAWING TITLE:
SECTIONS C-C, D-D

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01.05.08	NH	1:50		AR
DRAWING NUMBER: AD-AR-DT-T1-0-EP-005-A				PAGE: A



male's unit

SECTION G-G
sc. 1:50



female's unit

SECTION F-F
sc. 1:50

- pvc vent pipe d=110 with wire mesh and cap on top, holders to be fixed in mortar joints of HCB wall
- roof built-up:
 - EGA sheet 040
 - steel purin 30x30x2.5
 - steel truss 25x25x2.5 (for truss layout and details see structural drawings)
- flat metal sheet performed coping-flashing
- ventilation opening
- HCB wall 190x190x390, cement wash and painted inside and outside
- metal door D2
- first floor built-up:
 - Terrazzo tiles 200x200x20
 - mortar 20mm
 - cement screed for slope 50-70mm
 - solid reinforced concrete slab 150mm
- pavement built-up:
 - cobble stones 100mm, sloped approx. 2%
 - with prefabricated half concrete pipe ditch (i.d.=400)
 - crushed stone 50mm
 - red ash 50-120mm, exact dim. to specify on site
 - natural soil

- corner stone, natural stone 150x400
- pavement built-up:
 - cobble stones 100mm, sloped approx. 2%
 - with prefabricated half concrete pipe ditch (i.d.=400)
 - crushed stone 50mm
 - hard core 50-120mm, exact dim. to specify on site
 - compacted soil
 - gravel bed in planted percolation area

details and dimensions for percolation area and sedimentation tank - see ST- and SN-drawings

LEGEND

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A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-006-A

PROJECT IMPLEMENTING AGENCY



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CLIENT: MINISTRY OF EDUCATION

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

LOCATION: Adama

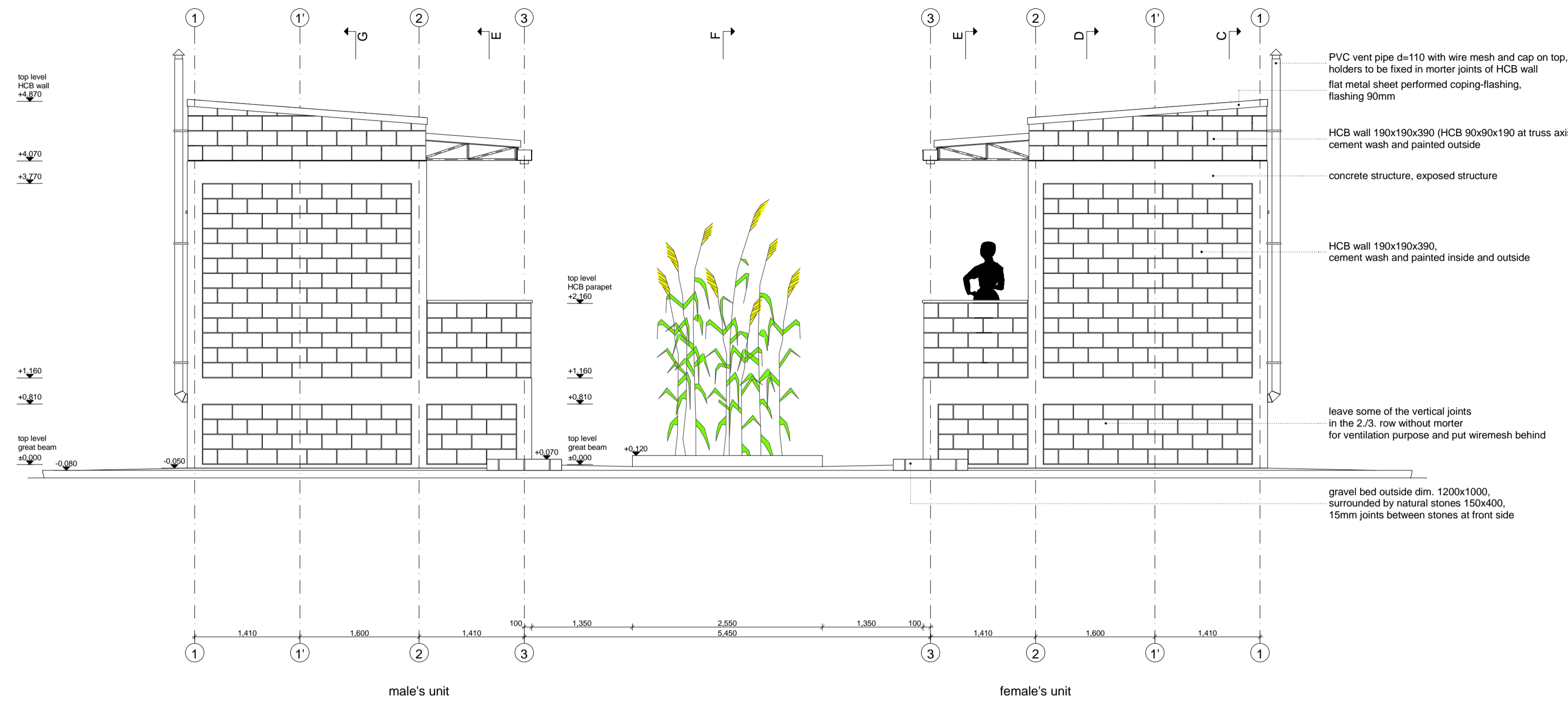
EARTHQUAKE ZONE: Zone 4

CLIMATE: Hot & Dry

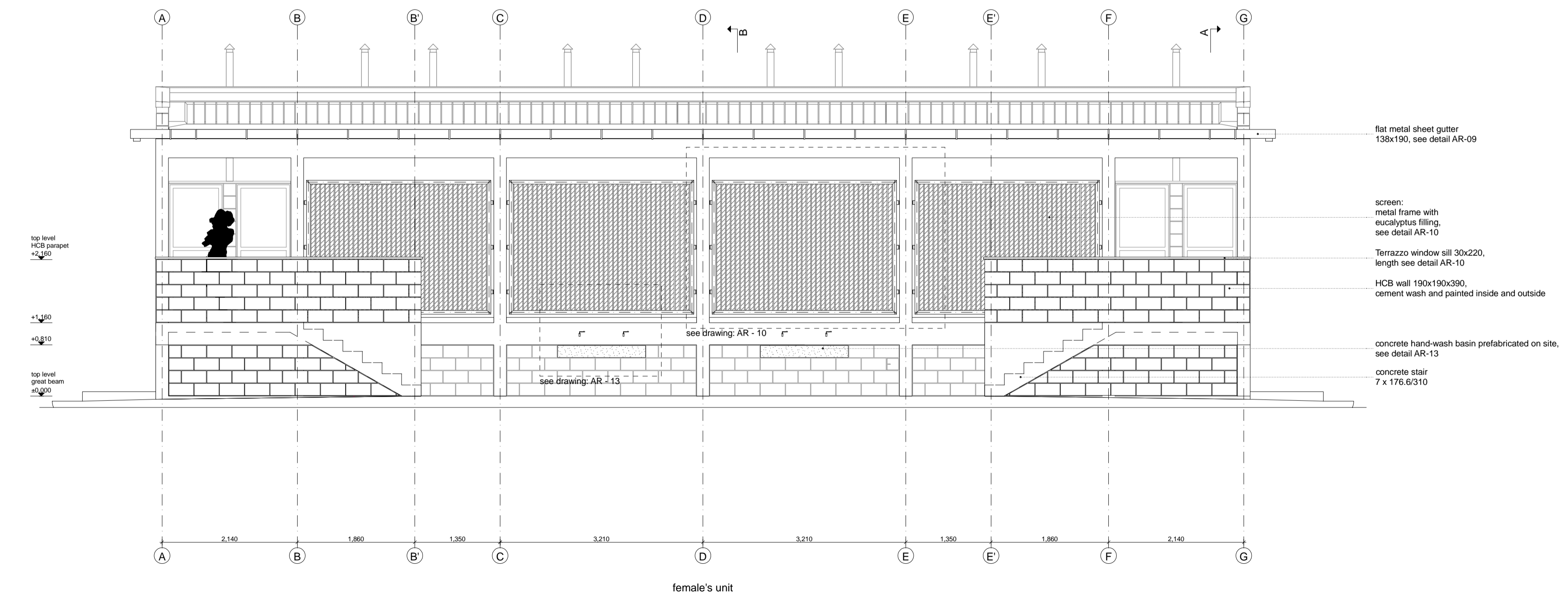
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SECTIONS F-F, G-G

DATE OF ISSUE	DRAWN BY	SCALE	DATE OF REVISION	CHECKED BY
01.05.08	NH	1:50		AR
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AD-AR-DT-T1-0-EP-006-A				A



SIDE ELEVATION
sc. 1:50



FRONT ELEVATION - GIRLS
sc. 1:50

LEGEND

All measurements have to be checked on site by the contractor

NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-007-A

PROJECT IMPLEMENTING AGENCY



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CLIENT: MINISTRY OF EDUCATION

PROJECT:

UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

LOCATION: **Adama**

EARTHQUAKE ZONE: **Zone 4**

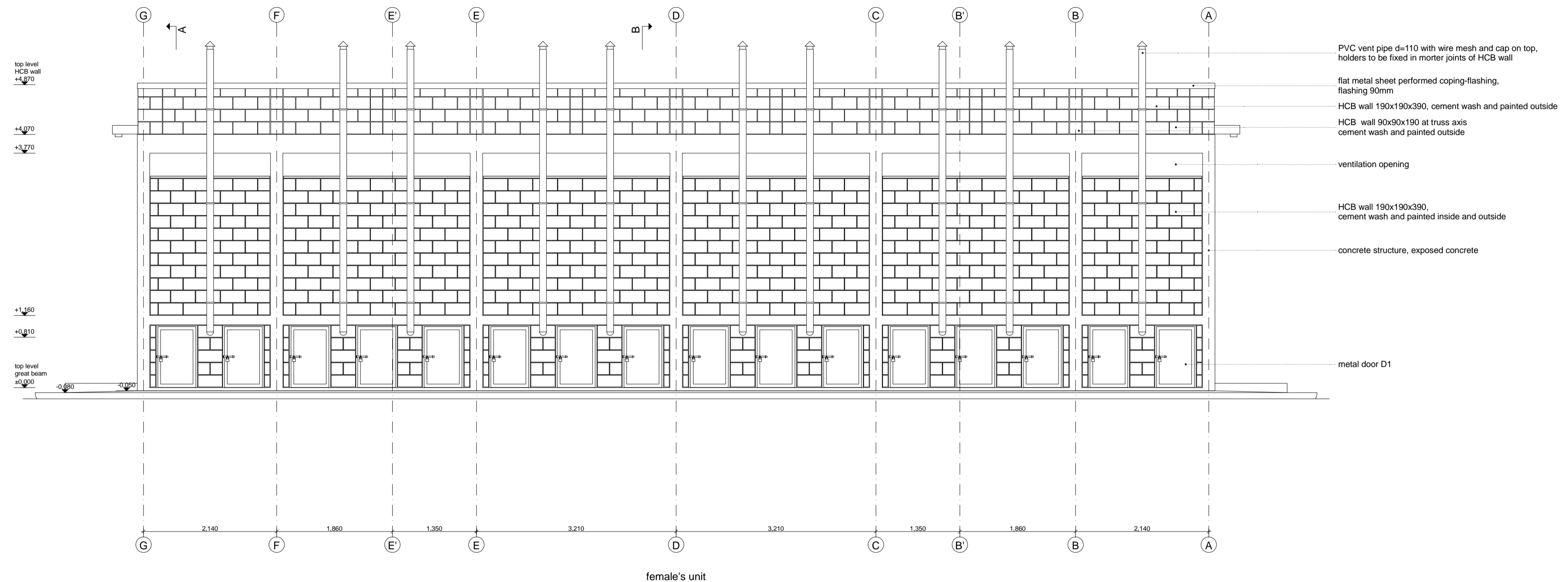
CLIMATE: **Hot & Dry**

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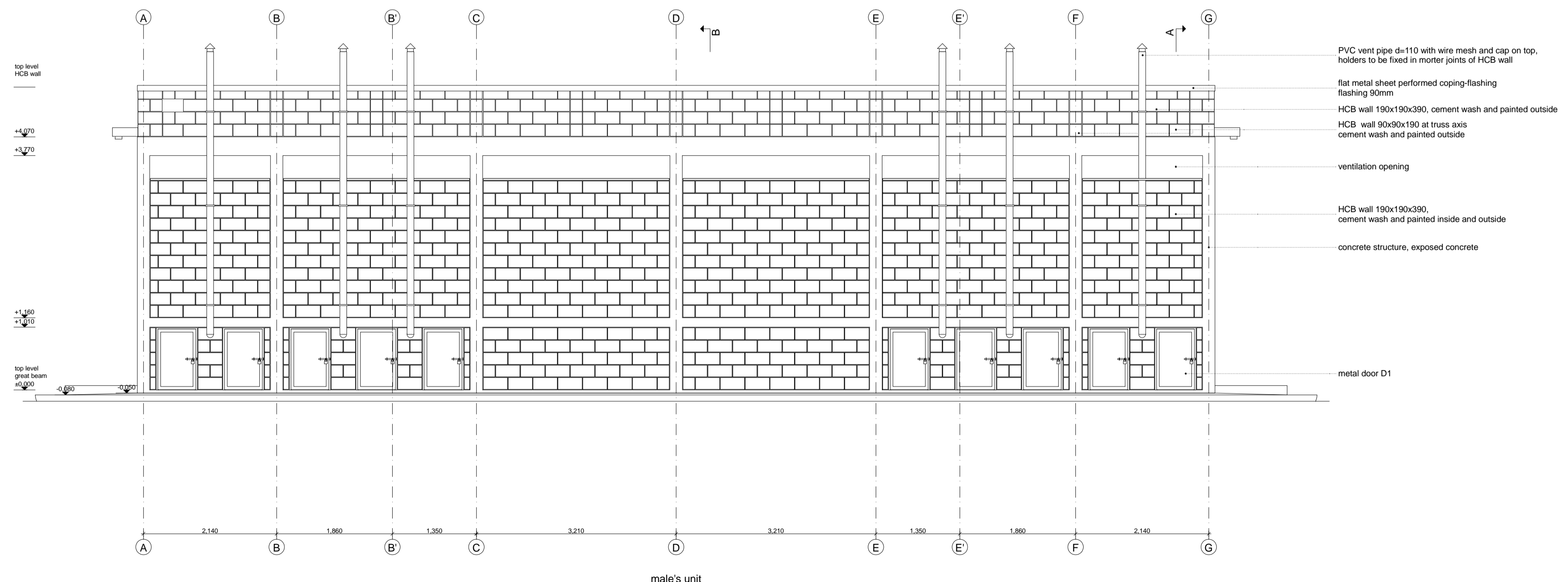
SIDE ELEVATION, FRONT ELEVATION GIRLS

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DRAWING NUMBER: AD-AR-DT-T1-0-EP-007-A



REAR ELEVATION - GIRLS
sc. 1:50



REAR ELEVATION - BOYS
sc. 1:50

LEGEND

- PVC vent pipe d=110 with wire mesh and cap on top, holders to be fixed in mortar joints of HCB wall
- flat metal sheet performed coping-flashing, flashing 90mm
- HCB wall 190x190x390, cement wash and painted outside
- HCB wall 90x90x190 at truss axis cement wash and painted outside
- ventilation opening
- HCB wall 190x190x390, cement wash and painted inside and outside
- concrete structure, exposed concrete
- metal door D1

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NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-008-A

PROJECT IMPLEMENTING AGENCY



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CLIENT: **MINISTRY OF EDUCATION**

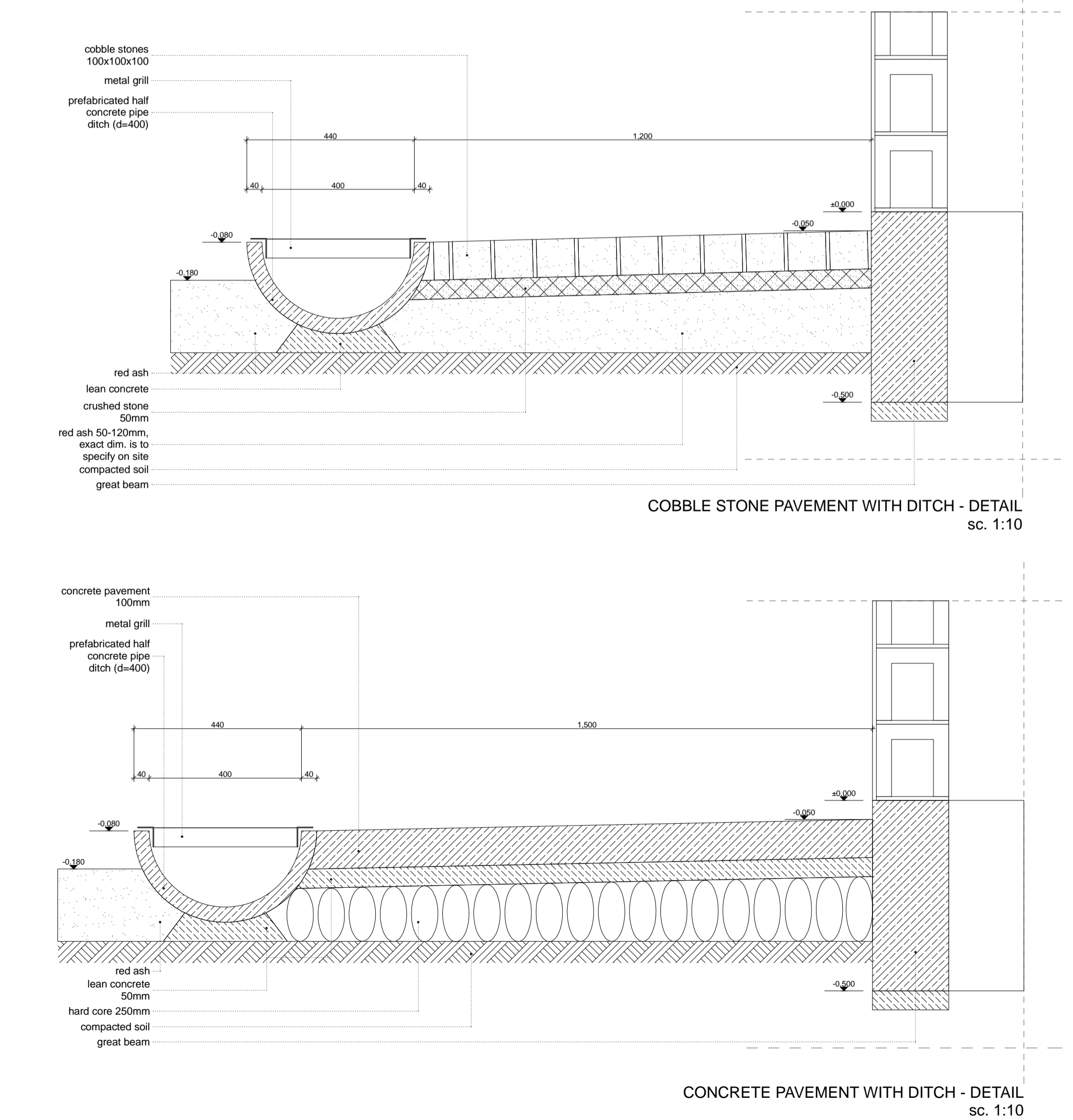
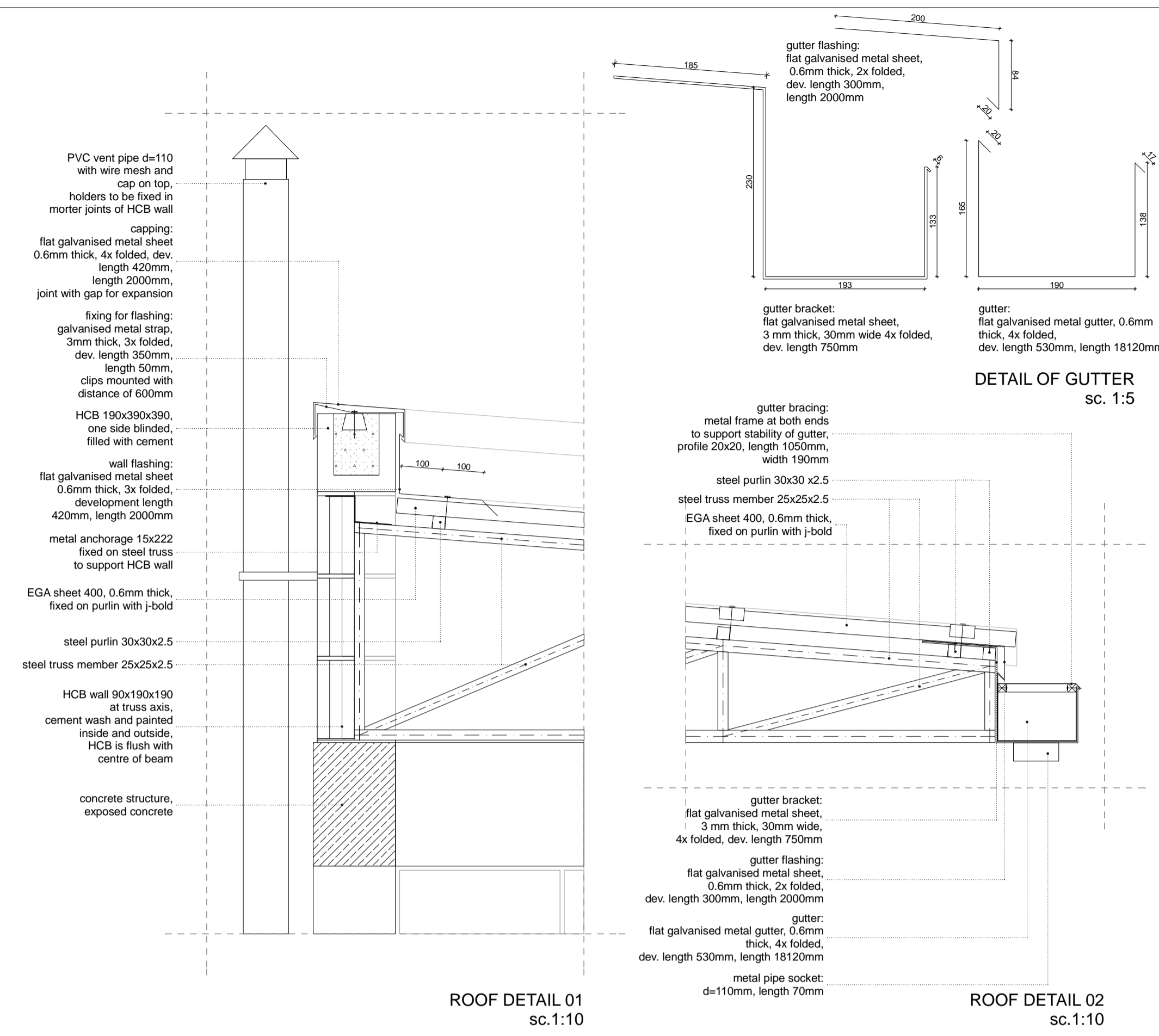
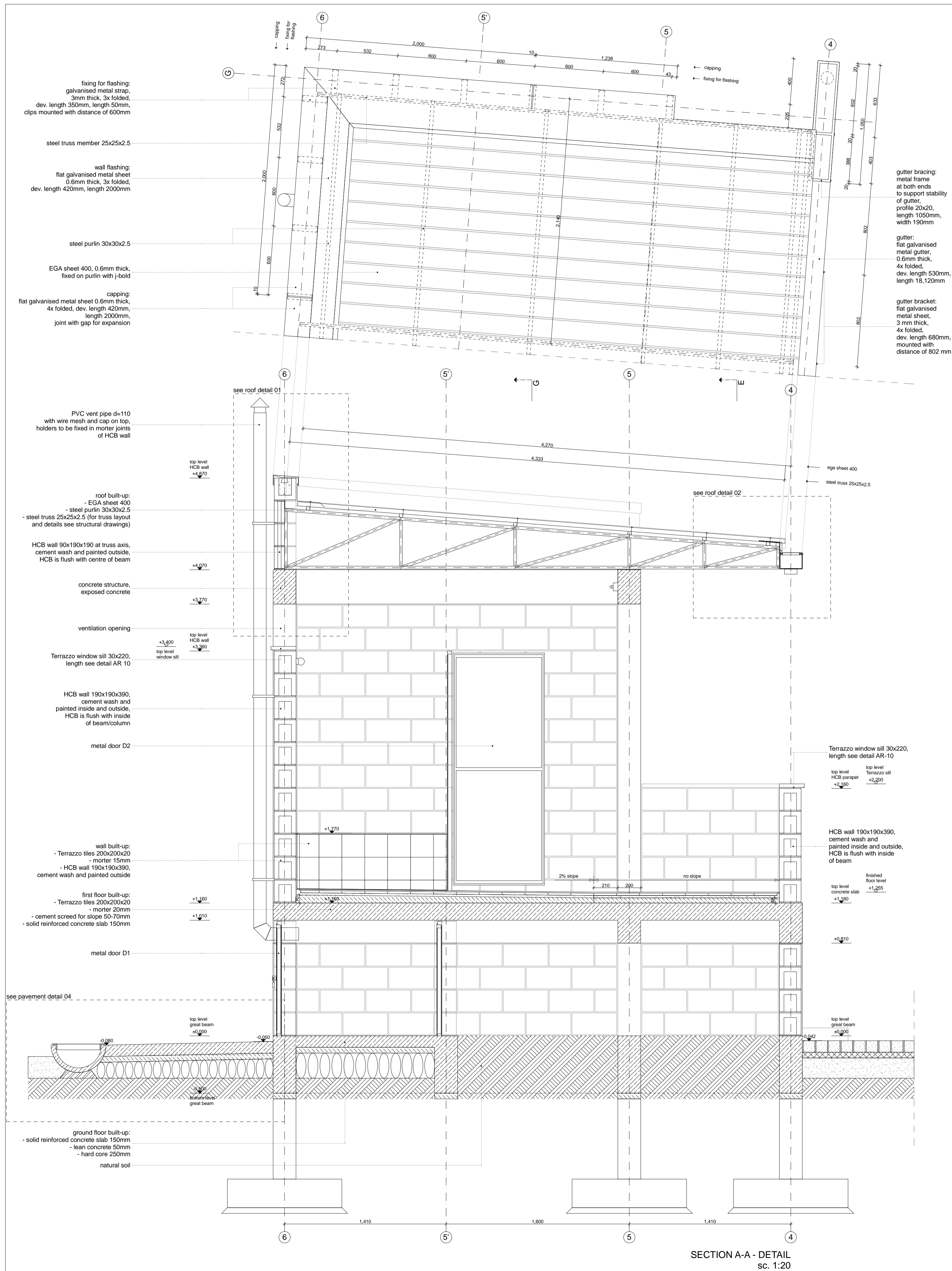
PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

LOCATION: **Adama**
EARTHQUAKE ZONE: **Zone 4**
CLIMATE: **Hot & Dry**

DRAWING TITLE:
REAR ELEVATIONS

DATE OF ISSUE	DRAWN BY	SCALE	DATE OF REVISION	CHECKED BY
01.05.08	NH	1:50		AR
DRAWING NUMBER:				PAGE
AD-AR-DT-T1-0-EP-008-A				A



LEGEND

All measurements have to be checked on site by the contractor

NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-009-A

PROJECT IMPLEMENTING AGENCY

gtz IS International Services

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CLIENT: **MINISTRY OF EDUCATION**

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

LOCATION: **Adama**

EARTHQUAKE ZONE: **Zone 4**

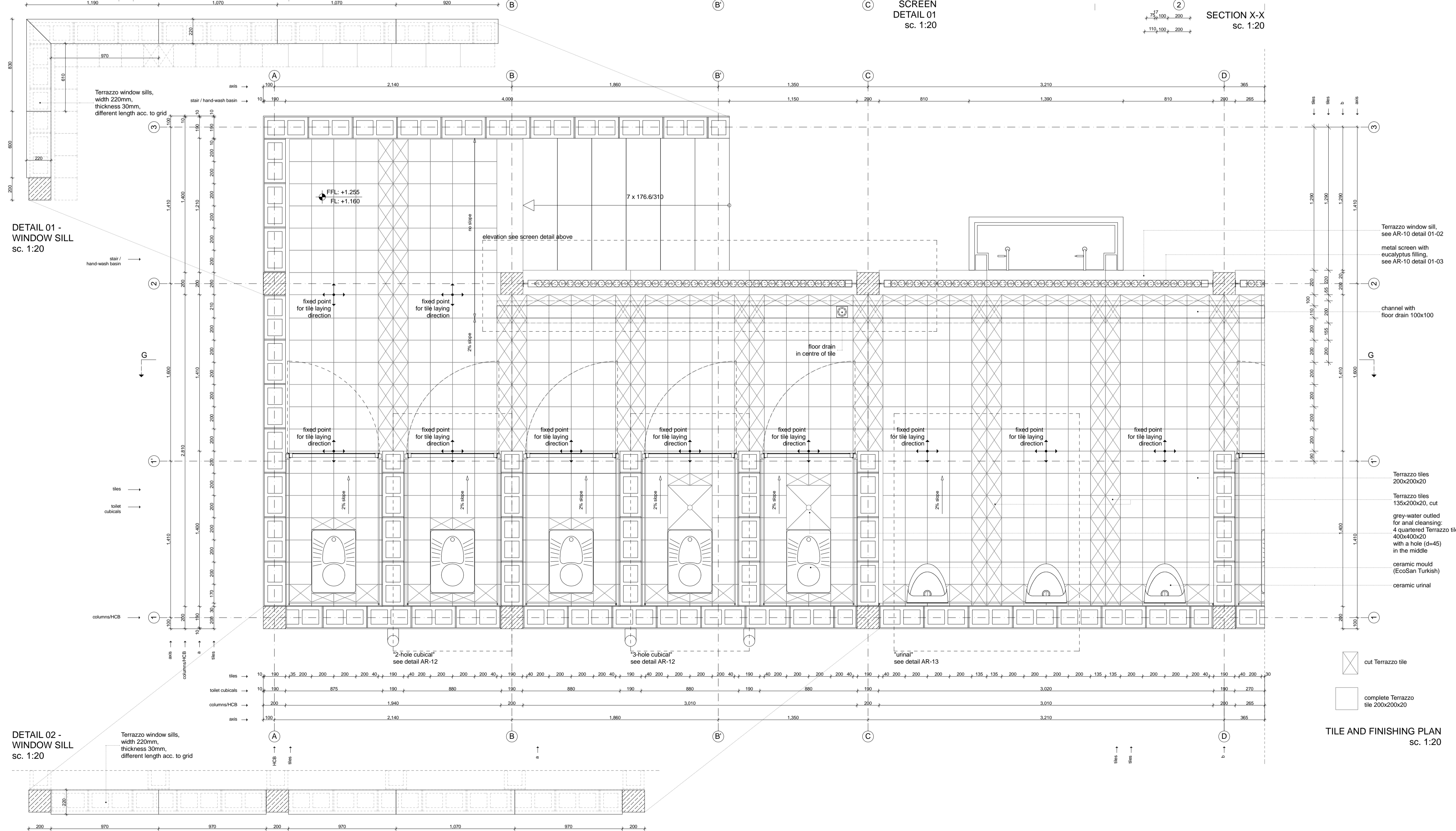
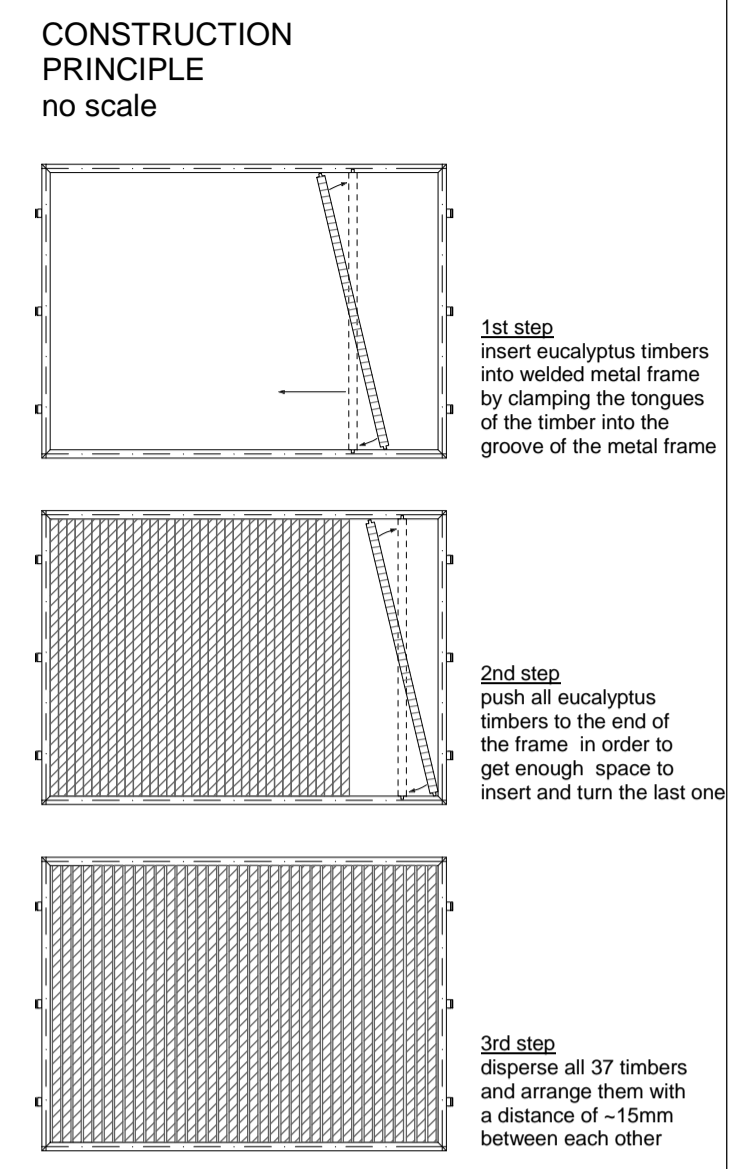
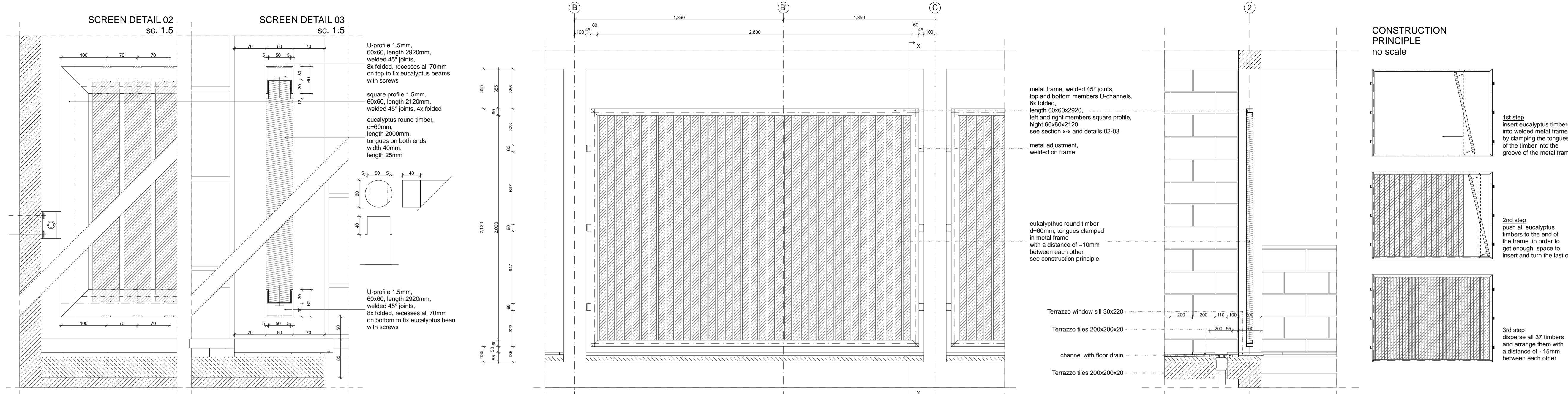
CLIMATE: **Hot & Dry**

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SECTION A-A - DETAIL

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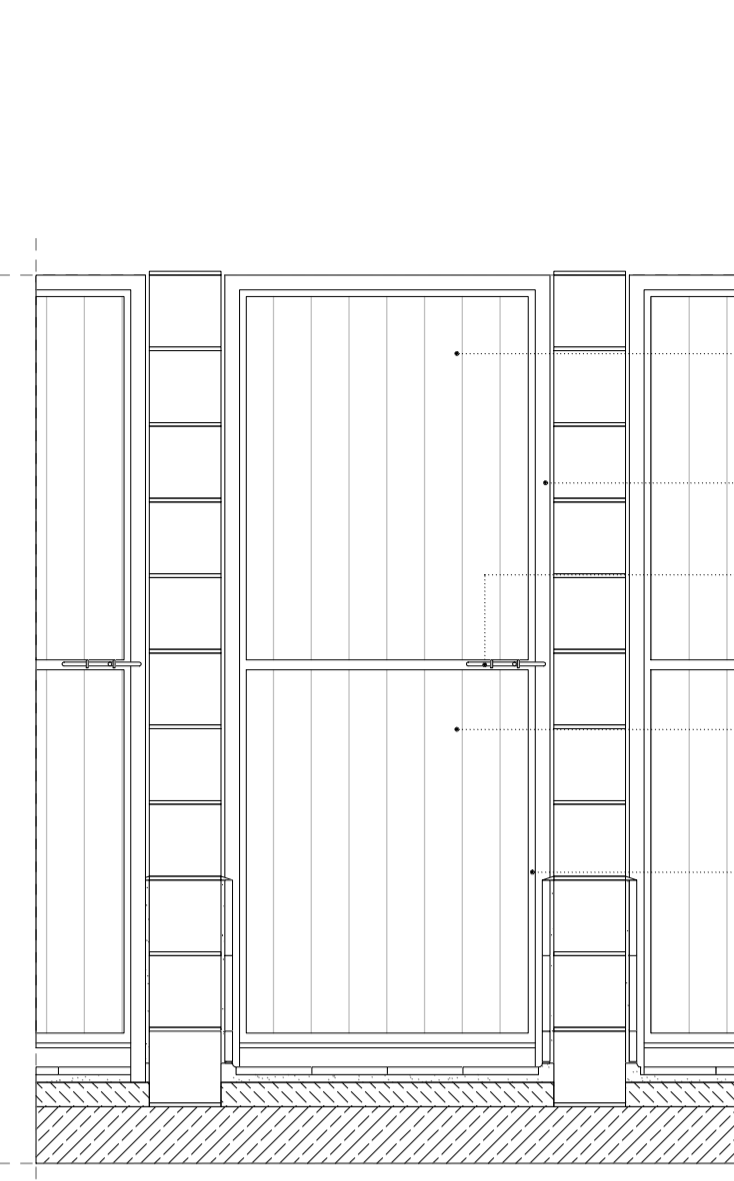
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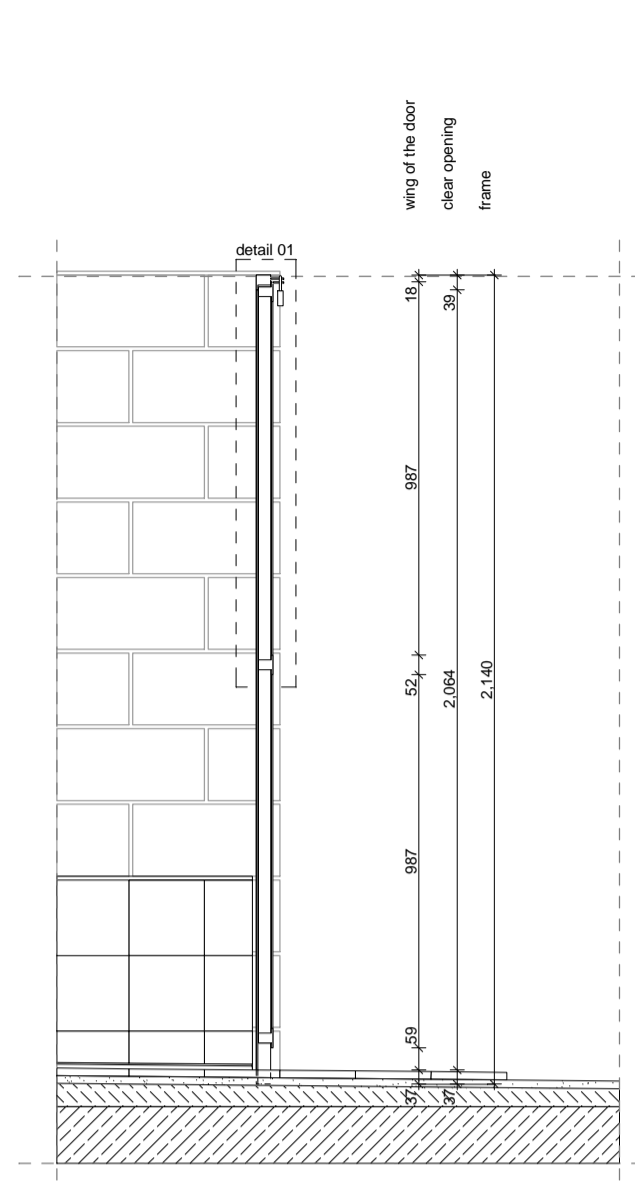
LEGEND

All measurements have to be checked on site by the contractor

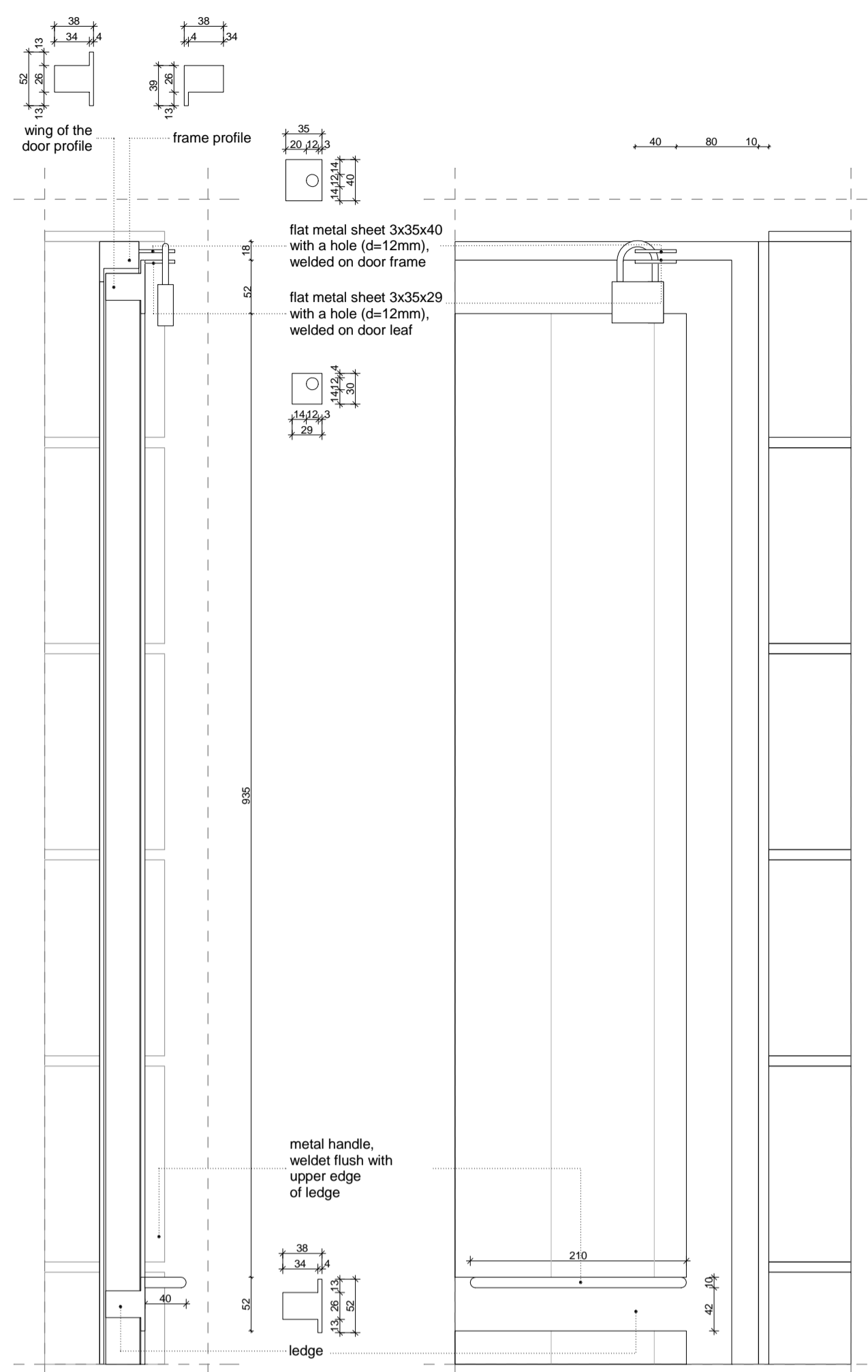
A	Tender	01.05.08	
NO.	REVISION	DATE	SIGN
UCBP	AD-AR-DT-T1-0-EP-010-A		
PROJECT IMPLEMENTING AGENCY			
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CLIENT: MINISTRY OF EDUCATION			
PROJECT:			
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME			
URINE DIVERTING DRY TOILET (UDDT)			
LOCATION:	Adama		
EARTHQUAKE ZONE:	Zone 4		
CLIMATE:	Hot & Dry		
DRAWING TITLE:			
TILE & FINISHING PLAN, SCREEN			
DATE OF ISSUE:	DRAWN BY:	SCALE:	DATE OF REVISION:
01.05.08	NH	1:20	
DRAWING NUMBER:			CHECKED:
AD-AR-DT-T1-0-EP-010-A			AR
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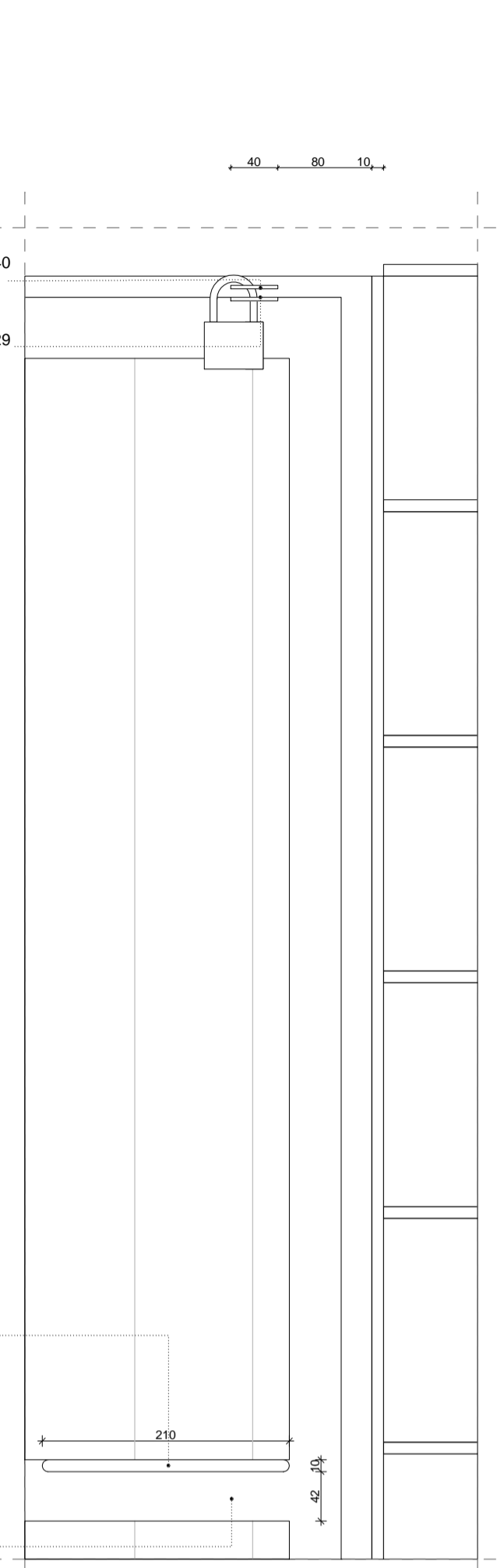
ELEVATION FROM TOILET CUBICAL
sc. 1:20



SECTION / DOOR CLOSED
sc. 1:20



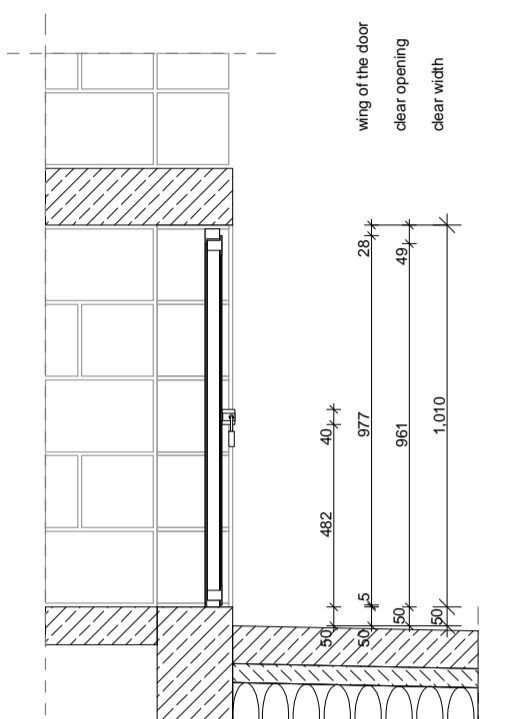
DETAIL 01 OF DOOR D2
sc. 1:5



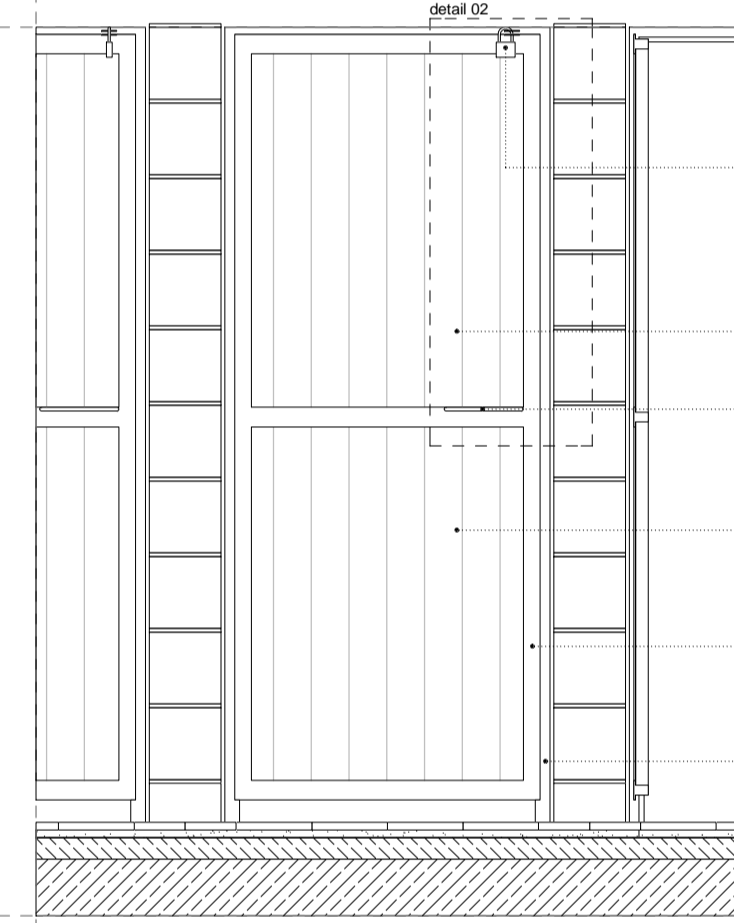
DETAIL 02 OF DOOR D2
sc. 1:5



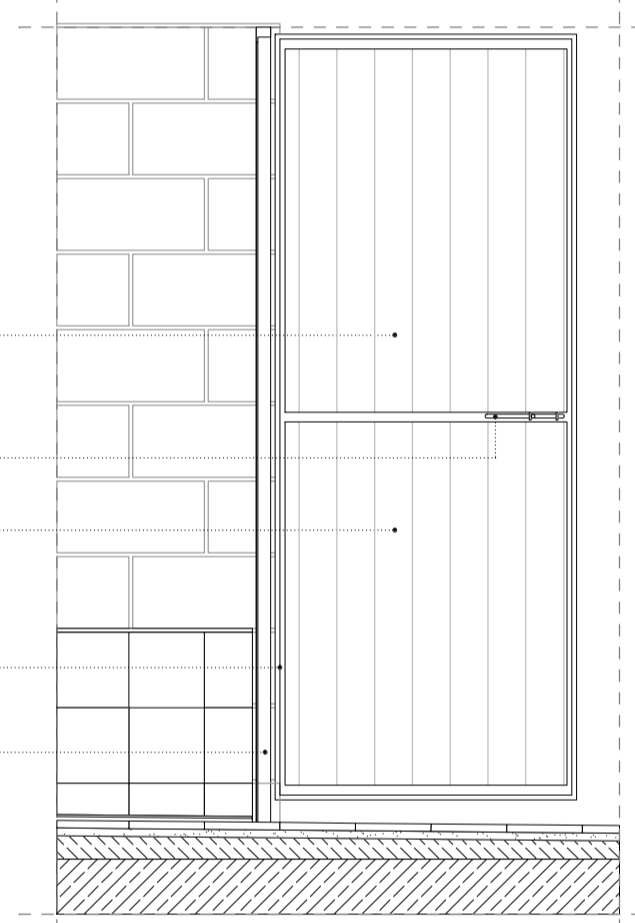
ELEVATION FROM INSIDE
sc. 1:20



SECTION
sc. 1:20



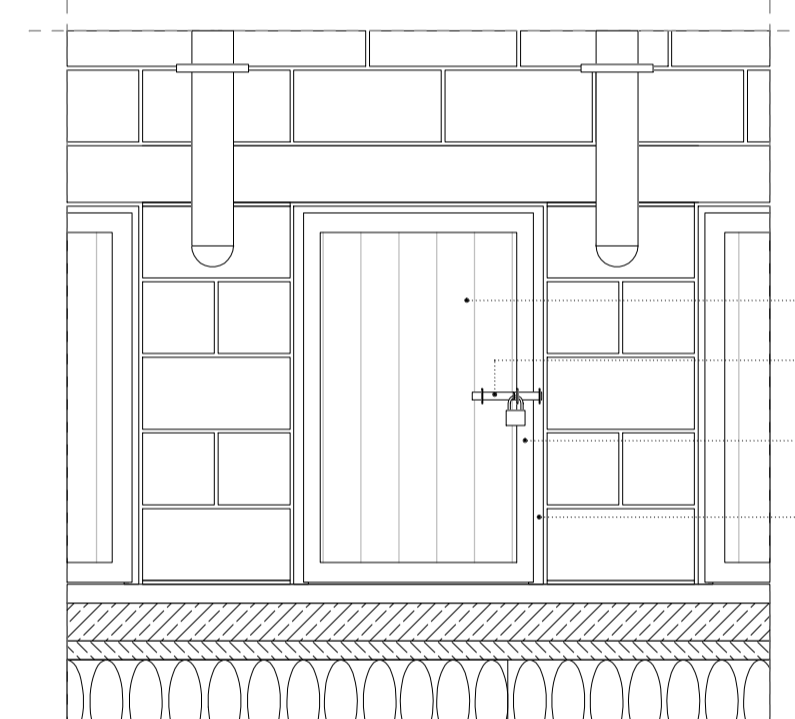
ELEVATION FROM CORRIDOR
sc. 1:20



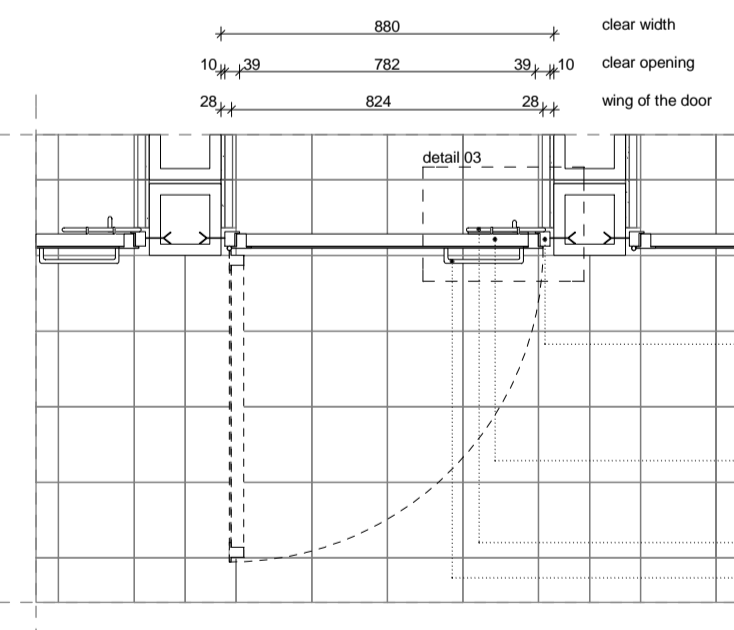
SECTION / DOOR OPEN
sc. 1:20

DETAIL 01 OF DOOR D2
sc. 1:5

DETAIL 02 OF DOOR D2
sc. 1:5



ELEVATION FROM OUTSIDE
sc. 1:20



PLAN
sc. 1:20

CUBICAL DOOR D2 - DESCRIPTION

designation: D2

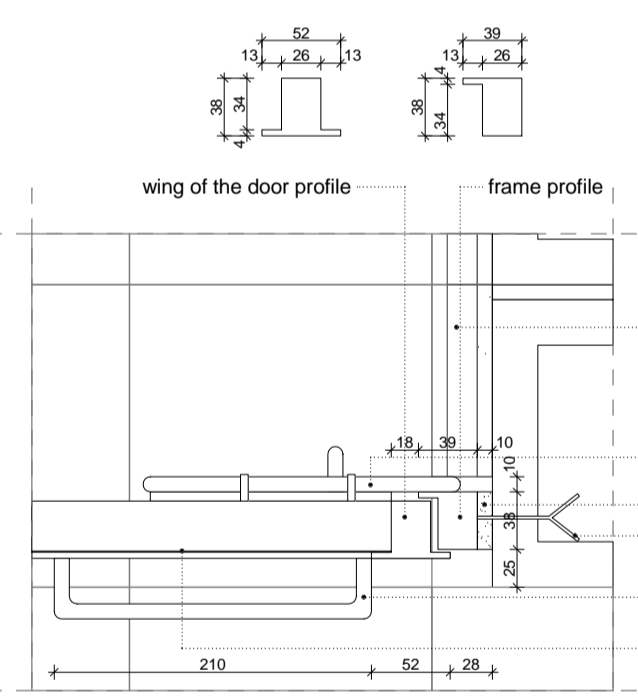
location: first floor

opening size: 2103 x 880 mm (from top of tiles to top of HCB wall, top of opening size is open)

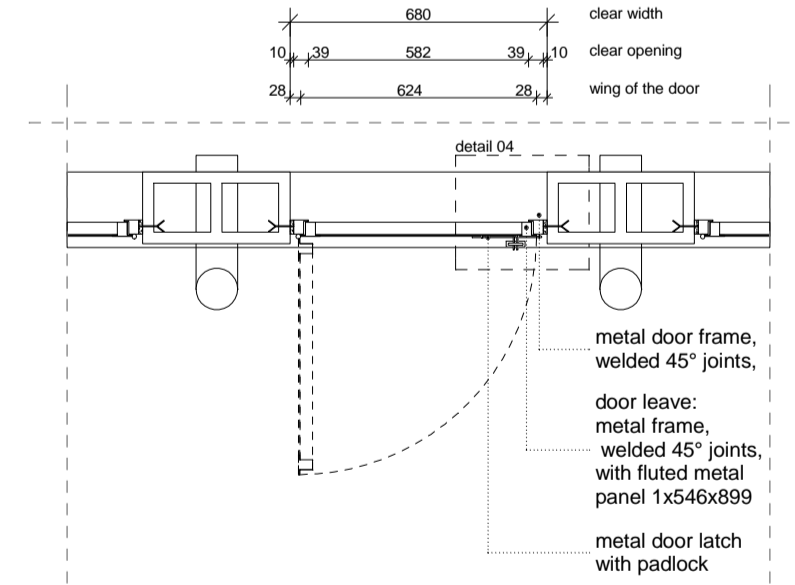
production size: 2140 x 860 mm

quantities: female's unit: 16, male's unit: 10 = total 26 pieces

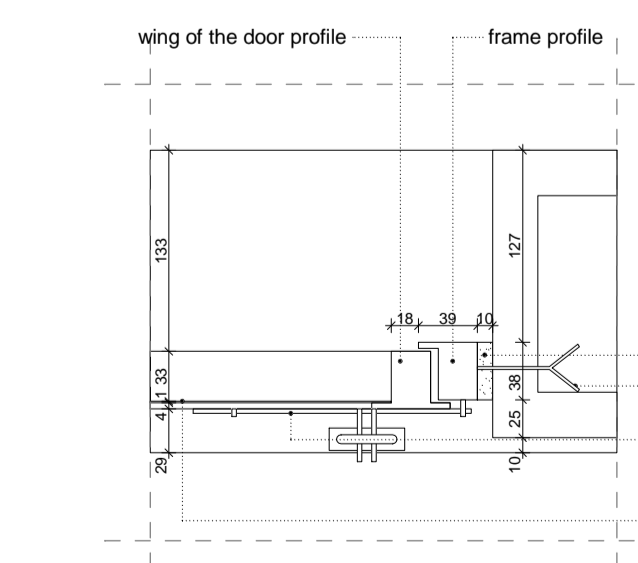
material: frame in metal, welded 45° joints, panel in fluted metal sheet



DETAIL 03 OF DOOR D2
sc. 1:5



PLAN
sc. 1:20



DETAIL 04 OF DOOR D1
sc. 1:5

GROUND FLOOR DOOR D1 - DESCRIPTION

designation: D1

location: ground floor

opening size: 1010 x 680 mm

production size: 1000 x 660 mm

quantities: female's unit: 17, male's unit: 11 = total 28 pieces

material: frame in metal, welded 45° joints, panel in fluted metal sheet

LEGEND

All measurements have to be checked on site by the contractor

NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-011-A

PROJECT IMPLEMENTING AGENCY



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CLIENT: MINISTRY OF EDUCATION

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

LOCATION: Adama

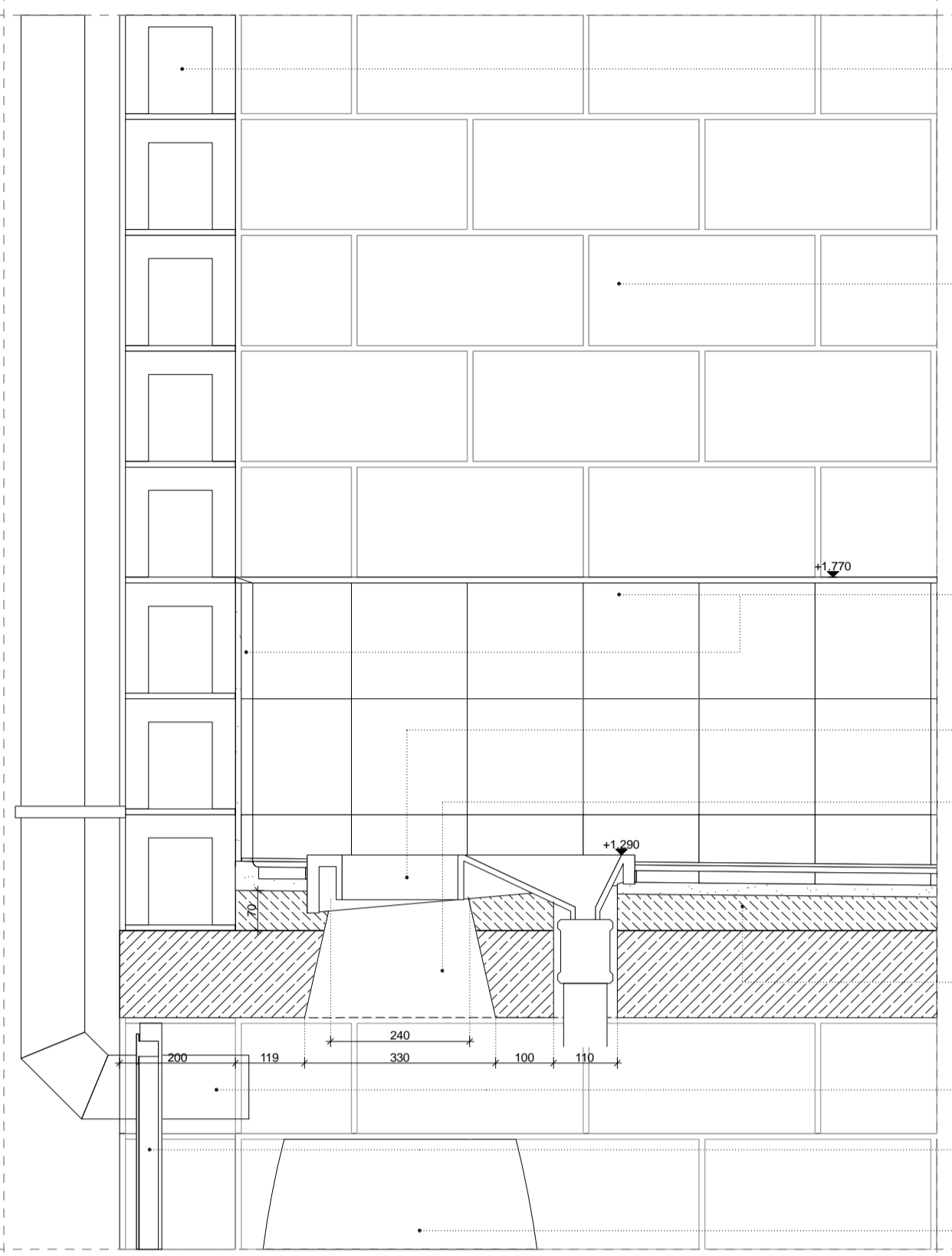
EARTHQUAKE ZONE: Zone 4

CLIMATE: Hot & Dry

DRAWING TITLE:
DOOR SCHEDULE

DATE OF ISSUE	DRAWN BY	SCALE	DATE OF REVISION	CHECKED BY
01.05.08	NH	1:20		AR

DRAWING NUMBER: AD-AR-DT-T1-0-EP-011-A



"2 HOLE" CUBICAL - SECTION
sc. 1:10

exterior HCB wall 190x190x390,
cement wash and
painted inside and outside,
HCB is flush with inside of beam/column

HCB partition wall 190x190x390,
cement wash and
painted inside and outside,
HCB is located in center of beam

wall built-up:
- Terrazzo tiles 200x200x20
- mortar 15mm
- HCB wall 190x190x390,
cement wash and
painted outside

ceramic mould (EcoSan Turkish)

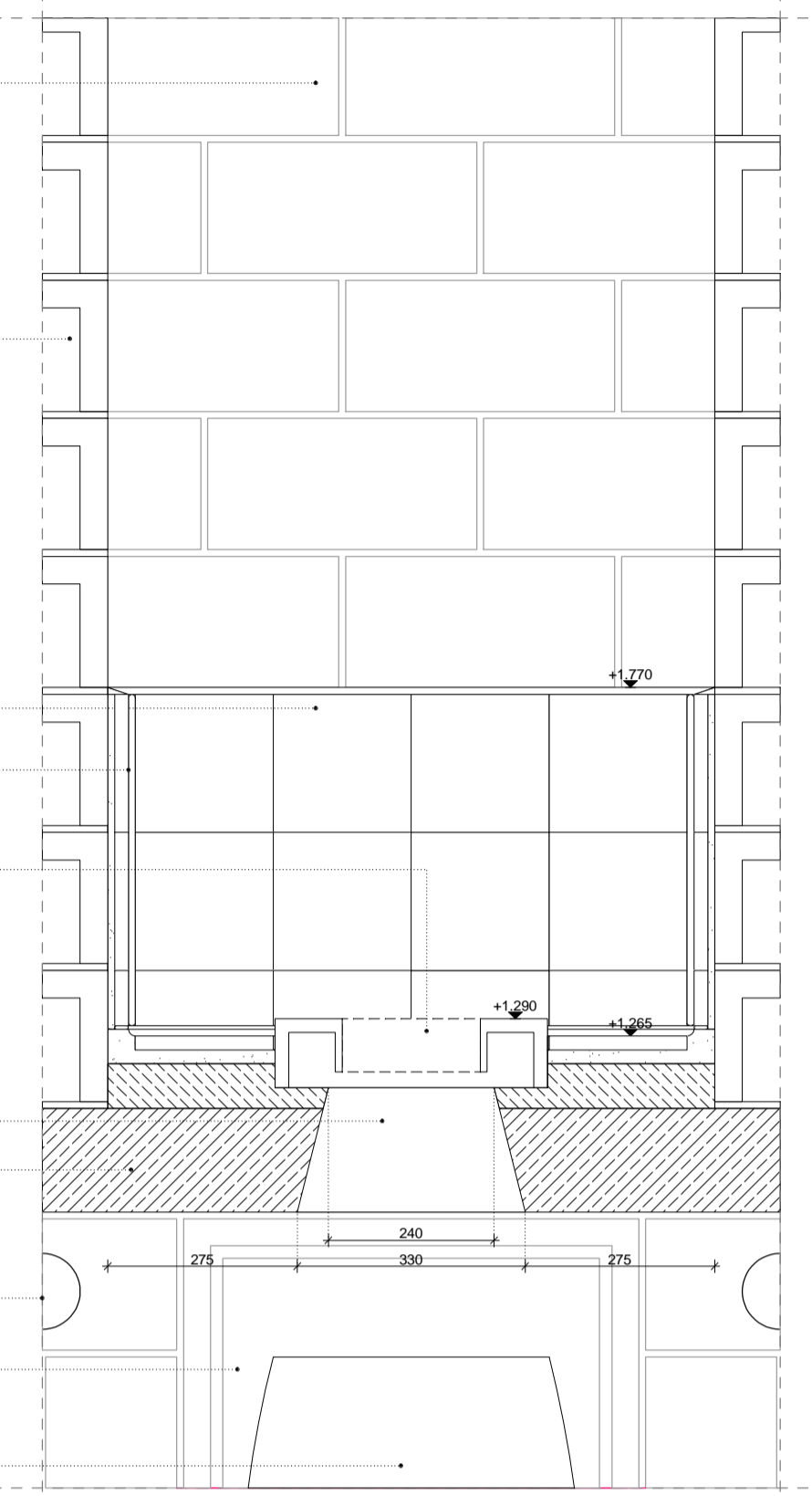
conical recess in reinforced concrete slab
and cement screed

first floor built-up:
- Terrazzo tiles 200x200x20
- mortar 20mm
- cement screed for slope 50-70mm
- solid reinforced concrete slab 150mm

PVC ventilation pipe d=110

metal door D1

collection bin



"2 HOLE" CUBICAL - SECTION
sc. 1:10

metal door D2

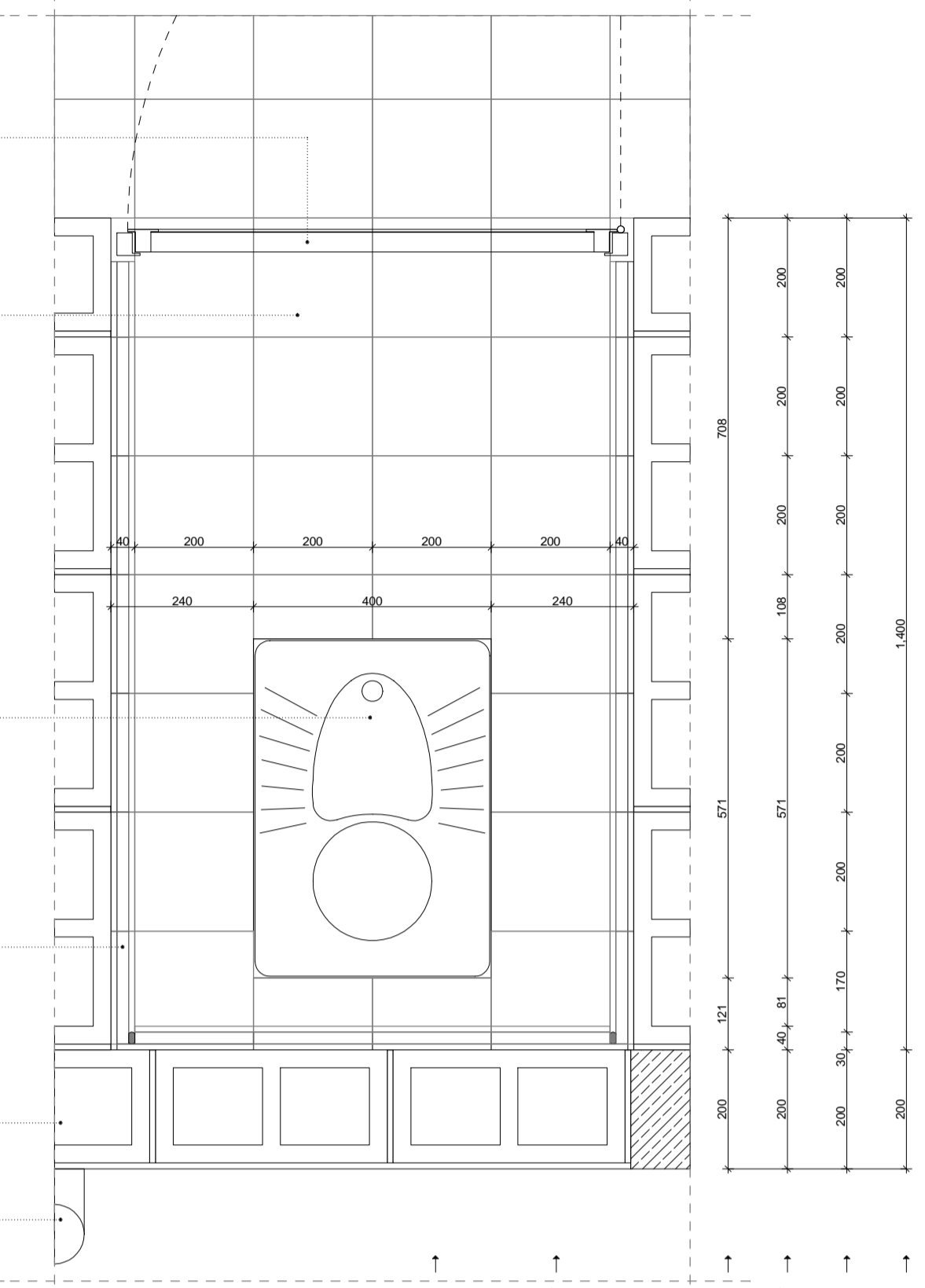
first floor built-up:
- Terrazzo tiles 200x200x20
- mortar 20mm
- cement screed for slope 50-70mm
- solid reinforced concrete slab 150mm

ceramic mould
(EcoSan Turkish)

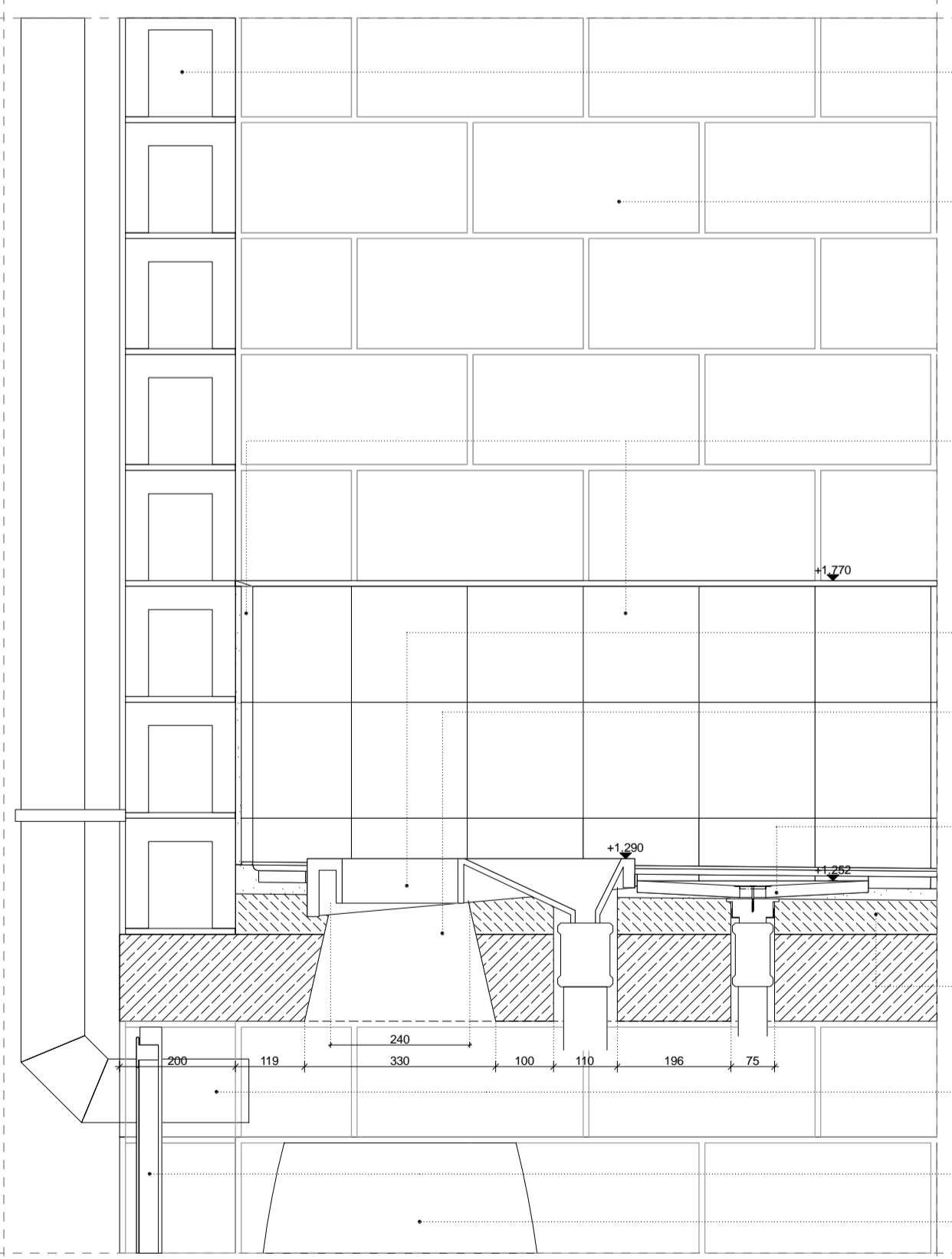
partition wall built-up:
- Terrazzo tiles 200x200x20
- mortar 15mm
- HCB wall 190x190x390,
cement wash and
painted outside,
HCB is located in center of beam

exterior HCB wall is flush
with inside of beam/column

PVC ventilation pipe d=110



"2 HOLE" CUBICAL - PLAN
sc. 1:10



"3 HOLE" CUBICAL - SECTION
sc. 1:10

exterior HCB wall 190x190x390,
cement wash and
painted inside and outside,
HCB is flush with inside of beam/column

HCB partition wall 190x190x390,
cement wash and
painted inside and outside,
HCB is located in center of beam

wall built-up:
- Terrazzo tiles 200x200x20
- mortar 15mm
- HCB wall 190x190x390,
cement wash and
painted outside

ceramic mould
(EcoSan Turkish)

conical recess in reinforced concrete slab
and cement screed

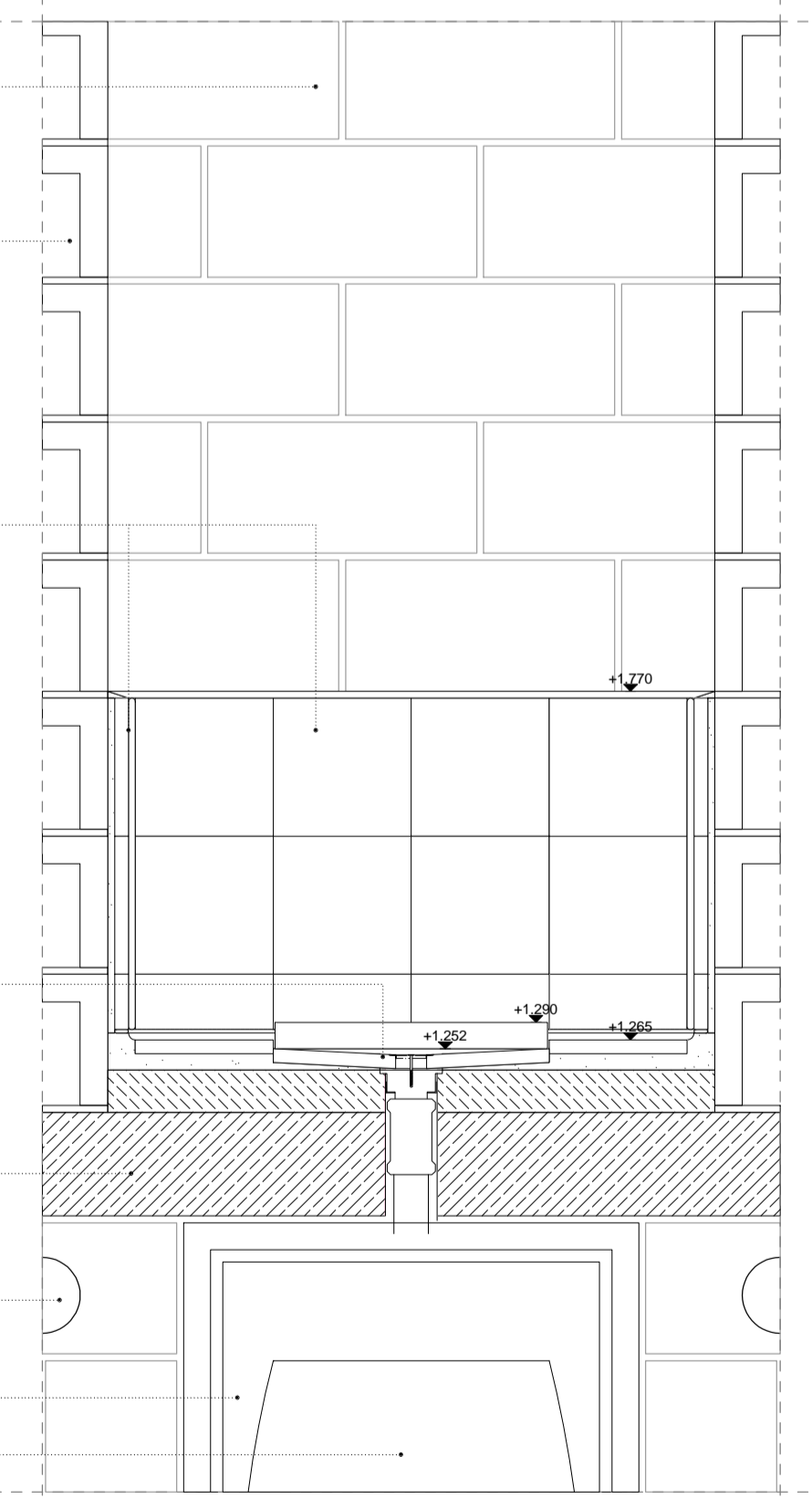
greywater outled for anal cleansing:
4 quartered Terrazzo tiles 400x400x20
with a hole (d=45) in the middle

first floor built-up:
- Terrazzo tiles 200x200x20
- mortar 20mm
- cement screed for slope 50-70mm
- solid reinforced concrete slab 150mm

PVC ventilation pipe d=110

metal door D1

collection bin



"3 HOLE" CUBICAL - SECTION
sc. 1:10

metal door D2

first floor built-up:
- Terrazzo tiles 200x200x20
- mortar 20mm
- cement screed for slope 50-70mm
- solid reinforced concrete slab 150mm

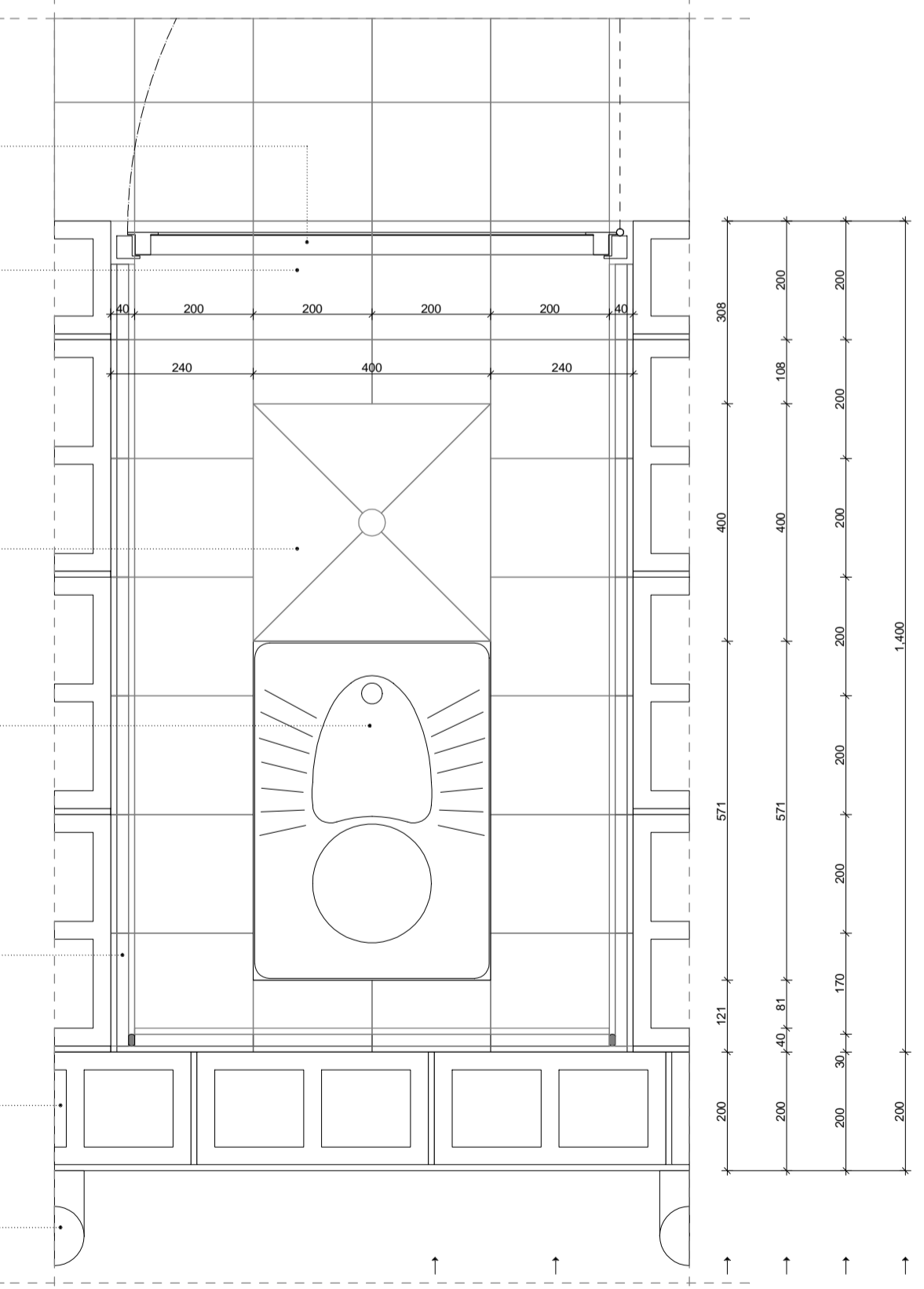
greywater outled for anal cleansing:
4 quartered Terrazzo tiles 400x400x20
with a hole (d=45) in the middle

ceramic mould
(EcoSan Turkish)

partition wall built-up:
- Terrazzo tiles 200x200x20
- mortar 15mm
- HCB wall 190x190x390,
cement wash and
painted outside,
HCB is located in center of beam

exterior HCB wall is flush with
inside of beam/column

PVC ventilation pipe d=110



"3 HOLE" CUBICAL - PLAN
sc. 1:10

LEGEND

All measurements have to be checked on site by the contractor

A	Tender	01.05.08	
NO.	REVISION	DATE	SIGN

UCBP AD-AR-DT-T1-0-EP-012-A

PROJECT IMPLEMENTING AGENCY

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CLIENT: **MINISTRY OF EDUCATION**

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

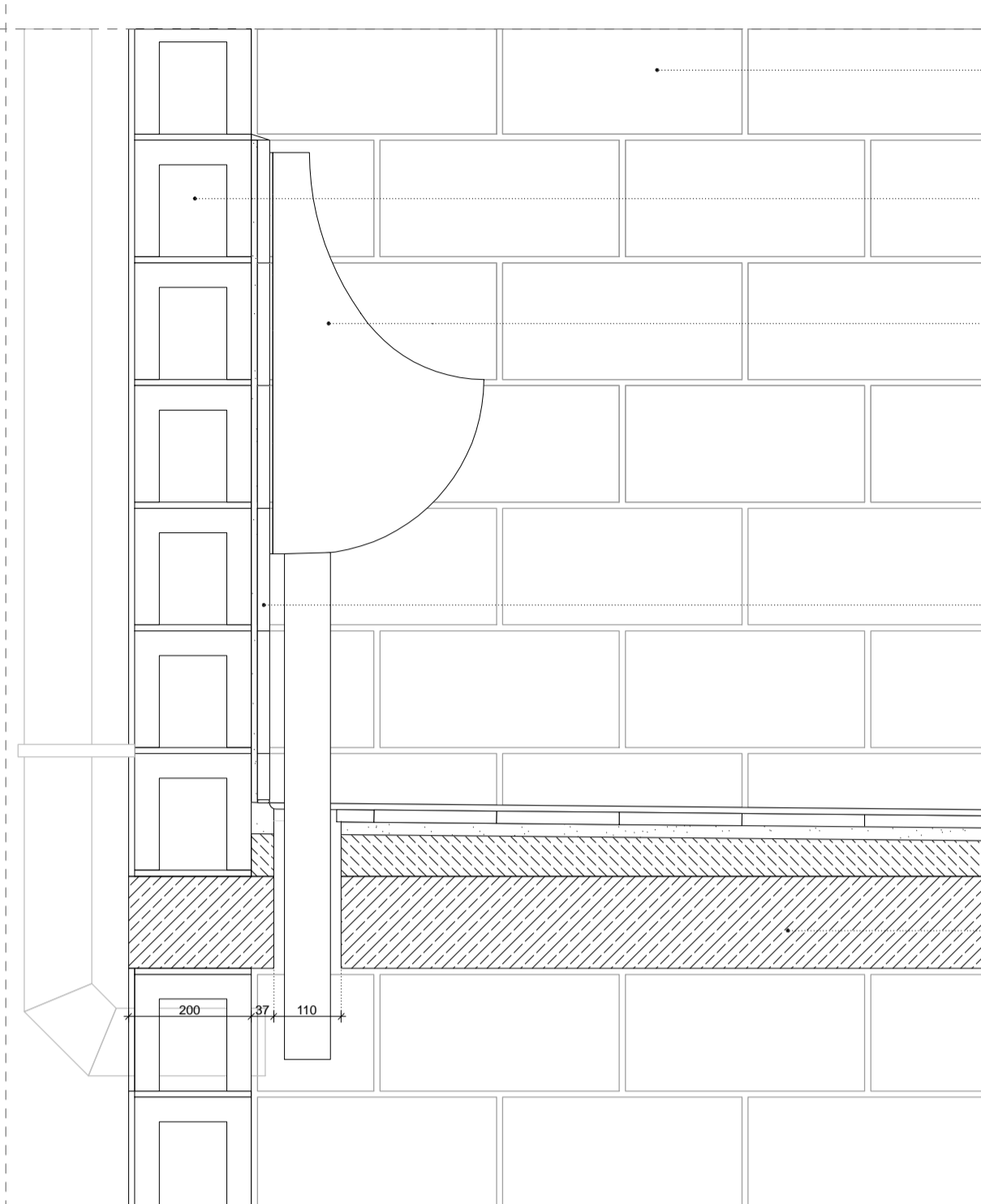
LOCATION: **Adama**

EARTHQUAKE ZONE: **Zone 4**

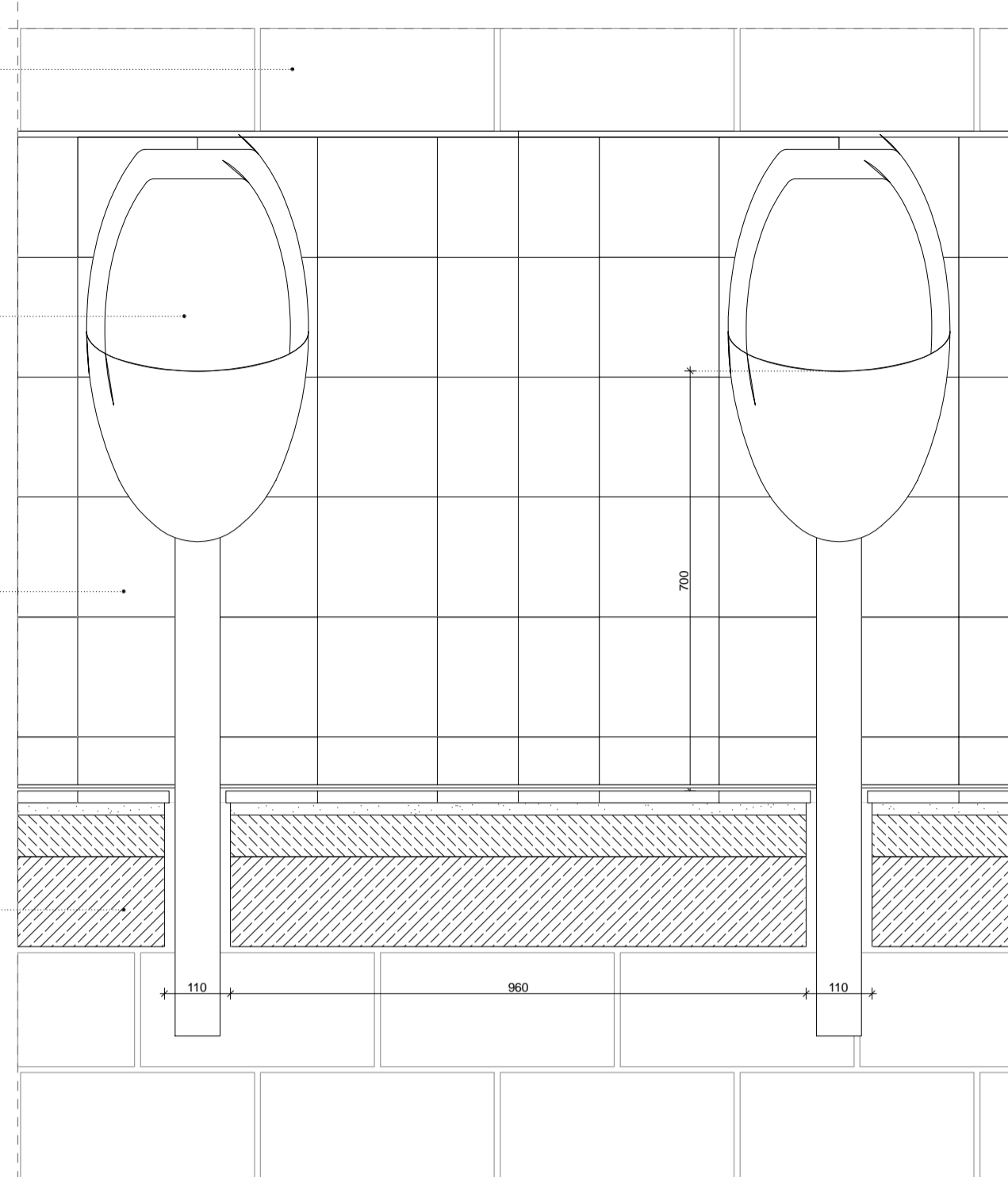
CLIMATE: **Hot & Dry**

DRAWING TITLE:
CUBICAL DETAILS

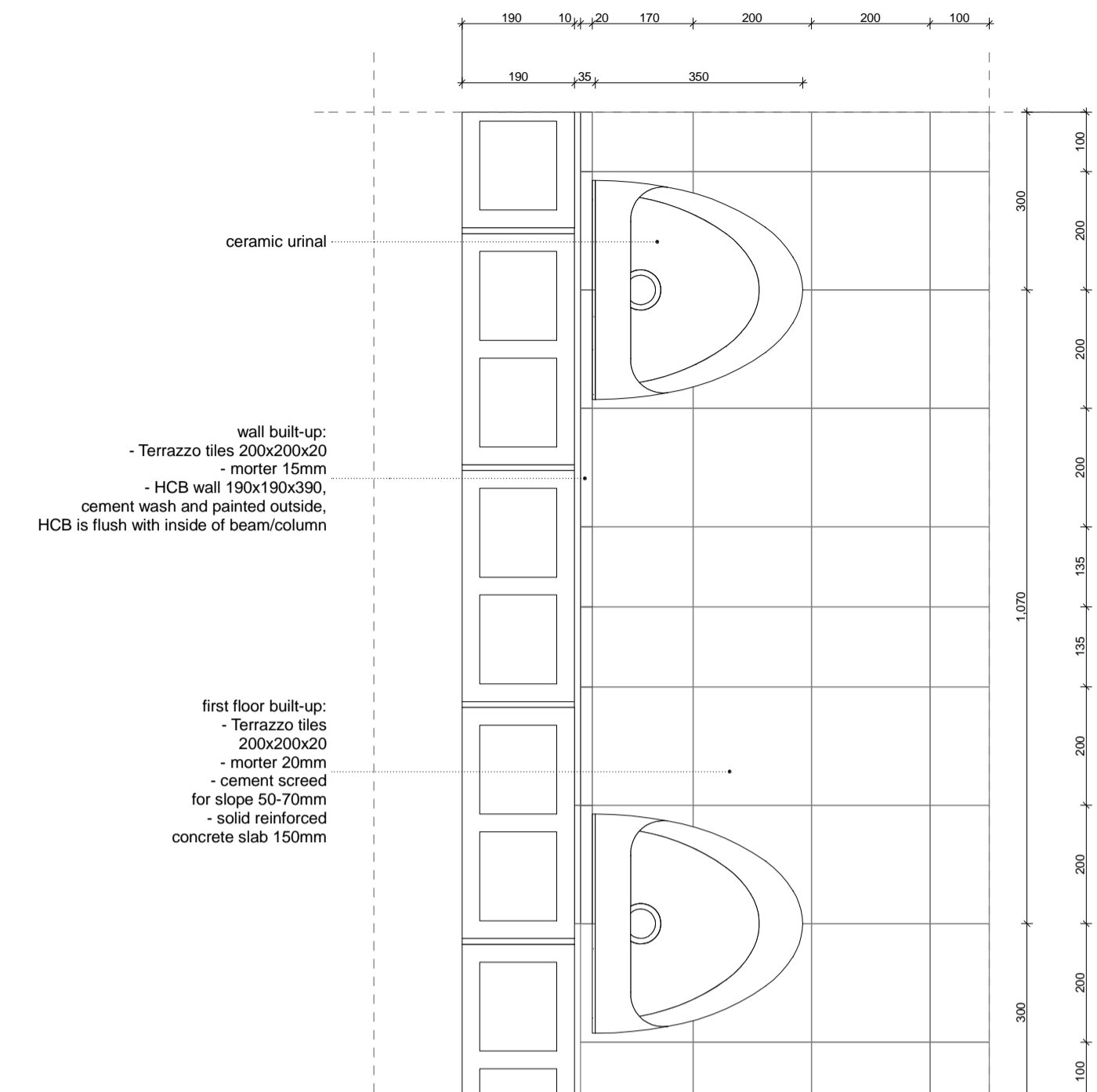
DATE OF ISSUE: 01.05.08	DRAWN BY: NH	SCALE: 1:10	DATE OF REVISION:	CHECKED BY: AR
DRAWING NUMBER: AD-AR-DT-T1-0-EP-012-A				PAGE: A



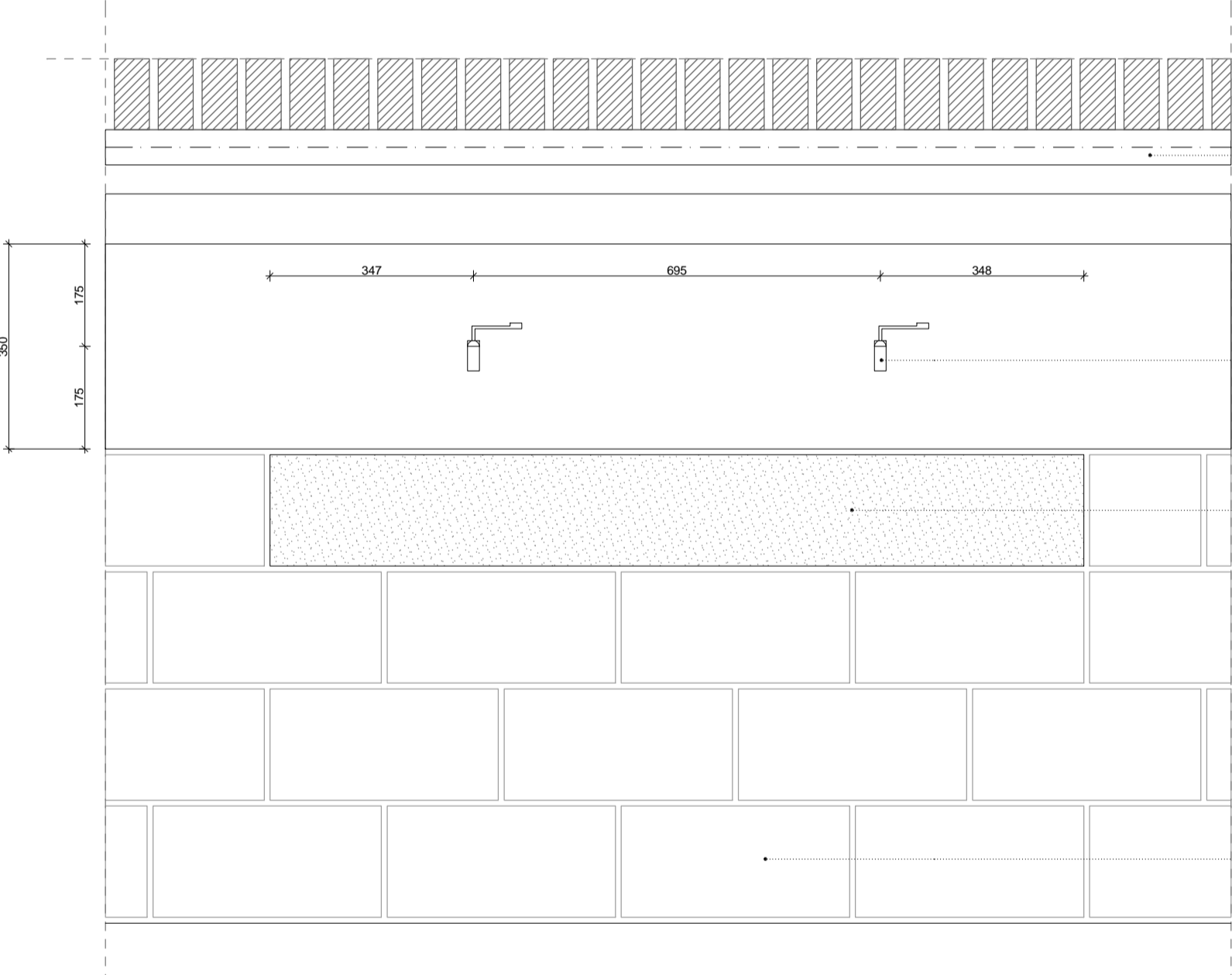
URINAL - SECTION
sc. 1:10



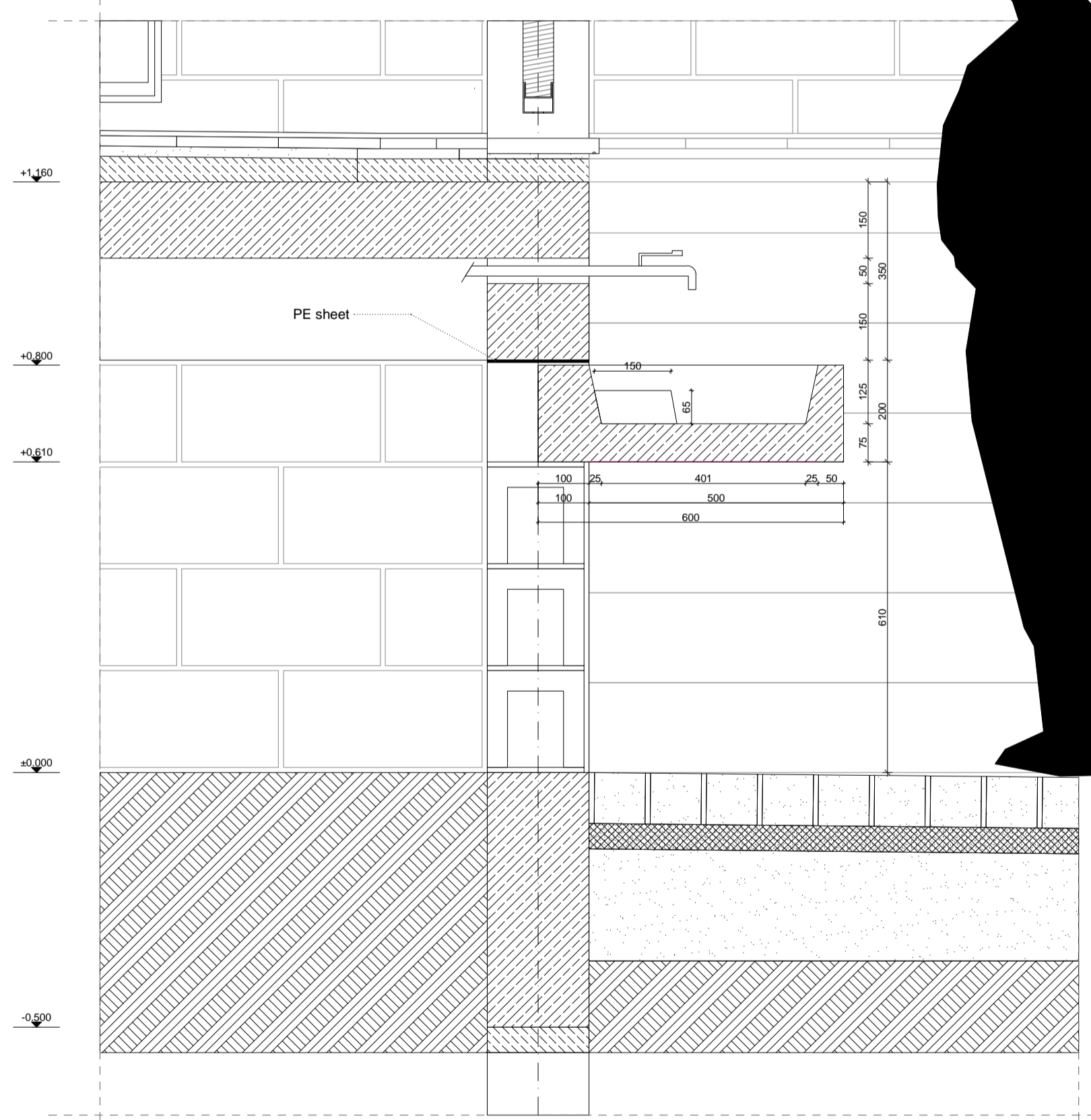
URINAL - ELEVATION
sc. 1:10



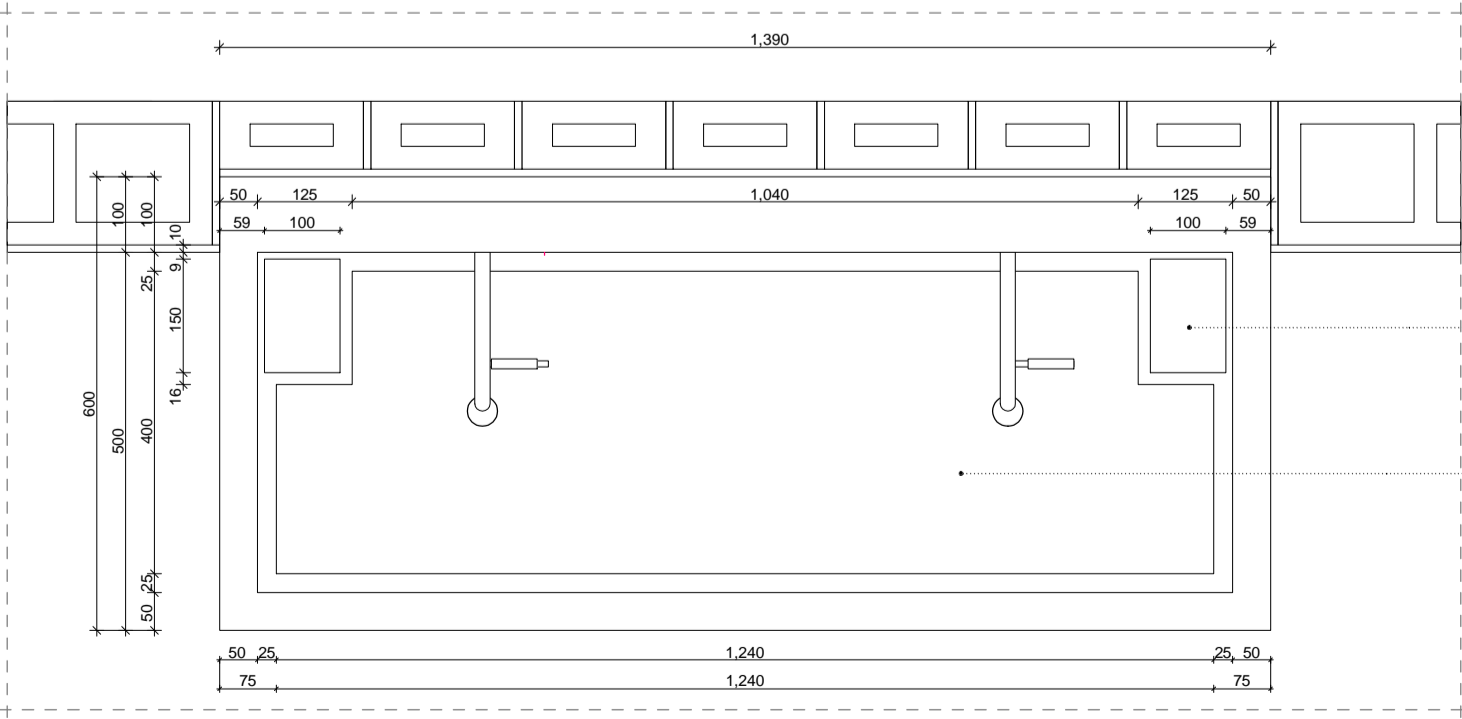
URINAL - PLAN
sc. 1:10



HAND-WASH BASIN - ELEVATION
sc. 1:10

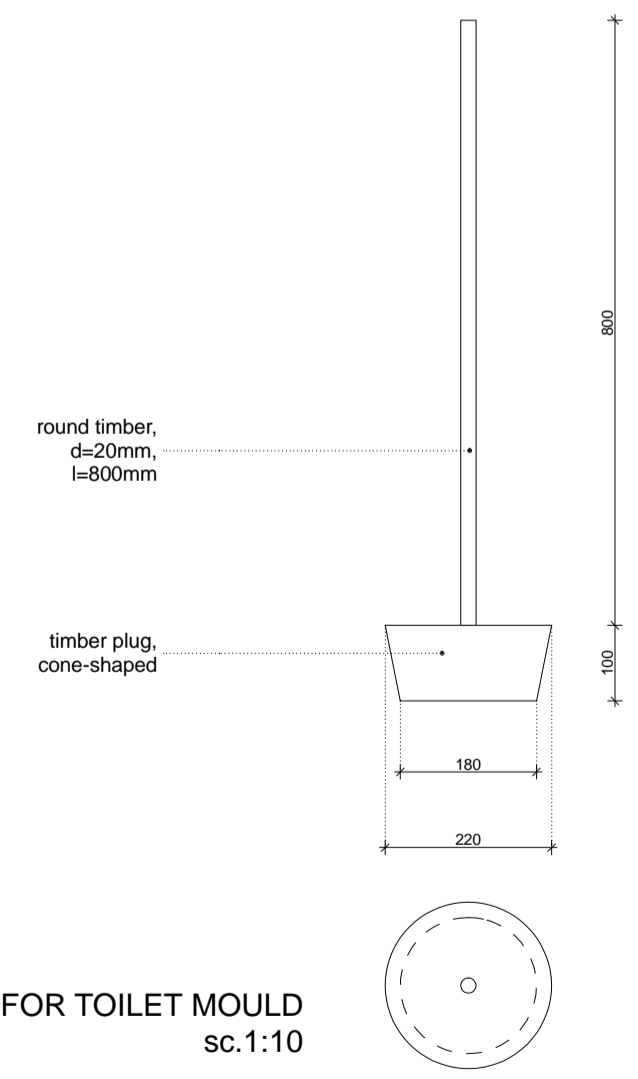
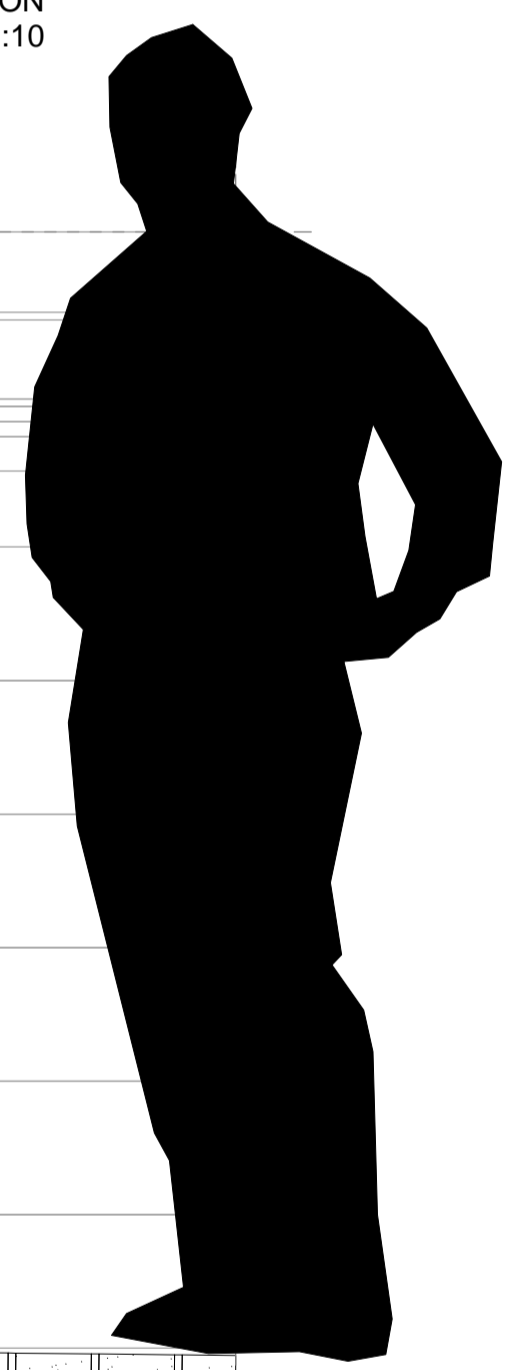


HAND-WASH BASIN - SECTION
sc. 1:10



HAND-WASH BASIN - PLAN
sc. 1:20

hand-wash basin is made out of reinforced concrete and prefabricated on site, in order to reach adequate quality of exposed concrete special formwork shall be used



PLUG FOR TOILET MOULD
sc. 1:10

LEGEND

All measurements have to be checked on site by the contractor

NO.	REVISION	DATE	SIGN
A	Tender	01.05.08	

UCBP AD-AR-DT-T1-0-EP-013-A

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CLIENT: **MINISTRY OF EDUCATION**

PROJECT:
UCBP - UNIVERSITY CAPACITY BUILDING PROGRAMME

URINE DIVERTING DRY TOILET (UDDT)

LOCATION: **Adama**

EARTHQUAKE ZONE: **Zone 4**

CLIMATE: **Hot & Dry**

DRAWING TITLE:
URINAL DETAIL, HAND-WASH BASIN

DATE OF ISSUE	DRAWN BY	SCALE	DATE OF REVISION	CHECKED BY
01.05.08	NH	1:10		AR

DRAWING NUMBER: **AD-AR-DT-T1-0-EP-013-A**

PAGE: **A**