



USAID
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UNITED STATES AGENCY
FOR INTERNATIONAL DEVELOPMENT



THE HASHEMITE KINGDOM OF JORDAN
MINISTRY OF PUBLIC WORKS & HOUSING



THE HASHEMITE KINGDOM OF JORDAN
MINISTRY OF EDUCATION

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

Tender Documents

Vol. IV / Drawings - Rev. 0

Phase III - Package 1

(1/2020/USAID/SKEP/3/1)

BOOK OF DETAILS

Date: JUNE 2020



ABBREVIATIONS

* BUILDING DETAILS	
VERTICAL WALL SECTIONS	VWS
HORIZONTAL WALL SECTIONS	HWS
INTERNAL STAIRS DETAILS	ST
EXPANSION JOINT DETAILS	EXP
MISCELLANEOUS DETAILS	MCD
* SITE WORKS DETAILS	
LANDSCAPING DETAILS	LSD
* DOORS AND WINDOWS DETAILS	
DOORS DETAILS	DRD
WINDOWS DETAILS	WD
* SCHOOL COMPONENTS	
FIXED FURNITURE DETAILS	FFD
WET AREAS DETAILS	WAD

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)


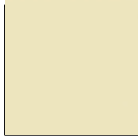

DRAWING NAME:	DESIGN:	DRAWN:	REVISION No. :
ABBREVIATIONS	H.B.	Engicon	0
	Checked:	Approved:	SHEET NUMBER:
	M.Sh.	S.B.	G-000
	Date:	SCALE :	
	June 2020	-	

EXTERNAL FINISHES

BUILDING/ EXTERNAL WALLS



COLOR SCHEME

CEMENT BASED PREMIXED DECORATIVE COATS (TEXTURE: GROOVED GRAFFIO FINISH)
OF THE FOLLOWING COLOR SHADES:




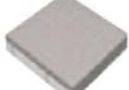



EXTERNAL WALLS WEATHER PAINT	COLOR SHADE 1 (RAL 1013)	
	COLOR SHADE 2 (RAL 1015)	
	COLOR SHADE 3 (RAL 1014)	

COLOR SCHEME

STONE CLADDING	LOCAL STONE MUSAMSAM STONE (من حجار نطع) MUFJAR STONE (من حجار نطع)	
	LOCAL STONE MUSAMSAM STONE (من حجار نطع) MUFJAR STONE (من حجار نطع)	

STEEL WORKS	POWDER COATED GREY (RAL 7037)	
	SEMI GLOSS OIL PAINT GREY (RAL 7037)	

LANDSCAPE

FLOOR TILES	INTERLOCKING TILE PEACH COLOR SIZE: 65x100x200mm	
	INTERLOCKING TILE GREY COLOR SIZE: 65x100x200mm	
	INTERLOCKING TILE PEACH COLOR SIZE: 65x150x150mm	
	INTERLOCKING TILE GREY COLOR SIZE: 65x150x150mm	
	CURB STONE GREY COLOR SIZE: 500x300x150mm	
	ANTI-SLIP GRANITE	
LOCAL STONE (MATTABEH)		

REV.	DATE	REMARKS



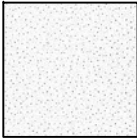


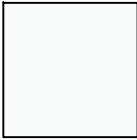

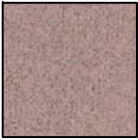
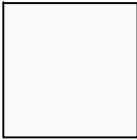




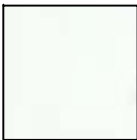
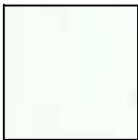

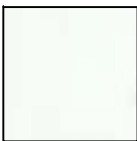
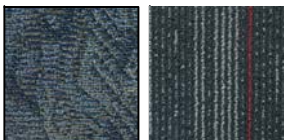




BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
COLOR SCHEME
EXTERNAL FINISHES

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: G-002
Date: June 2020	SCALE : -	

INTERNAL FINISHES

FLOOR TILES		WALL FINISHES		CEILING					
FLOOR TILES	FULLY VITRIFIED PORCELAIN TILES-SEALER GLAZE- SALT AND PEPPER COLOR: LIGHT BEIGE SIZE: 400x400mm		WALL CLADDING/ COPING/ SKIRTING	FULL BODY, FULLY VITRIFIED PORCELAIN COLOR: LIGHT BEIGE TILE SIZE: 400x400mm SKIRTING SIZE: 400x80mm		SUSPENDED CEILING	15mm THK. ACOUSTICAL MINERAL FIBER SUSPENDED CEILING 600X600mm TILES		
	FULLY VITRIFIED PORCELAIN TILES-SEALER GLAZE- SALT AND PEPPER COLOR: GRAY SIZE: 400x400mm			FULL BODY, FULLY VITRIFIED PORCELAIN COLOR: BROWN TILE SIZE: 400x400mm SKIRTING SIZE: 400x80mm			12.5mm THK. SUSPENDED CEILING GYPSUM BOARD PAINTED WHITE		
	FULLY VITRIFIED PORCELAIN TILES-SEALER GLAZE- SALT AND PEPPER COLOR: MAROON SIZE: 400x400mm			FULL BODY, FULLY VITRIFIED PORCELAIN COLOR: MAROON TILE SIZE: 400x400mm SKIRTING SIZE: 400x80mm			12.5mm THK. MOISTURE RESISTANT SUSPENDED CEILING GYPSUM BOARD PAINTED WHITE		
	GRANITE COLOR: RED		GRANITE COLOR: RED		19mm THK. MOISTURE RESISTANT SUSPENDED CEILING 600X600mm TILES				
	LOW COST TERRAZZO TILES CRUSHED MARBLE SIZE: 330x330mm		CERAMIC TILES- GLOSSY SIZE: 200x200mm (USED IN KITCHENETTES AND TOILETS)	BASE COLORS	WHITE	GREY	PLASTER AND PAINT	15mm ACOUSTICAL PLASTER COLOR: WHITE	
	NON-TOXIC EPOXY PAINT				PEACH	LIGHT BLUE		MINT GREEN	PLASTER AND EMULSION PAINT COLOR: WHITE
	RUBBER MAT		PISTACHIO	YELLOW	DARK BLUE	PLASTER AND NON-TOXIC EPOXY PAINT COLOR: WHITE (USED FOR INTERNAL WALLS AND CEILING OF THE WATER TANK)			
CARPET TILES (USED ON THE PLATFORM OF OF THE MULTI-PURPOSE HALL AND IN THE LIBRARY)		PLASTER AND PAINT	PLASTER AND EMULSION PAINT COLOR AS PER ENGINEER APPROVAL FOR EACH SPACE						
			ACOUSTICAL PANELS						

REV.	DATE	REMARKS









BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:	COLOR SCHEME INTERNAL FINISHES	DESIGN: H.B.	DRAWN: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: -	G-003

INTERNAL FINISHES

DOORS

DOOR FRAME	PAINT COLOR: GREY (RAL 7037)	
DOOR LEAF	LAMINATE COLOR: GREY FOR SERVICES & TOILETS	
	LAMINATE COLOR: DARK BLUE FOR CLUSTERS, OFFICES, LIBRARY, MULTI-PURPOSE	
	LAMINATE COLOR: LIME GREEN FOR CLASSROOMS	
	LAMINATE COLOR: YELLOW FOR KINDERGARTEN & CHILDCARE	
	LAMINATE COLOR: DARK PINK FOR KINDERGARTEN & CHILDCARE	

REV.	DATE	REMARKS

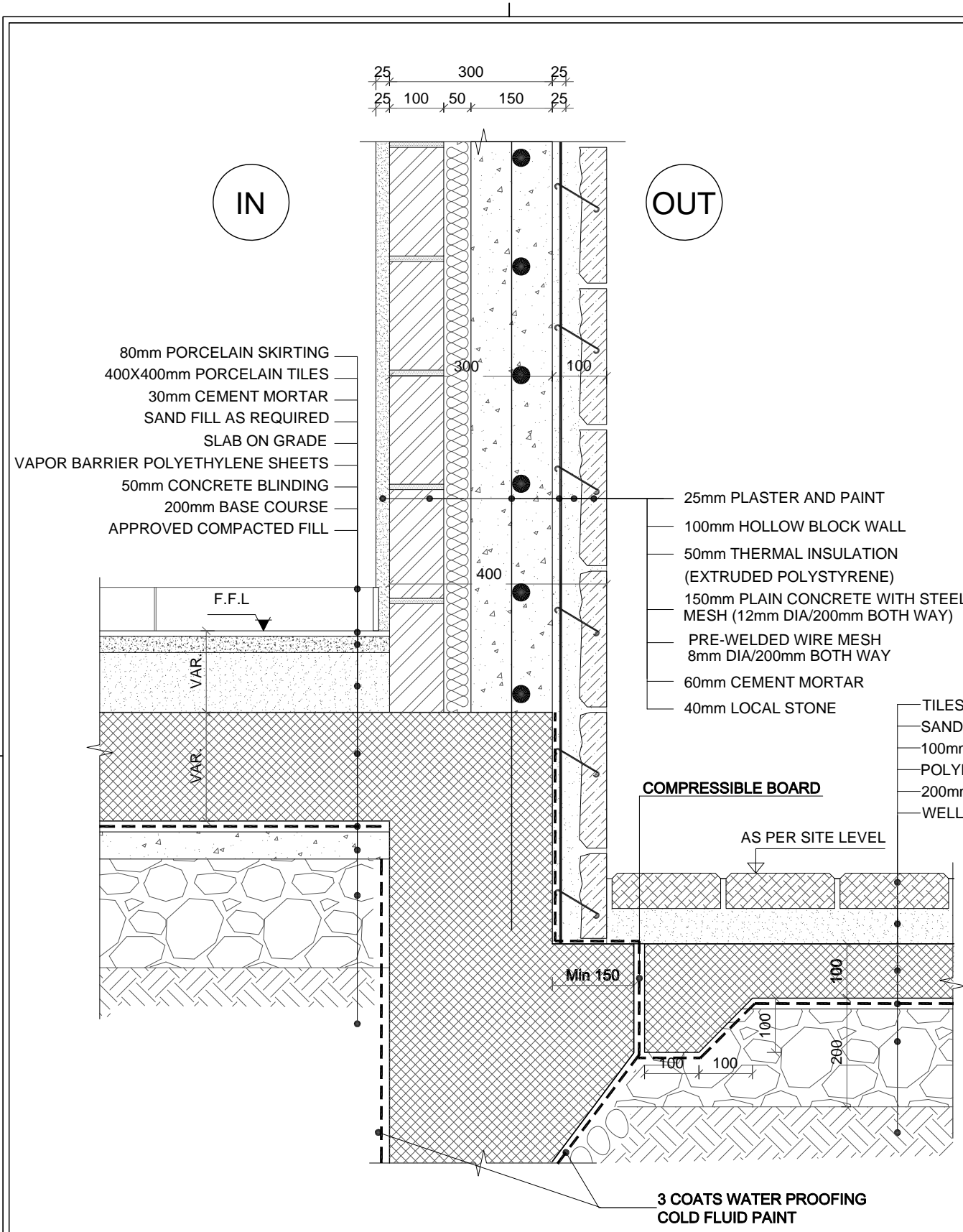


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

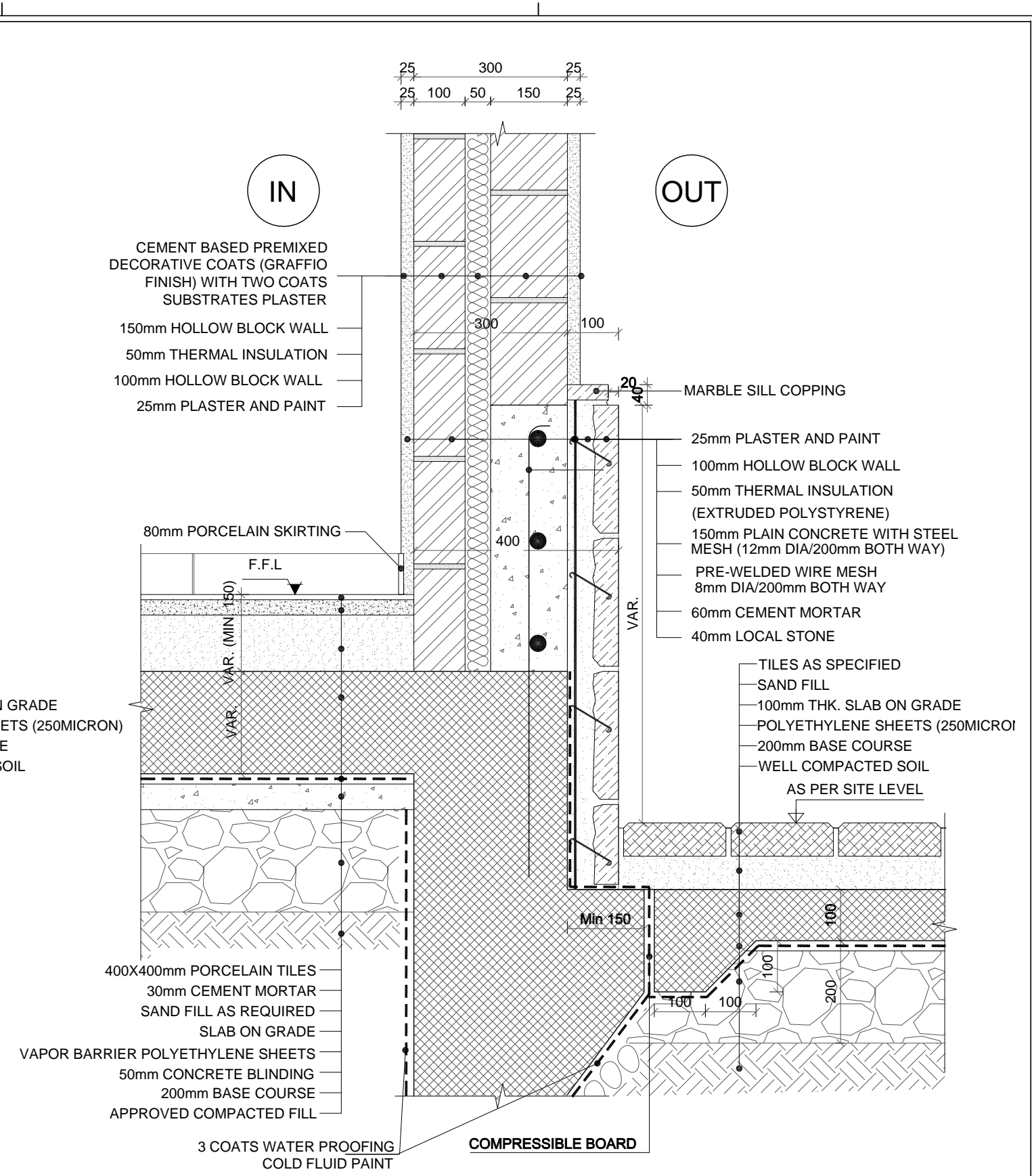
DRAWING NAME:
COLOR SCHEME
INTERNAL FINISHES

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: G-004
Date: June 2020	SCALE : -	

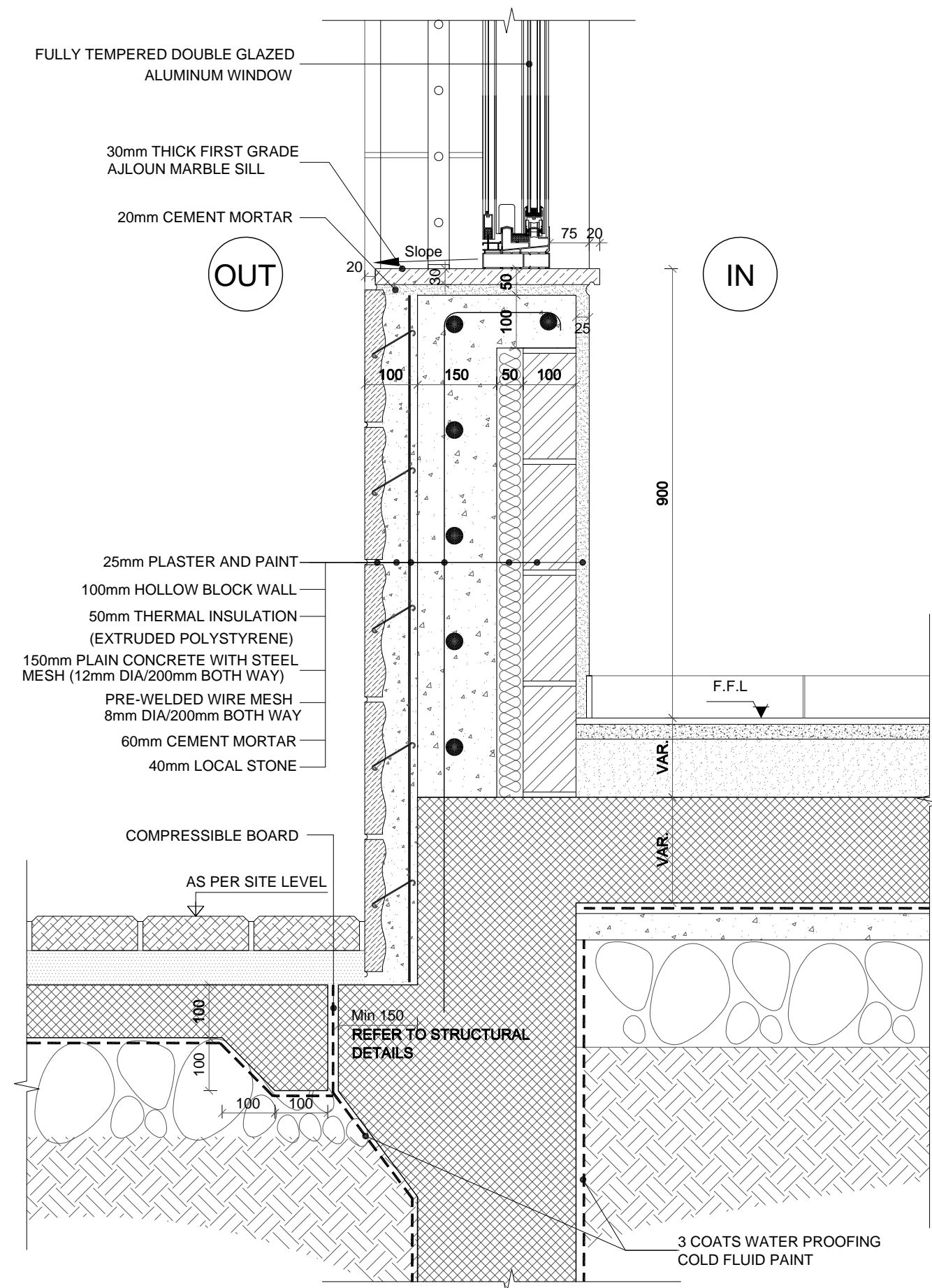
BUILDING DETAILS
VERTICAL WALL SECTIONS



D1 EXTERNAL WALL WITH STONE CLADDING
SCALE 1:10



D2 EXTERNAL WALL WITH STONE CLADDING
SCALE 1:10



D2 EXTERNAL WALL WITH STONE CLADDING- WINDOW SILL
SCALE 1 : 10

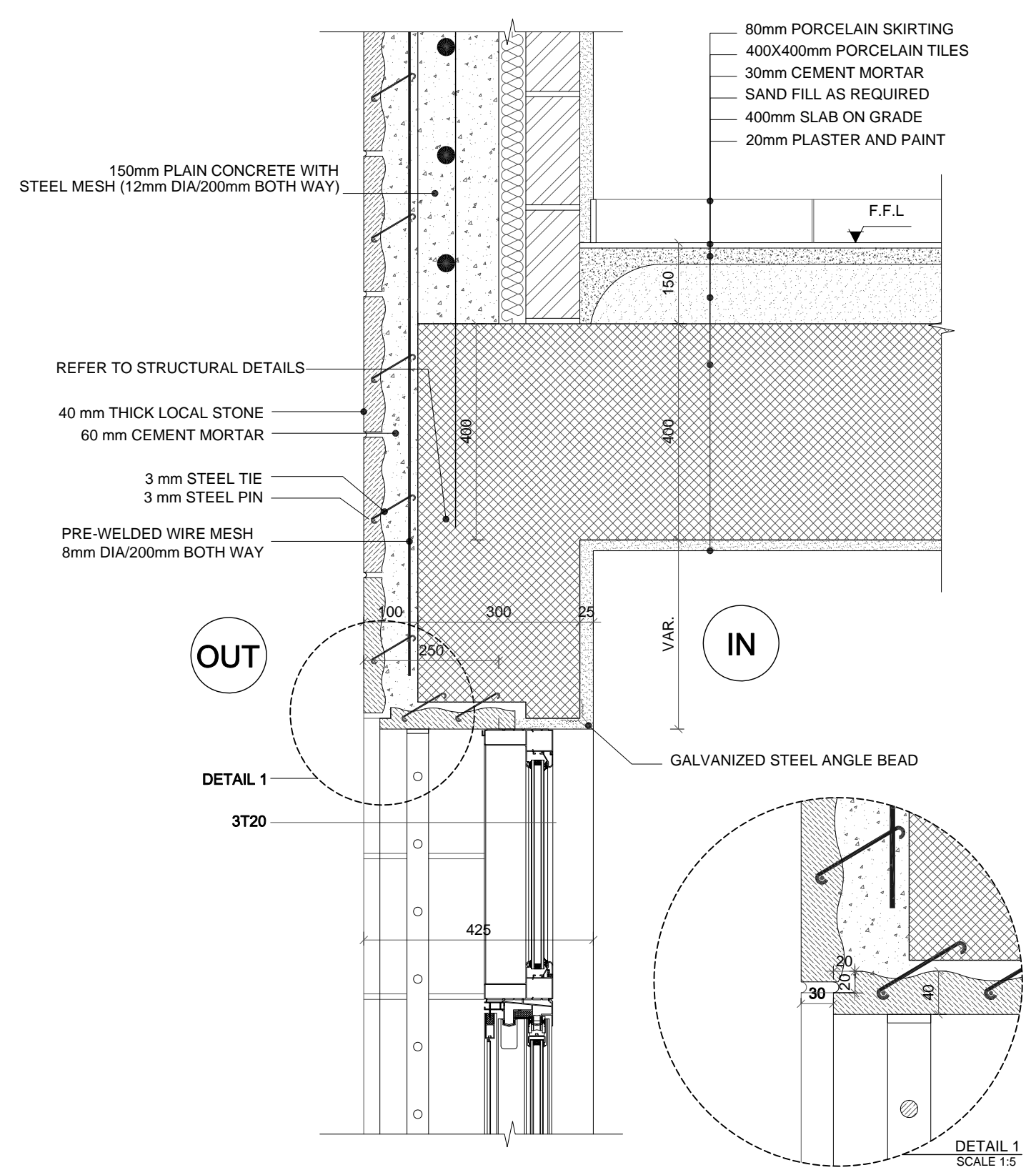
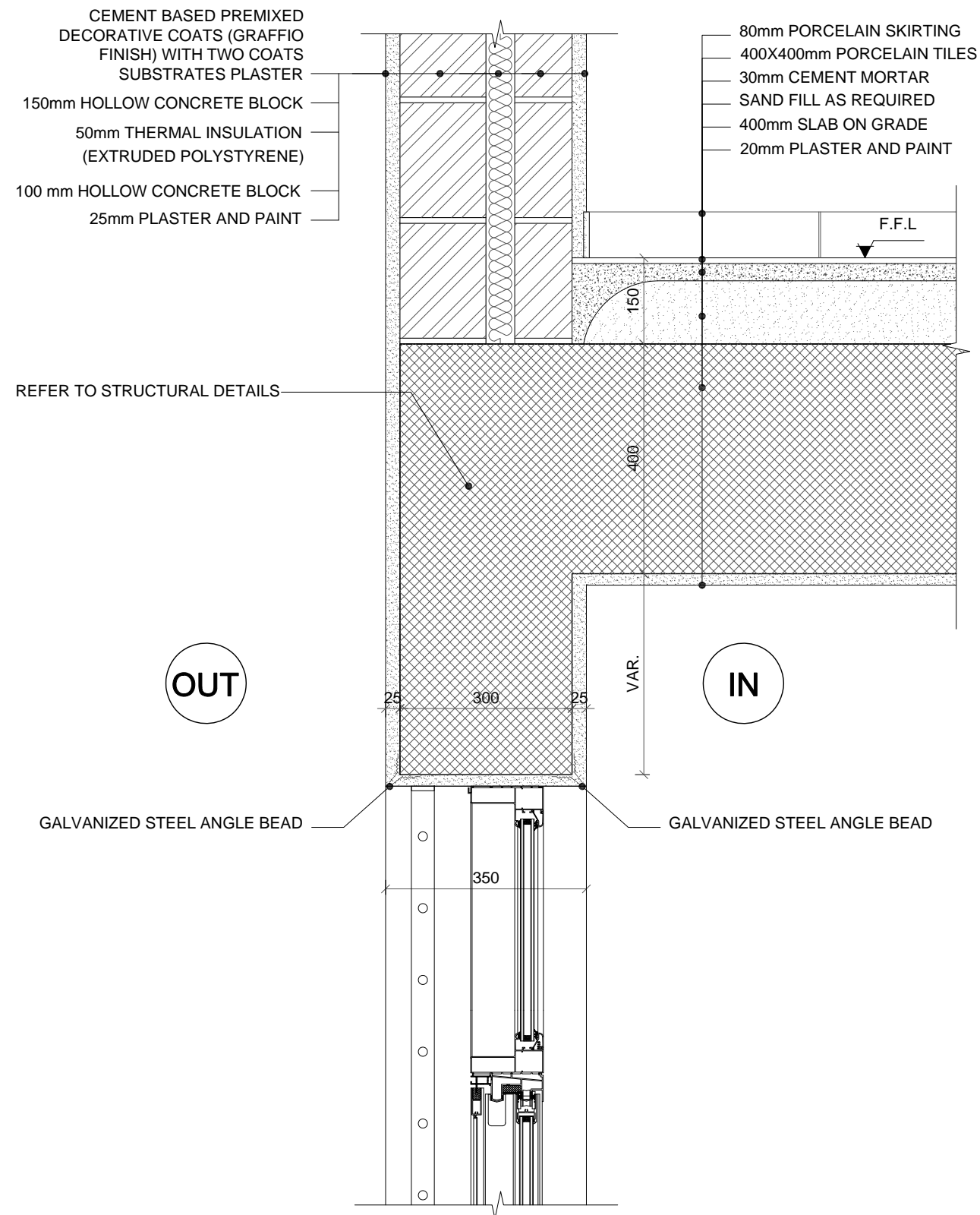
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
EXTERNAL WALLS AT GROUND
FLOOR LEVEL WITH OPENINGS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: VWS-02
Date: June 2020	SCALE : 1:10	



D1 EXTERNAL DOUBLE HOLLOW BLOCK WALL- WINDOW LINTEL
SCALE 1 : 10

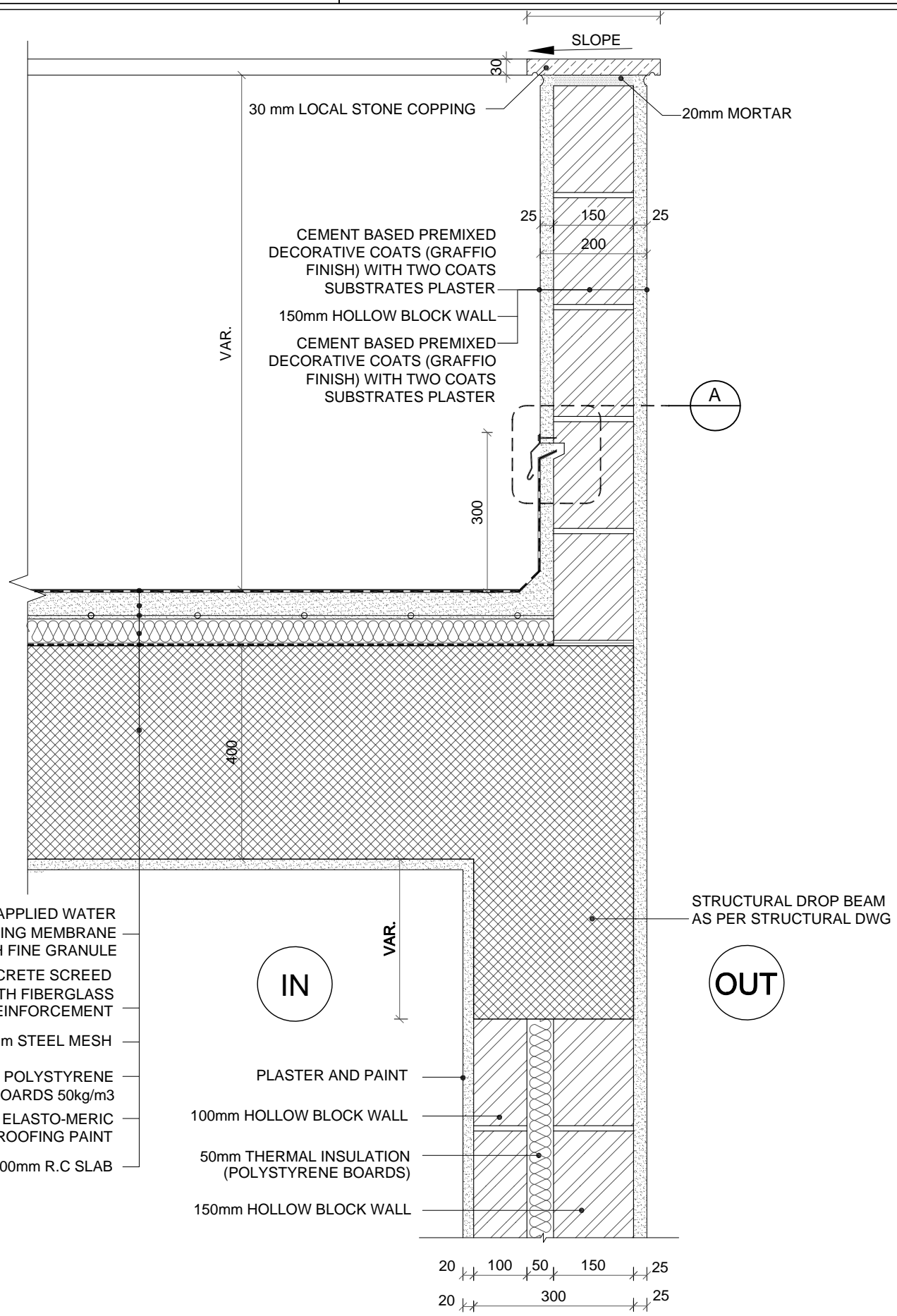
D2 EXTERNAL WALL WITH STONE CLADDING- WINDOW LINTEL
SCALE 1 : 10

REV.	DATE	REMARKS

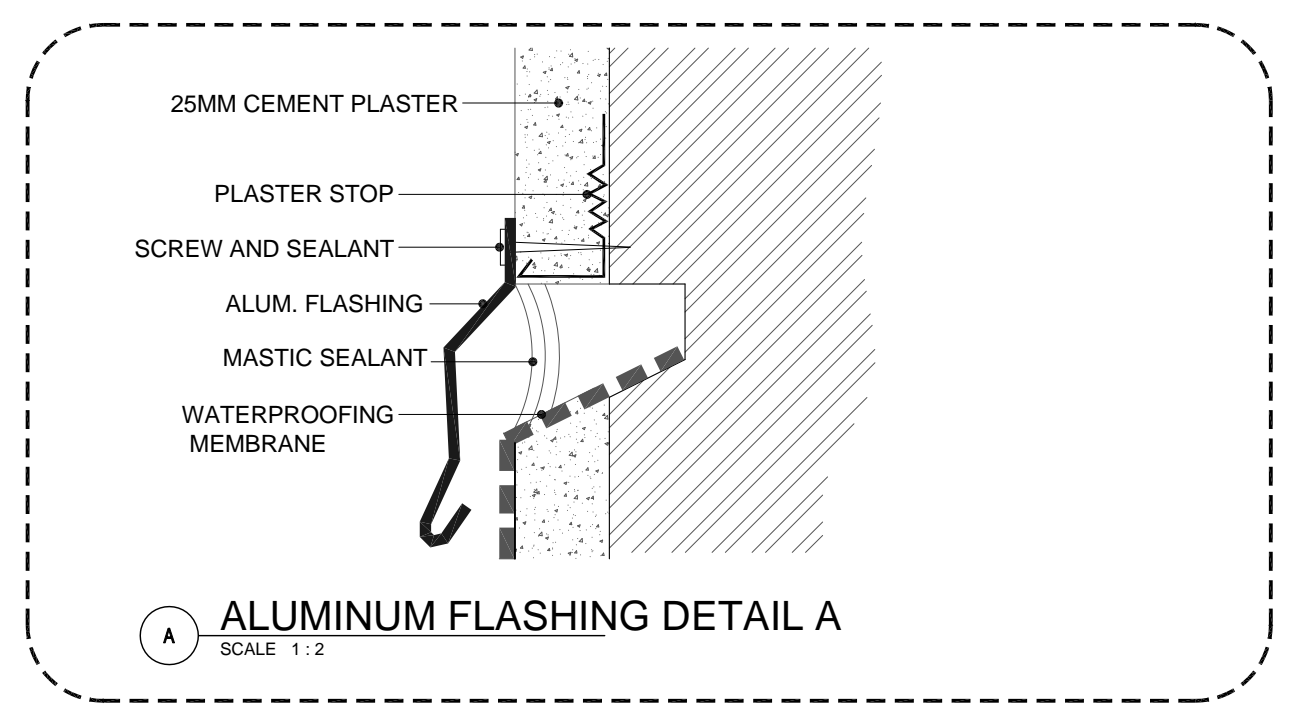


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

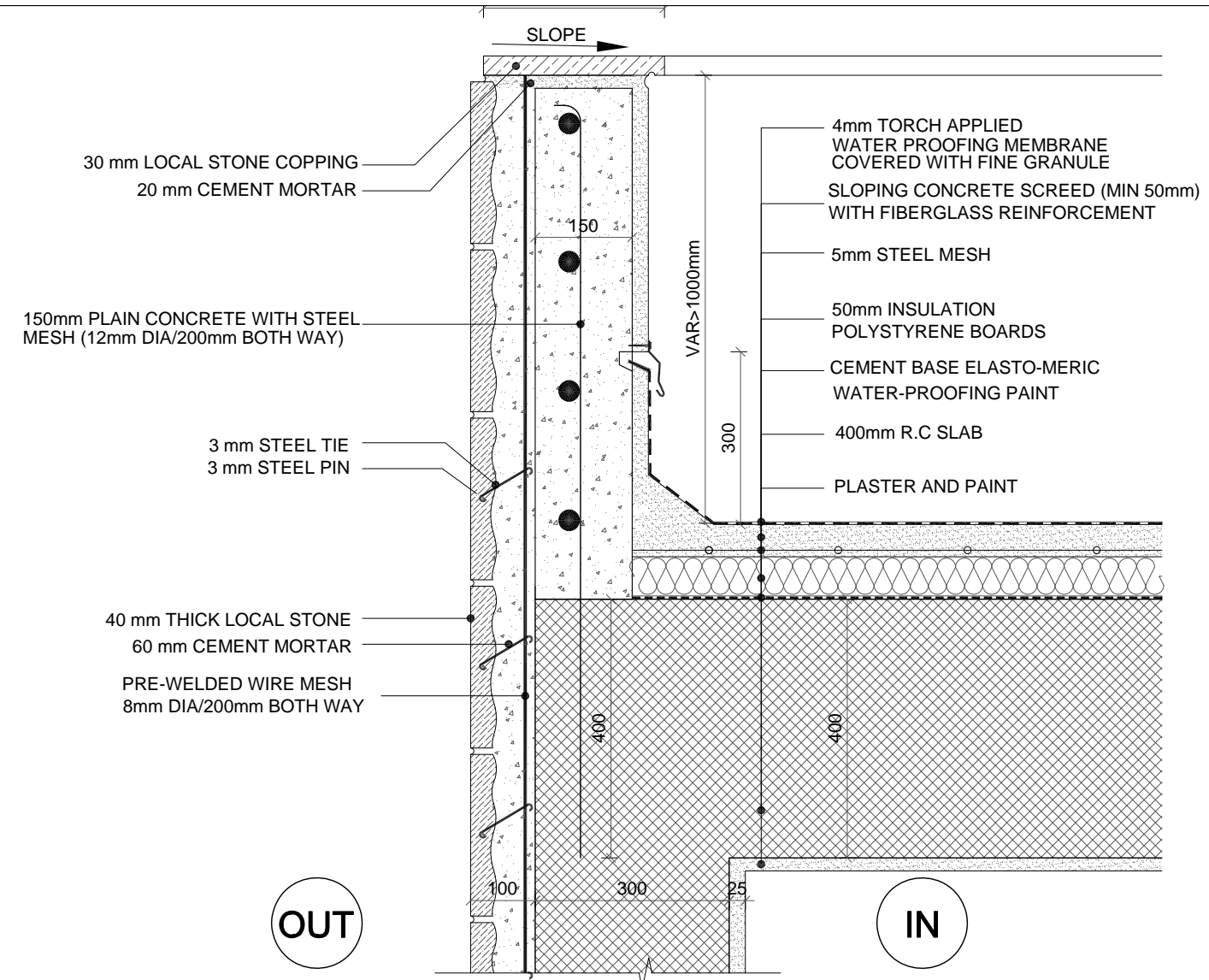
DRAWING NAME: EXTERNAL WALLS BETWEEN FLOORS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: VWS-03
		Date: June 2020	SCALE : 1:10	



D1 PARAPET DETAIL WITHOUT STONE CLADDING
SCALE 1 : 10



A ALUMINUM FLASHING DETAIL A
SCALE 1 : 2



D2 PARAPET DETAIL WITH STONE CLADDING
SCALE 1 : 10

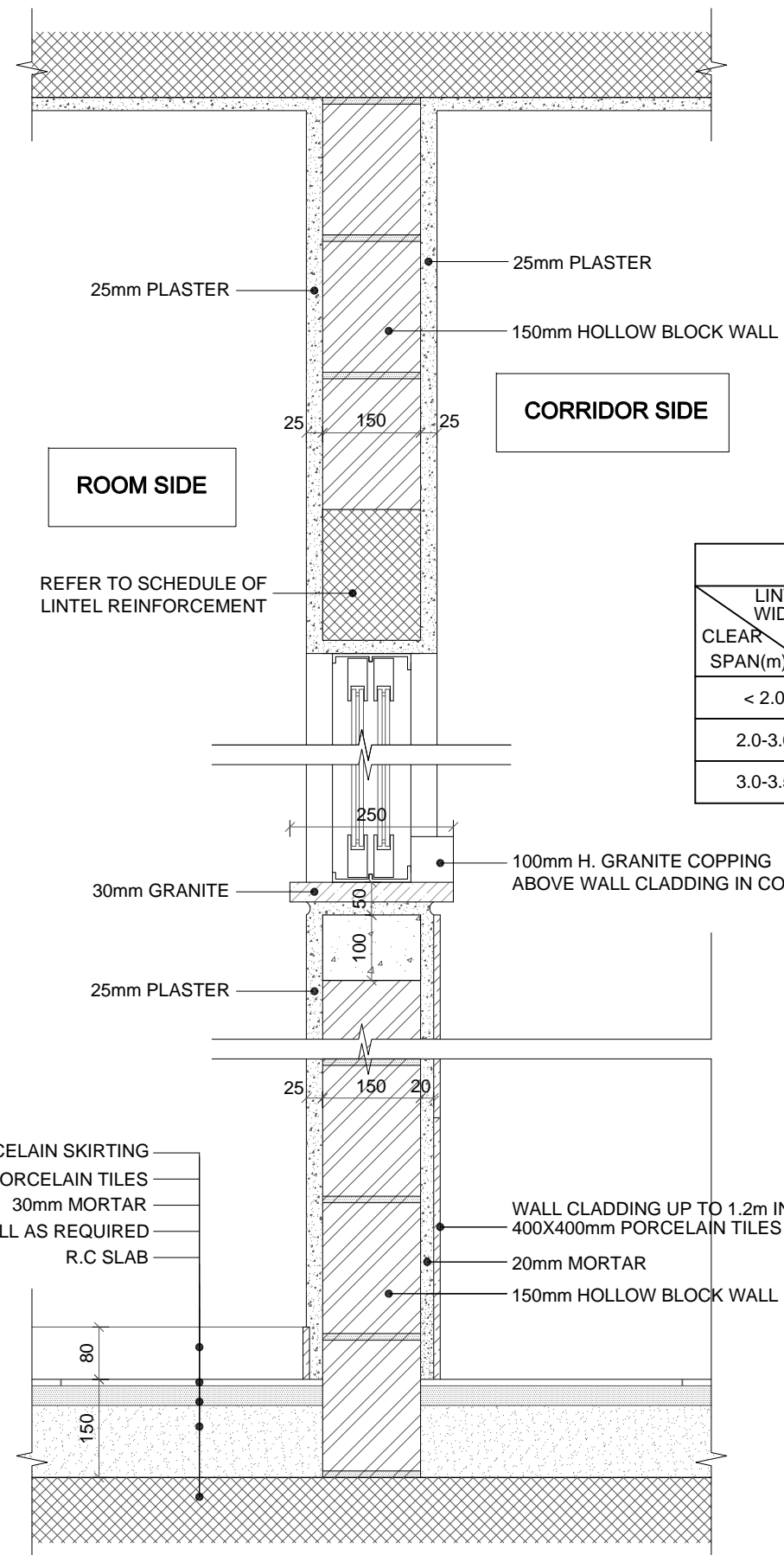
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

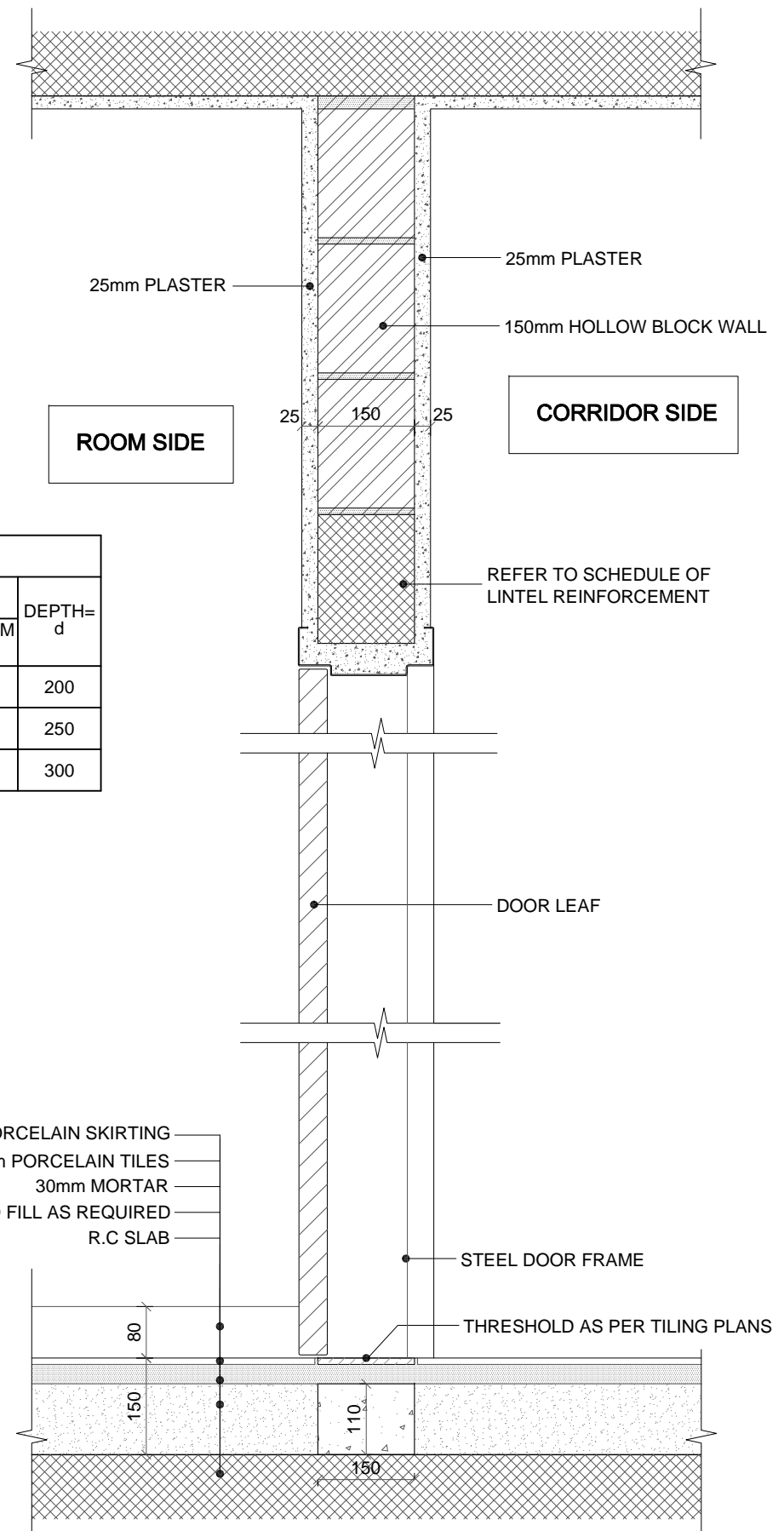
DRAWING NAME:
TYPICAL PARAPET DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: VWS-04
Date: June 2020	SCALE: AS SHOWN	



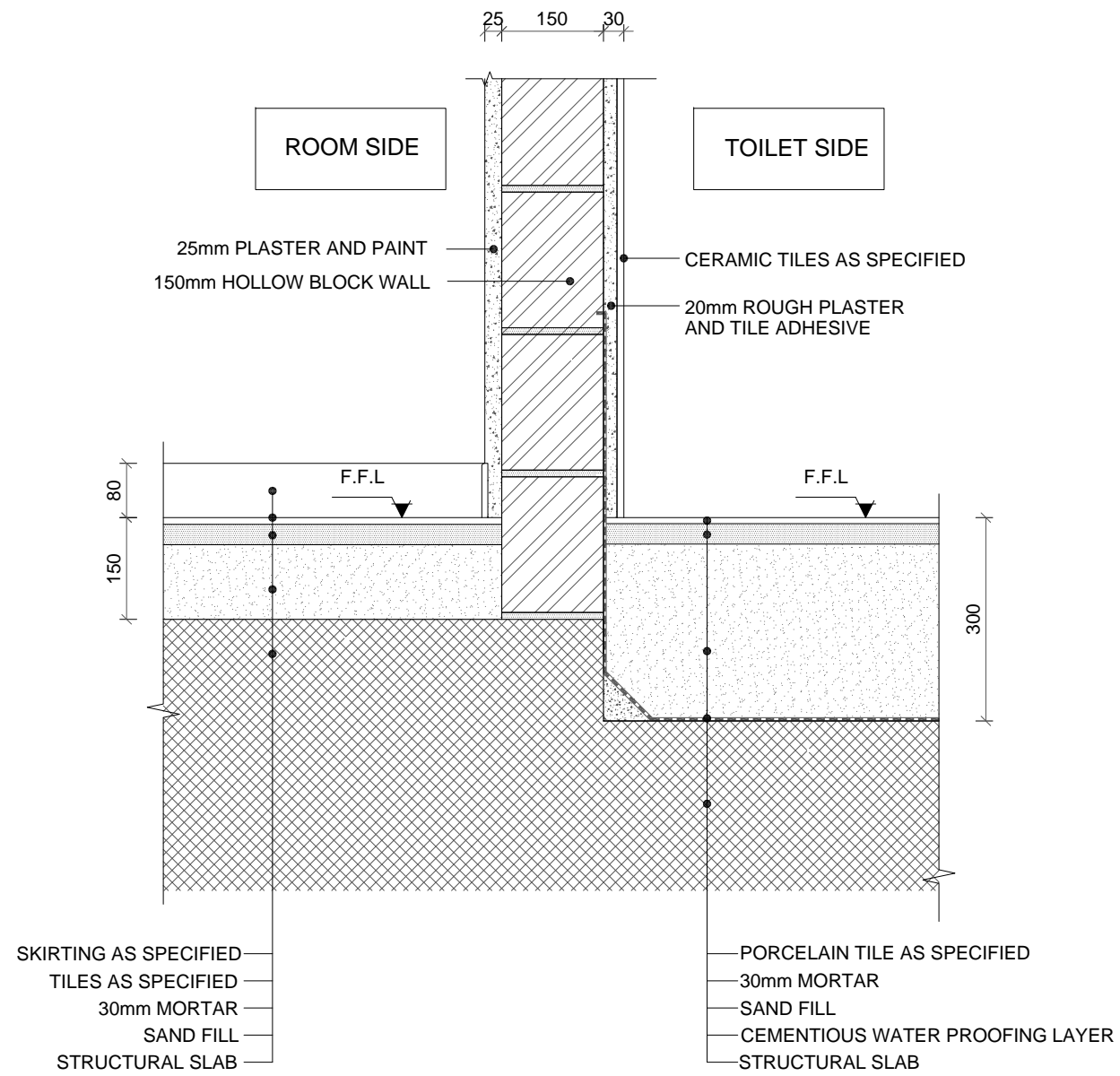
SCHEDULE OF LINTELS REINFORCEMENT

LINTEL WIDTH CLEAR SPAN(m)	b=100mm.		b=150mm.		b=200mm		b=300mm		DEPTH= d
	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	
< 2.0	1Y10	1Y12	2Y10	2Y12	2Y10	2Y12	3Y10	3Y12	200
2.0-3.0	1Y10	1Y16	2Y10	2Y16	2Y10	2Y16	3Y10	3Y16	250
3.0-3.5	1Y10	1Y20	2Y10	2Y20	2Y10	2Y20	3Y12	3Y20	300

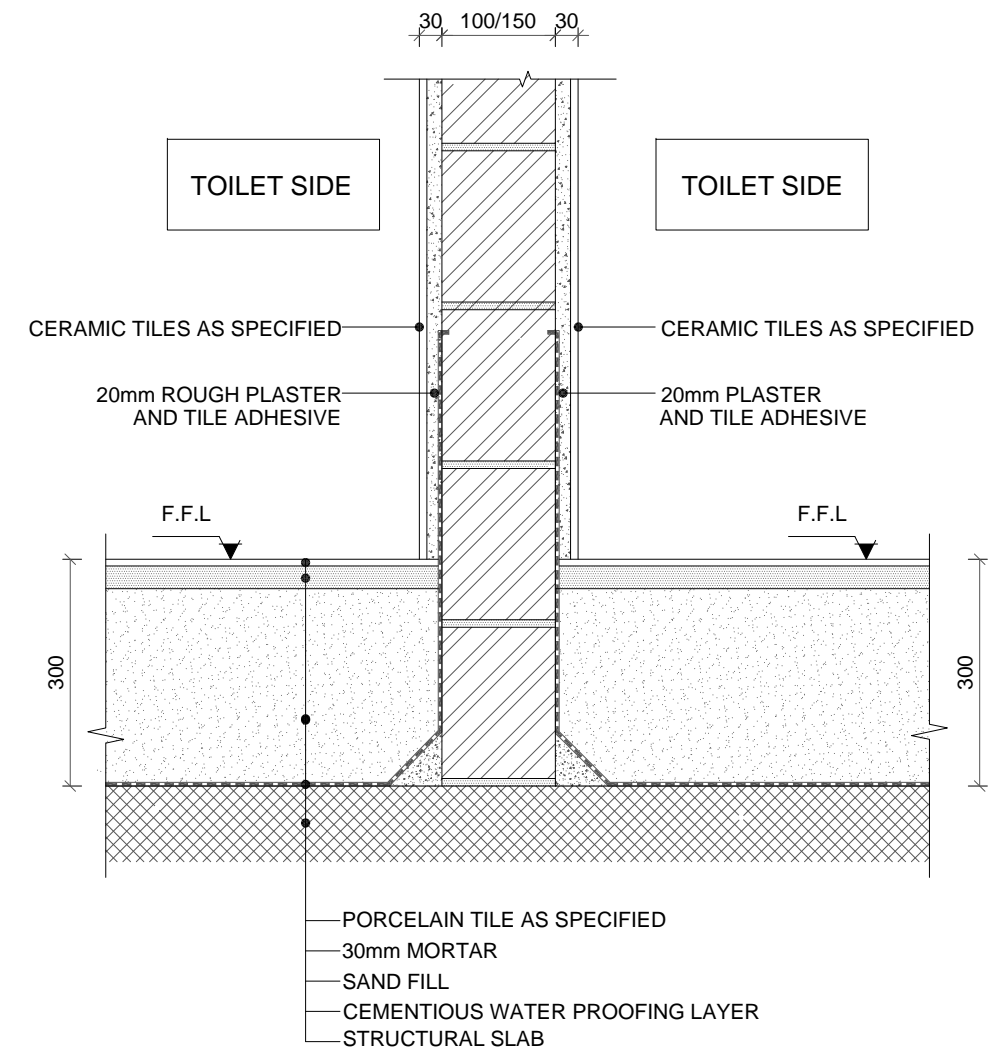


D1 INTERNAL HOLLOW BLOCK WALL- WINDOW OPENING
SCALE 1:10

D2 INTERNAL HOLLOW BLOCK WALL- DOOR OPENING
SCALE 1:10



D1 BLOCK WALL BETWEEN ROOM AND TOILET
SCALE 1 : 10



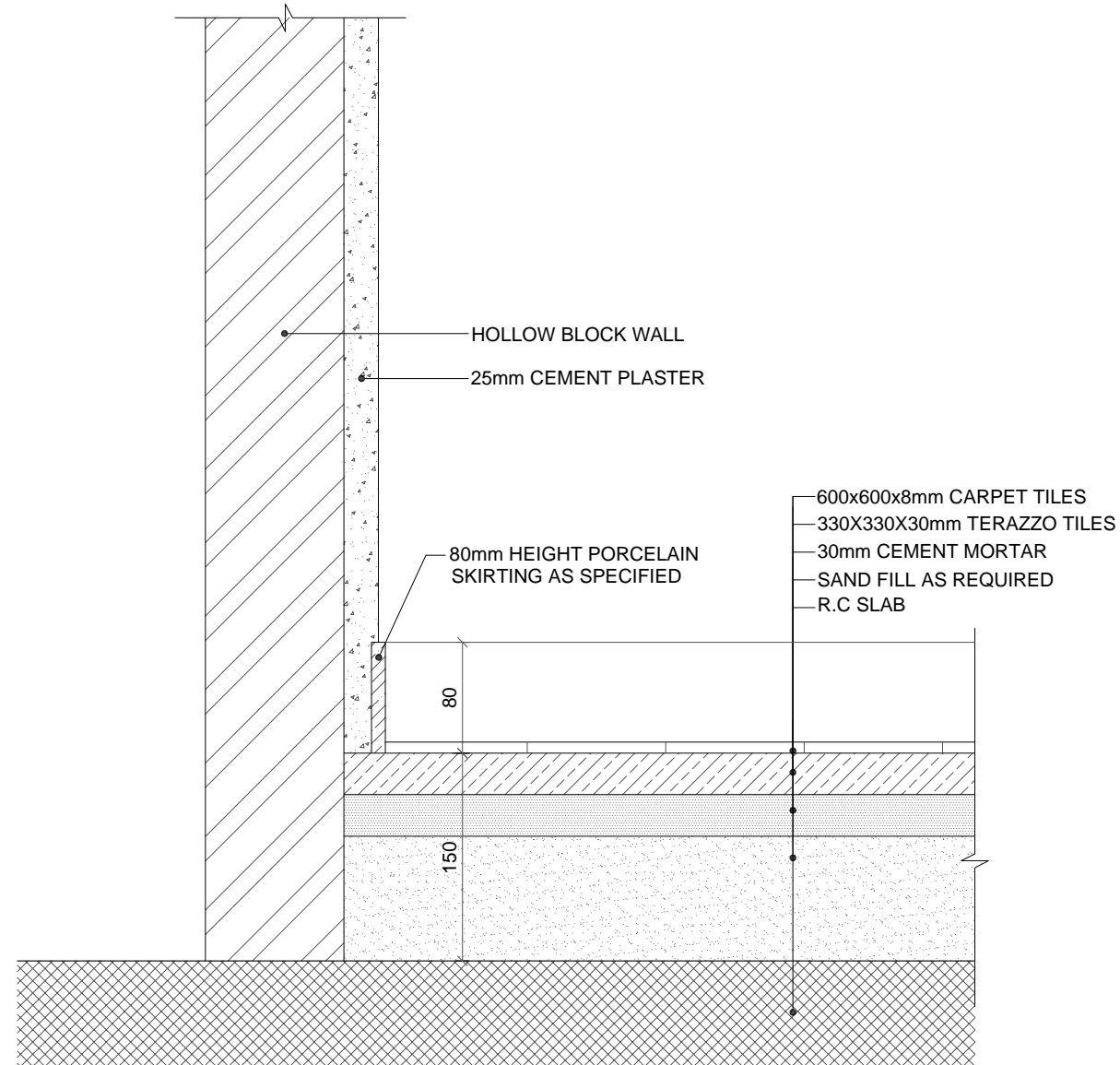
D2 BLOCK WALL BETWEEN TOILETS
SCALE 1 : 10

REV.	DATE	REMARKS

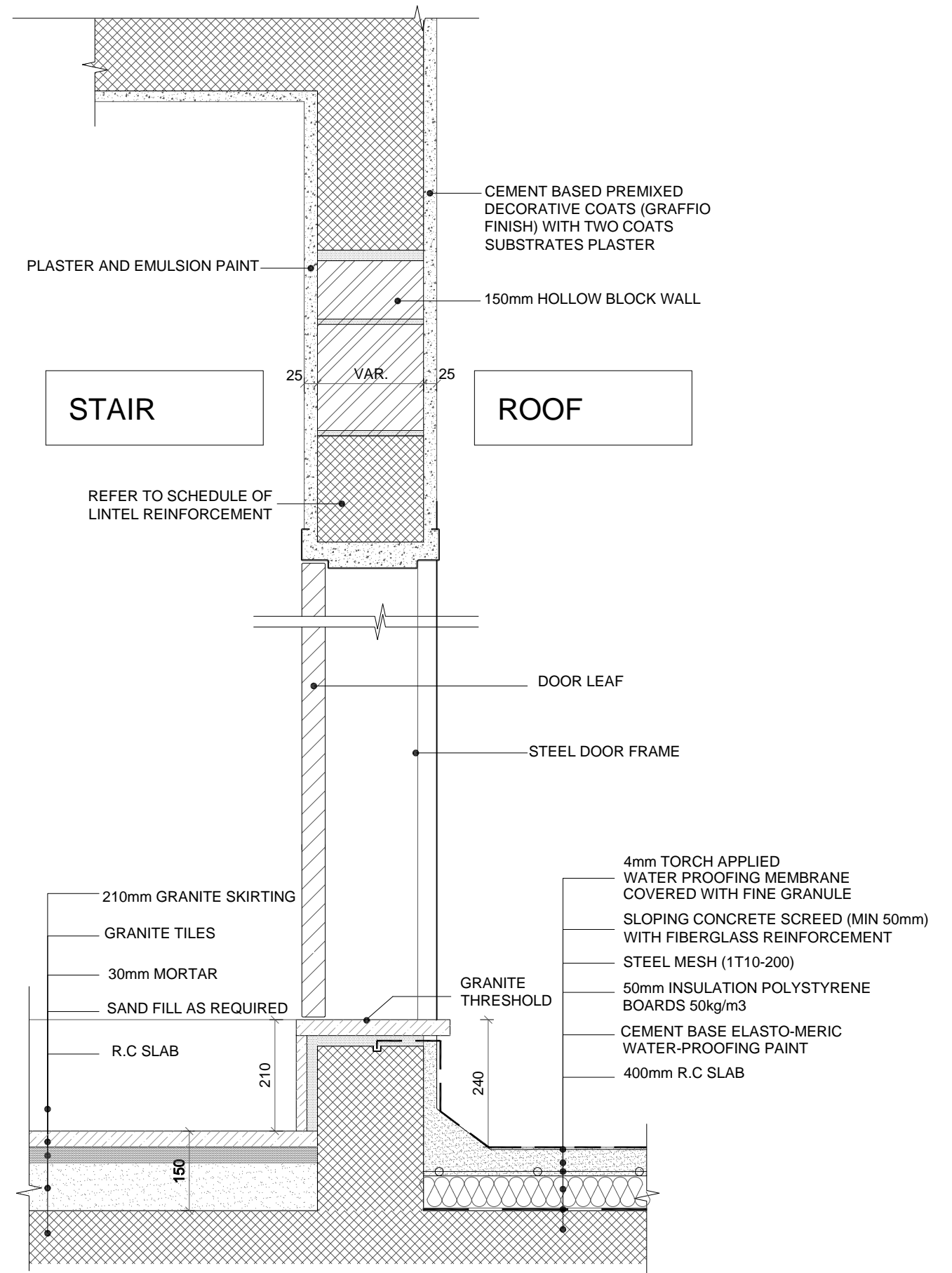


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	DRAWN:	REVISION No.:
INTERNAL TOILETS WALLS		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	VWS-06
		Date:	SCALE:	
		June 2020	1:10	



D1 SKIRTING AND TILING DETAIL AT THE LIBRARY
SCALE 1 : 5



D2 DOOR OPENING AT ROOF LEVEL FROM STAIRCASE
SCALE 1 : 10

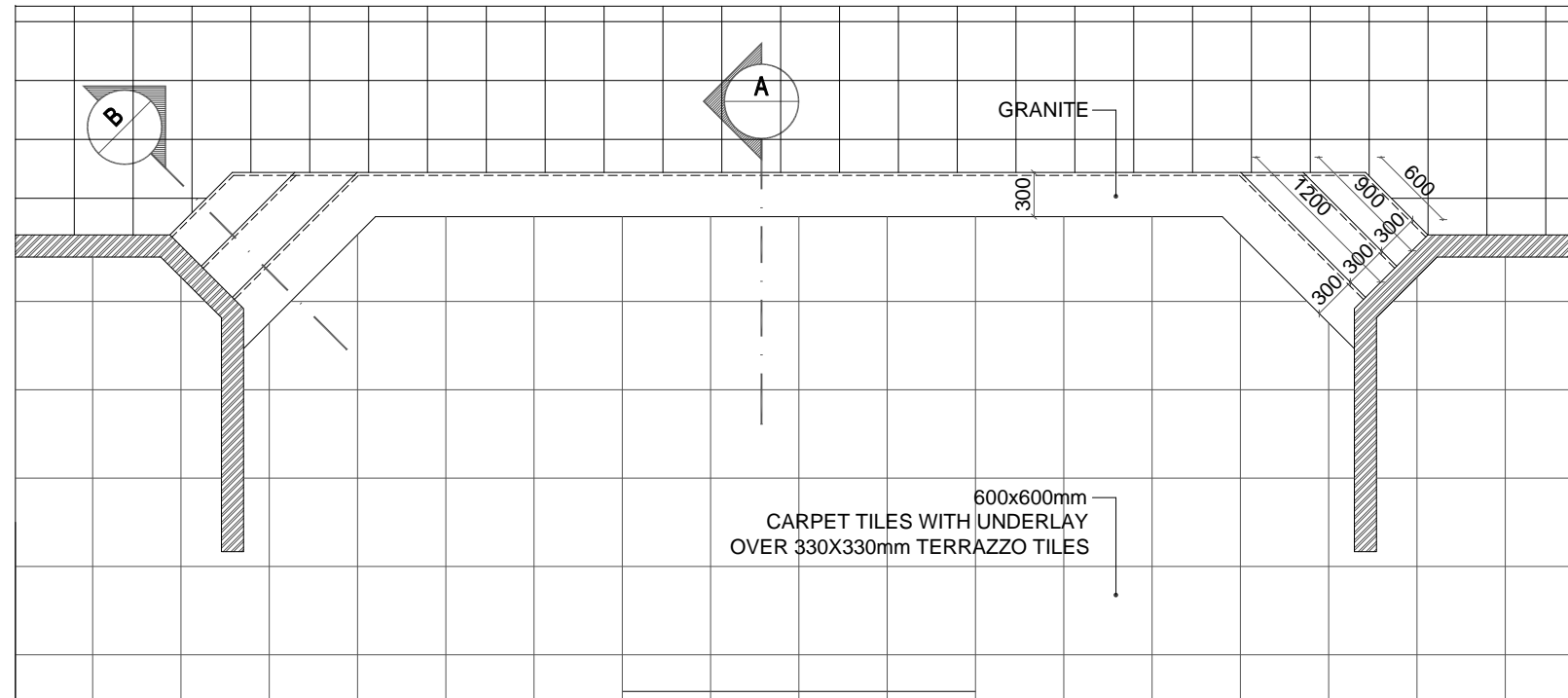
REV.	DATE	REMARKS



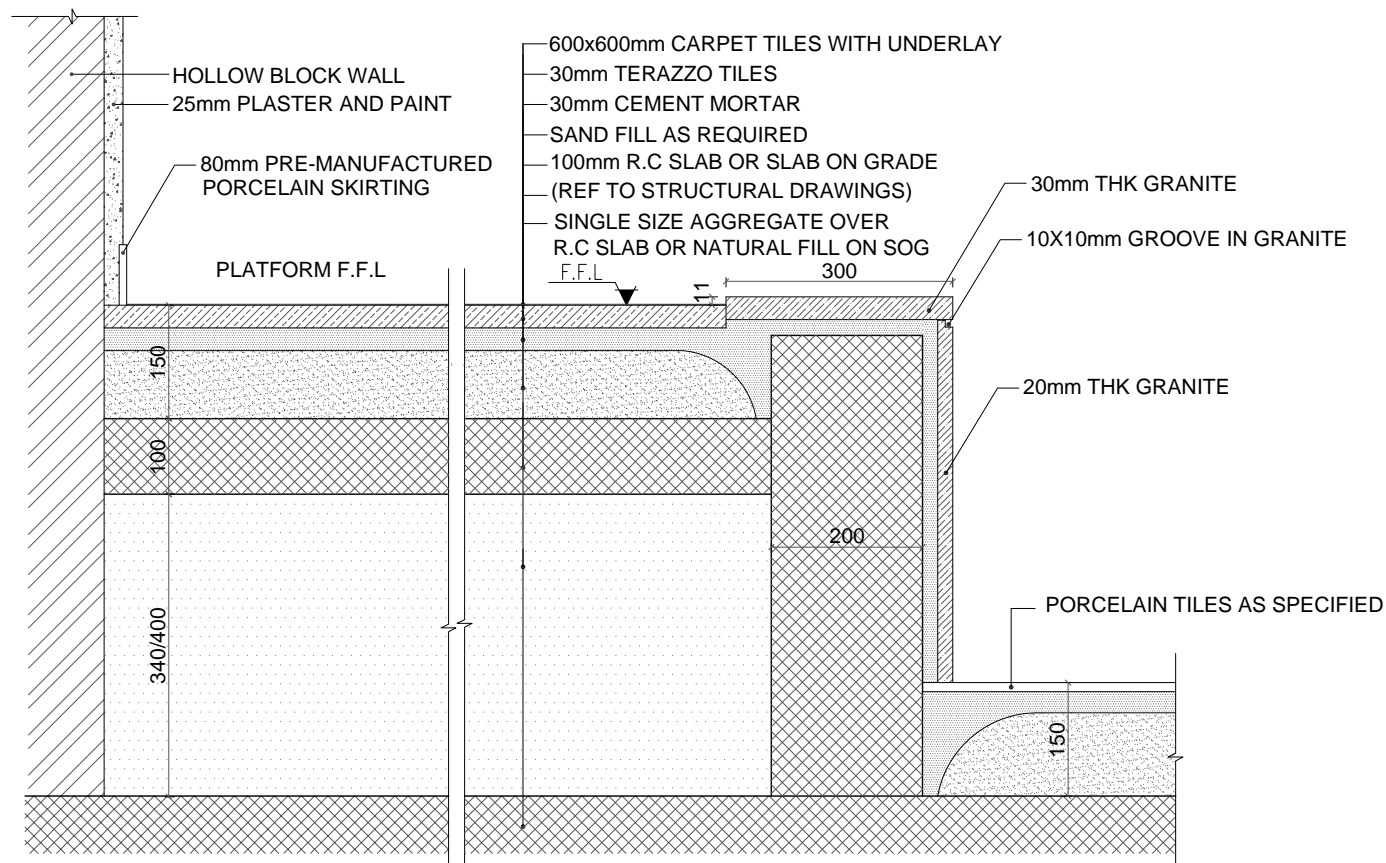
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TILING/SKIRTING AT LIBRARY &
DOOR OPENING AT ROOF LEVEL

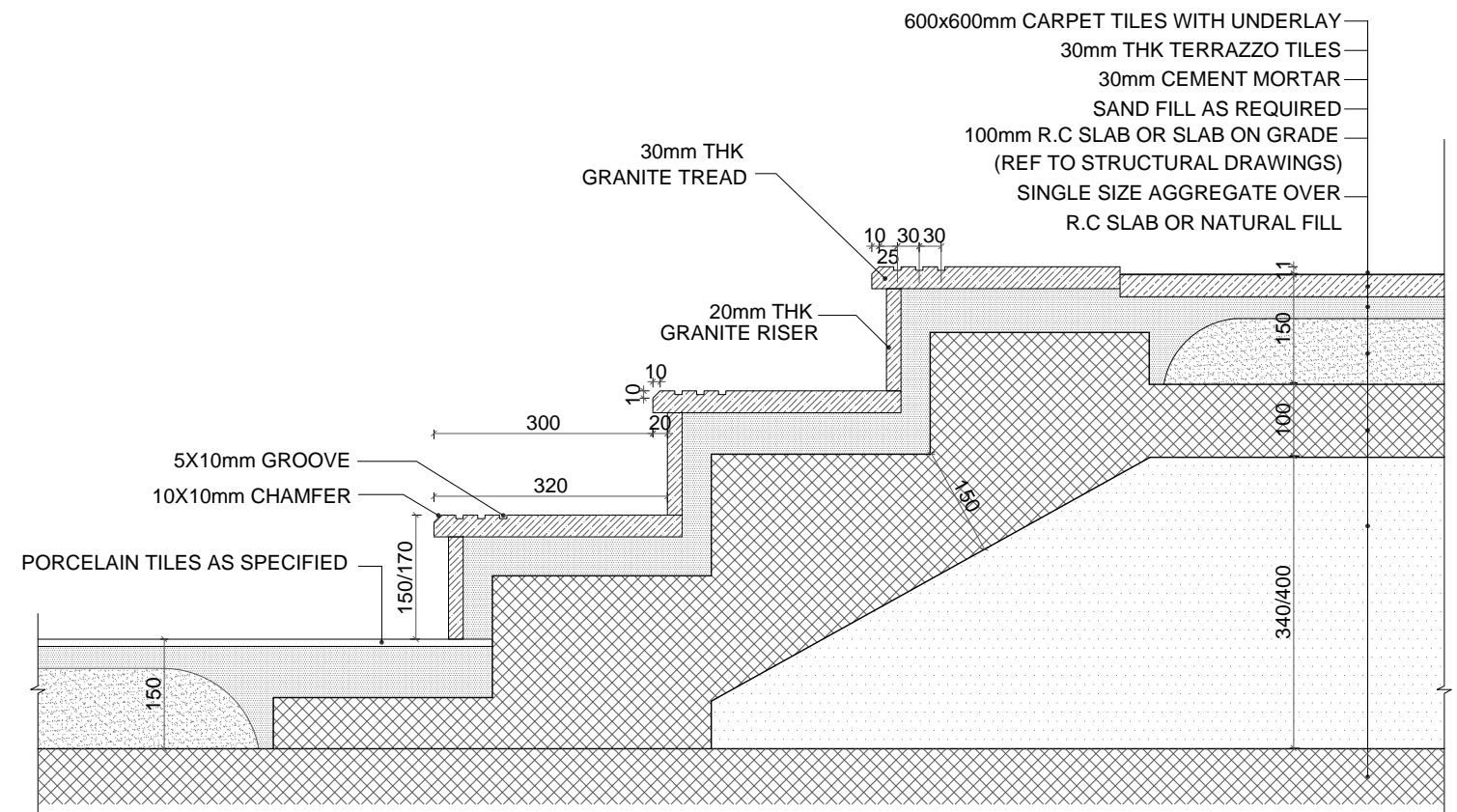
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: VWS-07
Date: June 2020	SCALE: AS SHOWN	



D1 PLATFORM PLAN AT MULTI-PURPOSE HALL
SCALE 1:50



D1-A PLATFORM DETAIL- SECTION A-A
SCALE 1:10



D1-B PLATFORM DETAIL- SECTION B-B
SCALE 1:10

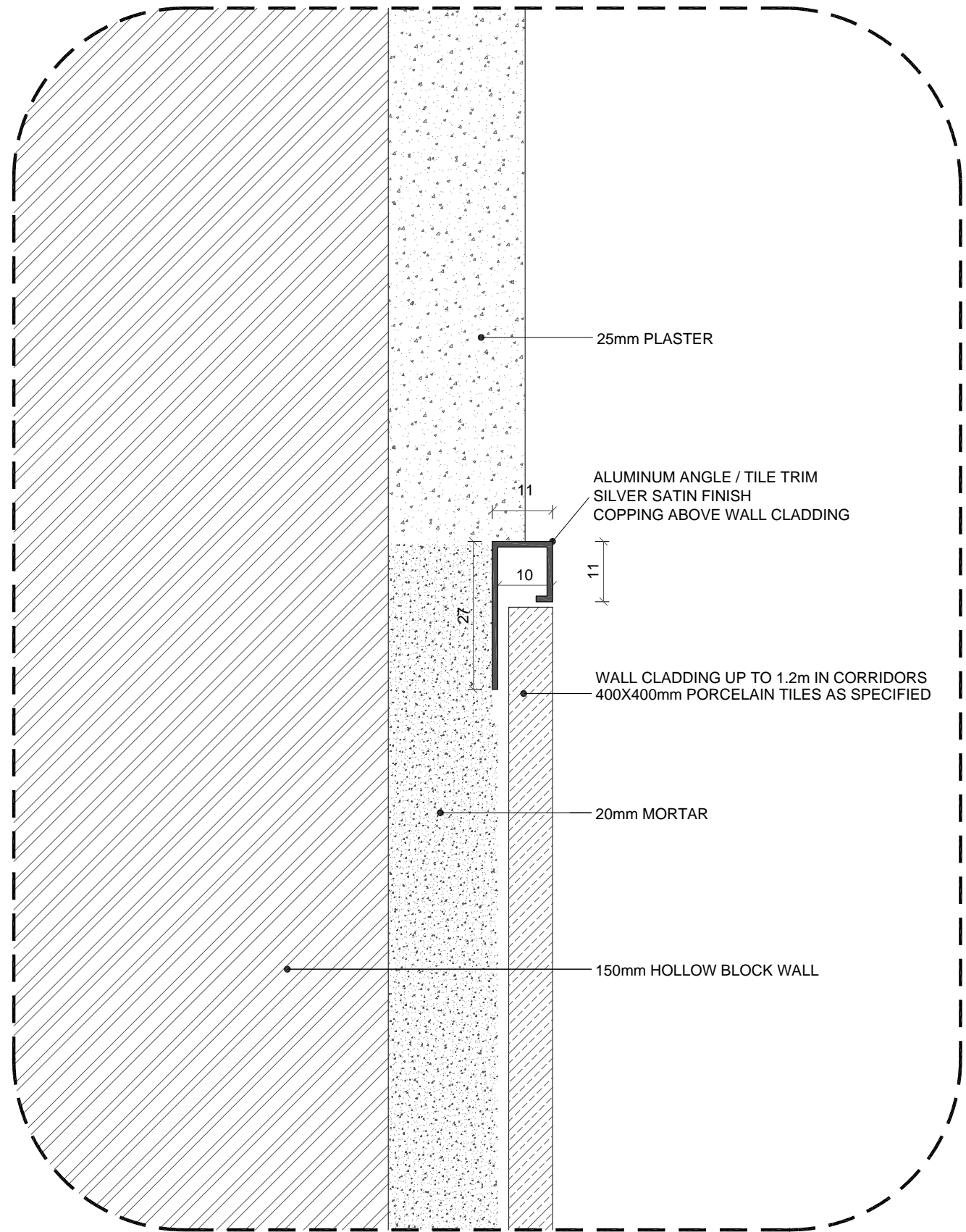
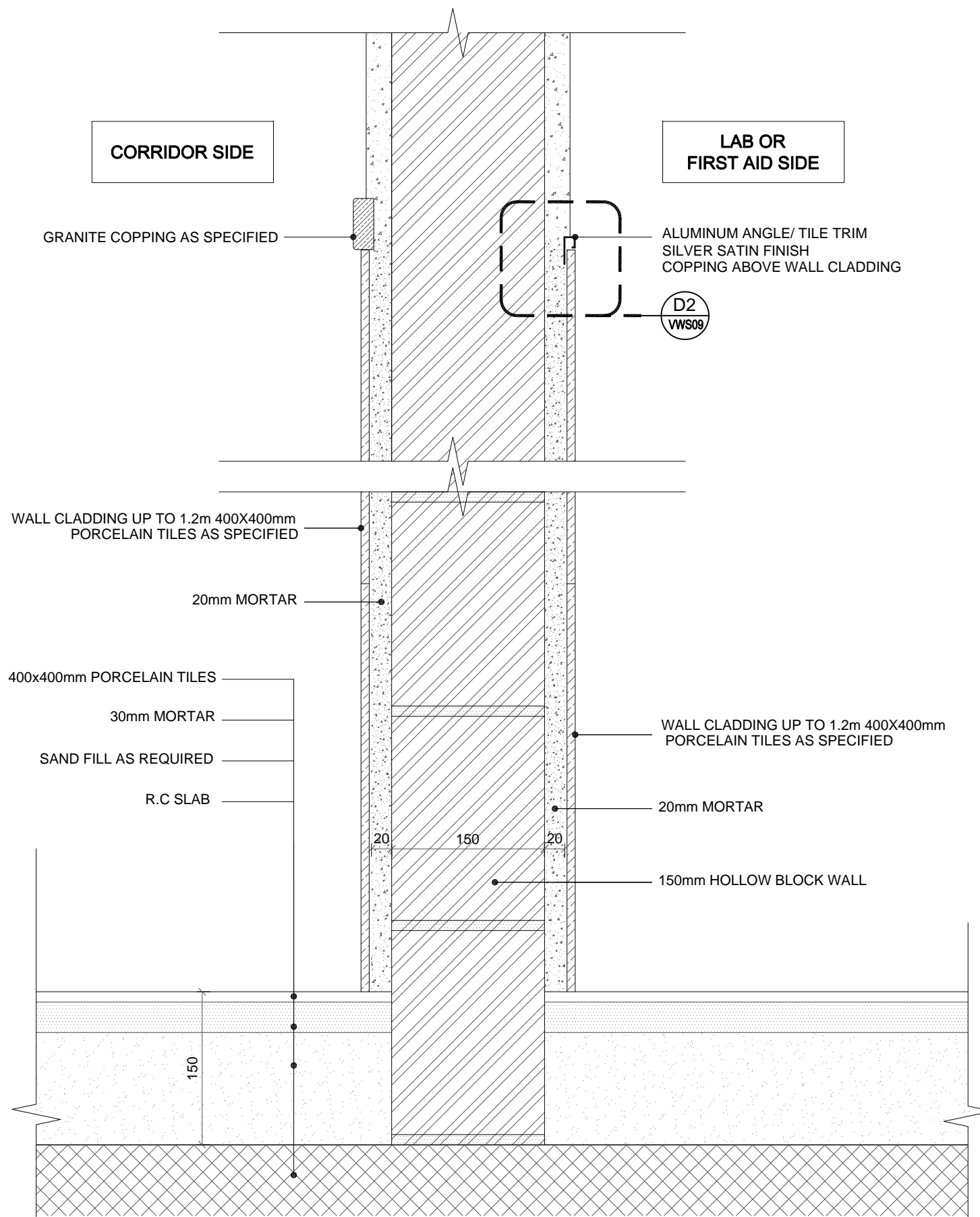
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
PLATFORM DETAILS AT
MULTI-PURPOSE HALL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: VWS-08
Date: June 2020	SCALE: AS SHOWN	



D1 INTERNAL WALL- WALL CLADDING
SCALE 1:5

D2 INTERNAL WALL - LABS AND FIRST AID COPPING DETAIL
SCALE 1:1

REV.	DATE	REMARKS

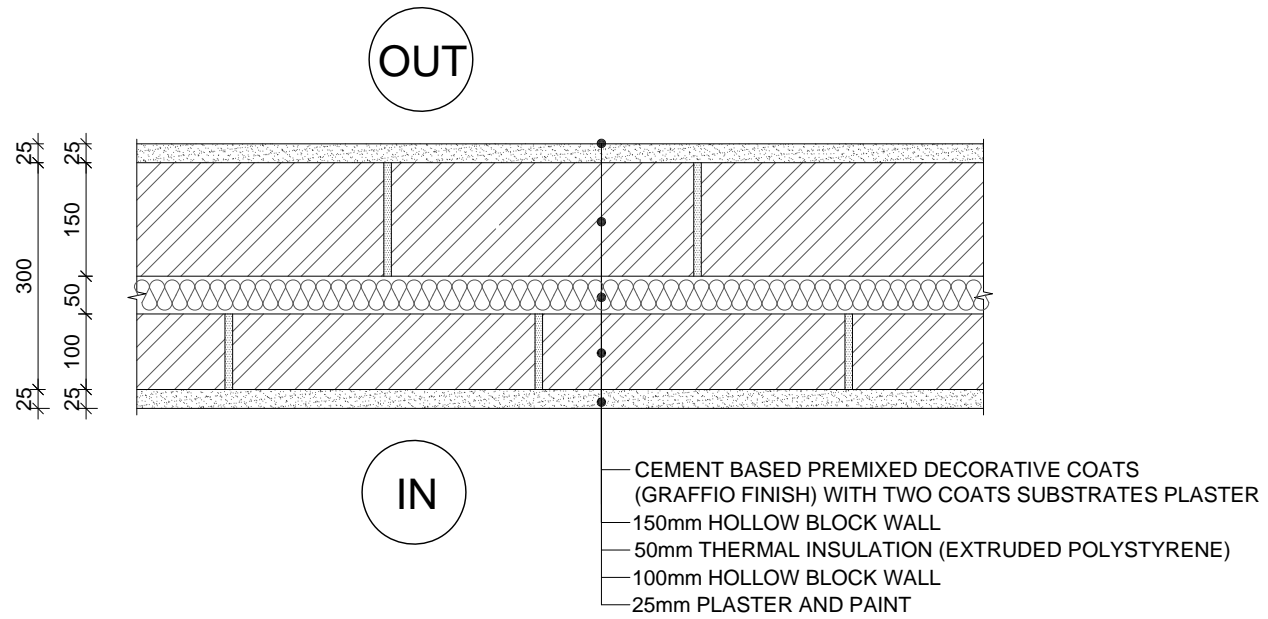


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

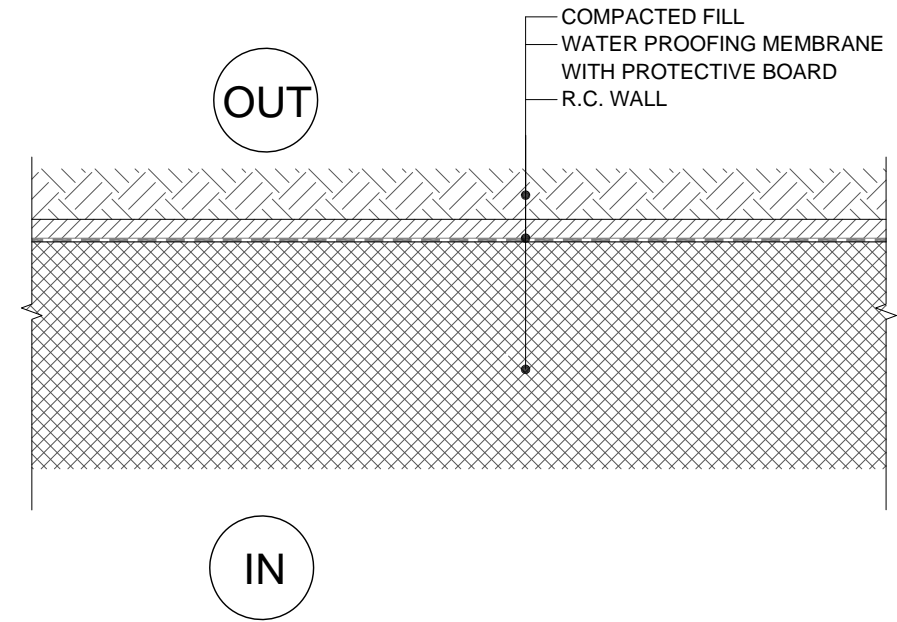
DRAWING NAME:
INTERNAL WALLS
CLADDING

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: VWS-09
Date: June 2020	SCALE : AS SHOWN	

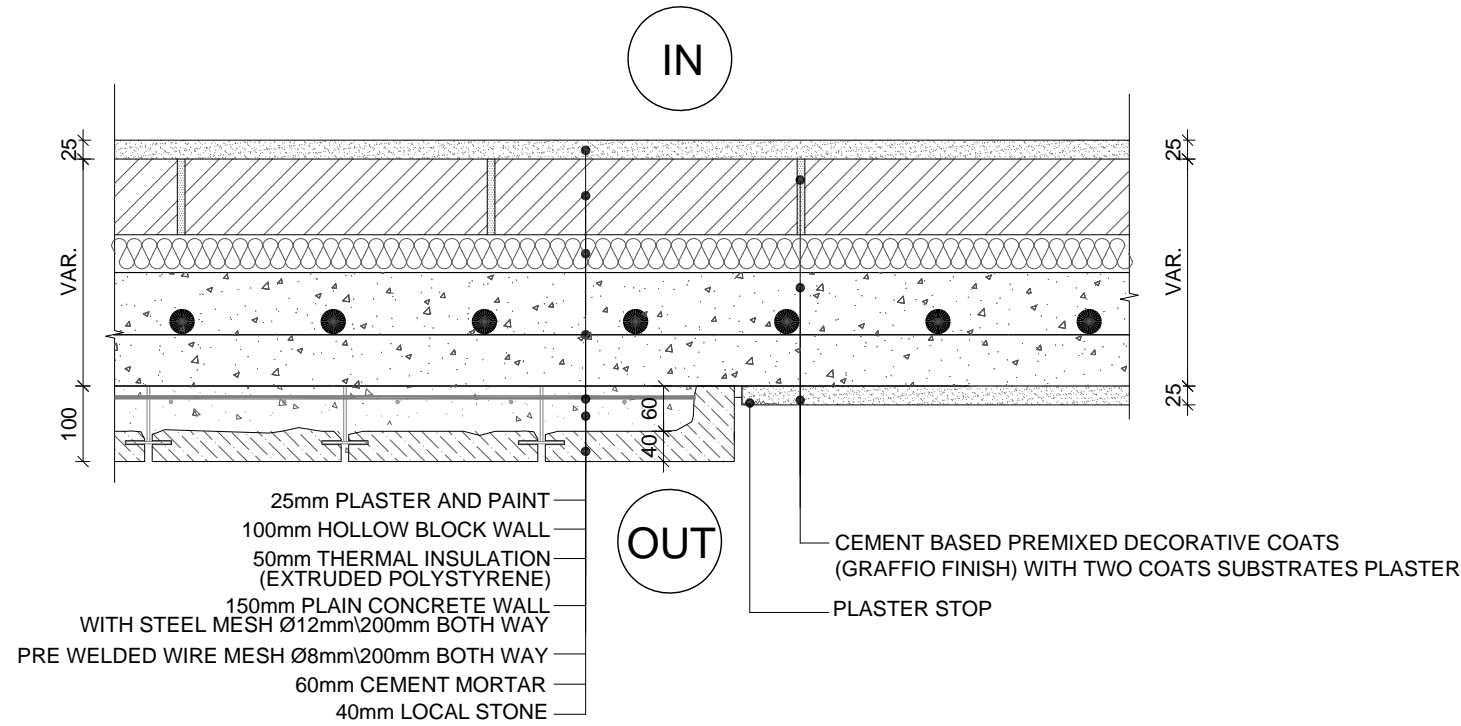
BUILDING DETAILS
HORIZONTAL WALL SECTIONS



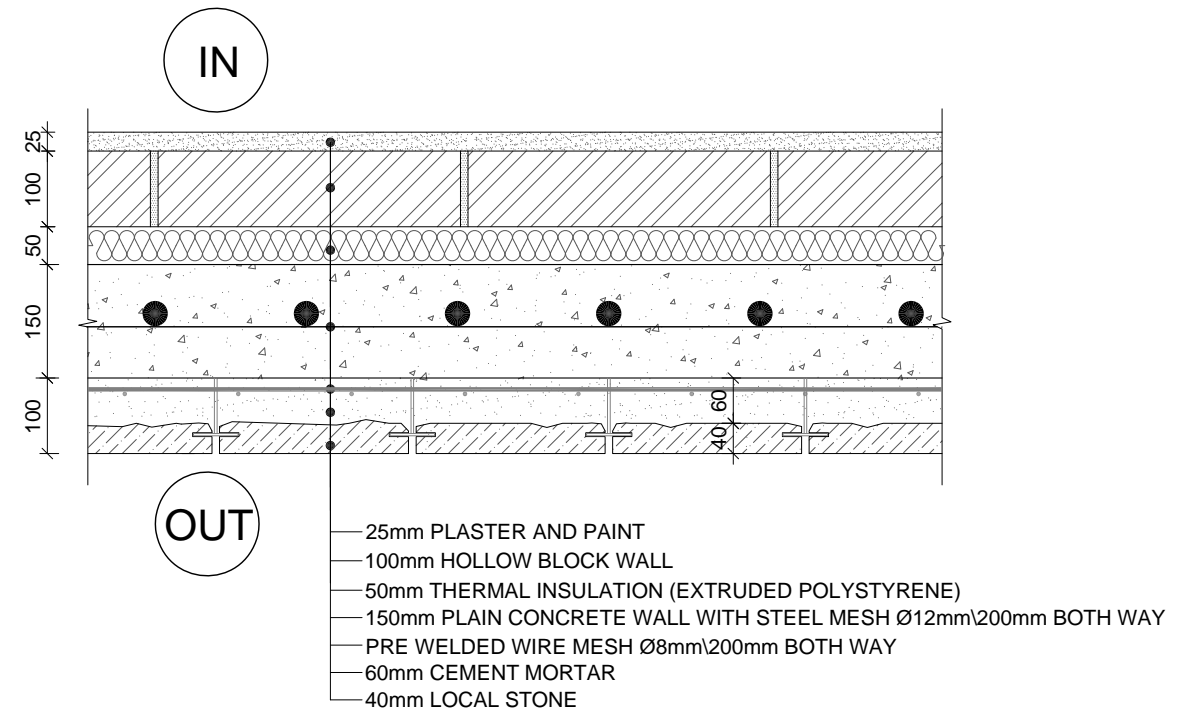
D1 EXTERNAL DOUBLE HOLLOW BLOCK WALL DETAIL
SCALE 1 : 10



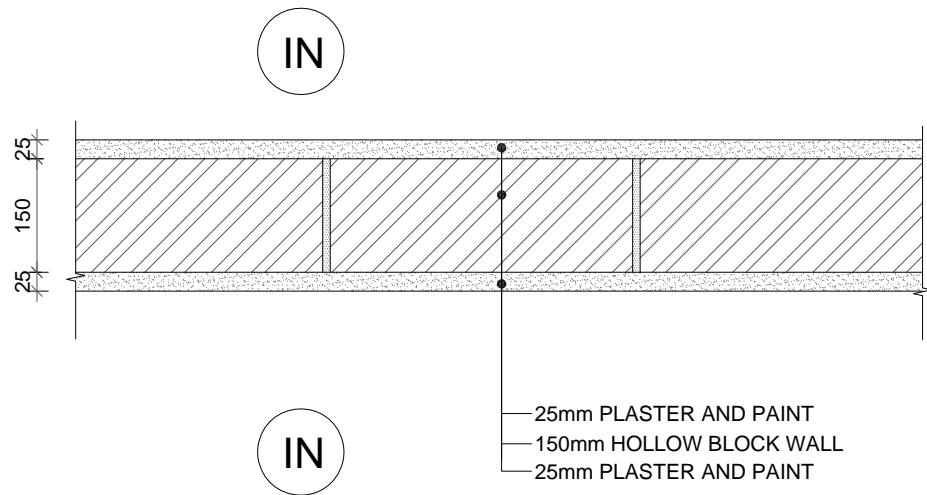
D2 R.C. WALL INSULATION DETAIL AT BASEMENT FLOOR
SCALE 1 : 10



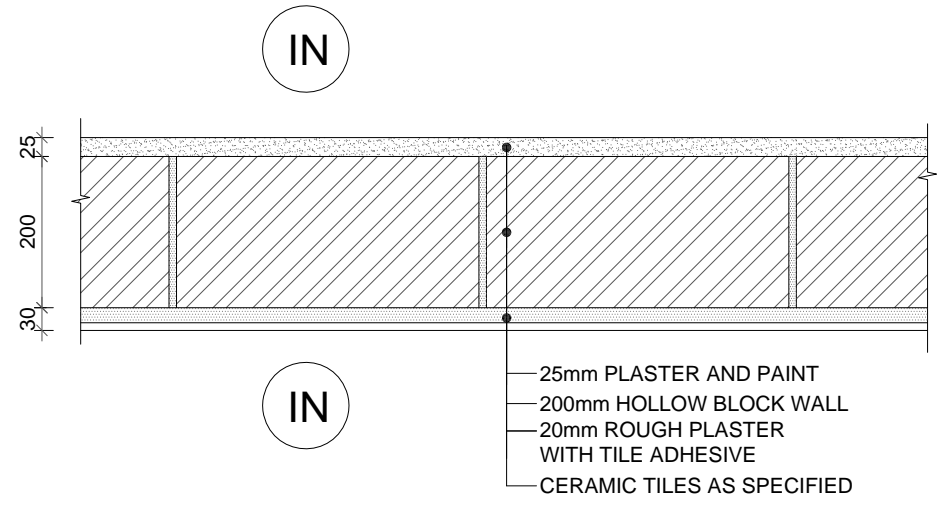
D3 EXTERNAL WALL WITH MECHANICAL WET STONE CLADDING
SCALE 1 : 10



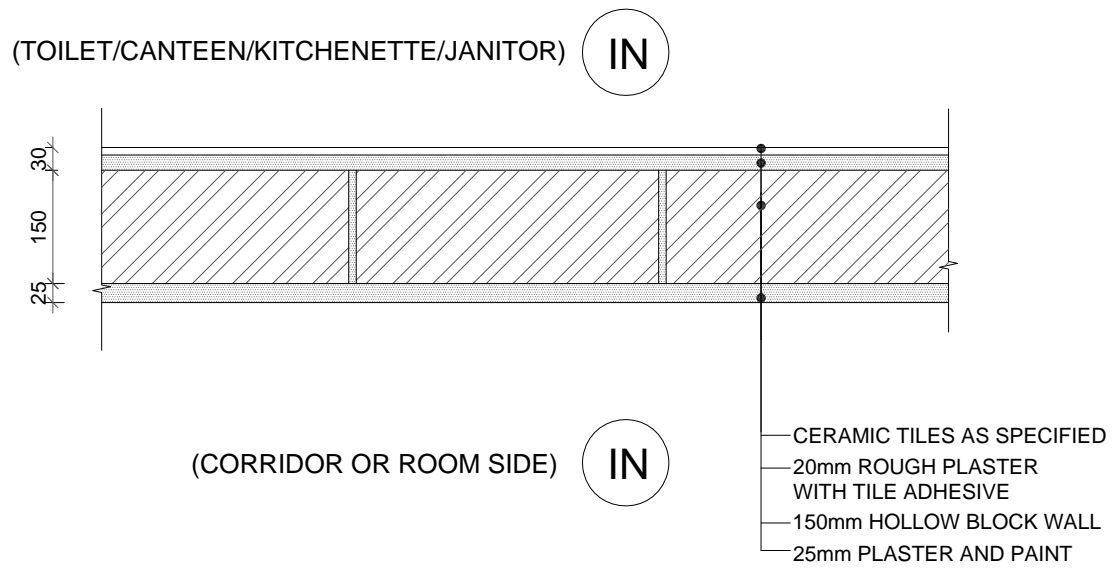
D4 EXTERNAL WALL WITH MECHANICAL WET STONE CLADDING
SCALE 1 : 10



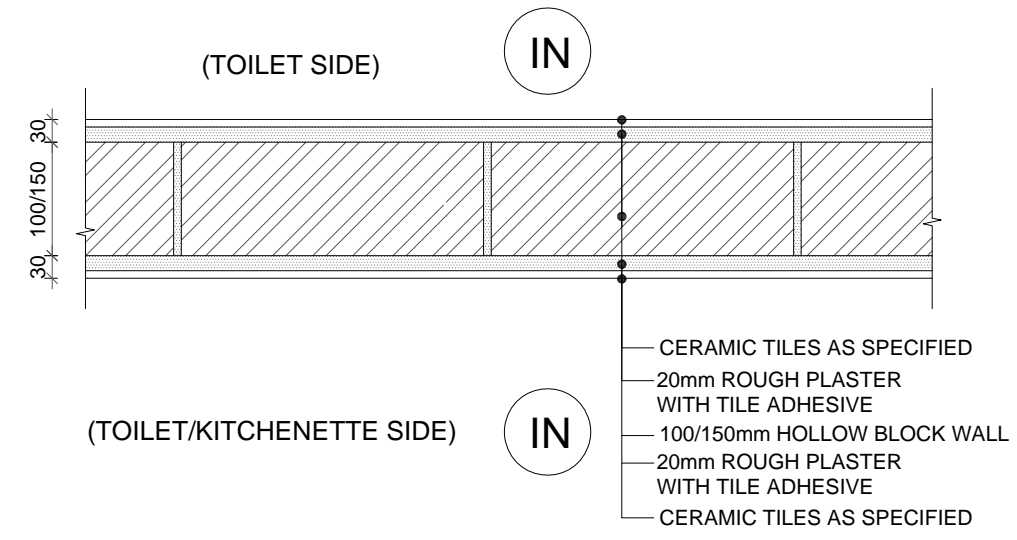
D1 INTERNAL HOLLOW BLOCK WALL DETAIL
SCALE 1 : 10



D2 INTERNAL HOLLOW BLOCK WALL AT BOILER, PUMPS AND DIESEL ROOMS
SCALE 1 : 10



D3 INTERNAL HOLLOW BLOCK WALL WITH CERAMIC CLADDING
SCALE 1 : 10



D4 BLOCK WALL WITH CERAMIC CLADDING FROM BOTH SIDES
SCALE 1 : 10

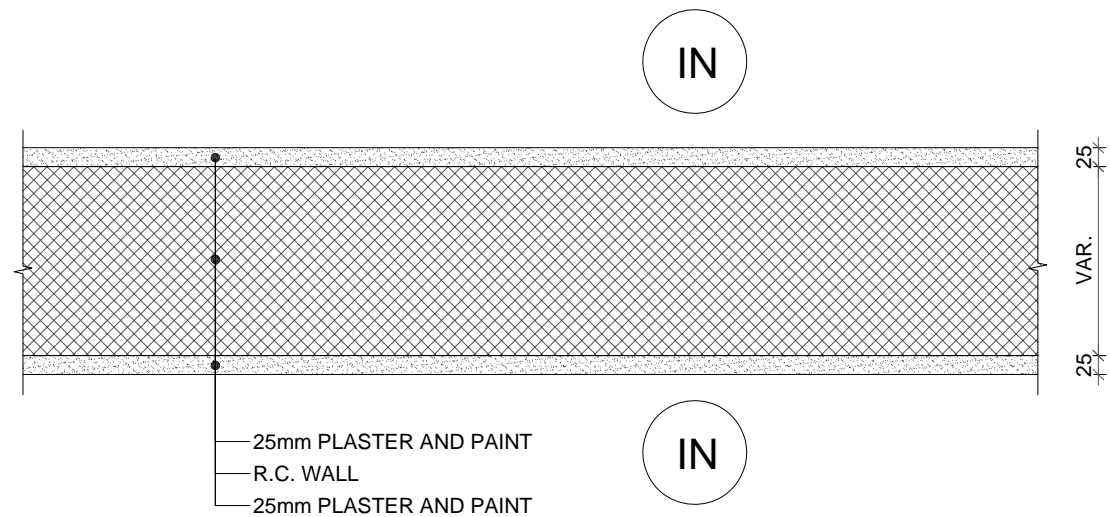
REV.	DATE	REMARKS



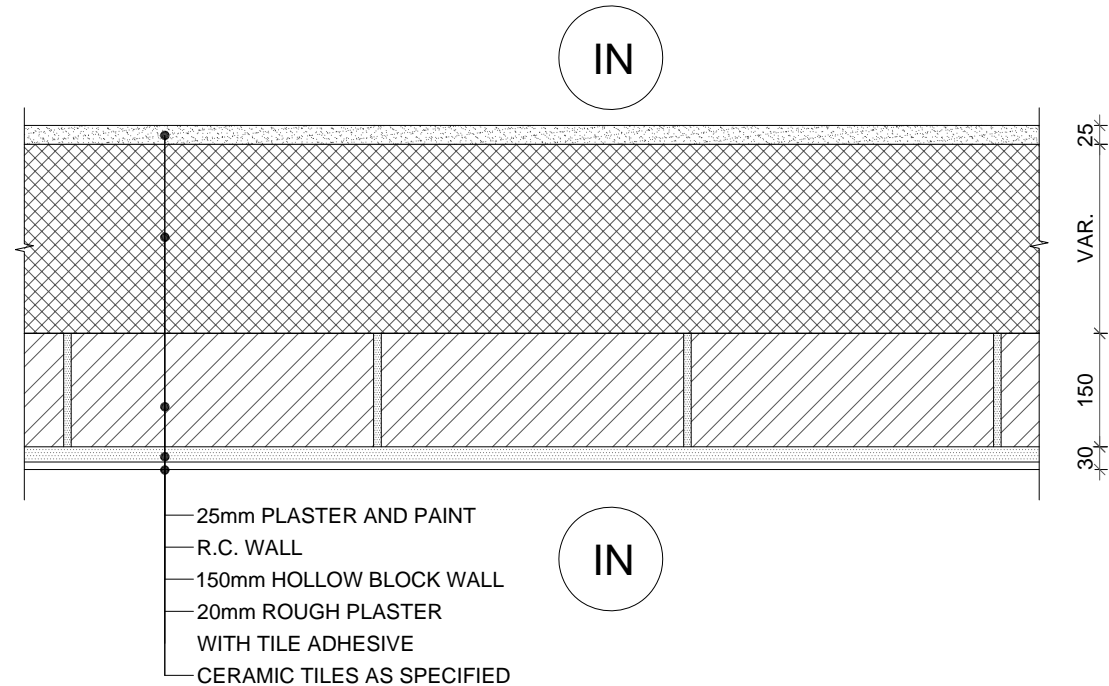
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
INTERNAL WALLS

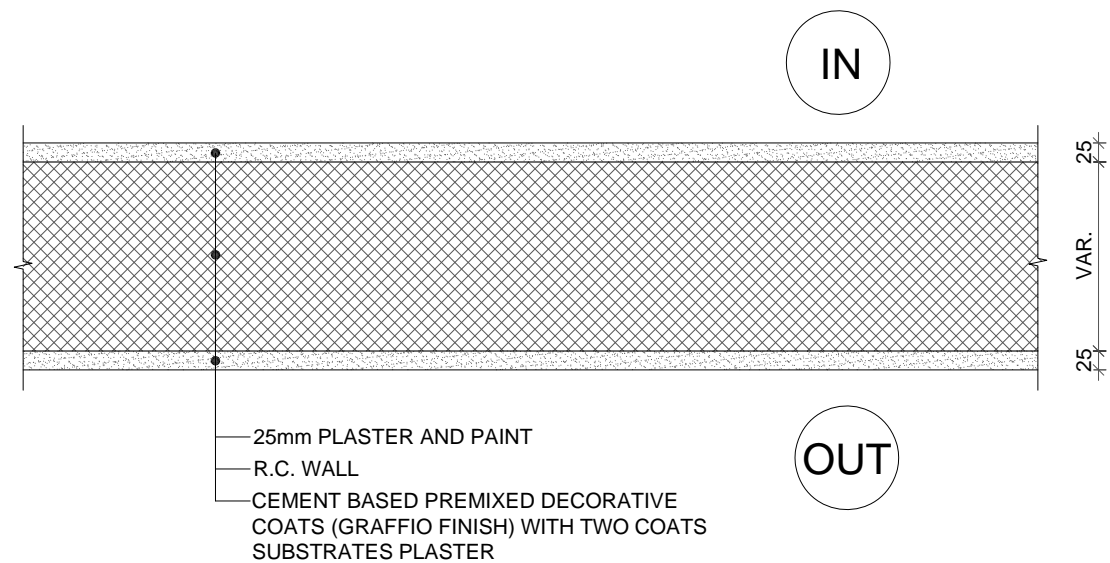
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: HWS-02
Date: June 2020	SCALE: 1:10	



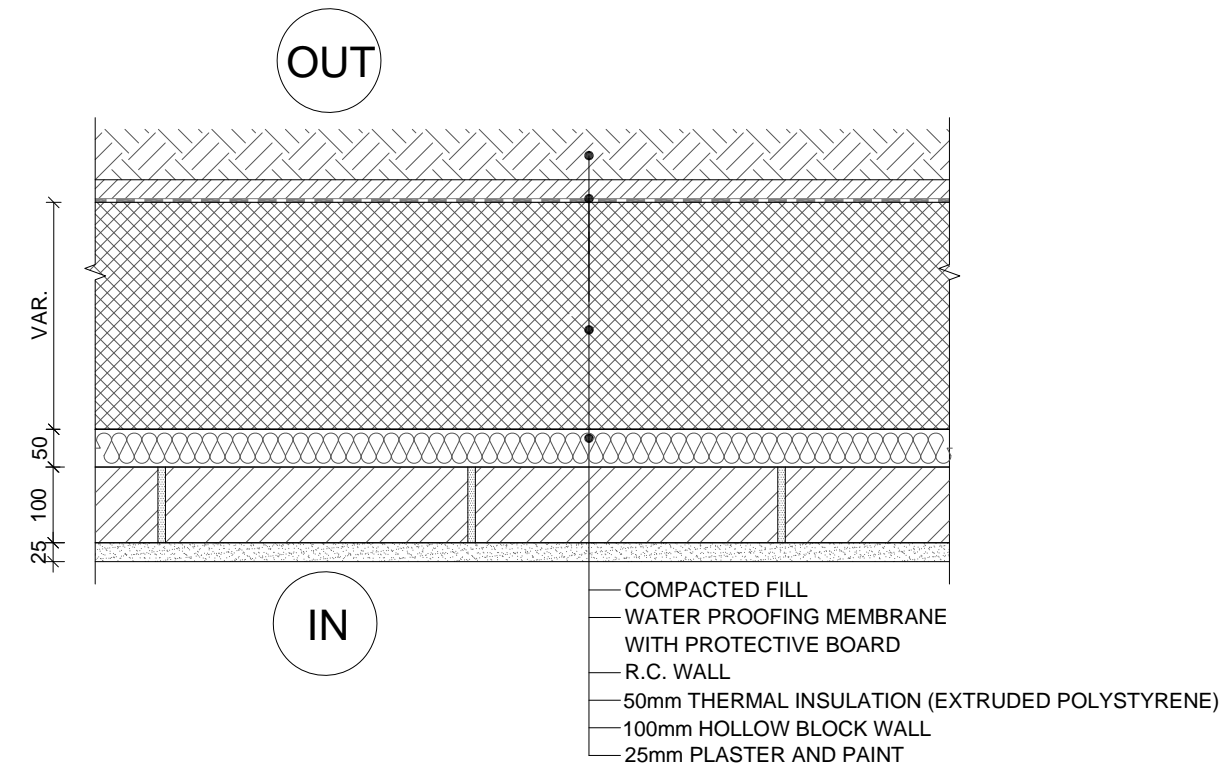
D1 INTERNAL R.C. WALL DETAIL
SCALE 1:10



D2 INTERNAL R.C. AND BLOCK WALL WITH CERAMIC CLADDING
SCALE 1:10



D3 EXTERNAL R.C. WALL DETAIL
SCALE 1:10



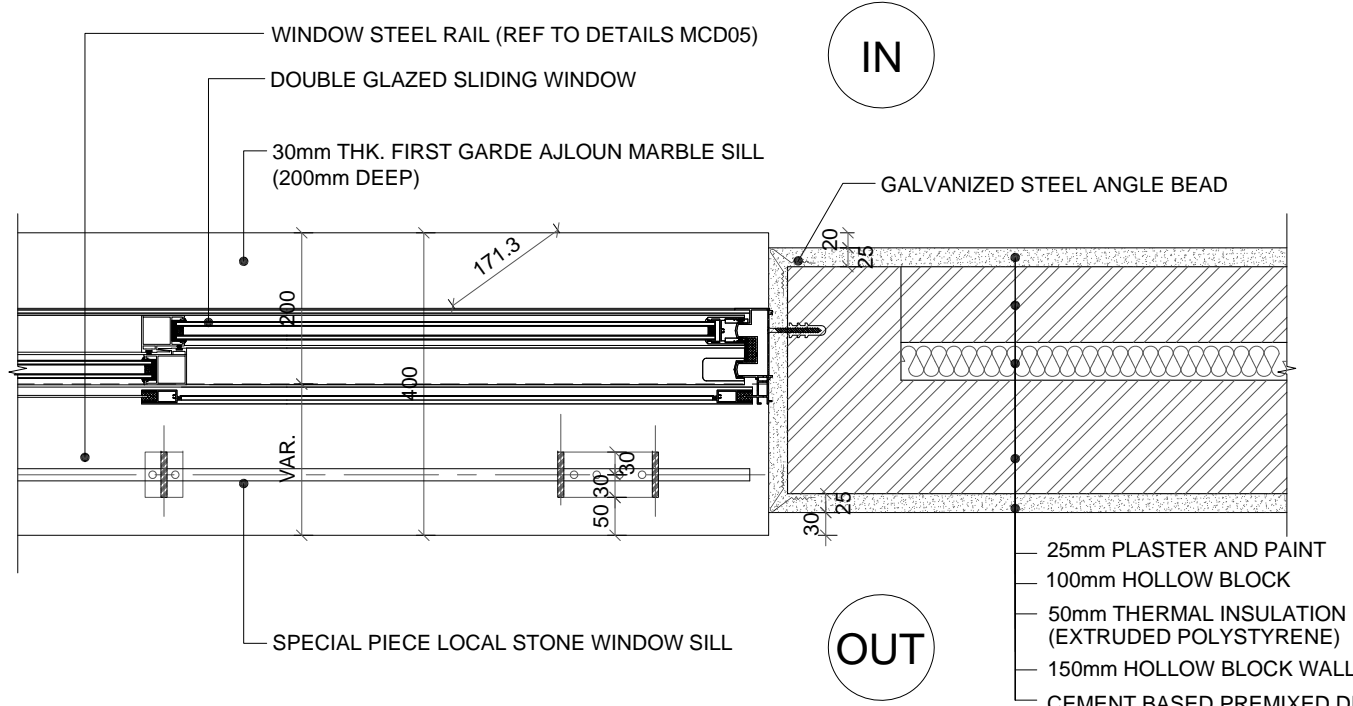
D2 R.C. WALL INSULATION DETAIL AT BASEMENT FLOOR
SCALE 1:10

REV.	DATE	REMARKS



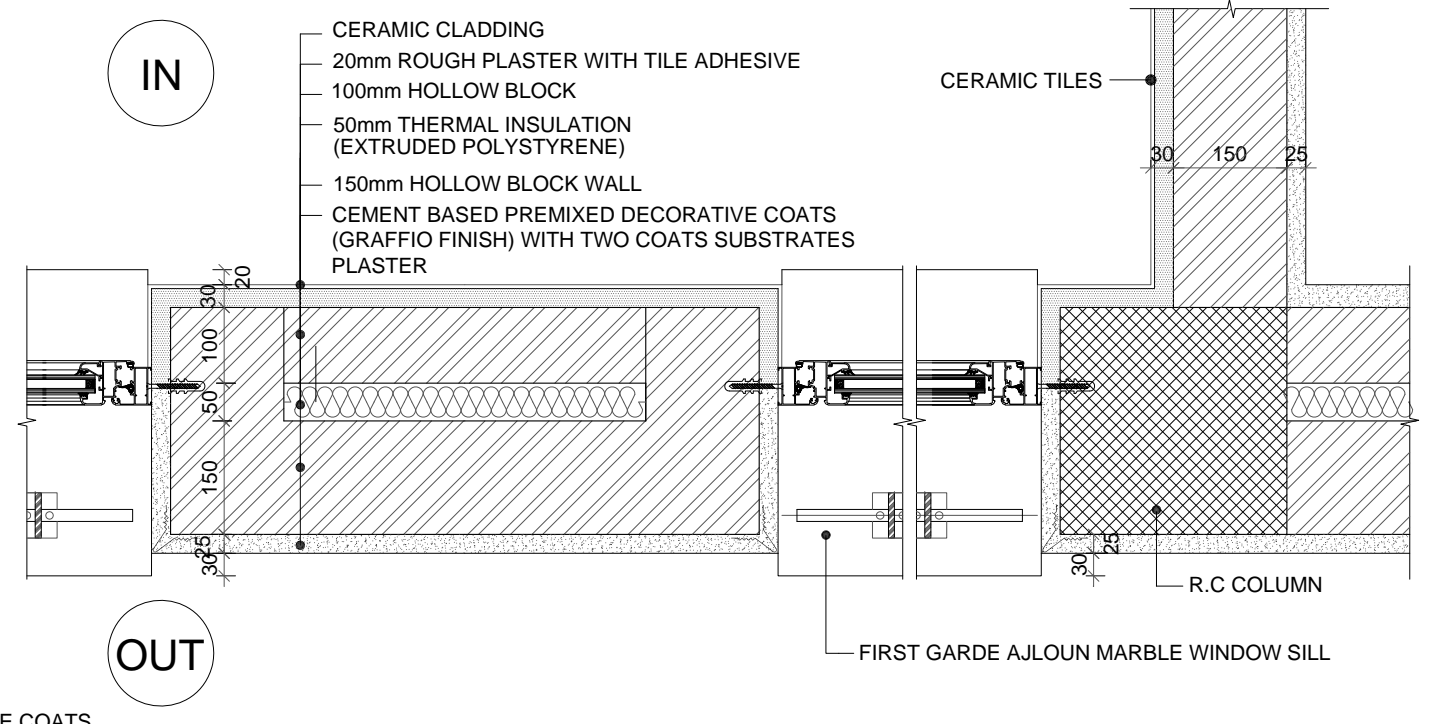
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: REINFORCED CONCRETE WALLS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: HWS-03
		Date: June 2020	SCALE: 1:10	



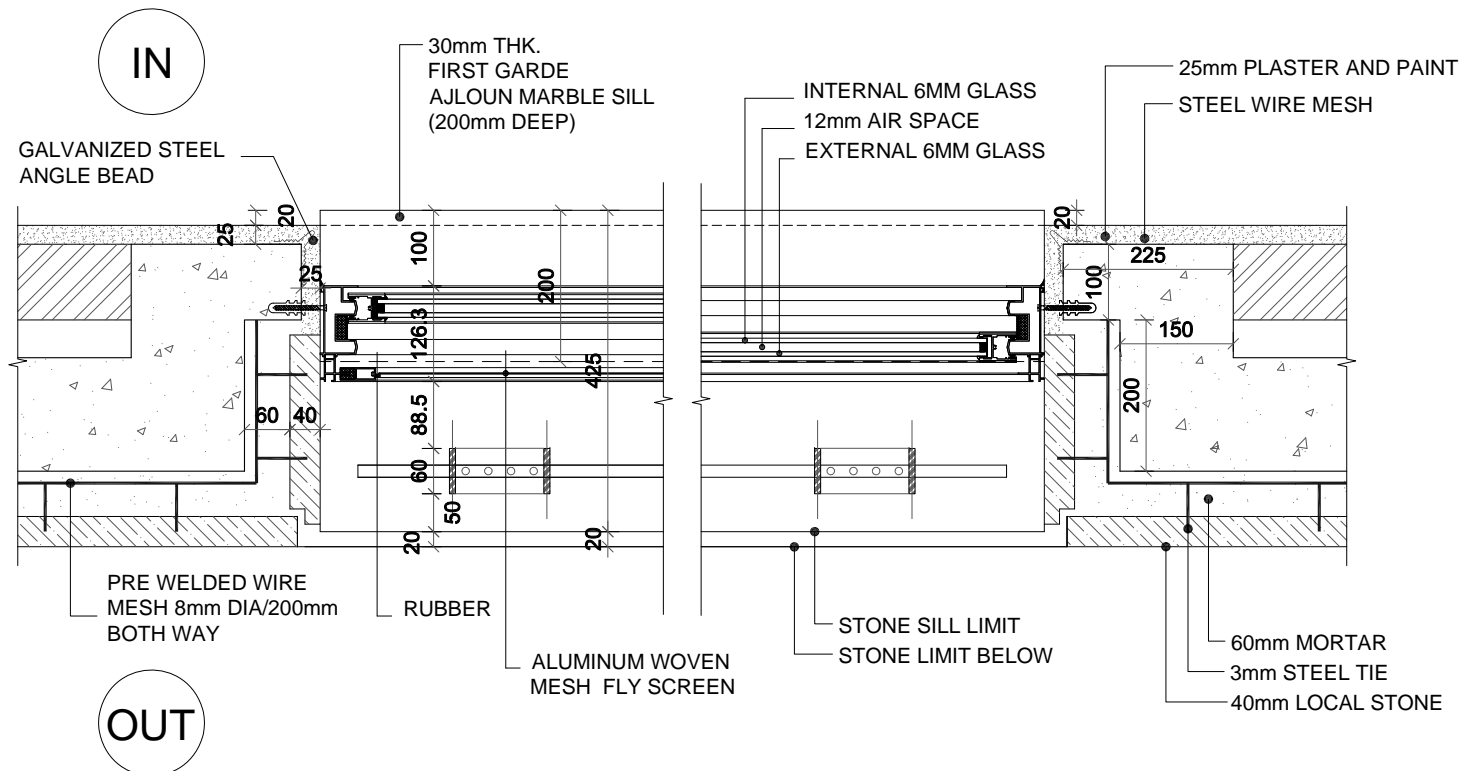
D1 EXTERNAL DOUBLE BLOCK WALL WITH WINDOW OPENING

SCALE 1:10



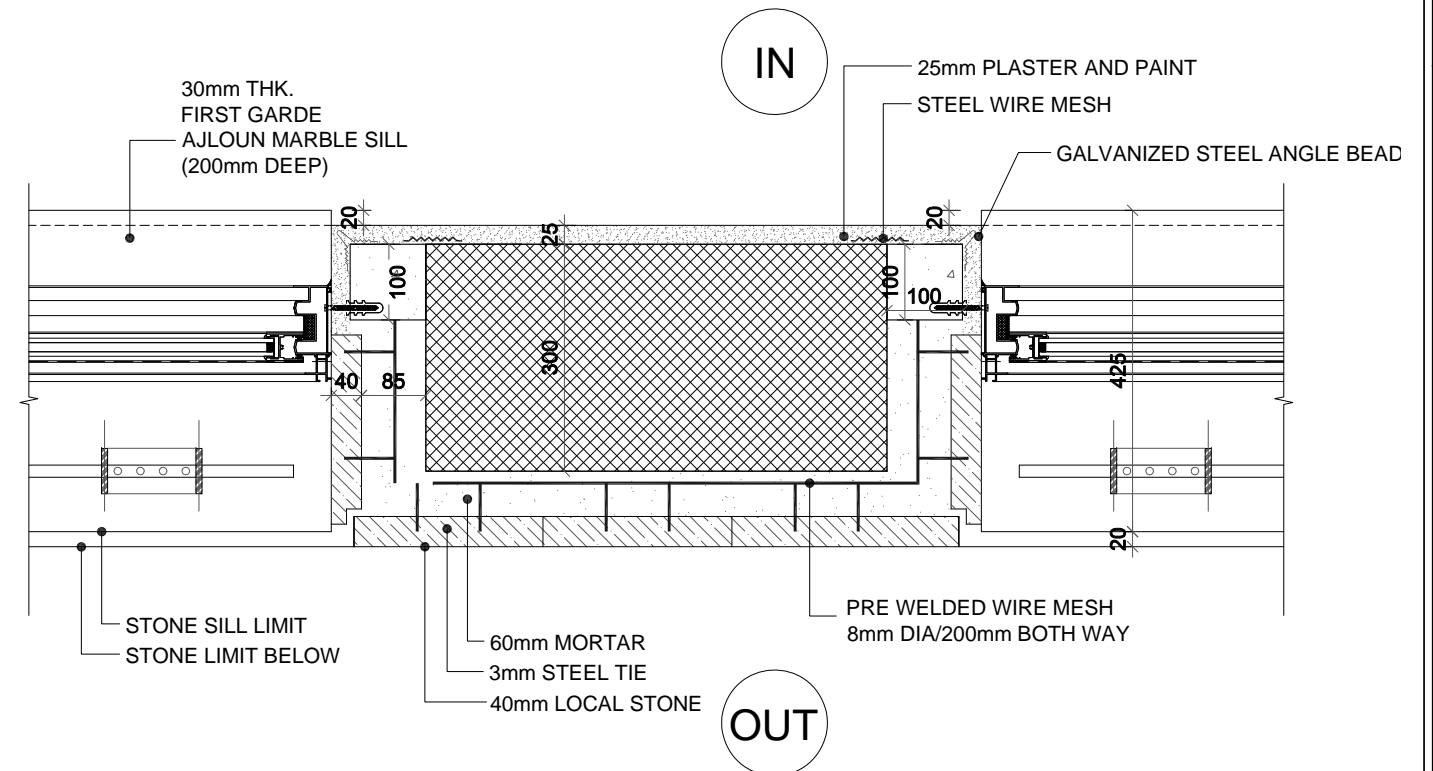
D2 EXTERNAL DOUBLE BLOCK WALL BETWEEN TWO WINDOW OPENINGS- IN WET AREAS

SCALE 1:10



D3 EXTERNAL WALL WITH STONE CLADDING BETWEEN TWO WINDOW OPENINGS

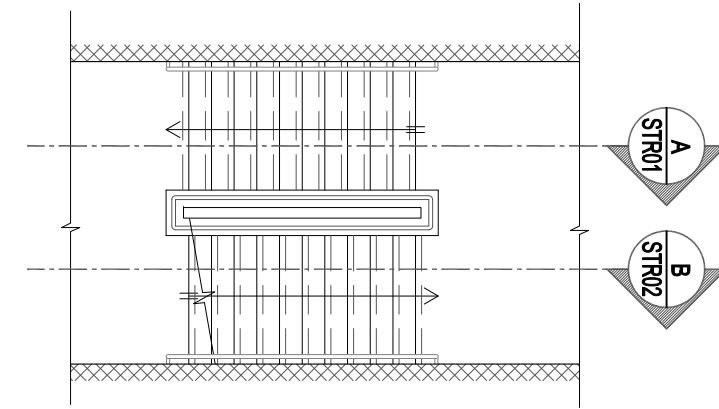
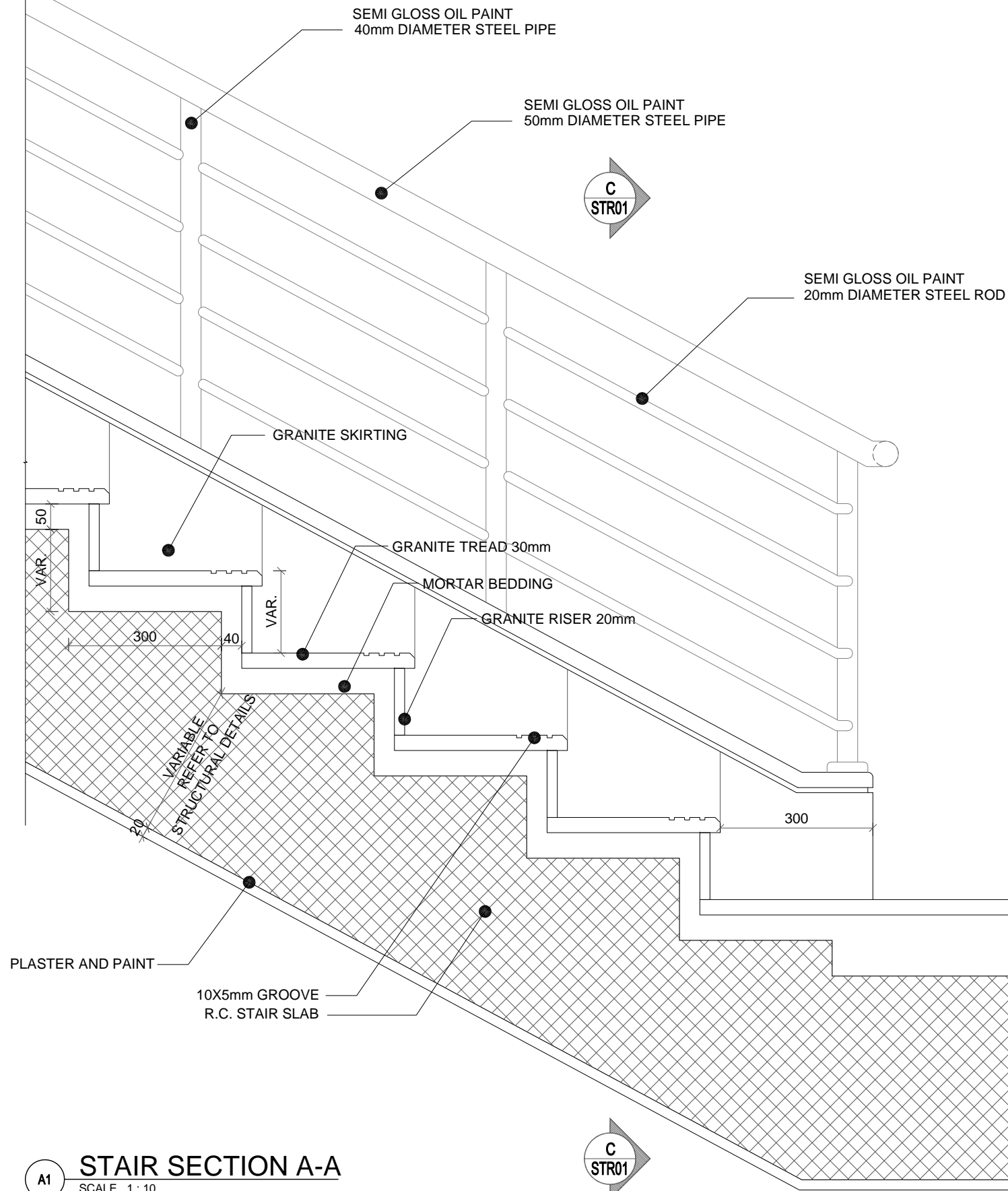
SCALE 1:10



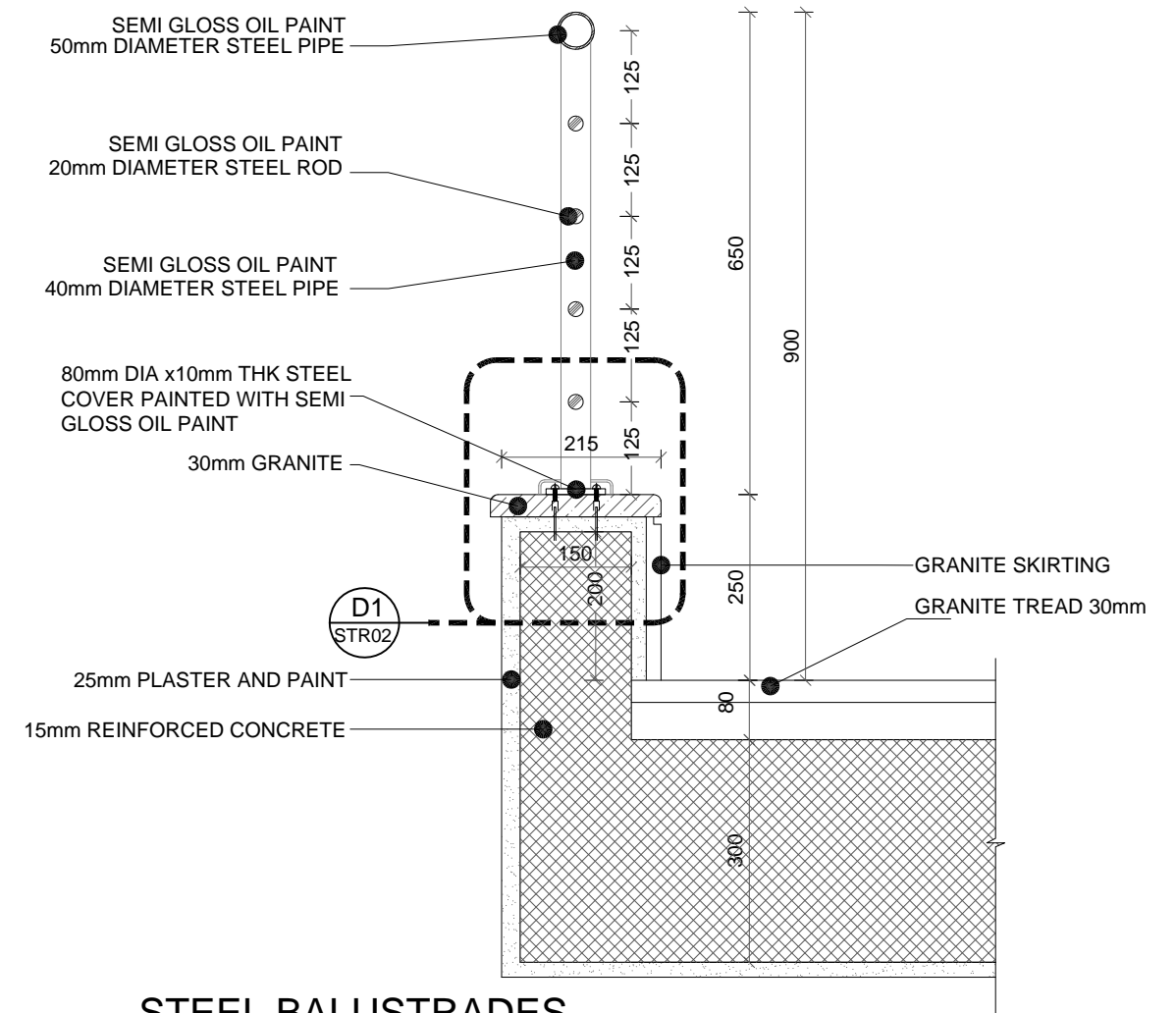
D4 EXTERNAL WALL WITH STONE CLADDING BETWEEN TWO WINDOW OPENINGS

SCALE 1:10

BUILDING DETAILS
INTERNAL STAIRS DETAILS



1 **STAIR KEYPLAN**
SCALE 1 : 10

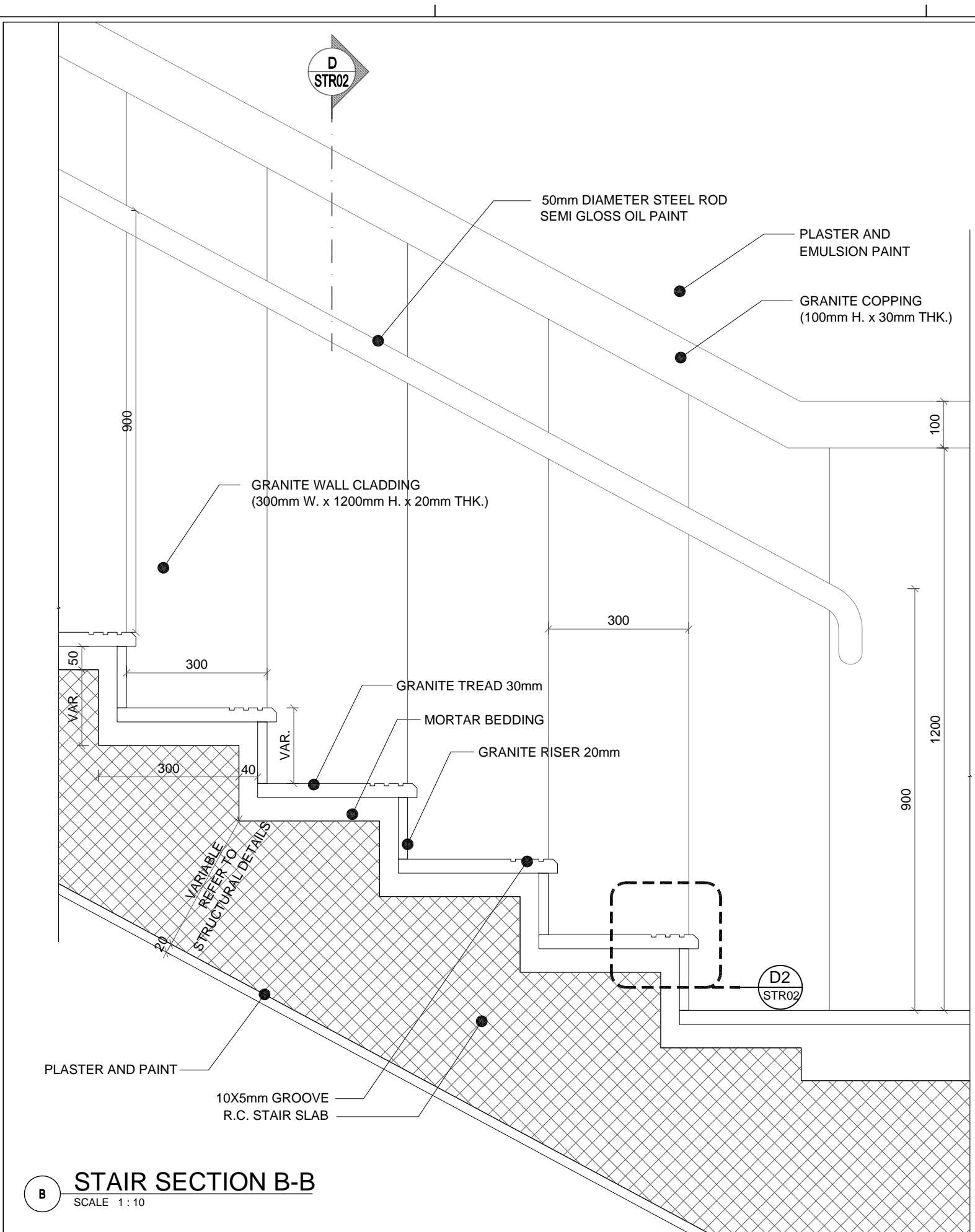


REV.	DATE	REMARKS

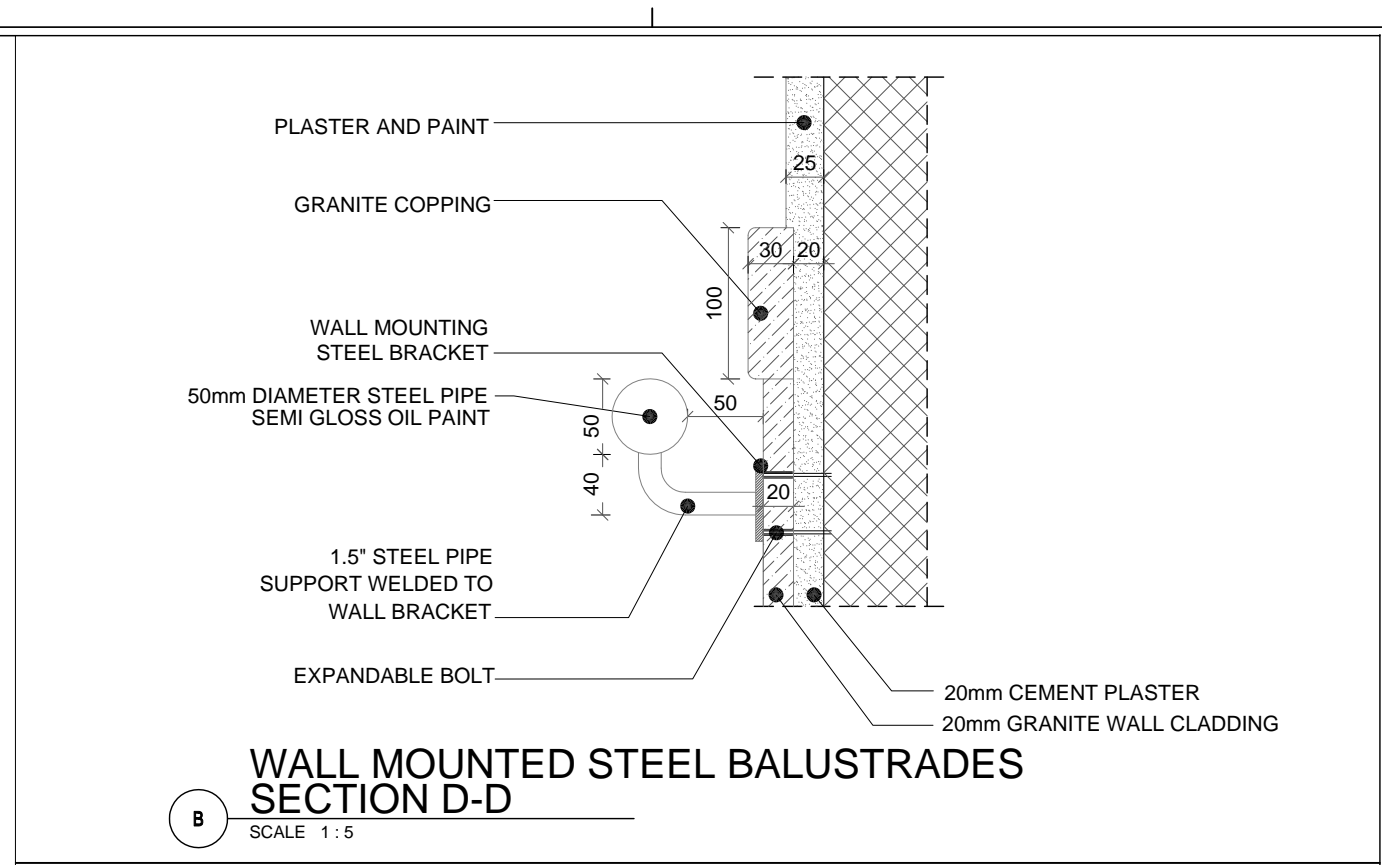


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

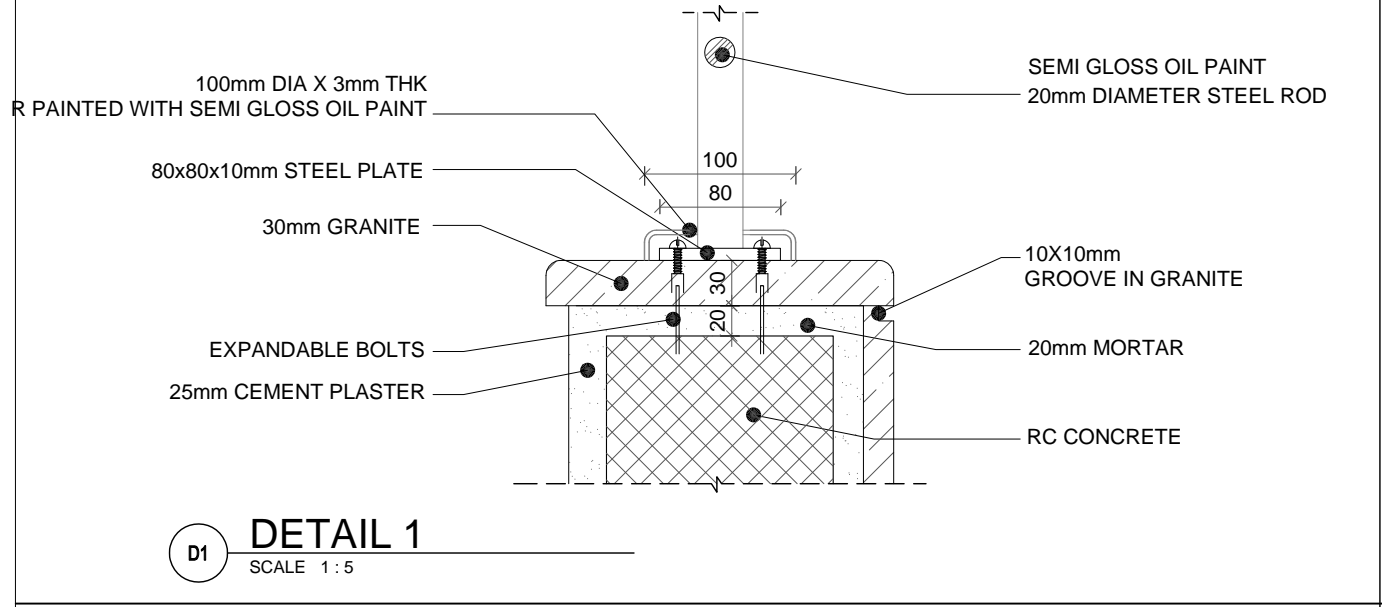
DRAWING NAME:		Design:	Drawn:	REVISION No.:
HIGH STEEL BALUSTRADES BETWEEN STAIR FLIGHTS		M.Sh.	Engicon	0
		Date:	Approved:	SHEET NUMBER:
		June 2020	S.B.	STR-01
			SCALE:	
			AS SHOWN	



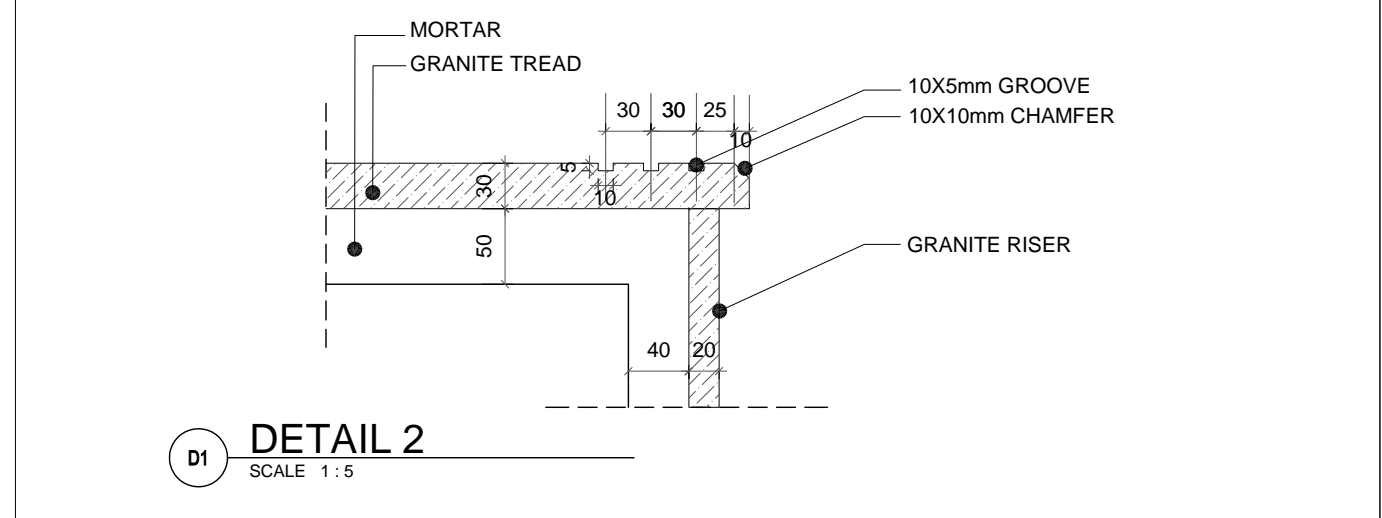
B STAIR SECTION B-B
SCALE 1 : 10



B WALL MOUNTED STEEL BALUSTRADES SECTION D-D
SCALE 1 : 5

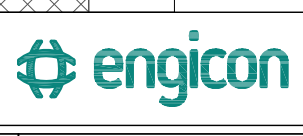


D1 DETAIL 1
SCALE 1 : 5



D2 DETAIL 2
SCALE 1 : 5

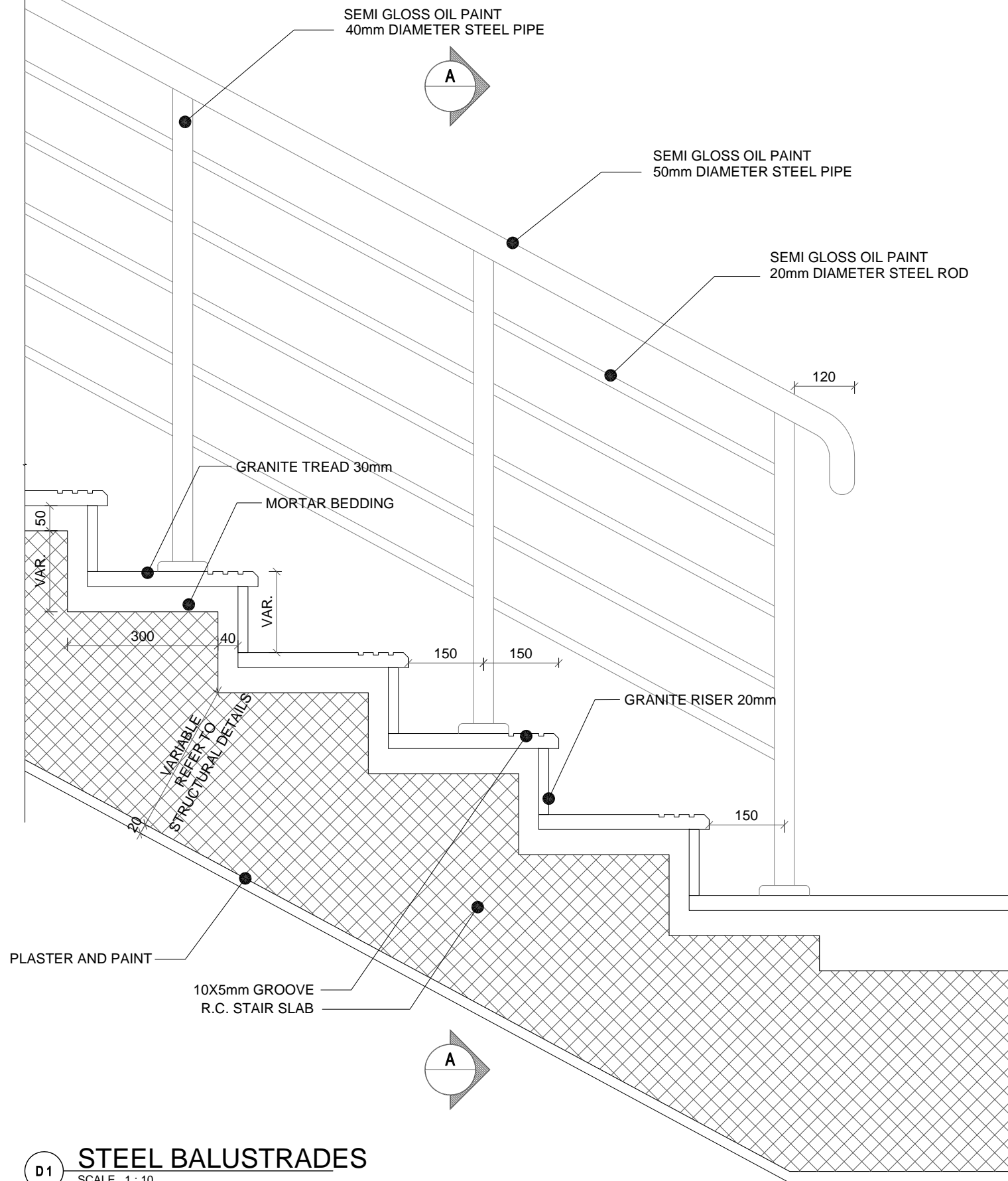
REV.	DATE	REMARKS



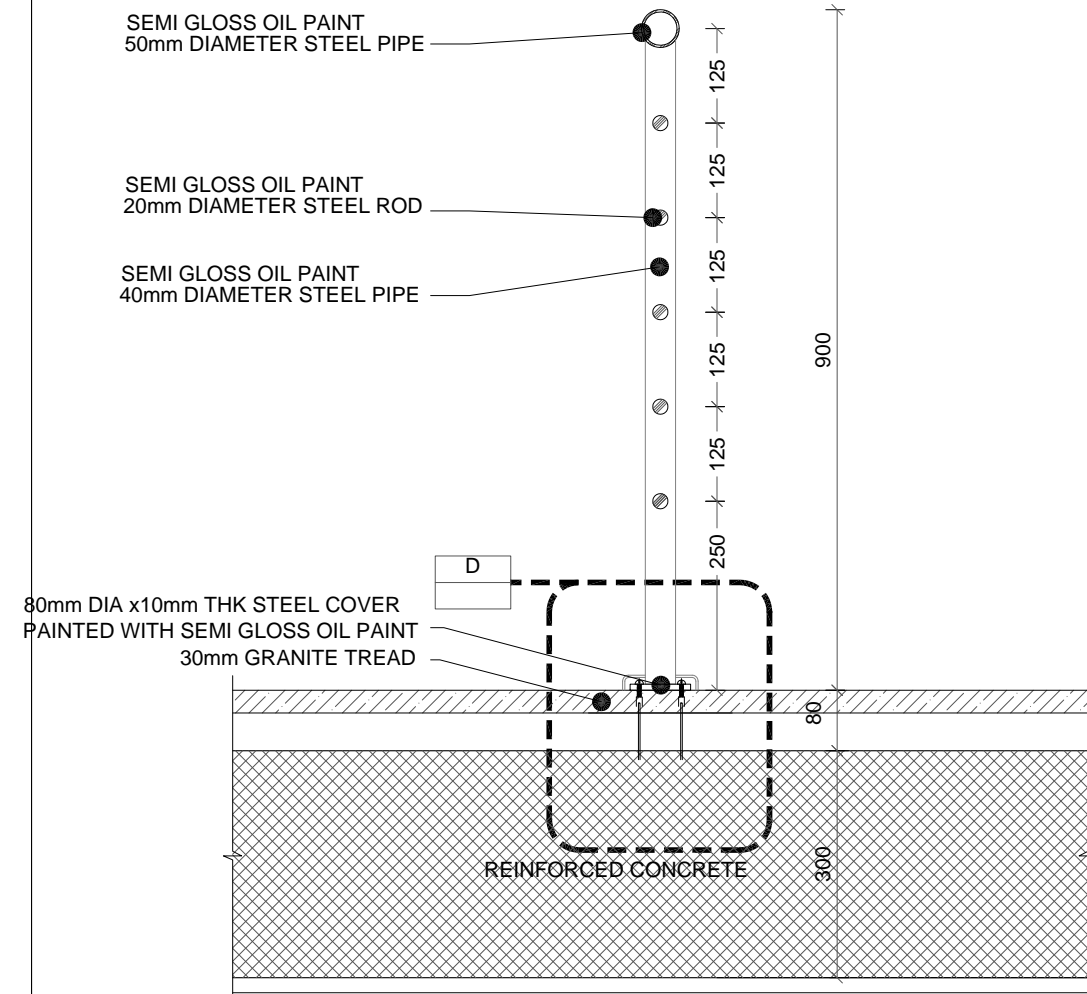
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
STAIRS WITH WALL MOUNTED STEEL BALUSTRADES

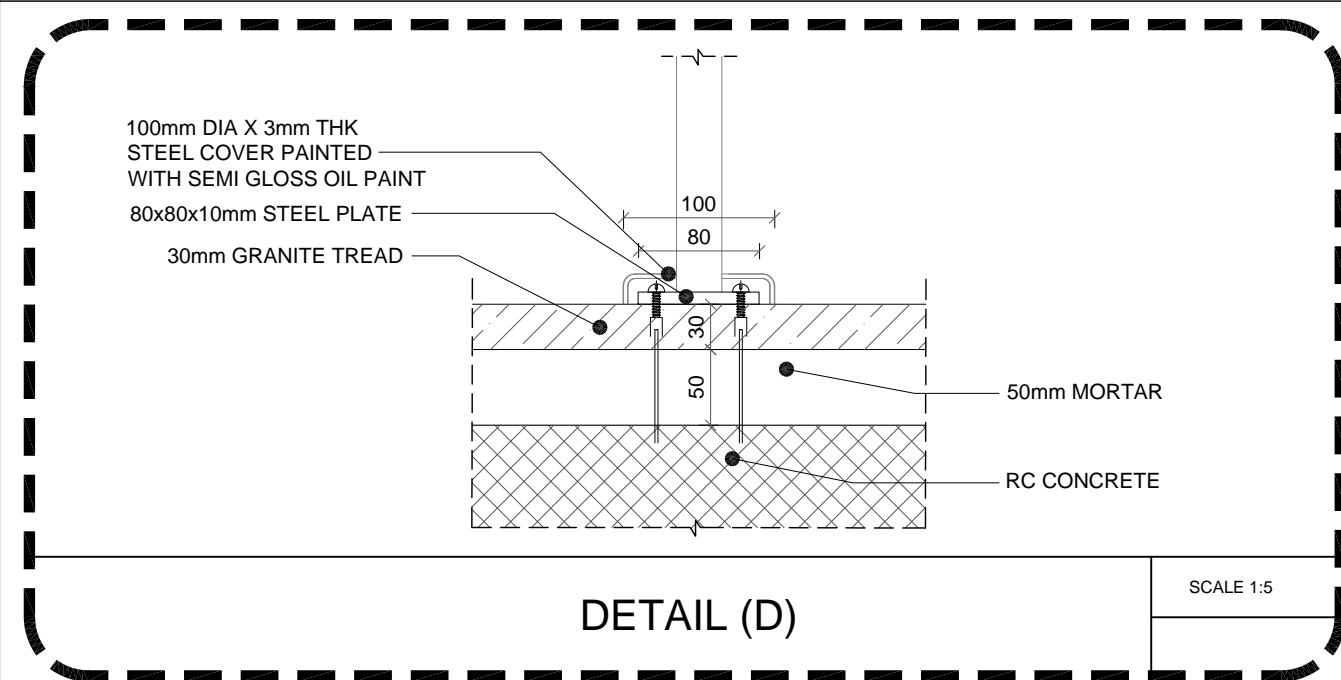
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: STR-02
Date: June 2020	SCALE: AS SHOWN	



D1 STEEL BALUSTRADES
SCALE 1:10



D1-A STEEL BALUSTRADES-SECTION A-A
SCALE 1:10



DETAIL (D)
SCALE 1:5

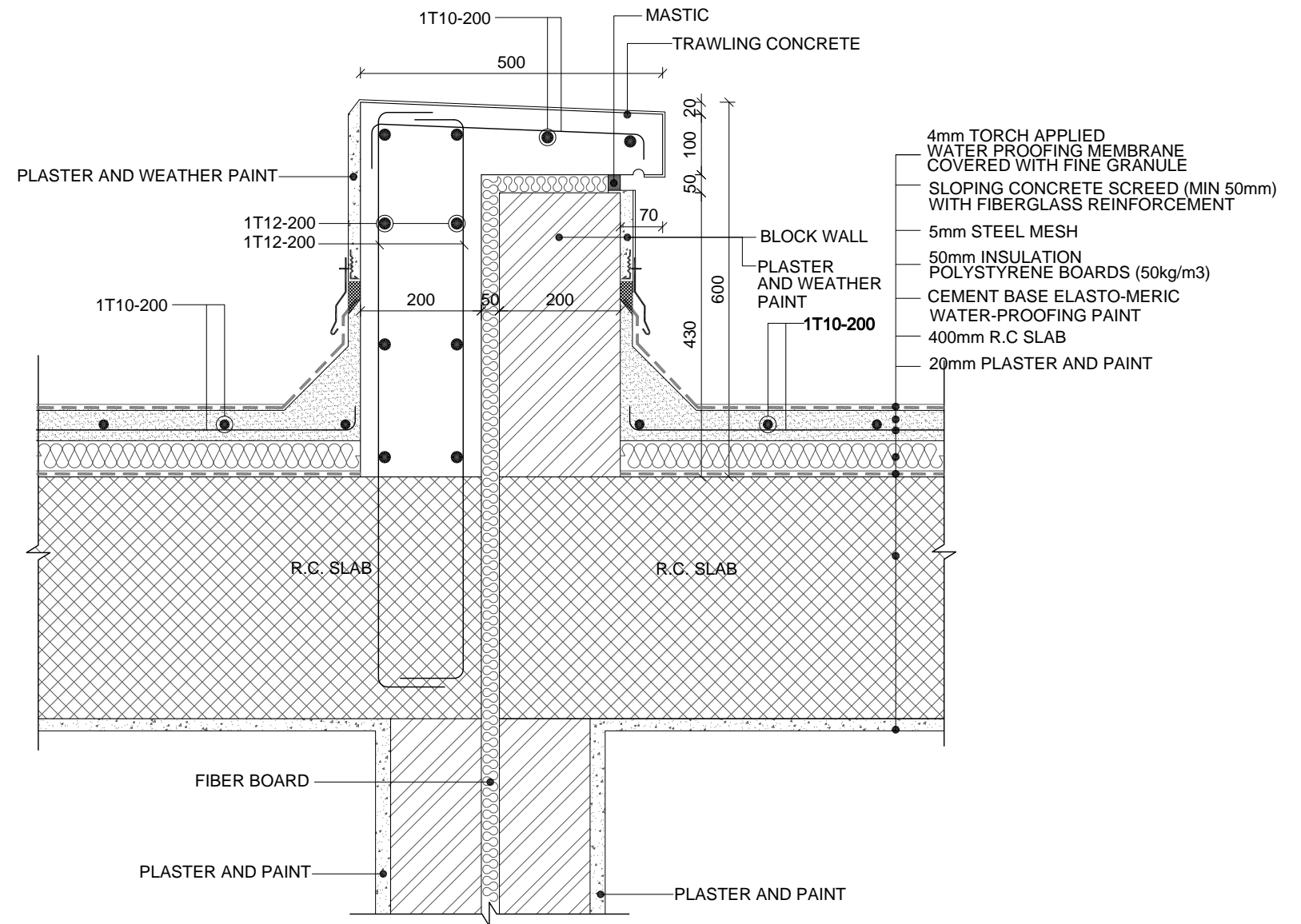
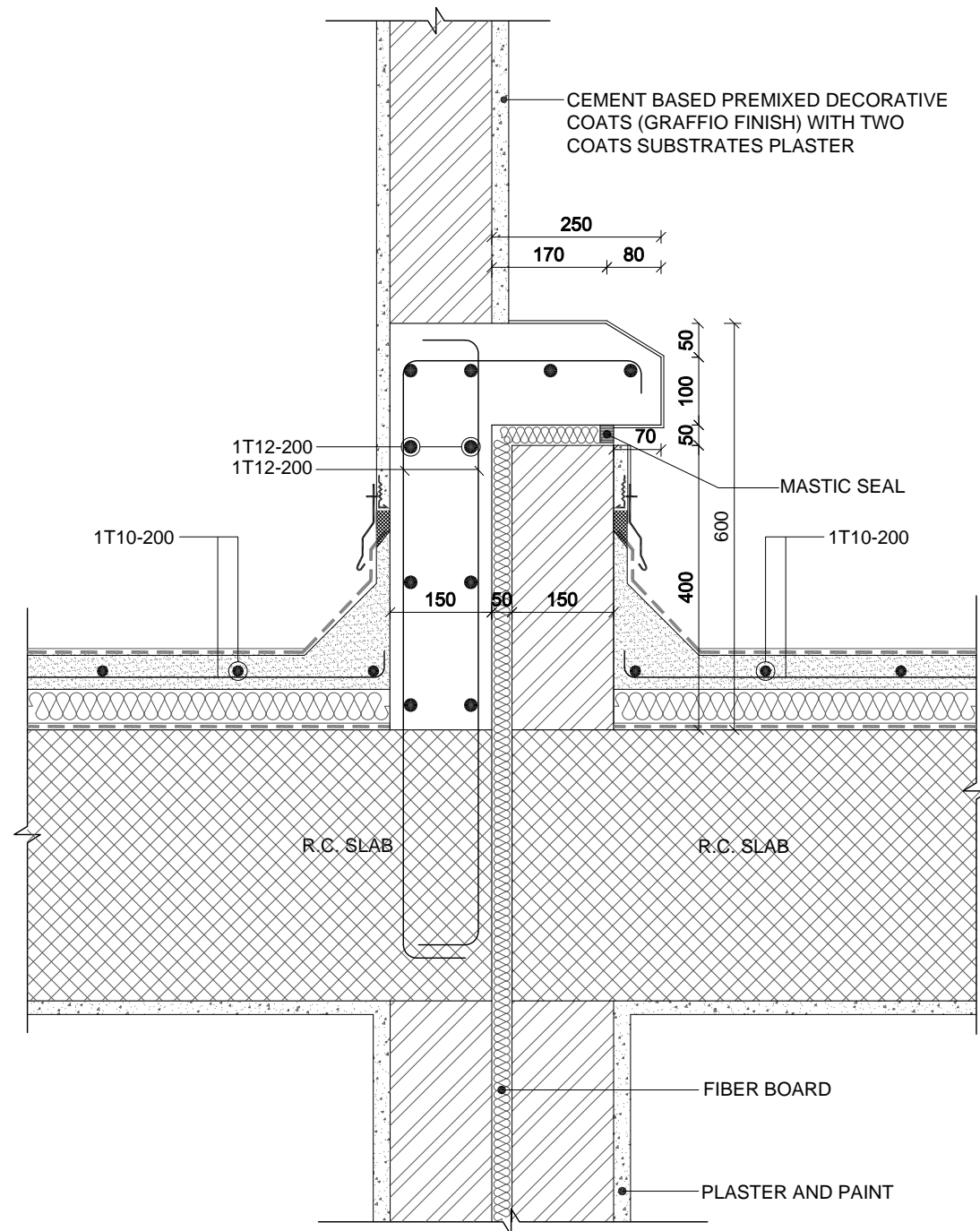
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: HIGH STEEL BALUSTRADES WITHIN STAIR FLIGHT		DESIGN: H.B.	DRAWN: Engicon	REVISION No. : 0
		CHECKED: M.Sh.	APPROVED: S.B.	SHEET NUMBER: STR-03
		DATE: June 2020	SCALE: AS SHOWN	

BUILDING DETAILS
EXPANSION JOINT DETAILS



D1 ROOF EXPANSION JOINT DETAIL
SCALE 1 : 10

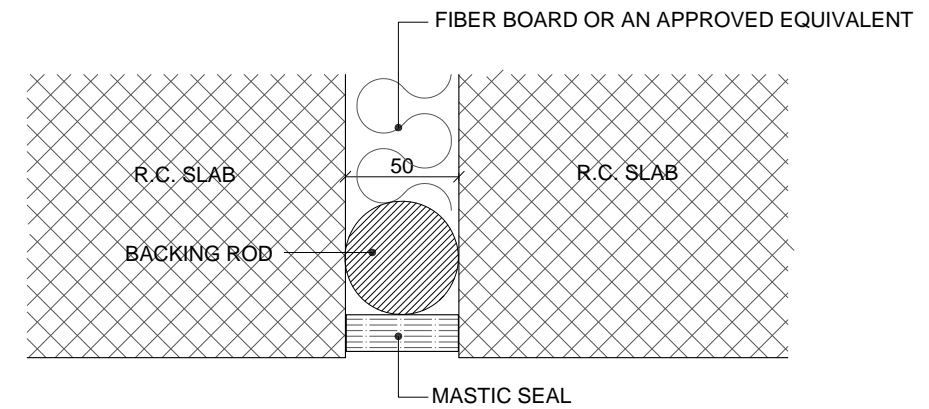
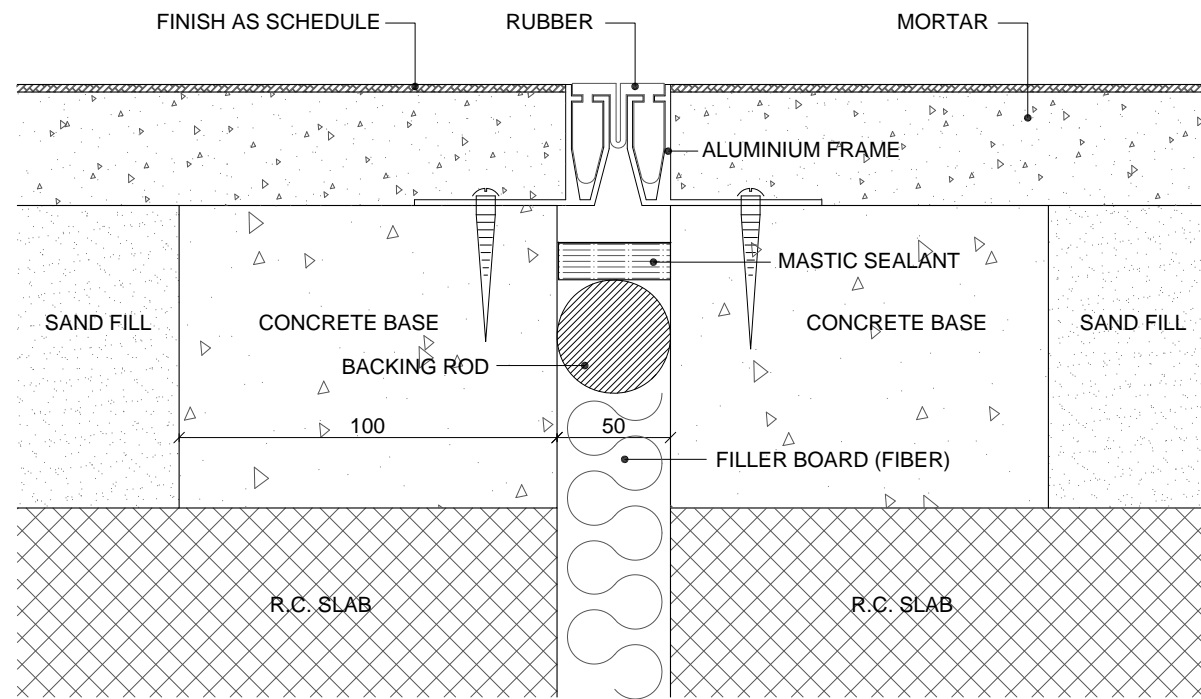
D2 ROOF EXPANSION JOINT DETAIL
SCALE 1 : 10

REV.	DATE	REMARKS



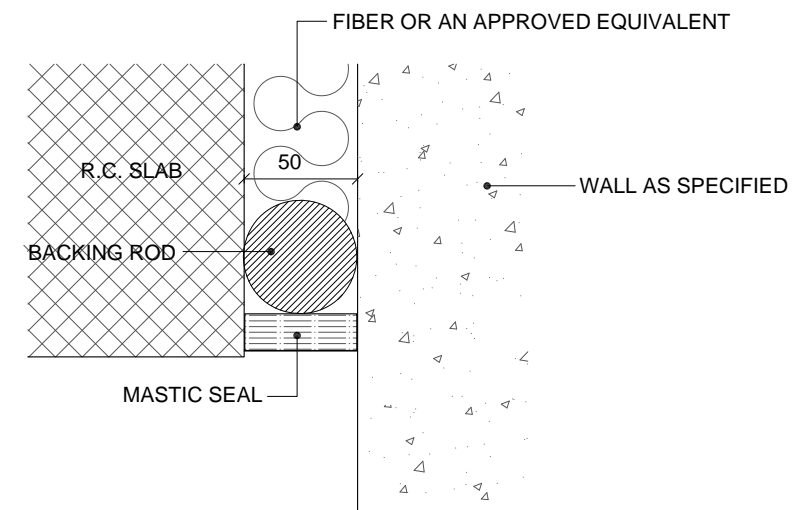
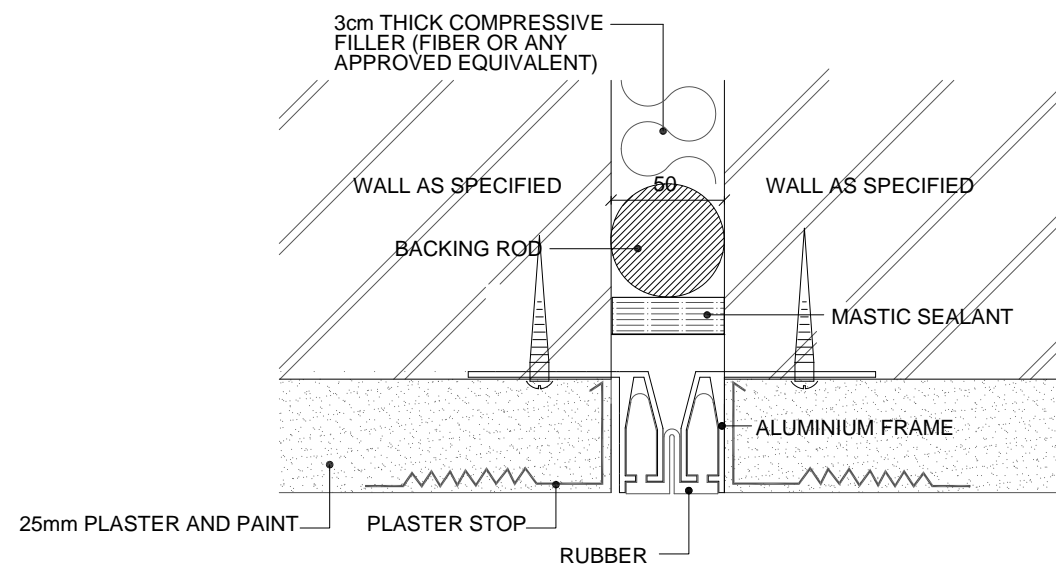
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: ROOF EXPANSION JOINT		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: EXP-01
		Date: June 2020	SCALE : 1:10	



D1 INTERNAL TILE TO TILE EXPANSION JOINT
SCALE 1 : 2

D2 INTERNAL EXPANSION JOINT IN CEILING
SCALE 1 : 2



D3 INTERNAL WALL TO WALL EXPANSION JOINT
SCALE 1 : 2

D4 INTERNAL WALL AND CEILING EXPANSION JOINT
SCALE 1 : 2

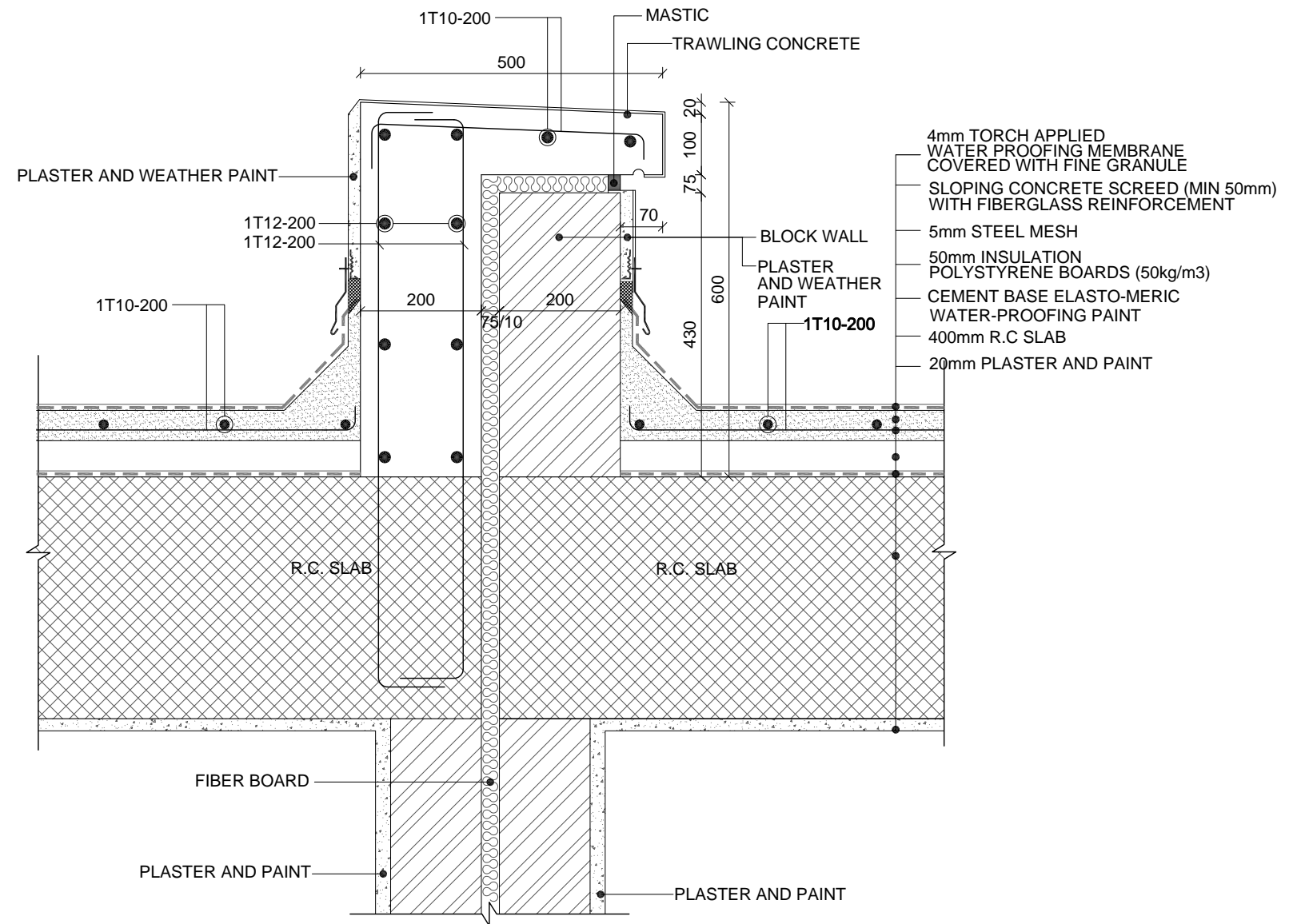
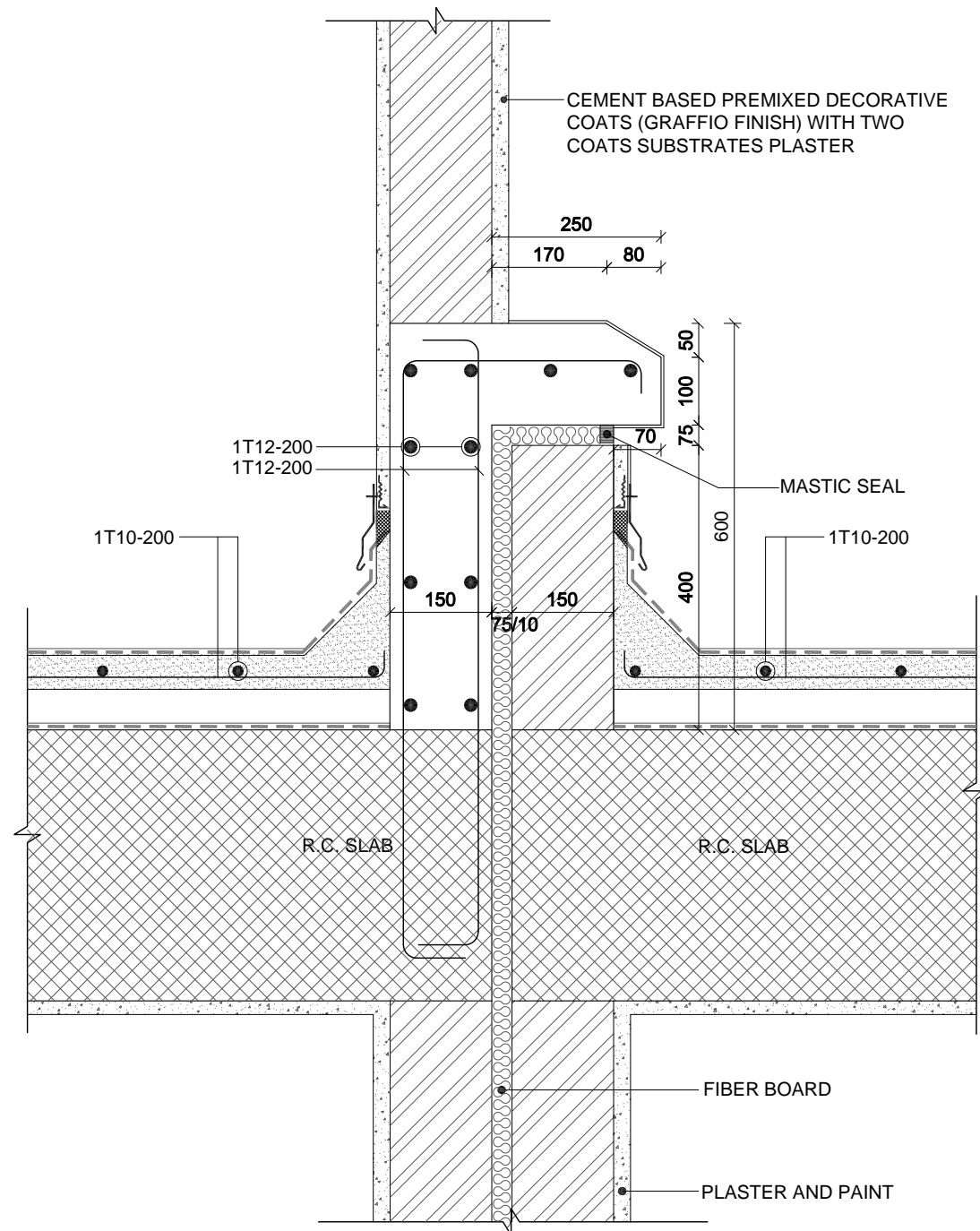
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
INTERNAL EXPANSION JOINT

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE : 1:2	EXP-02



D1 ROOF EXPANSION JOINT DETAIL (7.5cm THICK)
SCALE 1 : 10

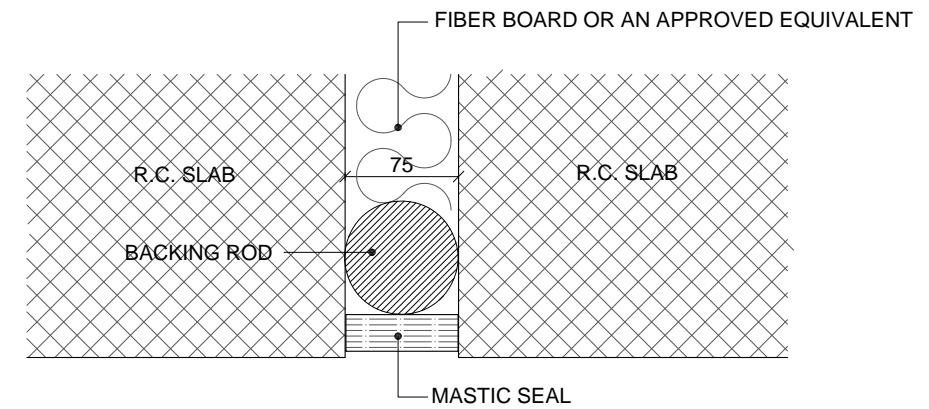
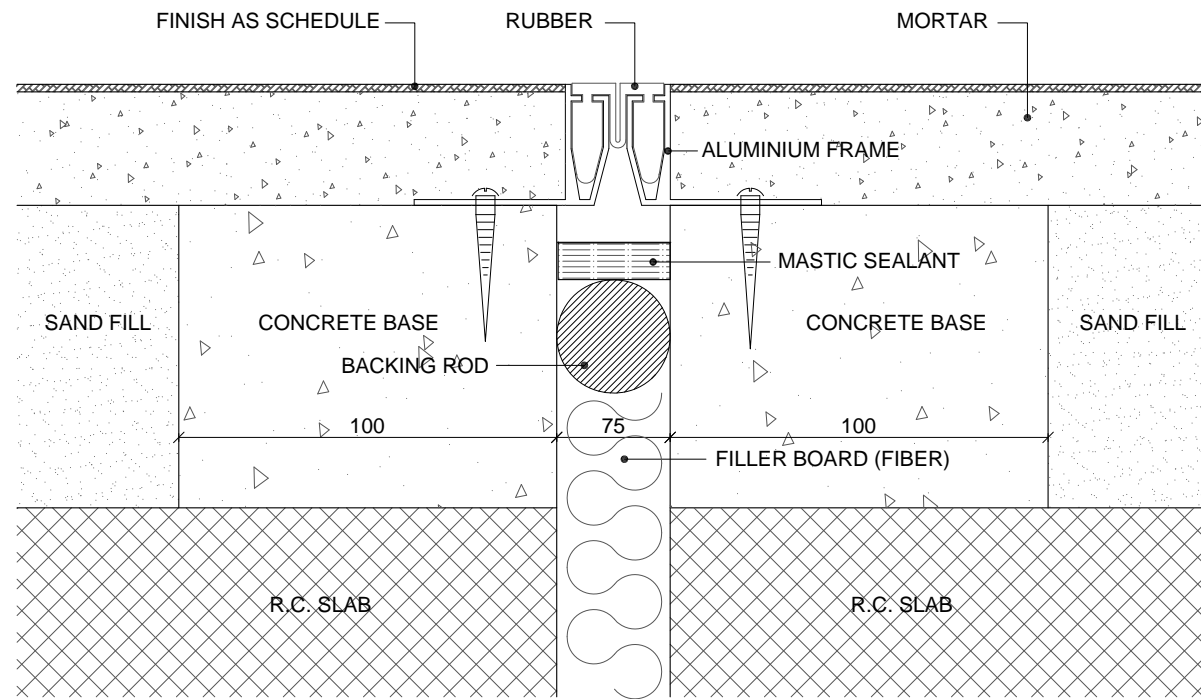
D2 ROOF EXPANSION JOINT DETAIL (7.5cm THICK)
SCALE 1 : 10

REV.	DATE	REMARKS



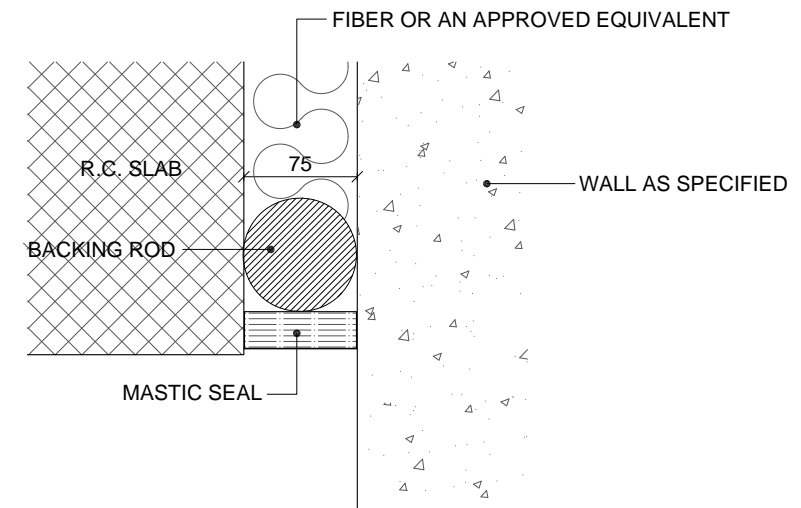
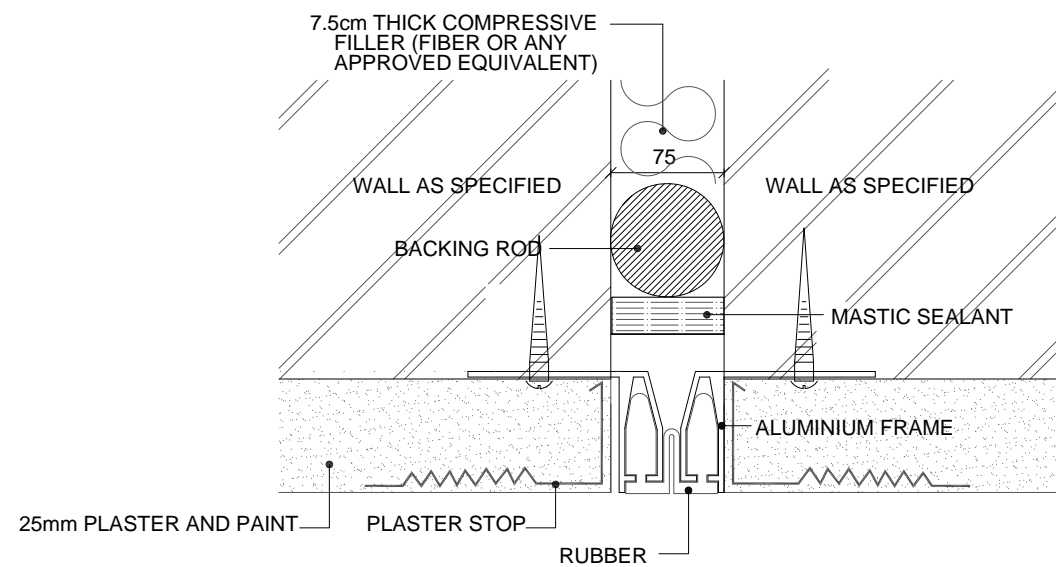
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: ROOF EXPANSION JOINT 7.5cm THICKNESS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: EXP-03
		Date: June 2020	SCALE : 1:10	



D1 INTERNAL TILE TO TILE EXPANSION JOINT
SCALE 1:2

D2 INTERNAL EXPANSION JOINT IN CEILING
SCALE 1:2



D3 INTERNAL WALL TO WALL EXPANSION JOINT
SCALE 1:2

D4 INTERNAL WALL AND CEILING EXPANSION JOINT
SCALE 1:2

REV.	DATE	REMARKS

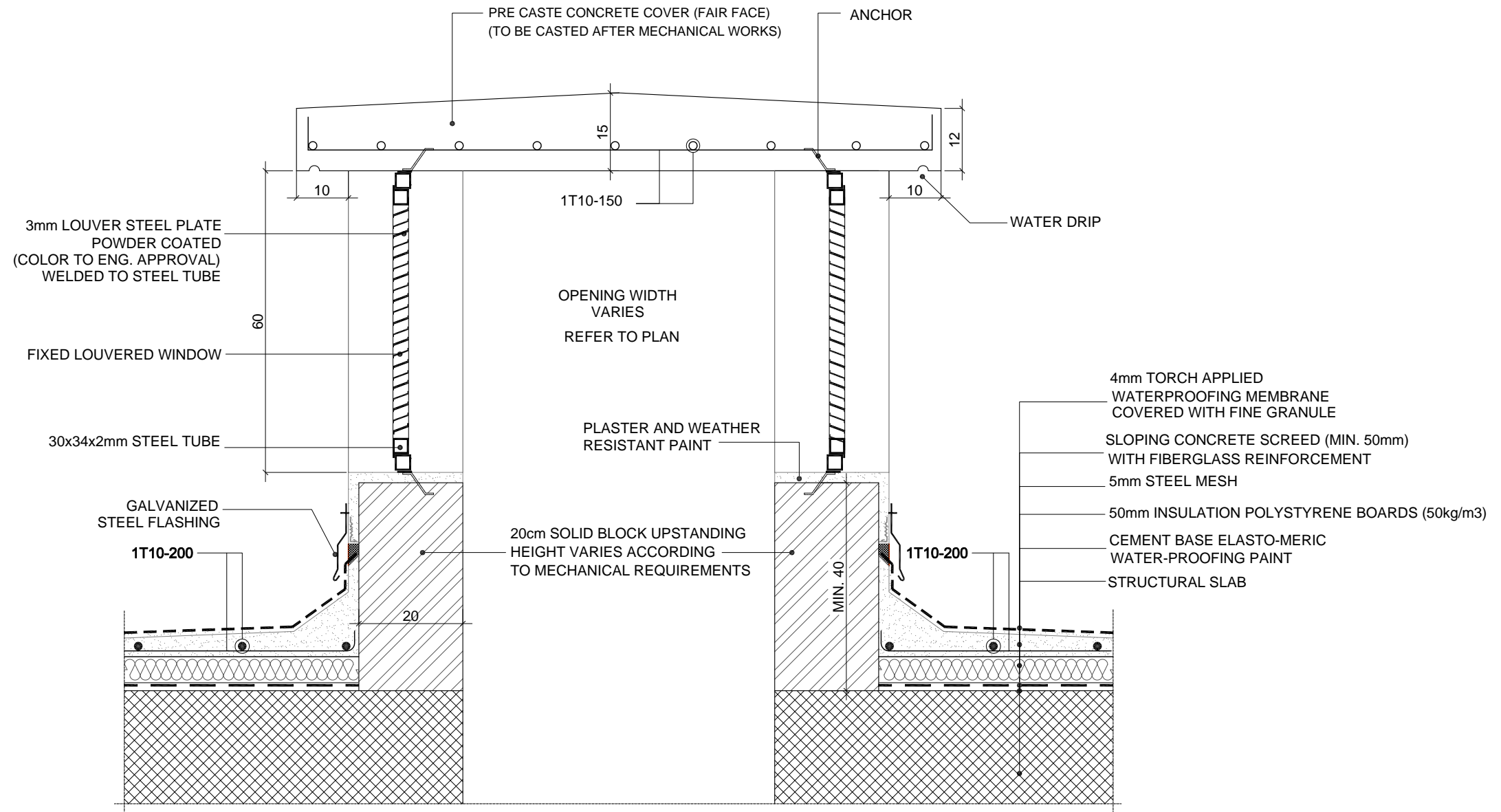


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
INTERNAL EXPANSION JOINT
7.5cm THICKNESS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: EXP-04
Date: June 2020	SCALE : 1:2	

BUILDING DETAILS
MISCELLANEOUS DETAILS



D1 TYPICAL ROOF SHAFT DETAIL
SCALE 1 : 10

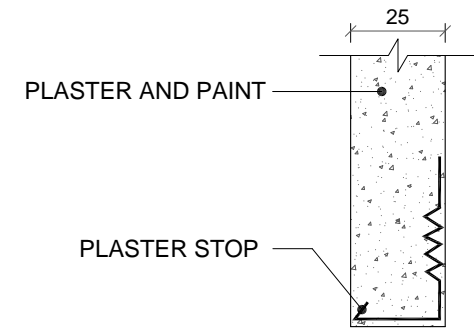
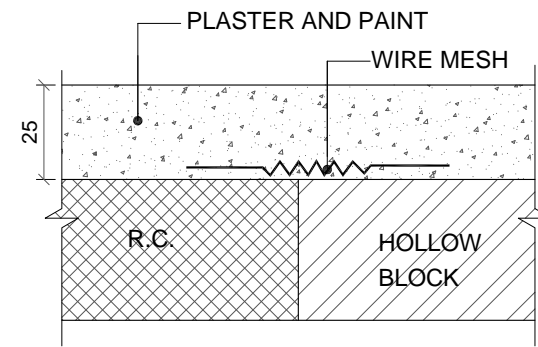
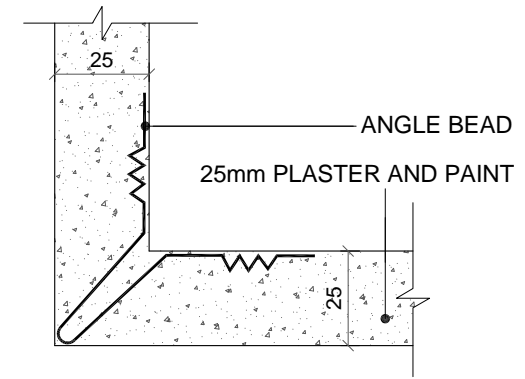
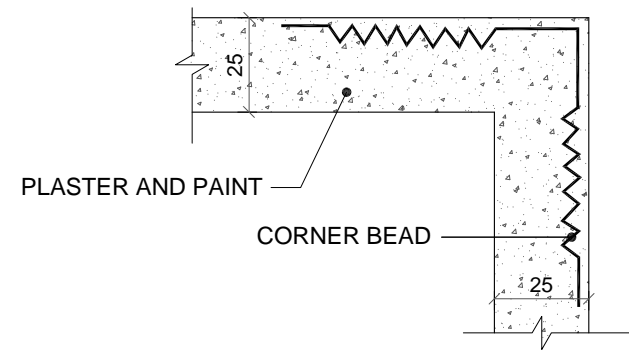
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL ROOF SHAFT DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-01
Date: June 2020	SCALE : 1:10	



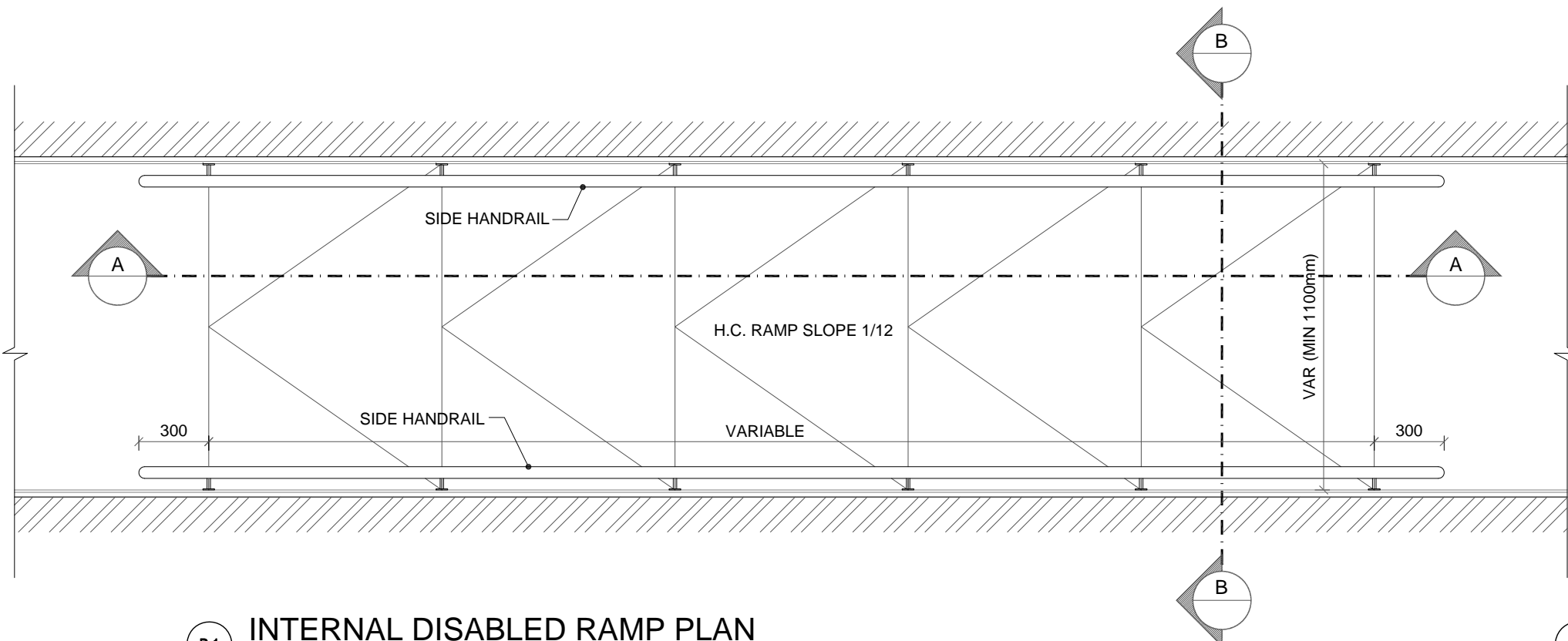
D1 **PLASTER ACCESSORIES DETAILS**
SCALE 1 : 2

REV.	DATE	REMARKS

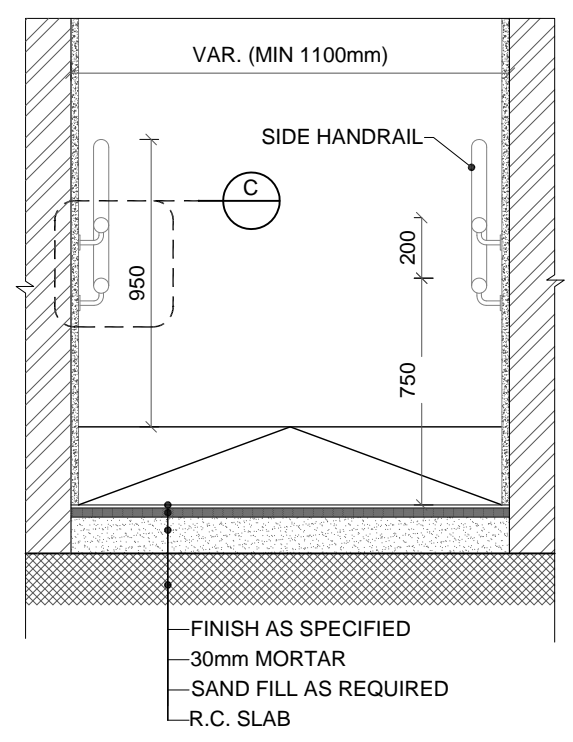


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

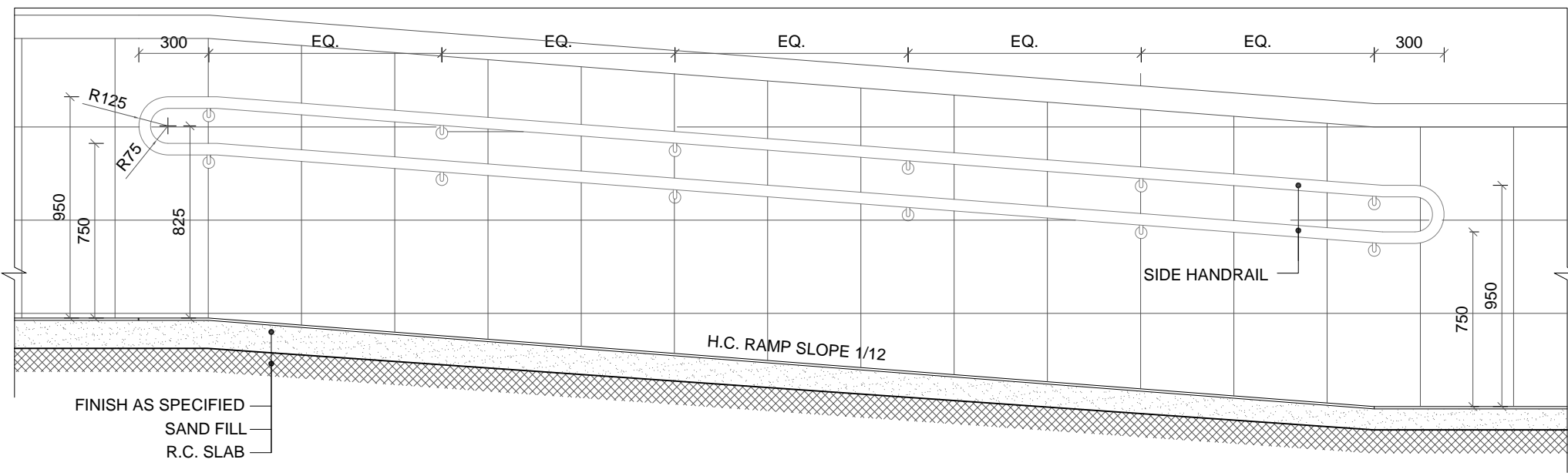
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PLASTER ACCESSORIES DETAILS		H.B.	Engicon	0
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		M.Sh.	S.B.	MCD-02
		Date:	SCALE :	
		June 2020	1 : 2	



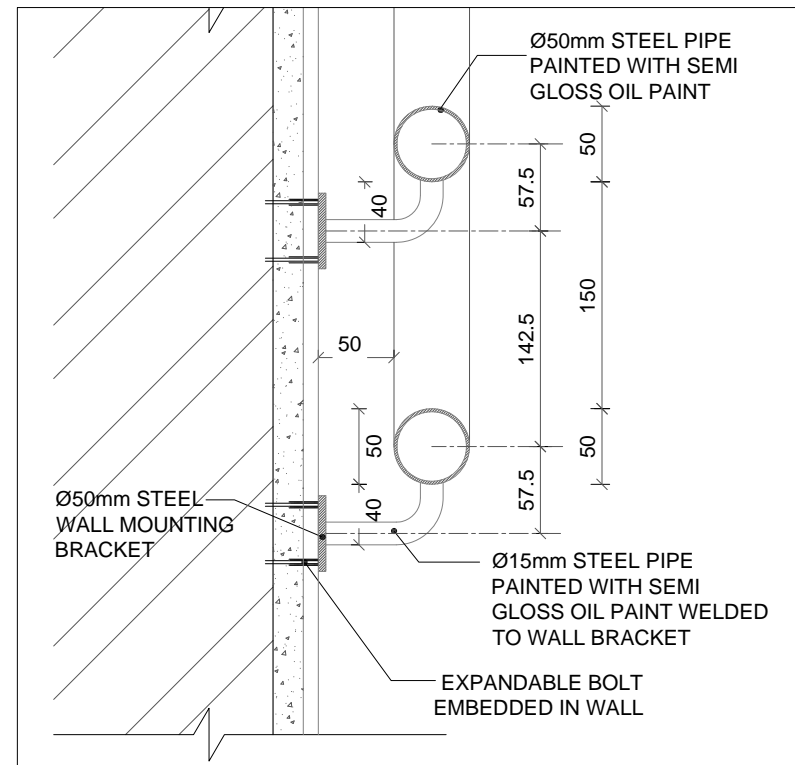
D1 INTERNAL DISABLED RAMP PLAN
SCALE 1:25



D3 INTERNAL DISABLED RAMP- SECTION B-B
SCALE 1:25



D2 INTERNAL DISABLED RAMP- SECTION A-A
SCALE 1:25



C DISABLED SIDE HANDRAIL
SCALE 1:5

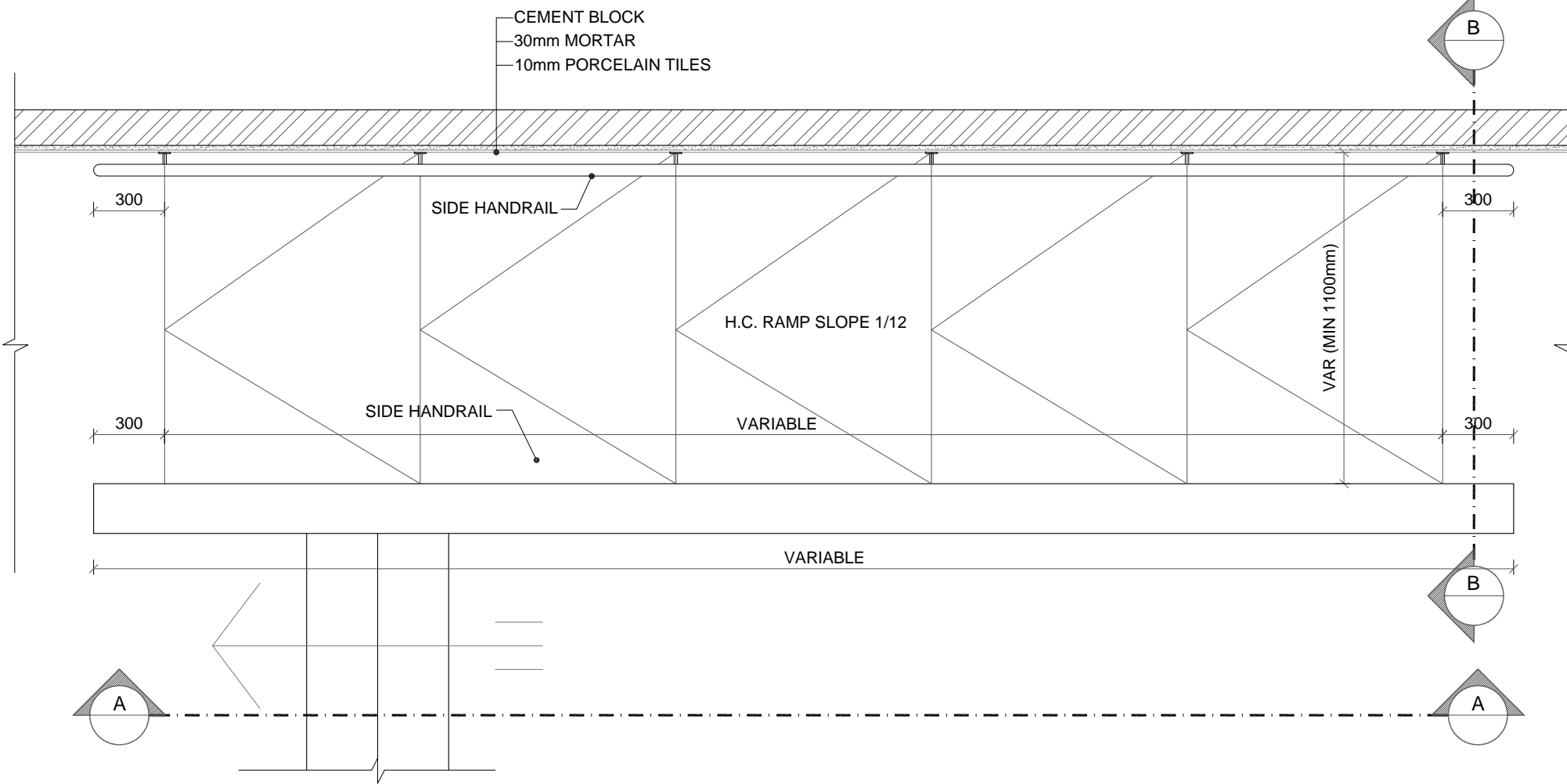
REV.	DATE	REMARKS



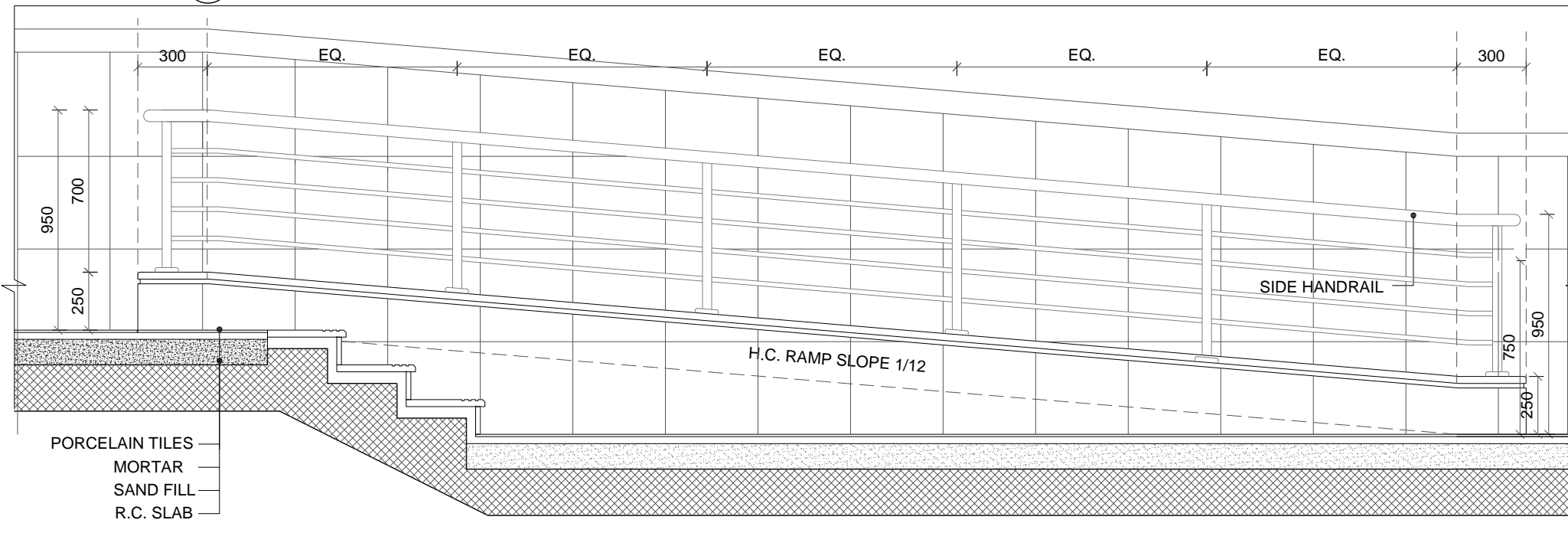
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
INTERNAL DISABLED RAMP DETAILS
(1 OF 2)

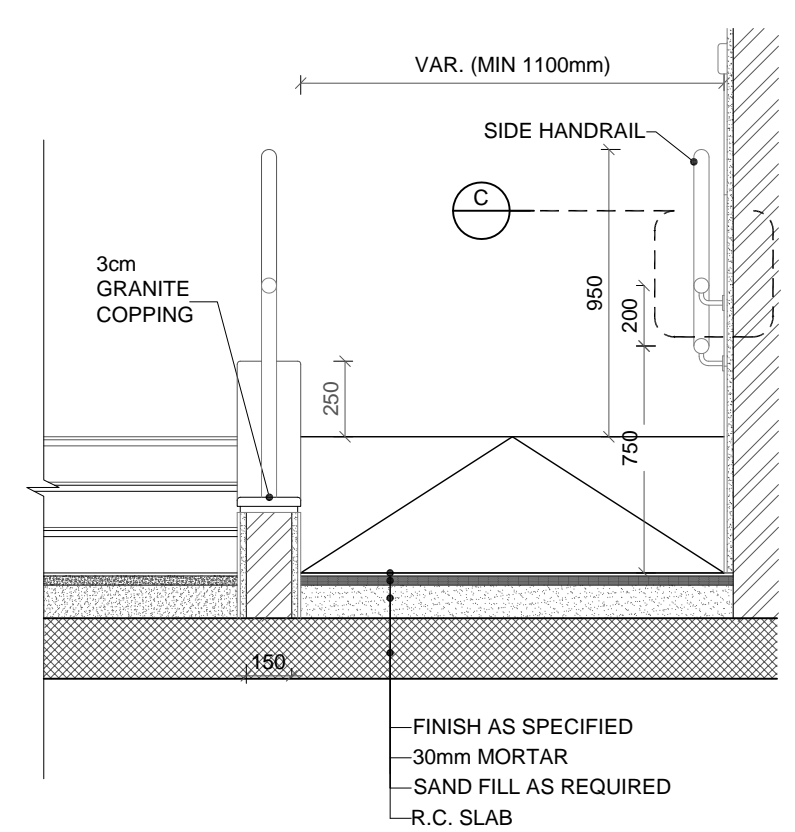
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-03
Date: June 2020	SCALE: AS SHOWN	



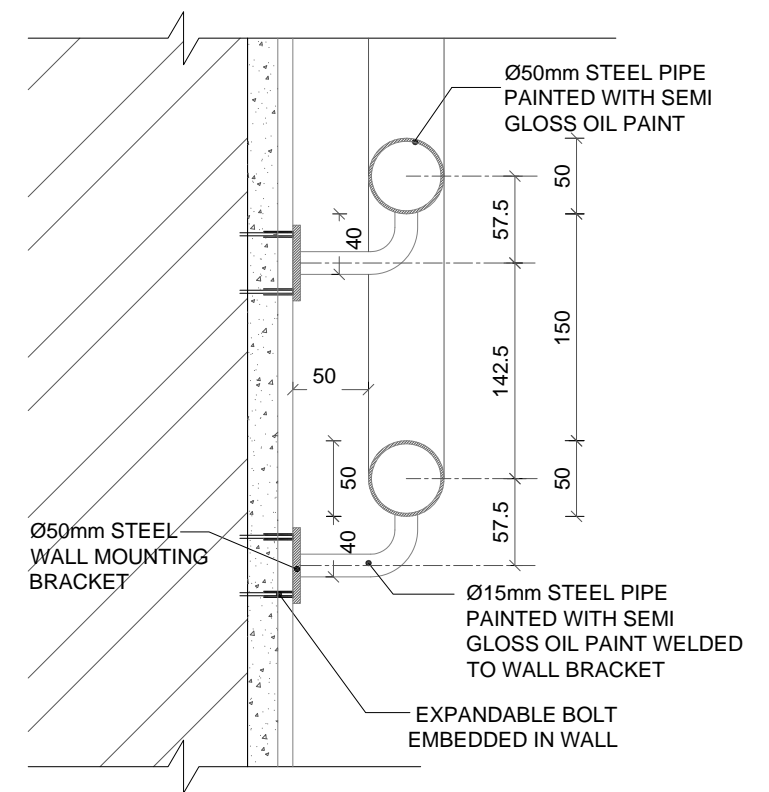
D1 INTERNAL DISABLED RAMP PLAN
SCALE 1:25



D2 INTERNAL DISABLED RAMP- SECTION A-A
SCALE 1:25



D3 INTERNAL DISABLED RAMP- SECTION B-B
SCALE 1:25



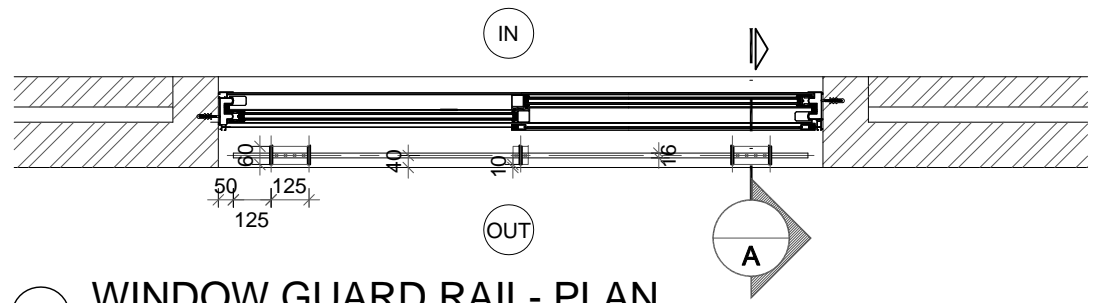
C DISABLED SIDE HANDRAIL
SCALE 1:5

REV.	DATE	REMARKS

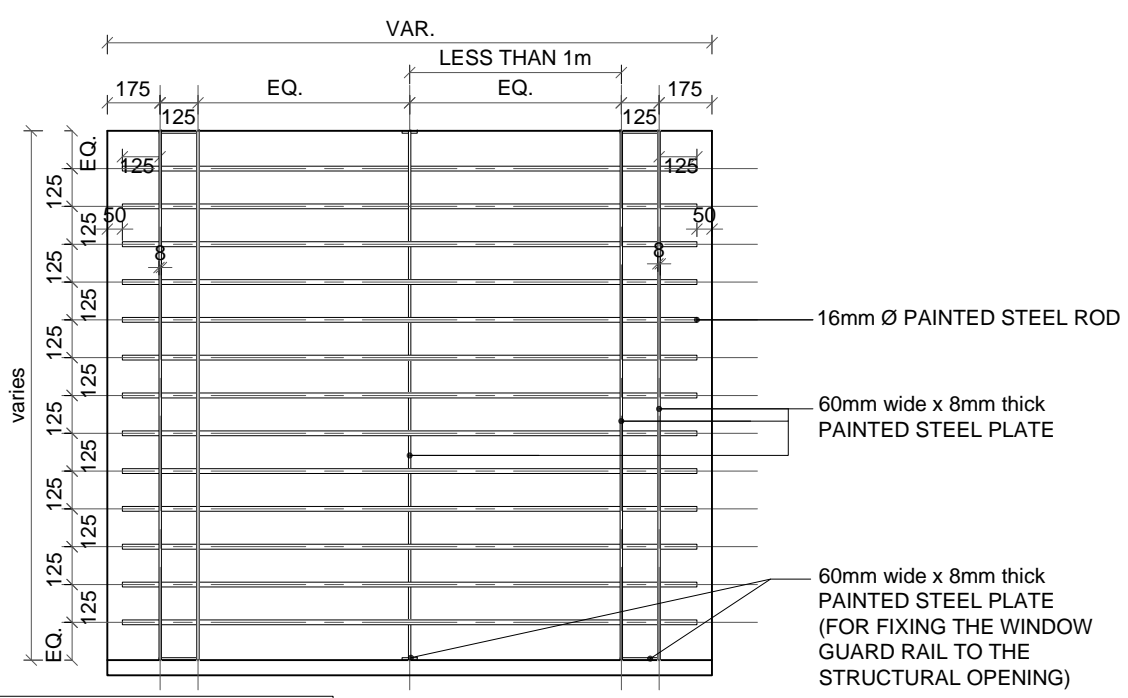


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: INTERNAL DISABLED RAMP DETAILS (2 OF 2)	Design: H.B. Checked: M.Sh. Date: June 2020	Drawn: Engicon Approved: S.B. SCALE: AS SHOWN	REVISION No.: 0 SHEET NUMBER: MCD-04
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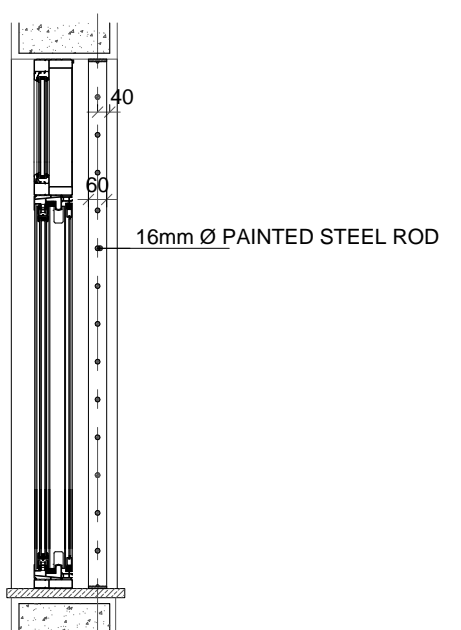


D1 WINDOW GUARD RAIL- PLAN
SCALE 1 : 25

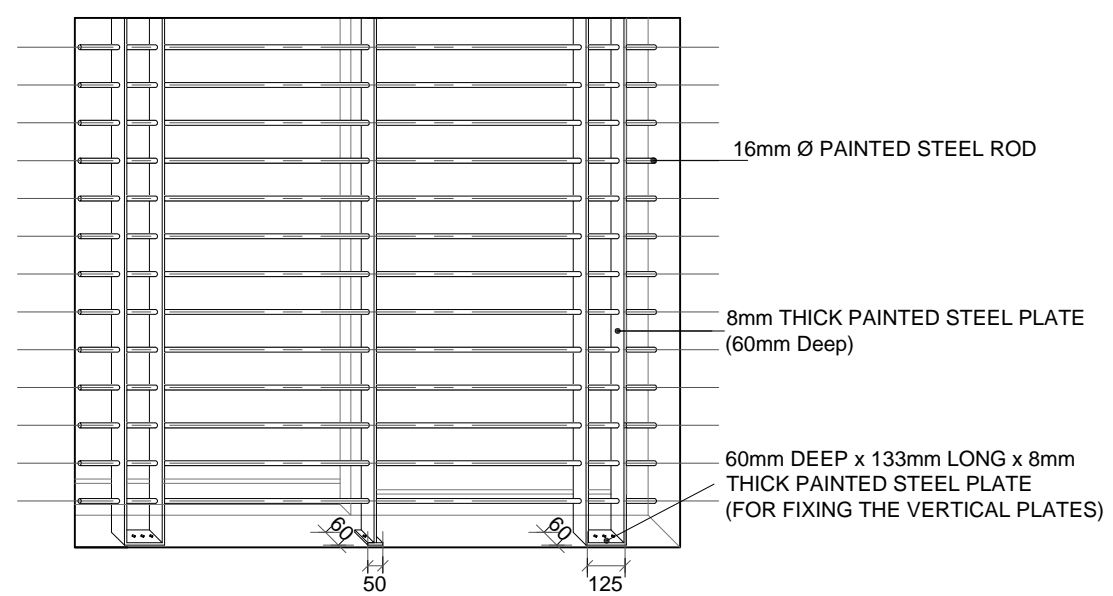


ELEVATION FOR WINDOWS BETWEEN 1.5m AND 2.4m WIDE

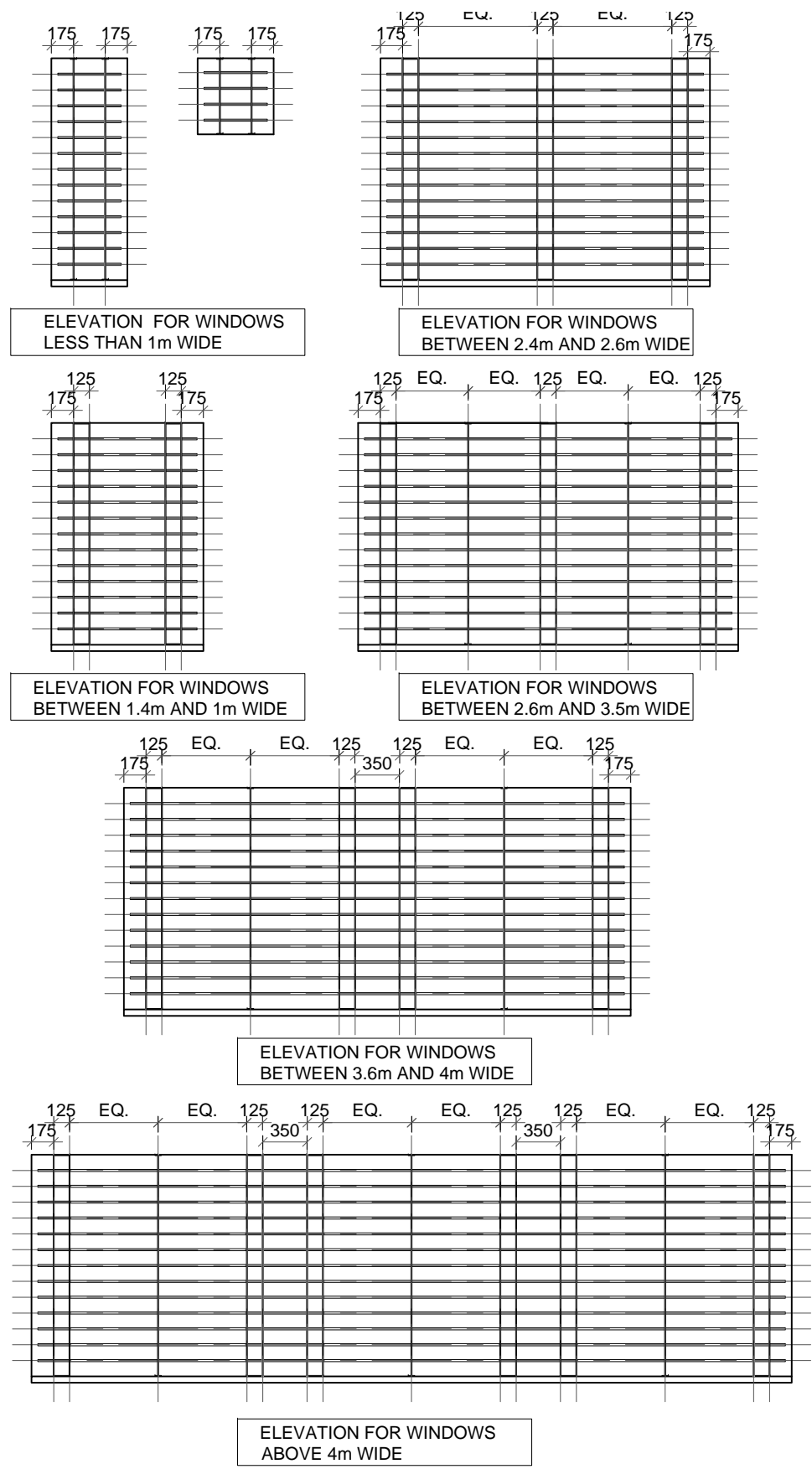
D2 WINDOW GUARD RAIL ELEVATION
SCALE 1 : 25



D3 WINDOW GUARD RAIL SECTION A-A
SCALE 1 : 25



D4 WINDOW GUARD RAIL 3D ILLUSTRATIVE DRAWING
SCALE 1 : 25



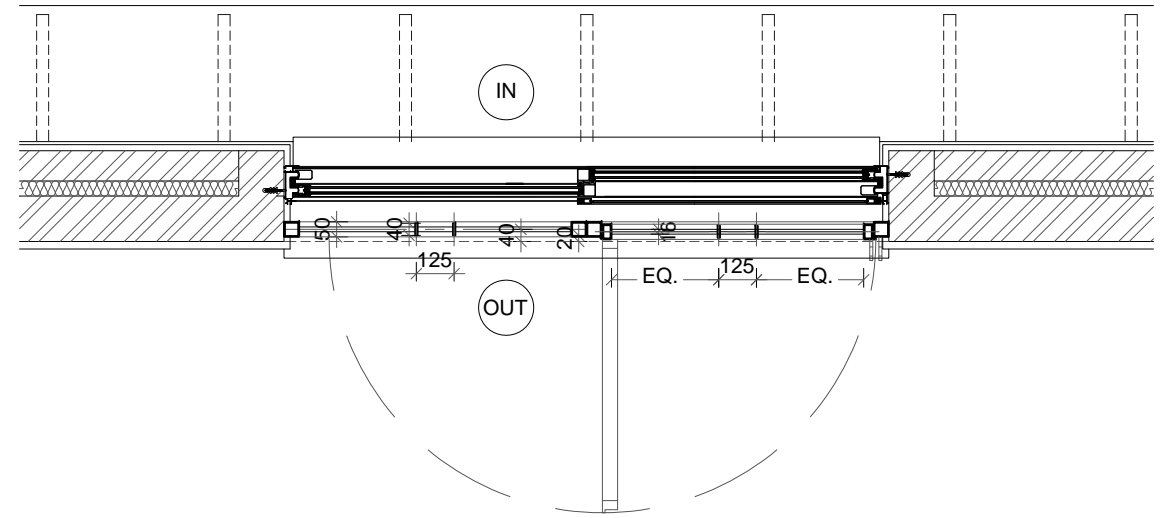
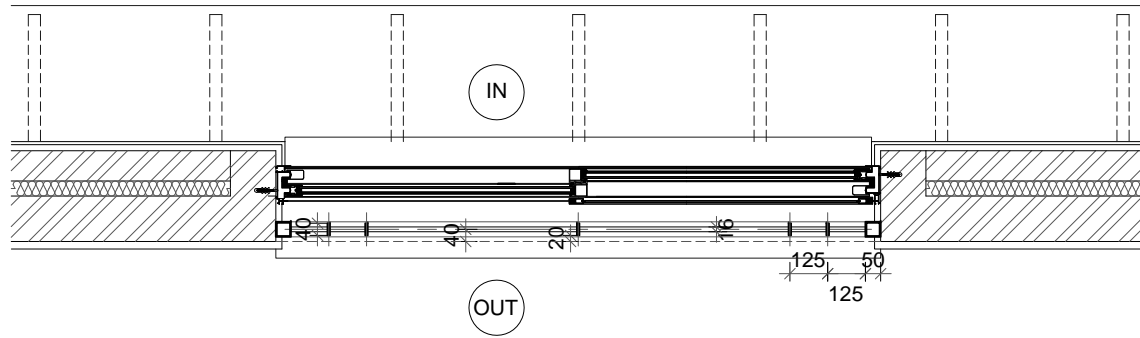
D5 WINDOW GUARD RAIL DIFFERENT ELEVATION CONFIGURATIONS
SCALE 1 : 50

REV.	DATE	REMARKS
1	APRIL 2018	MODIFY WIDTH OF VERTICAL STEEL PLATES (FROM 40mm TO 60mm)



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: WINDOWS GUARD RAIL DETAILS	Design: H.B.	Drawn: Engicon	REVISION No. : 0
	Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-05
	Date: June 2020	SCALE : AS SHOWN	

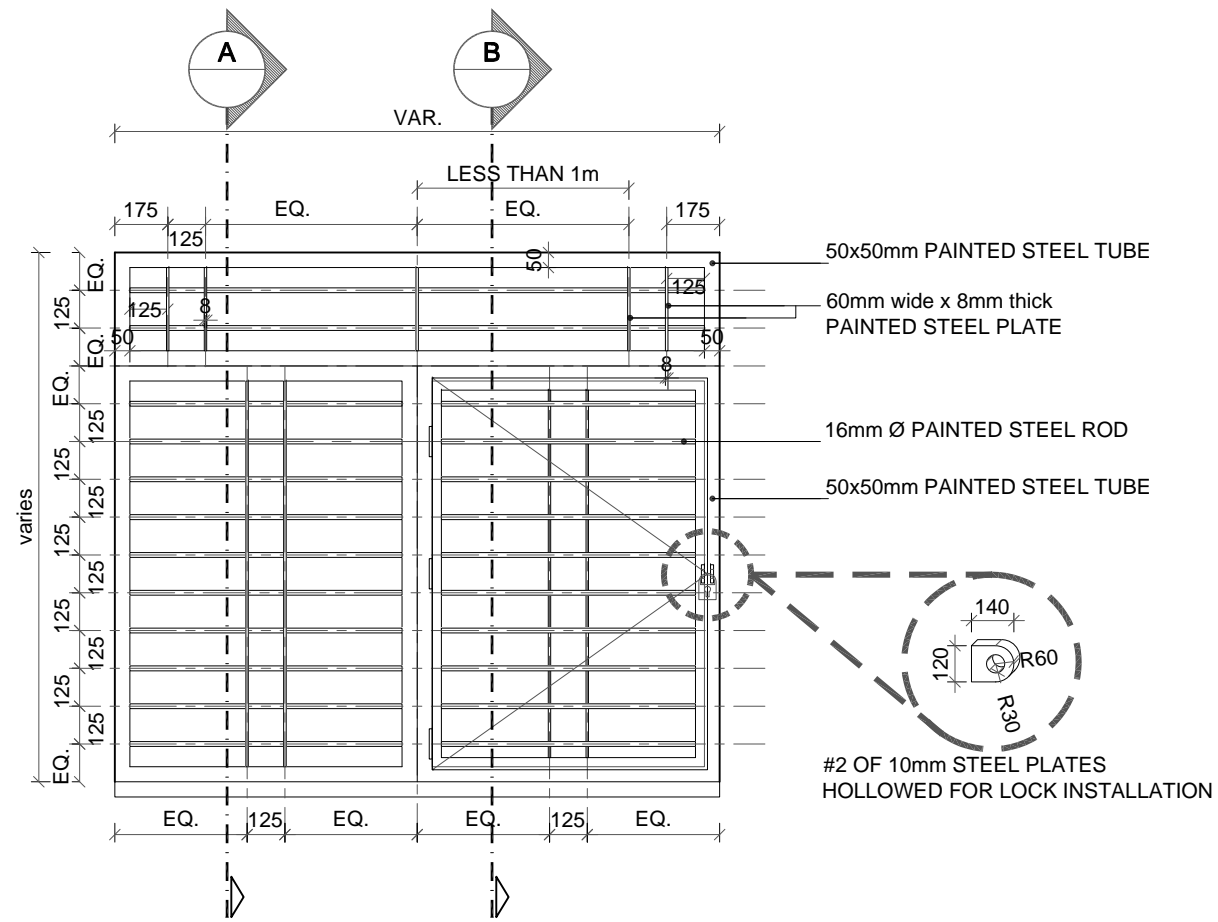


**CANTEEN WINDOW GUARD RAIL
PLAN OF UPPER FIXED PANEL**

D1 SCALE 1 : 25

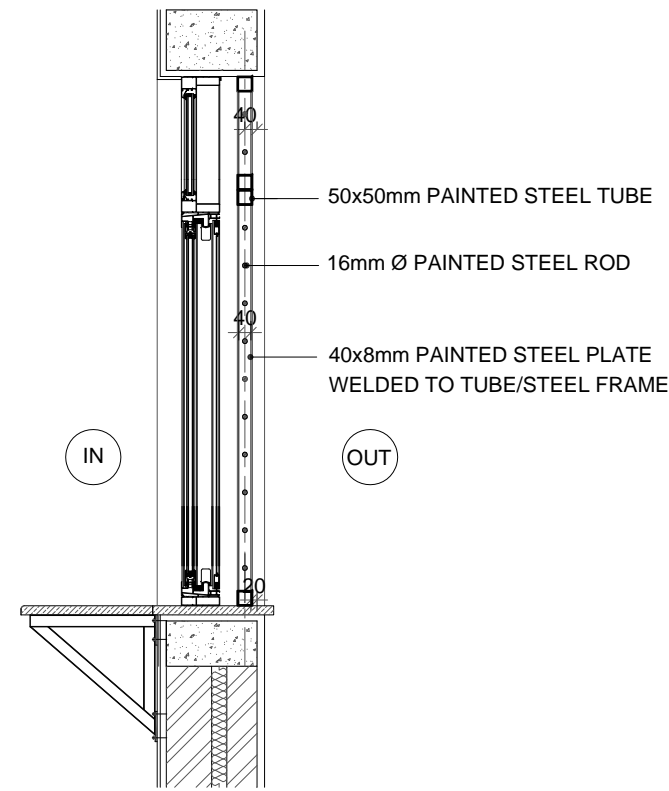
**CANTEEN WINDOW GUARD RAIL
PLAN OF LOWER FIXED AND HINGED PANELS**

D2 SCALE 1 : 25



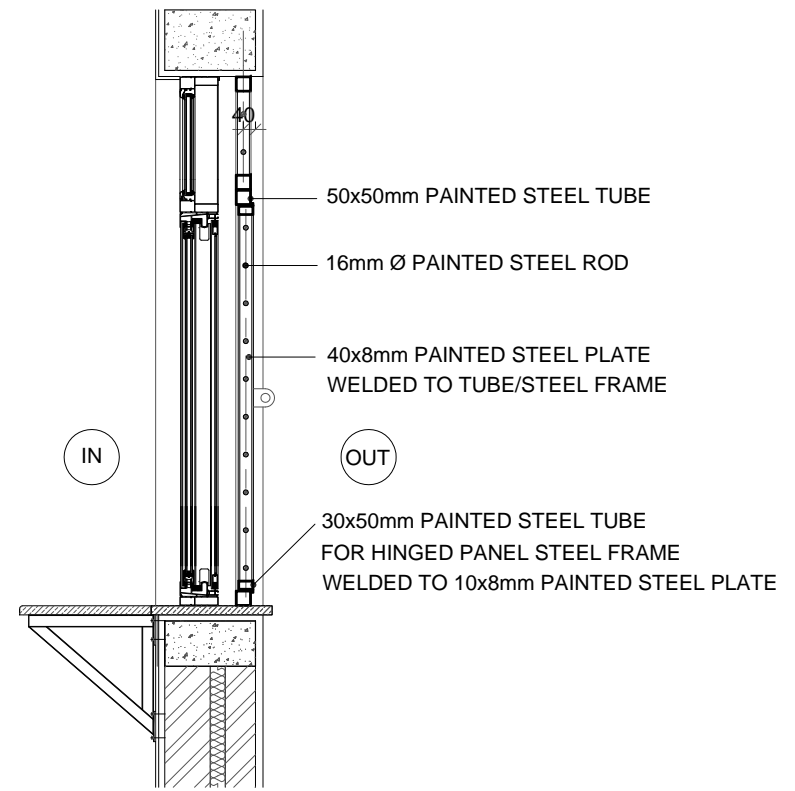
**CANTEEN WINDOW
GUARD RAIL- ELEVATION**

D3 SCALE 1 : 25



**CANTEEN WINDOW
GUARD RAIL- SECTION A-A**

D4 SCALE 1 : 25



**CANTEEN WINDOW
GUARD RAIL- SECTION B-B**

D5 SCALE 1 : 25

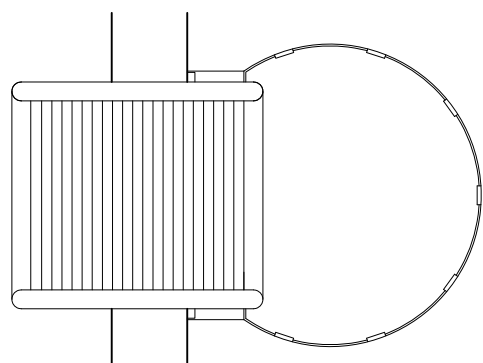
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
**CANTEEN WINDOW
GUARD RAIL DETAILS**

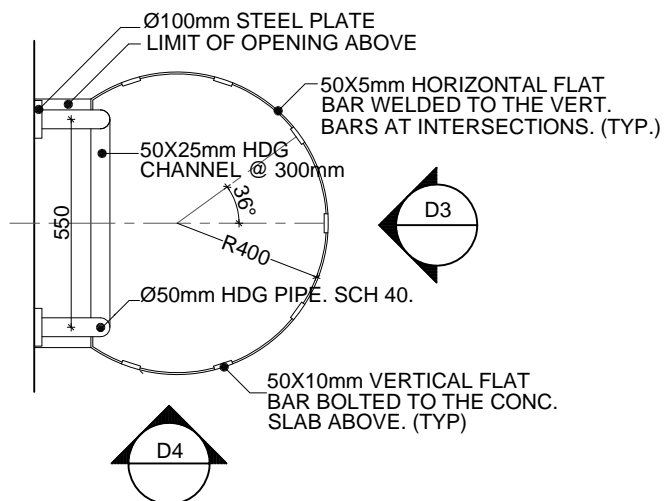
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-06
Date: June 2020	SCALE : 1 : 25	



**ACCESS LADDER
PLAN ON TOP OF ROOF**

D1

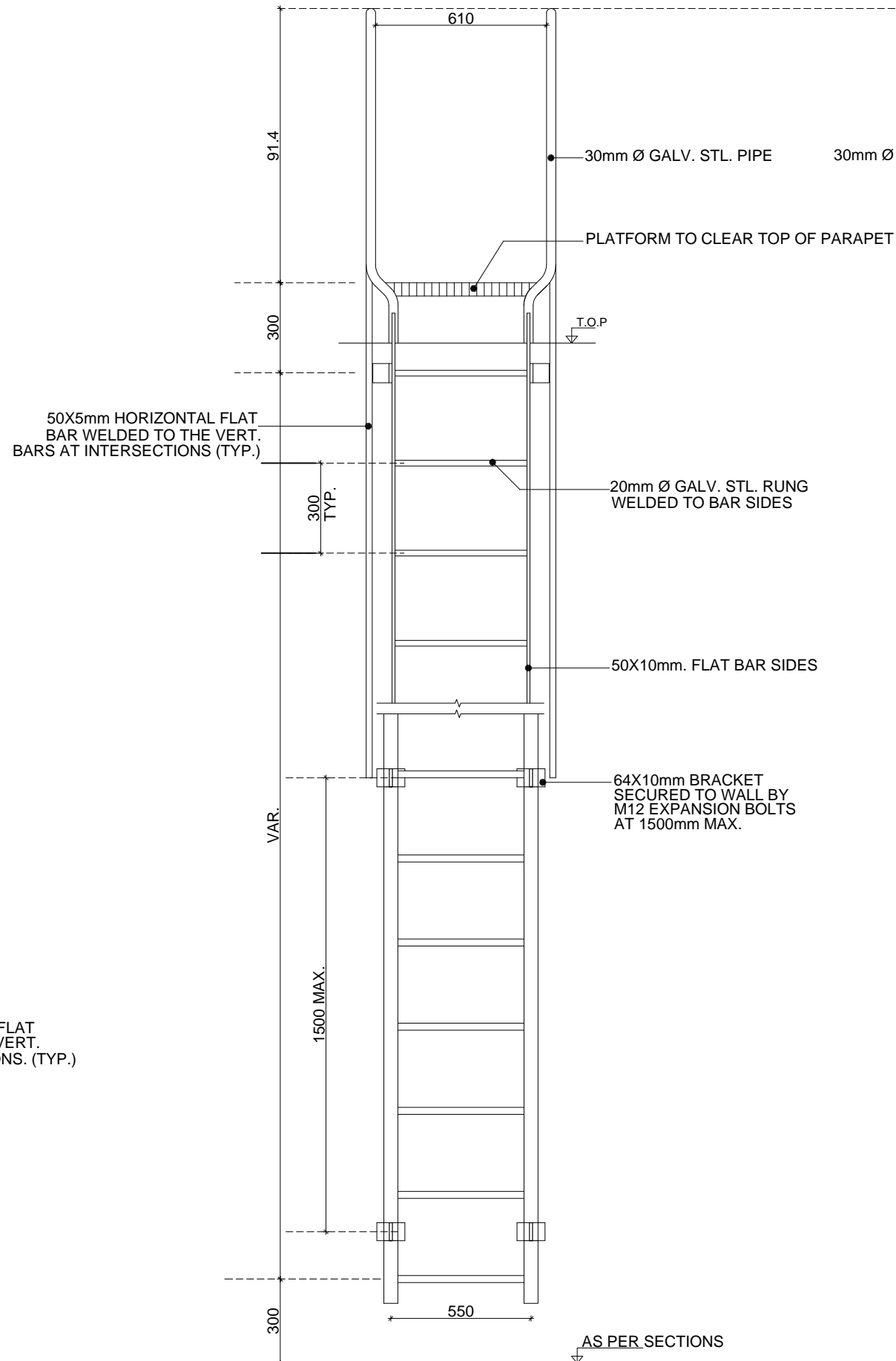
SCALE 1 : 20



ACCESS LADDER PLAN

D2

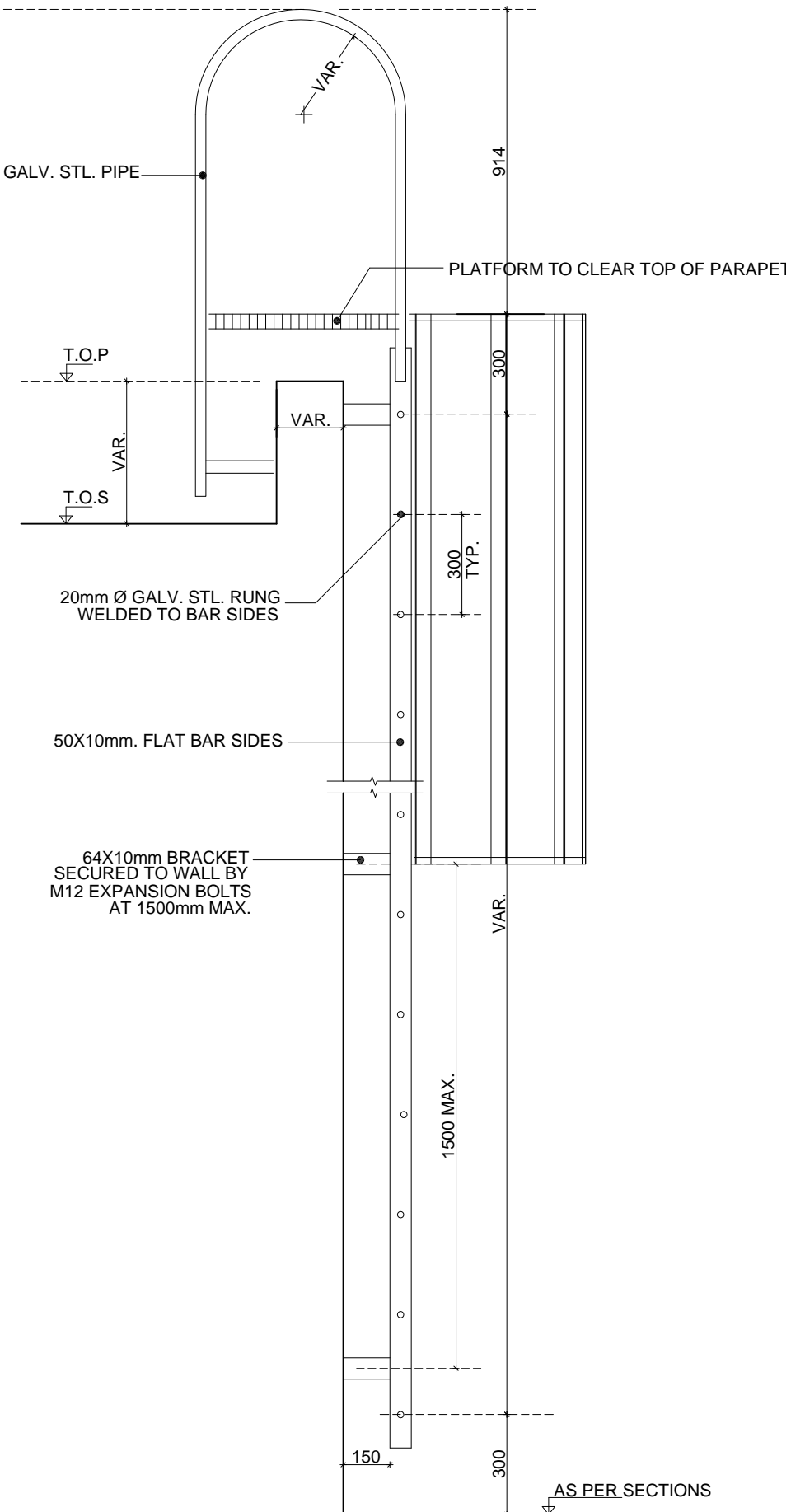
SCALE 1 : 20



ACCESS LADDER FRONT ELEVATION

D3

SCALE 1 : 20



ACCESS LADDER SIDE ELEVATION

D4

SCALE 1 : 20

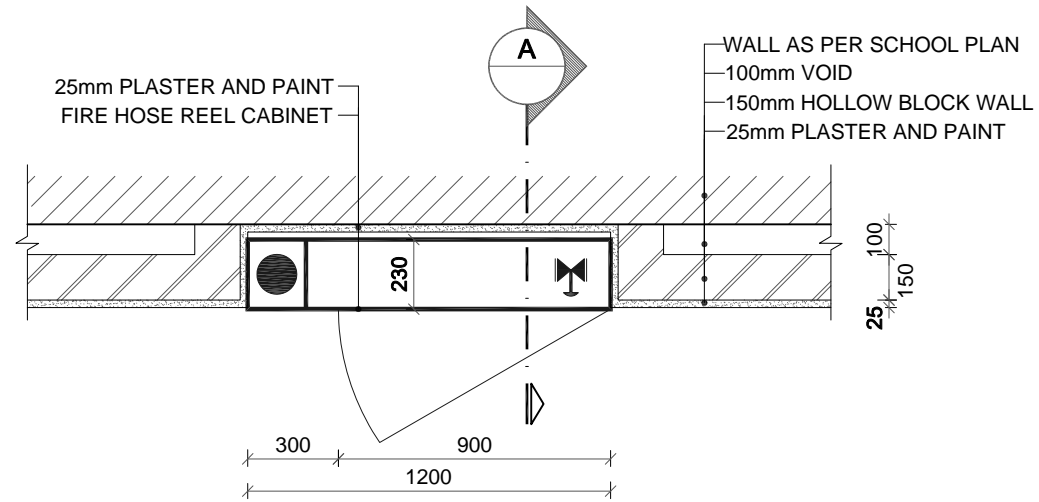
REV.	DATE	REMARKS



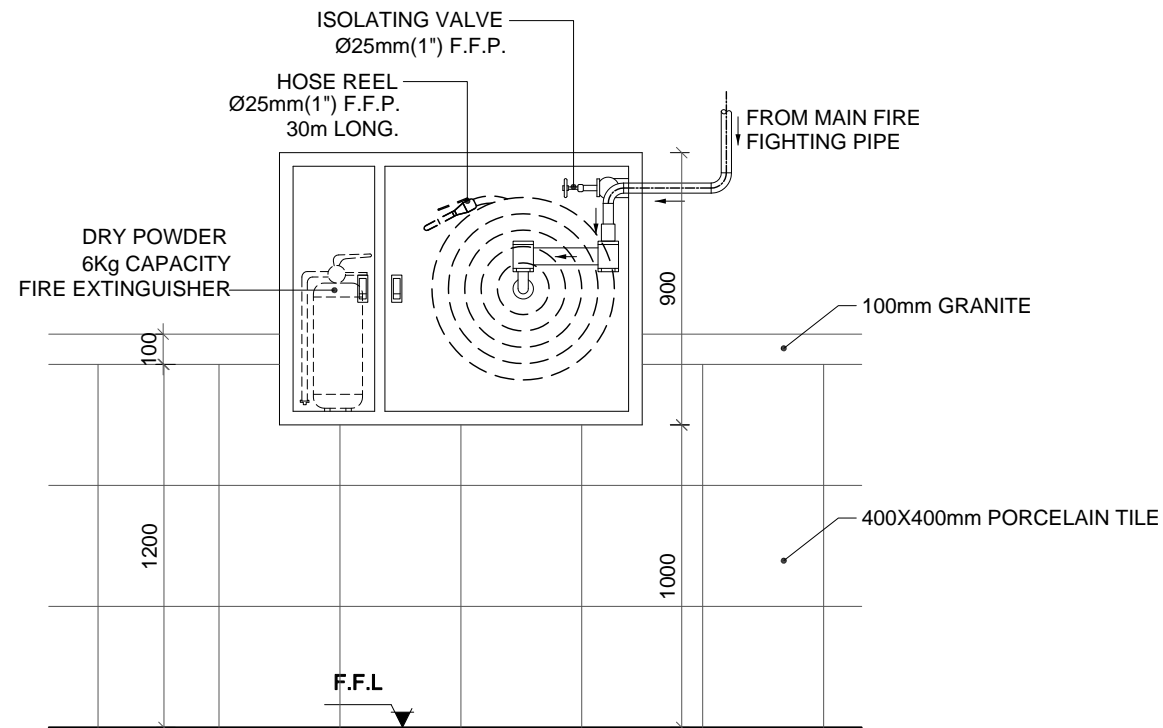
BOOK OF DETAILS

SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

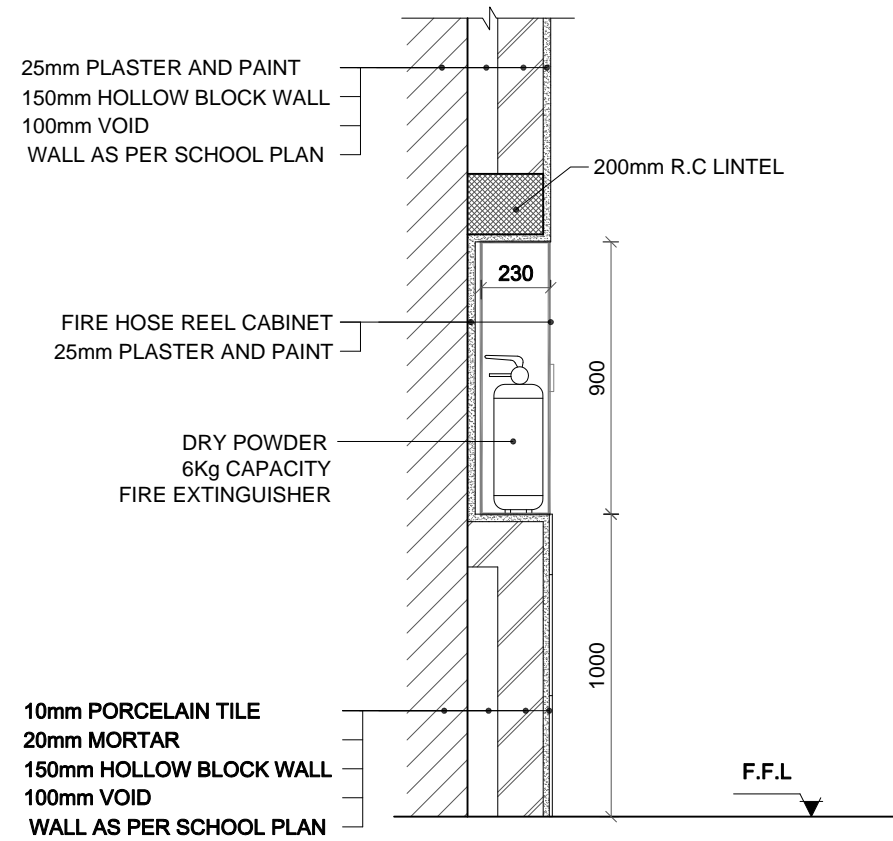
DRAWING NAME:		DESIGN:	DRAWN:	REVISION No.:
ACCESS LADDER DETAIL		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	MCD-07
		Date:	SCALE:	
		June 2020	AS SHOWN	



D1 FIRE HOSE REEL CABINET PLAN
SCALE 1 : 25



D2 FIRE HOSE REEL CABINET ELEVATION
SCALE 1 : 25



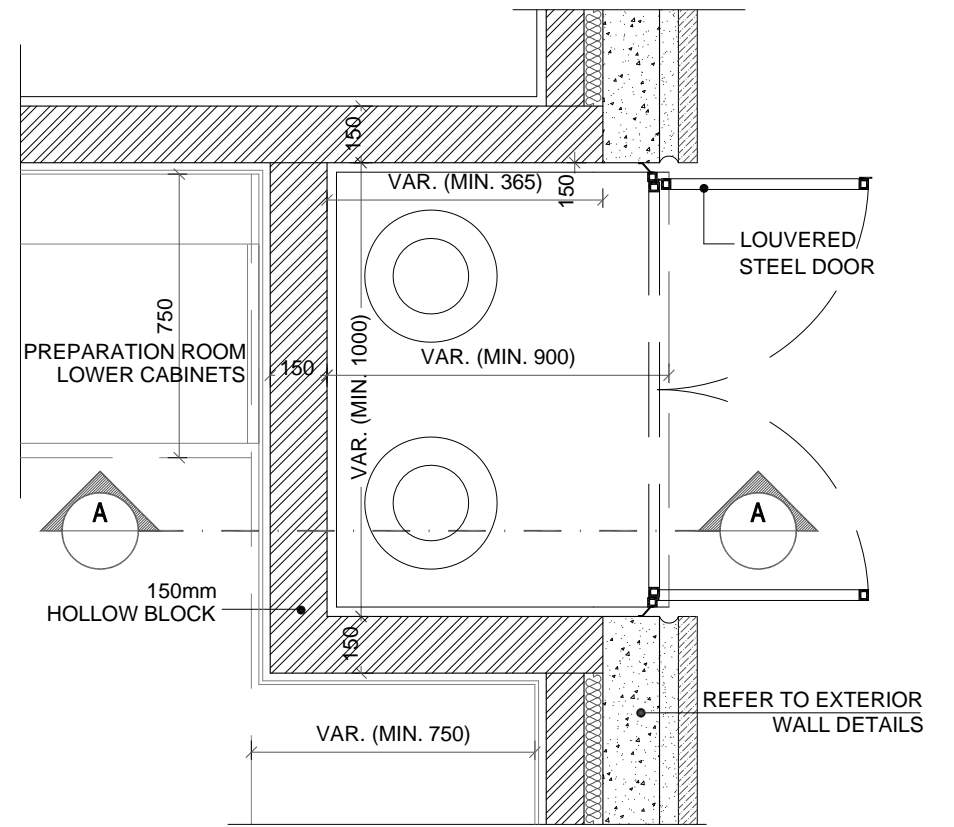
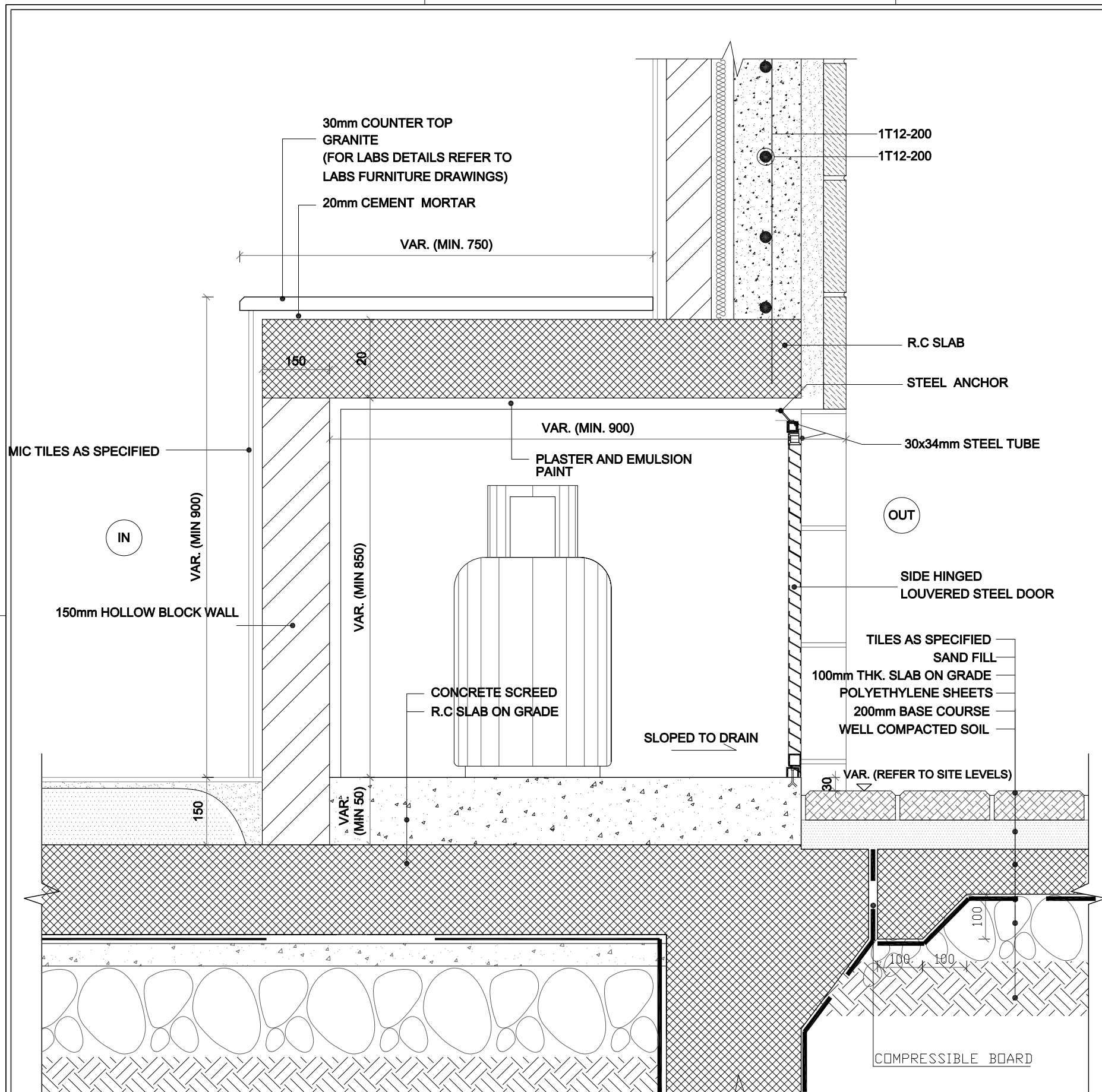
D3 FIRE HOSE REEL CABINET- SECTION A-A
SCALE 1 : 25

REV.	DATE	REMARKS

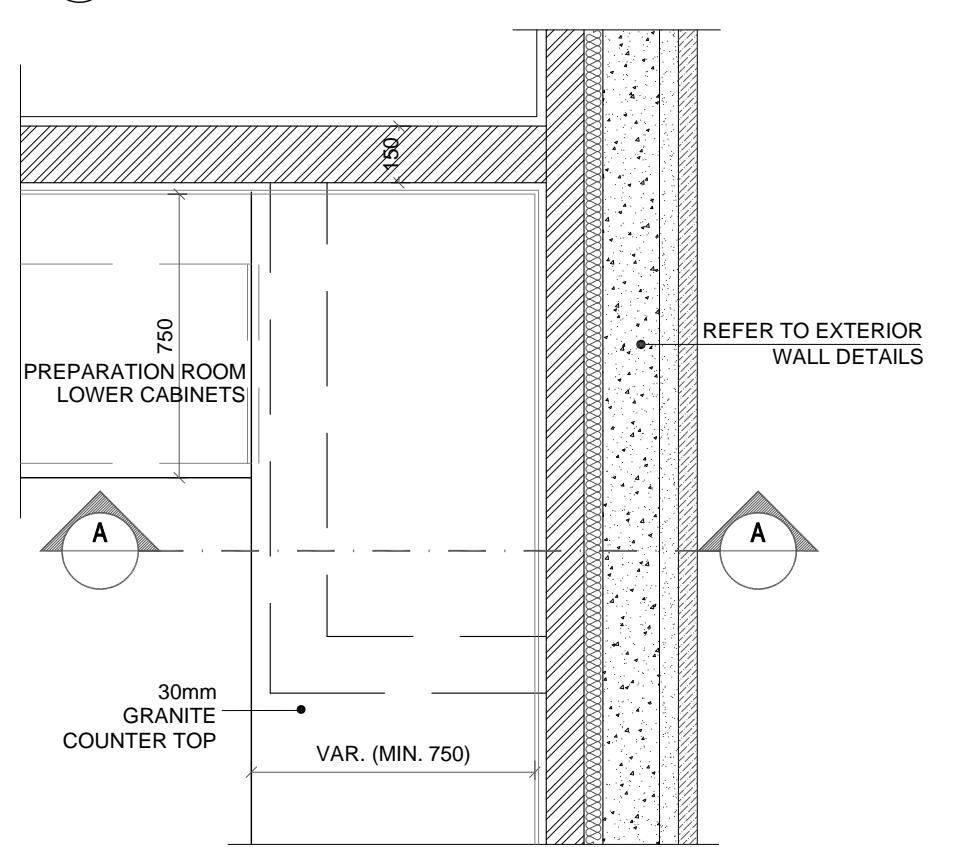


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		REVISION No. :
FIRE HOSE REEL CABINET DETAIL		0
Design:	Drawn:	SHEET NUMBER:
H.B.	Engicon	MCD-08
Checked:	Approved:	
M.Sh.	S.B.	
Date:	SCALE :	
June 2020	1: 25	

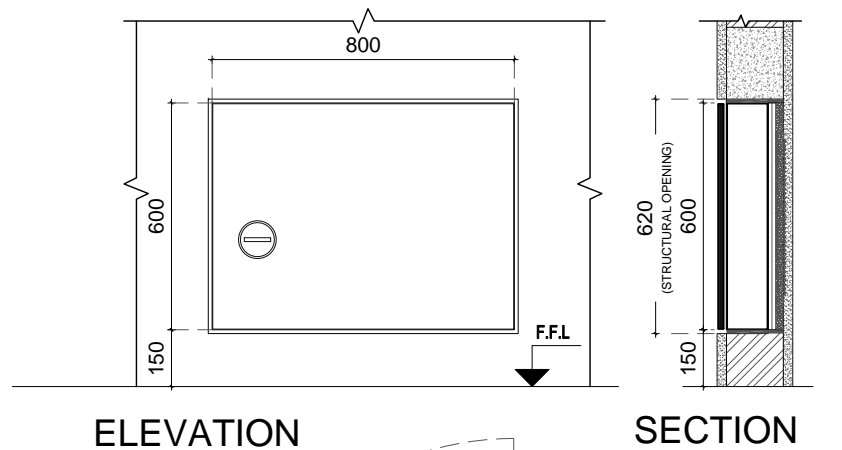


**GAS CLOSET IN PREPERATION ROOM
PLAN BELOW COUNTER TOP**
D1 SCALE 1 : 20



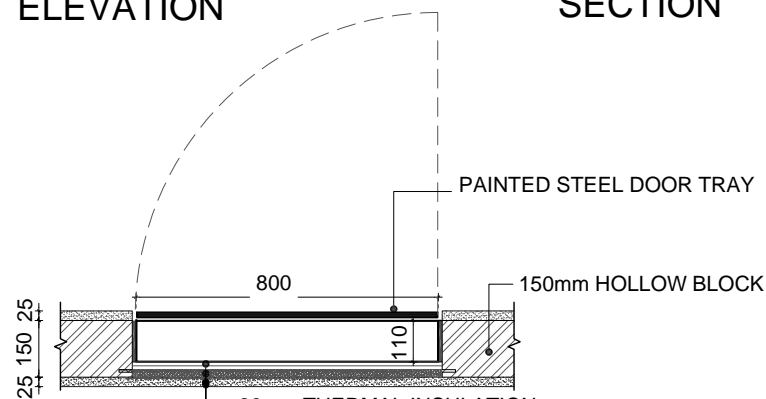
**GAS CLOSET IN PREPERATION ROOM
PLAN ABOVE COUNTER TOP**
D2 SCALE 1 : 20

**GAS CLOSET IN PREPERATION ROOM
VERTICAL WALL SECTION A-A**
D3 SCALE 1 : 10



ELEVATION

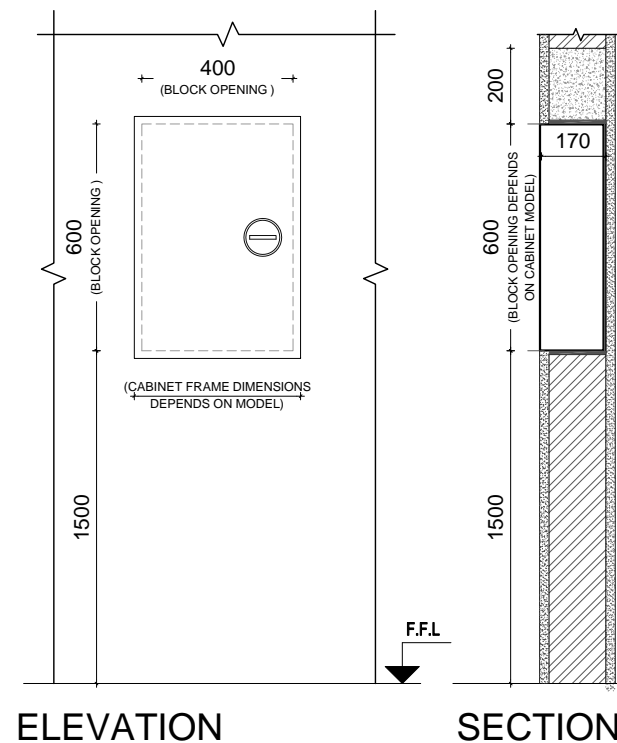
SECTION



PLAN

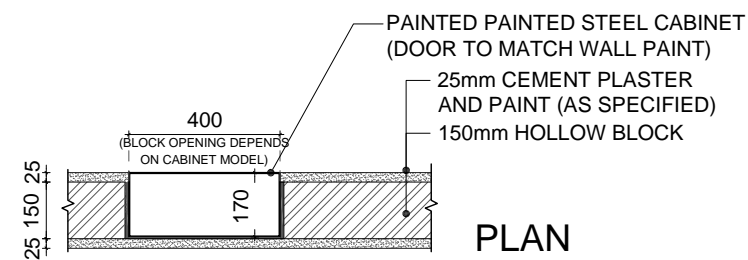
- 30mm THERMAL INSULATION.
- 1 LAYER OF HEAVY METAL LATH (AS SPECIFIED) COVERING THE THERMAL INSULATION AND FIXED TO WALL AT SIDES.
- 20mm BASE COAT CEMENT PLASTER TO RECEIVE FINISH COAT (AS SPECIFIED)
- 2nd LAYER OF HEAVY METAL LATH (AS SPECIFIED)
- 25mm SAND CEMENT PLASTER & PAINT (FINISH COAT)

D1 WATER CABINET
SCALE 1 : 20



ELEVATION

SECTION



PLAN

D2 DISTRIBUTION BOARDS PANEL
SCALE 1 : 20

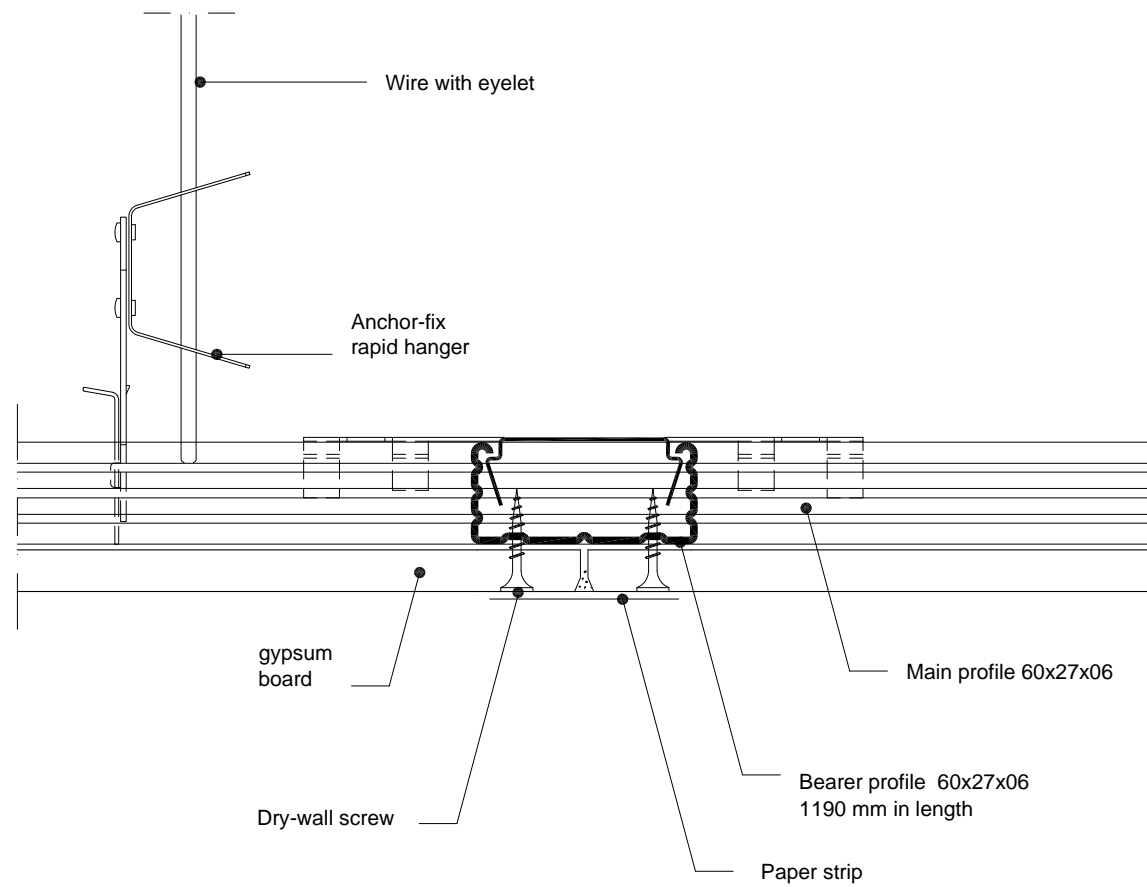
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
BUILT IN MECHANICAL
AND ELECTRICAL CABINETS

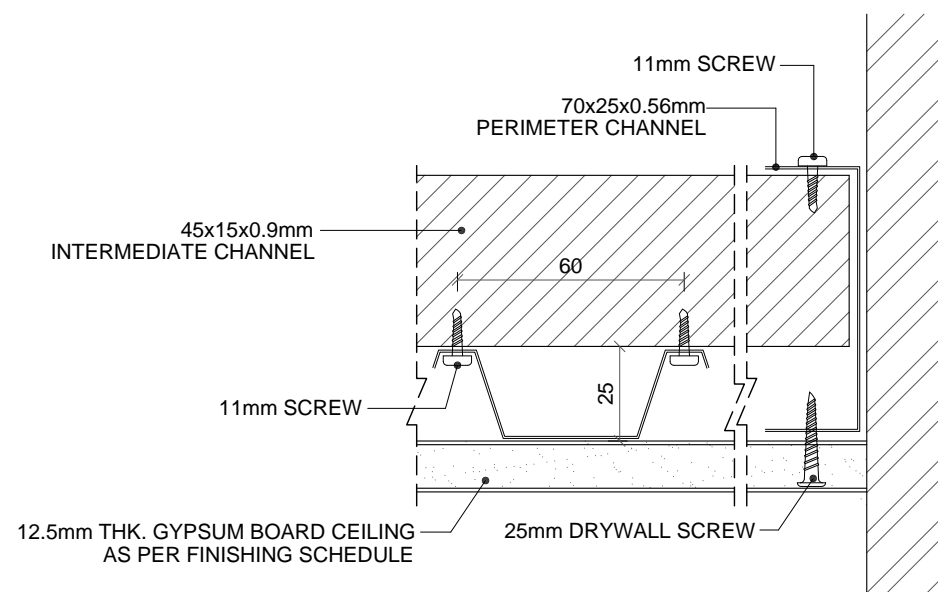
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-10
Date: June 2020	SCALE : 1: 20	



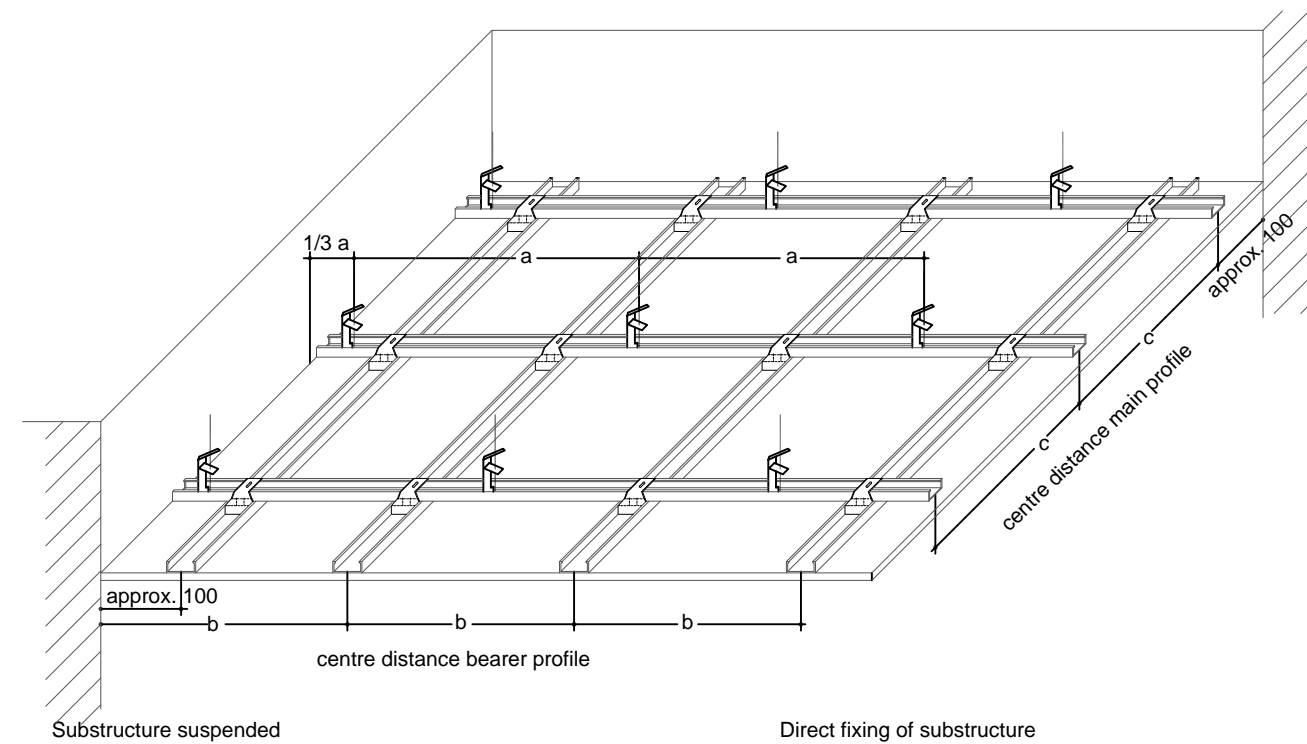
SPANS			
Board type	Thickness mm	Distance between corss battens	
		Transversal laying - b -	longitud. laying - b -
Gypsum Boards	12.5	500	420
	15	550	
	18	625	

DISTANCE IN THE SUBSTRUCTURE			
	Max. span (mm) Surface load p [kN/m ²]		
	≤0.15	0.15<p≤0.30	0.30<p≤0.50
Hanger distance (plug distance) - a -	900	750	600
Center Distance main profile - c -	1000		750

D1 SUBSTRUCTURE SUSPENDED BUTT EDGES CHAMFERED
SCALE 1 : 2



D2 GYPSUM BOARD EDGE DETAIL (2)
SCALE 1 : 2



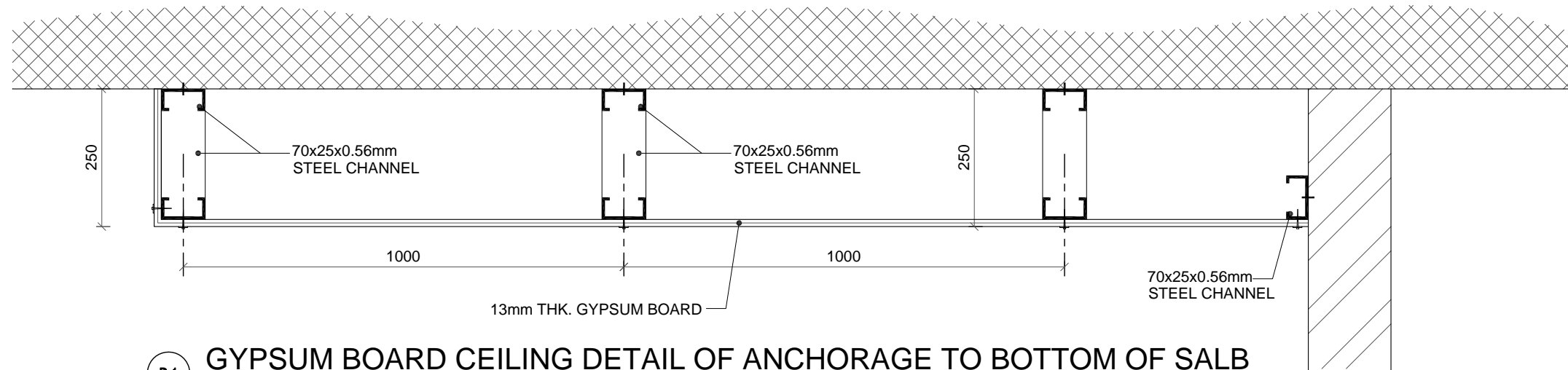
D3 GYPSUM BOARD SUBSTRUCTURE
N.T.S.

REV.	DATE	REMARKS

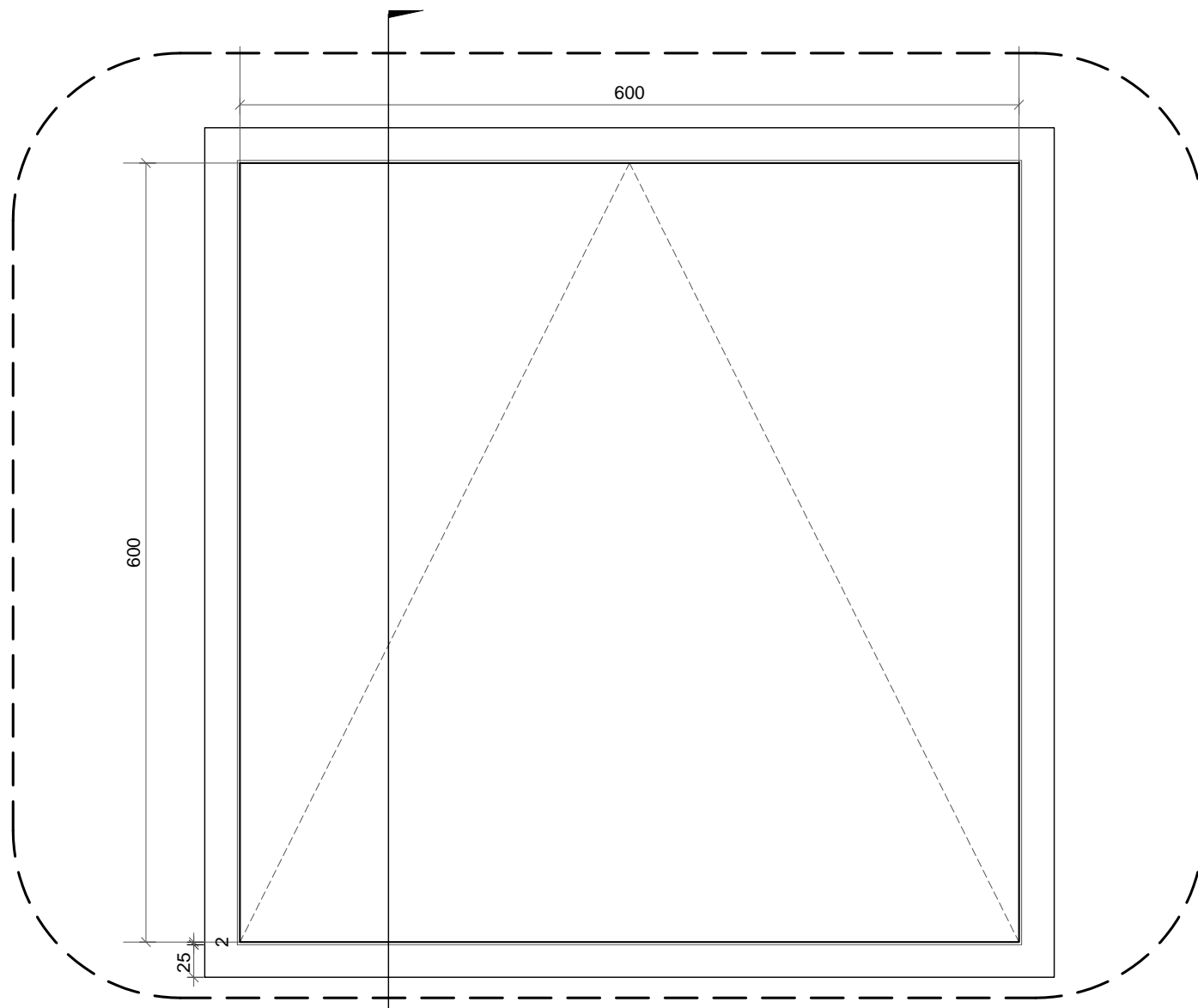


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

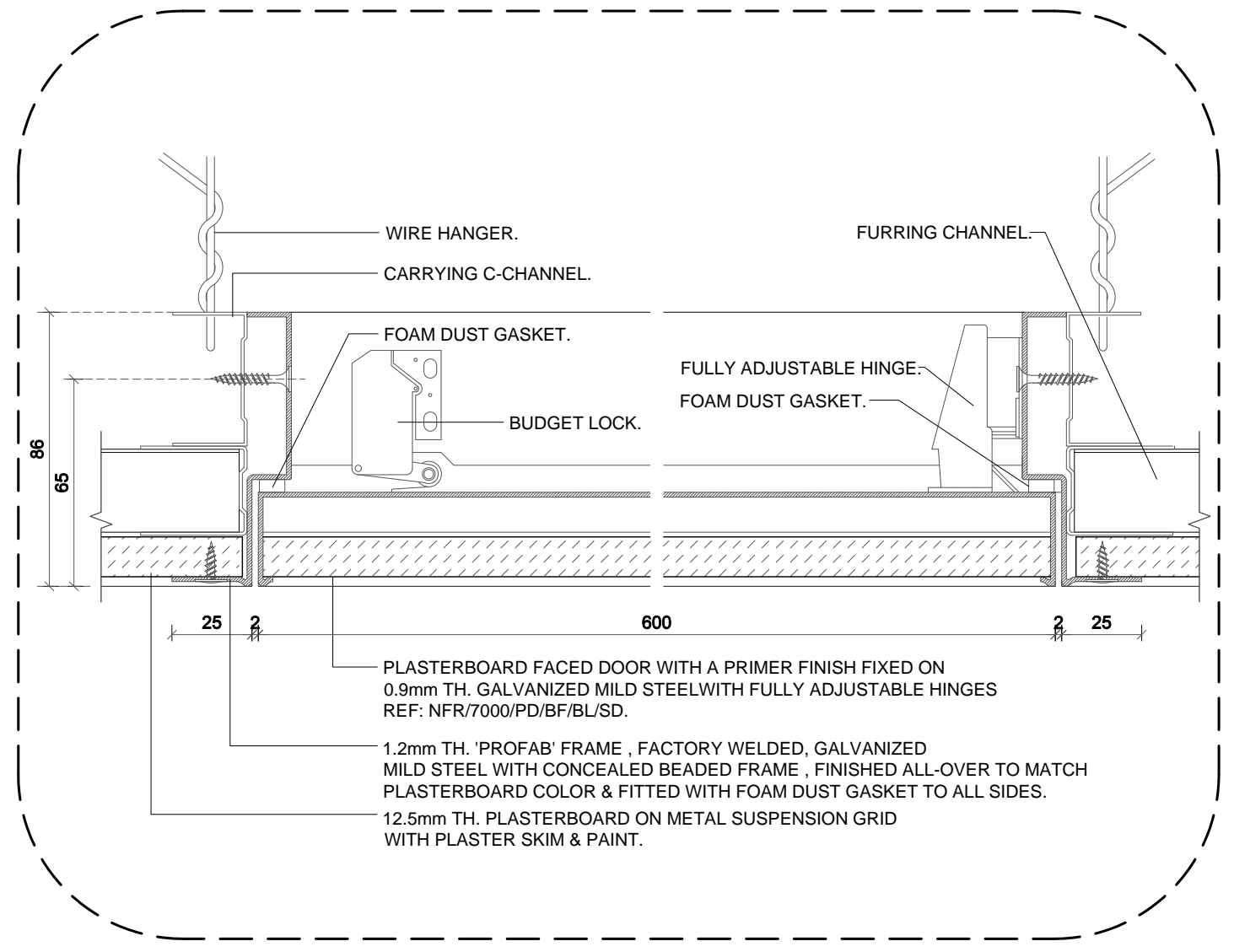
DRAWING NAME: FALSE CEILING TYPICAL DETAILS (1 OF 3)		Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	Date: June 2020	SCALE : AS SHOWN	SHEET NUMBER: MCD-11



D1 GYPSUM BOARD CEILING DETAIL OF ANCHORAGE TO BOTTOM OF SALB
SCALE 1:10



D2 ACCESS PANEL PLAN AT PLASTER BOARD CEILING
SCALE 1:5



D3 ACCESS PANEL SECTION DETAIL THROUGH PLASTER BOARD CEILING
SCALE 1:2

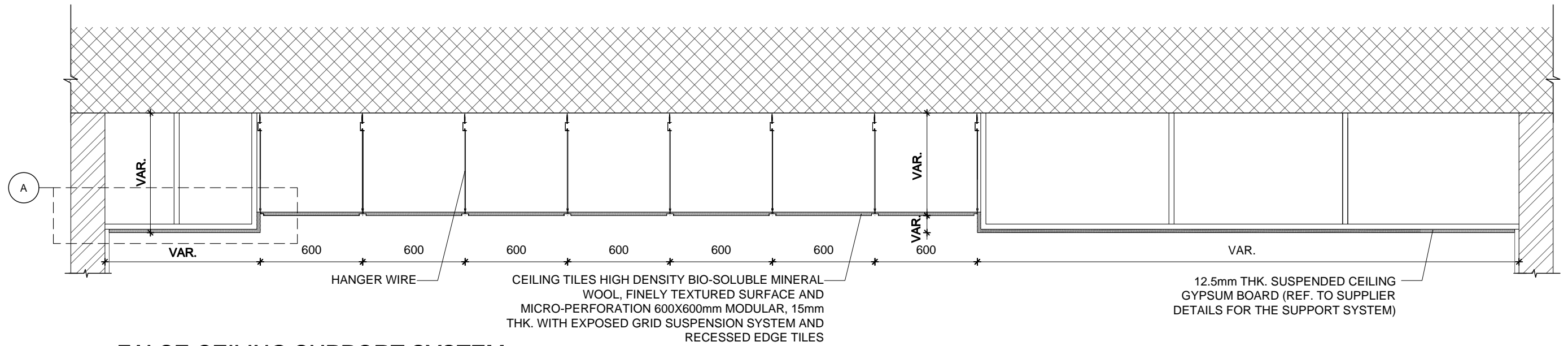
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

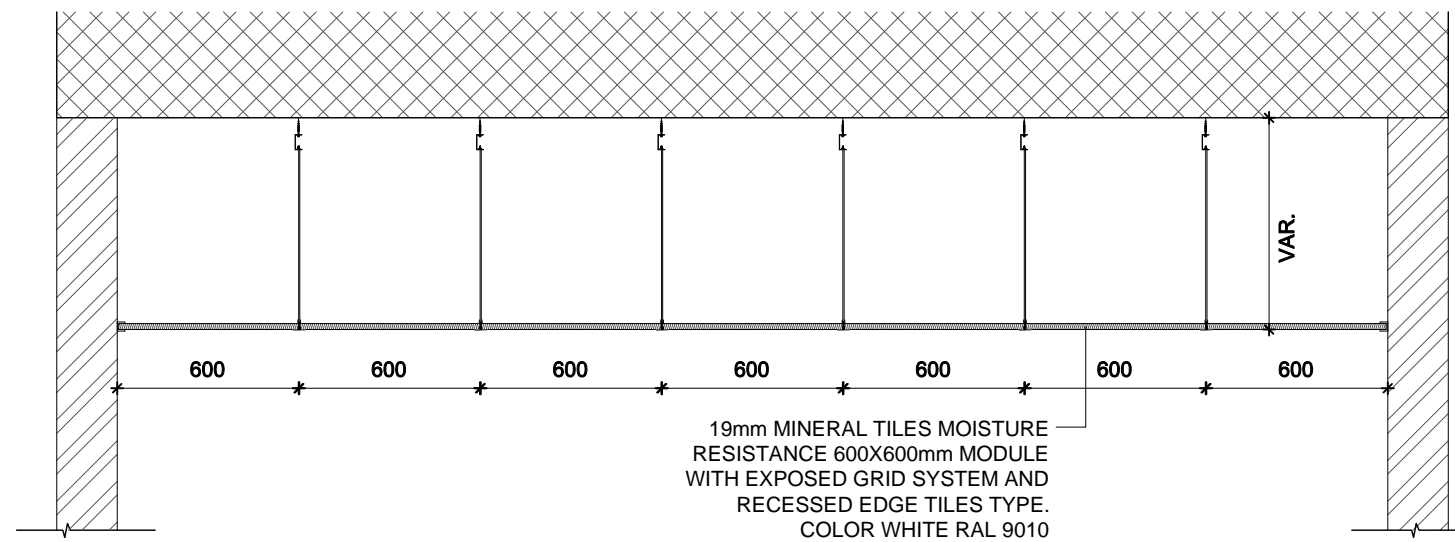
DRAWING NAME:
FALSE CEILING TYPICAL DETAILS (2 OF 3)

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-12
Date: June 2020	SCALE: AS SHOWN	



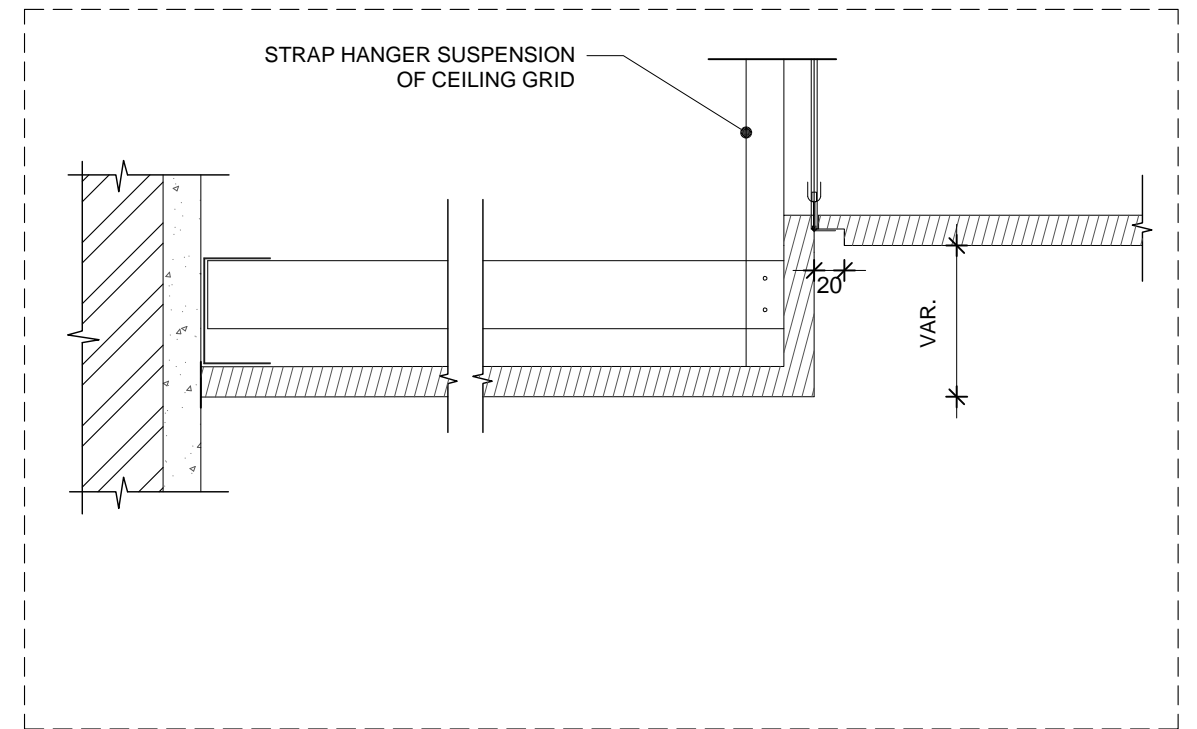
**FALSE CEILING SUPPORT SYSTEM
CONNECTION BETWEEN GYPSUM BOARD AND MINERAL FIBER TILES**

D1
SCALE 1:25



**FALSE CEILING SUPPORT SYSTEM
MINERAL TILES OF MOISTURE RESISTANCE**

D2
SCALE 1:25



**FALSE CEILING EDGE
ENLARGED DETAIL A**

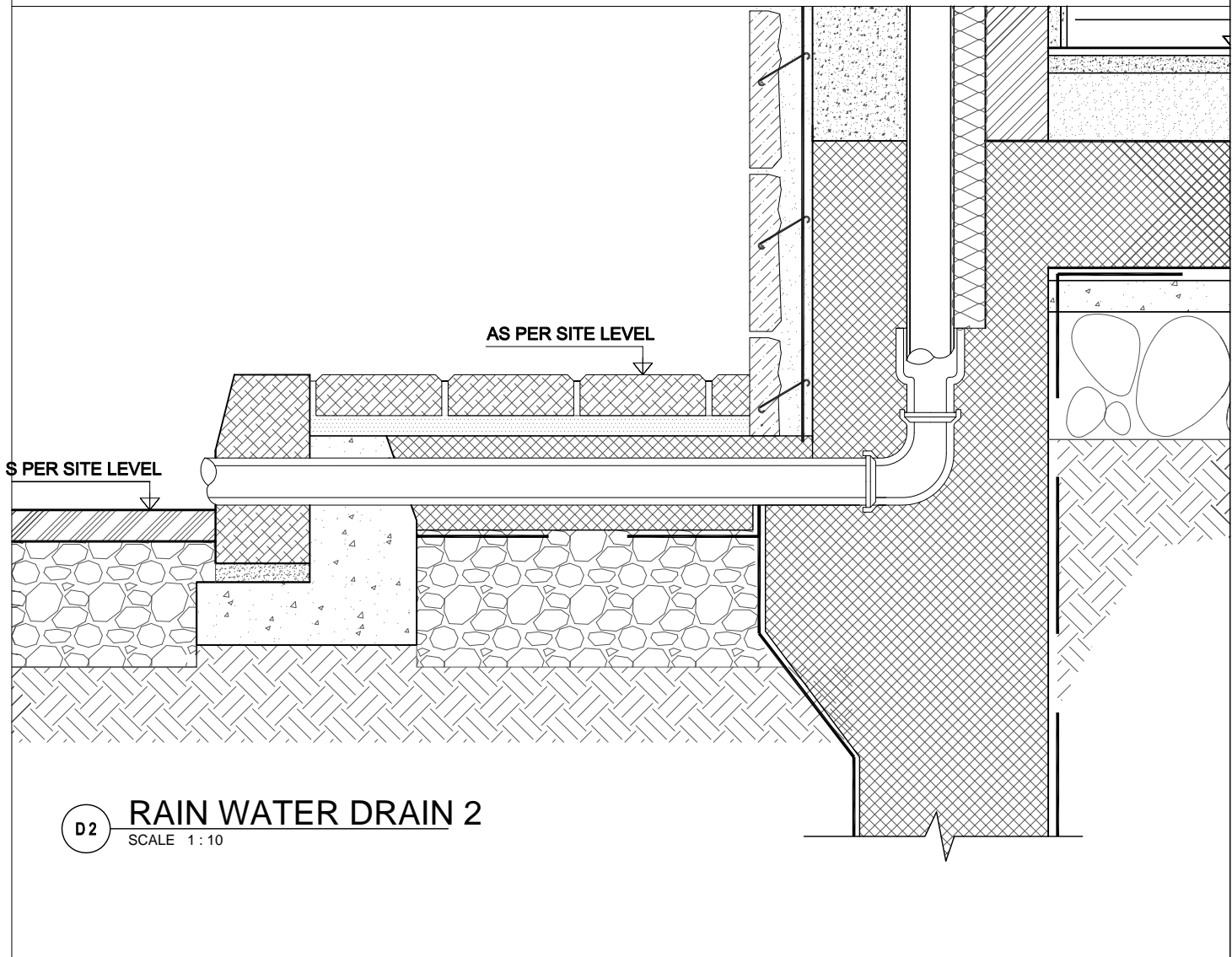
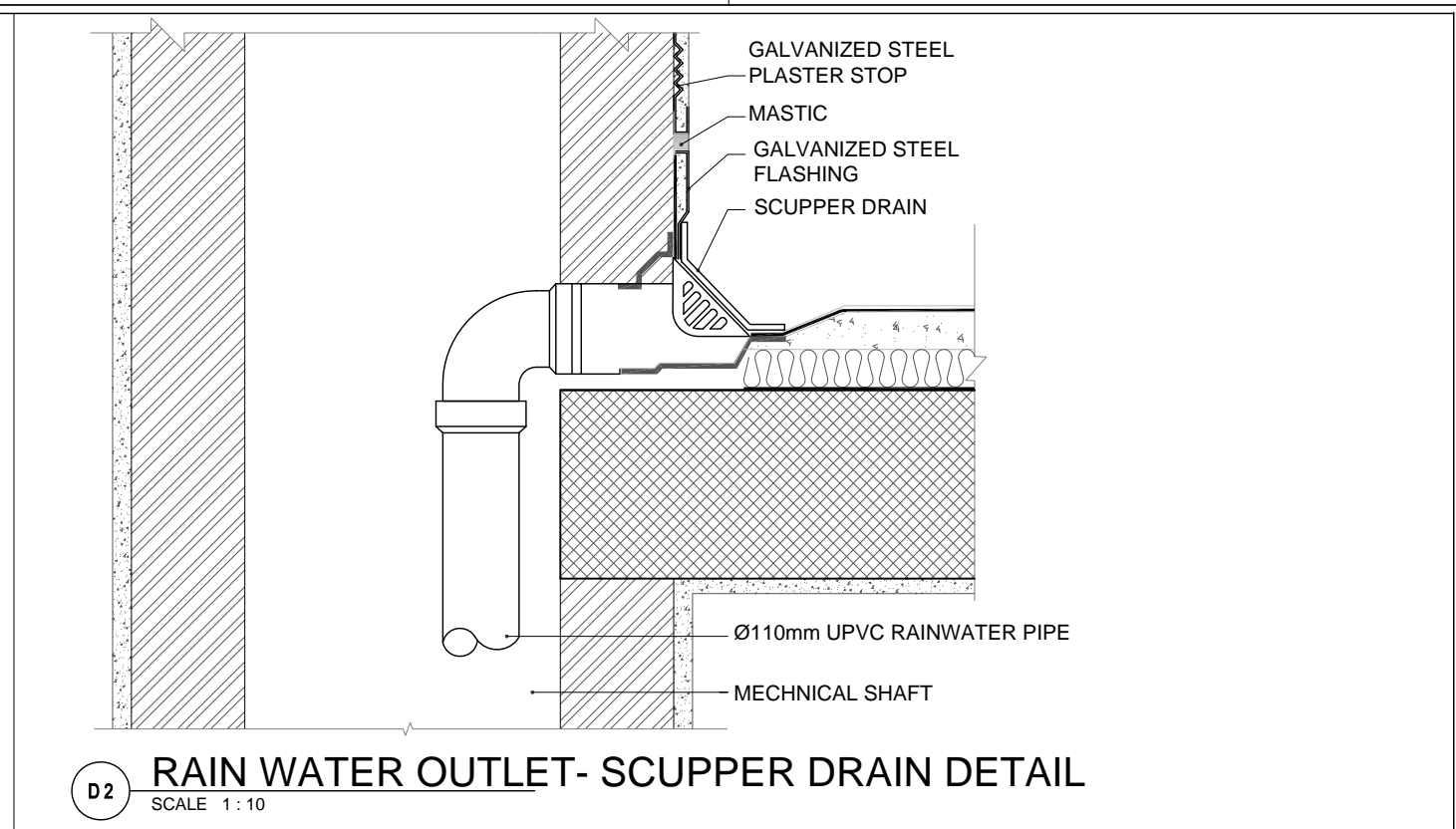
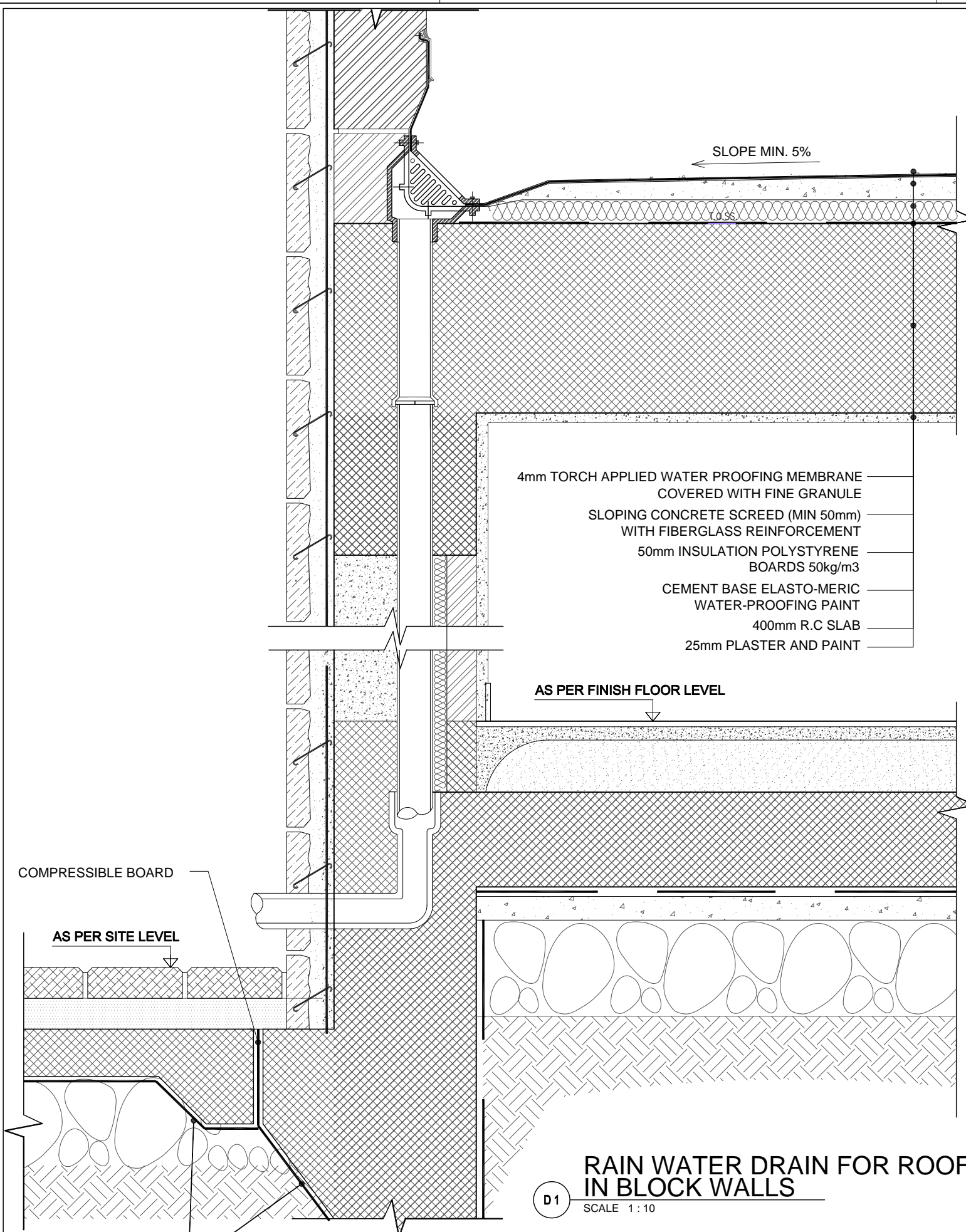
D3
SCALE 1:5

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	REVISION No.:
FALSE CEILING TYPICAL DETAILS (3 OF 3)		H.B.	0
		Engicon	
		Checked:	Approved:
		M.Sh.	S.B.
		Date:	SHEET NUMBER:
		June 2020	MCD-13
		SCALE:	
		AS SHOWN	



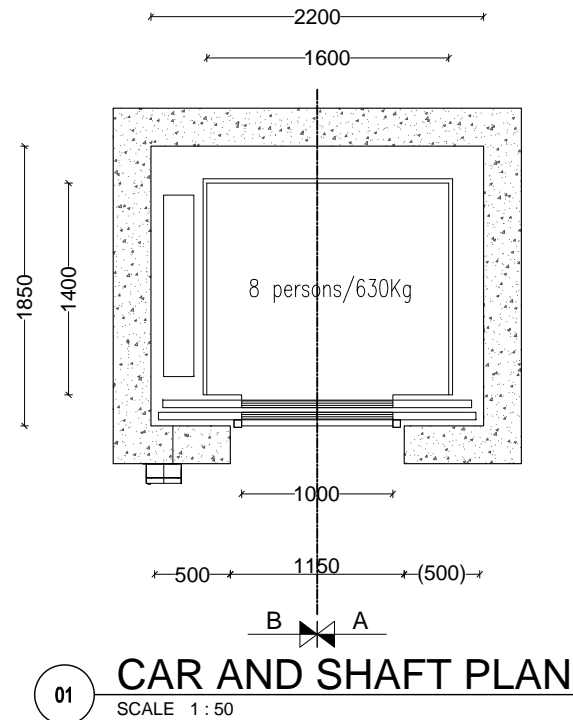
REV.	DATE	REMARKS



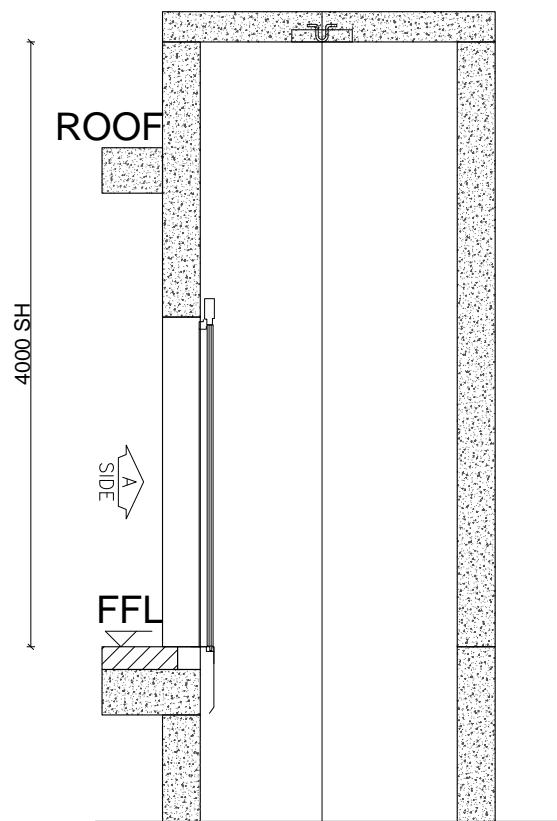
BOOK OF DETAILS

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

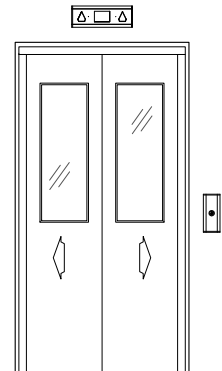
DRAWING NAME:	Design:	Drawn:	REVISION No. :
RAIN WATER DRAIN FOR ROOF	H.B.	Engicon	0
	Checked:	Approved:	SHEET NUMBER:
	M.Sh.	S.B.	MCD-14
	Date:	SCALE :	
	June 2020	1 : 10	



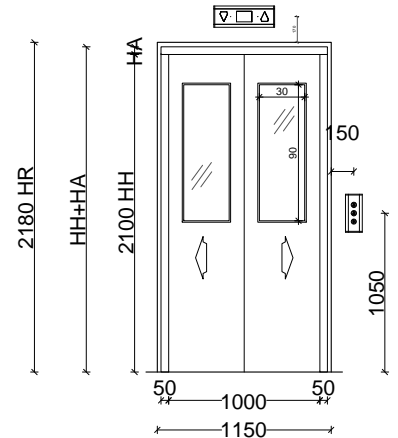
01 CAR AND SHAFT PLAN
SCALE 1 : 50



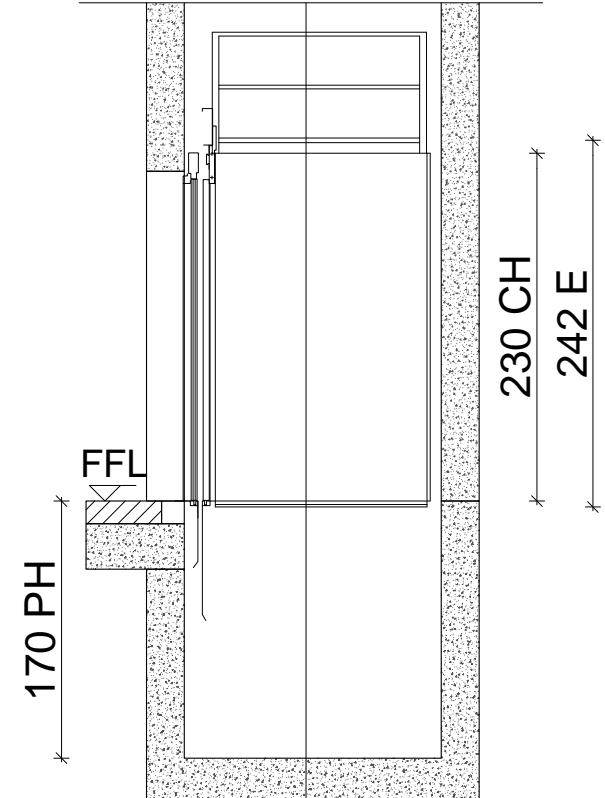
02 SECTION A-A ELEVATOR HEAD SLAB
SCALE 1 : 50



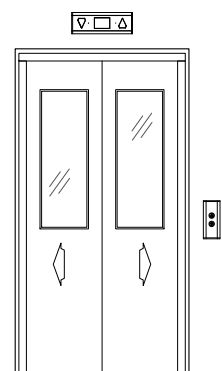
04 ENTRANCE-FLOOR 1, SIDE A
SCALE 1 : 50



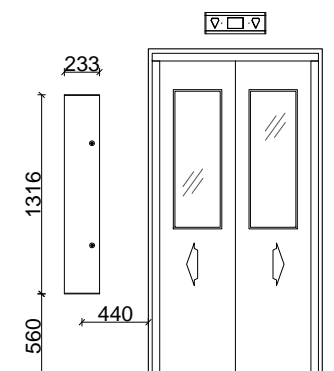
05 ENTRANCE-FLOOR 2, SIDE A
SCALE 1 : 50



03 SECTION A-A ELEVATOR PIT
SCALE 1 : 50



06 ENTRANCE-FLOOR 3, SIDE A
SCALE 1 : 50



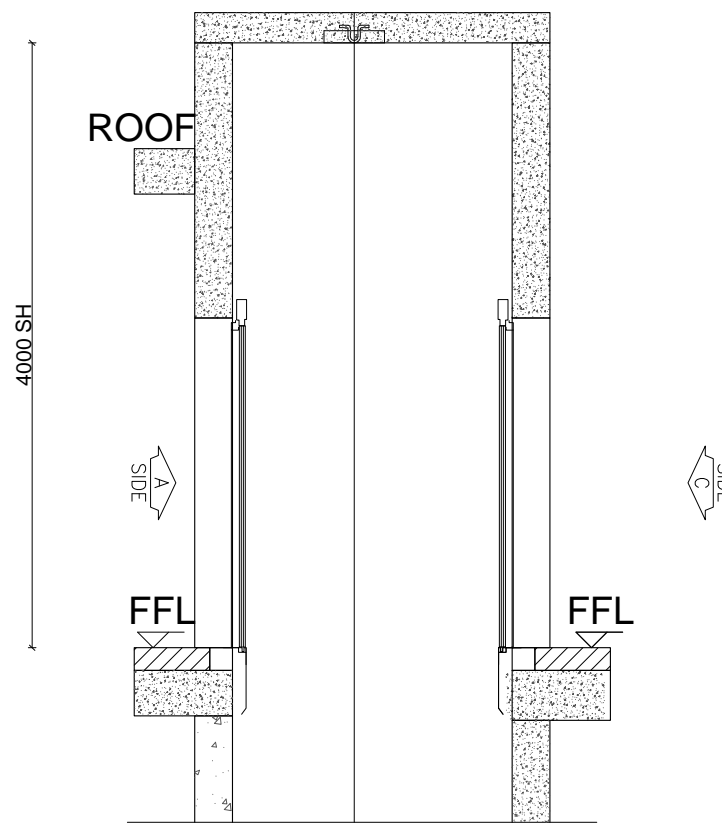
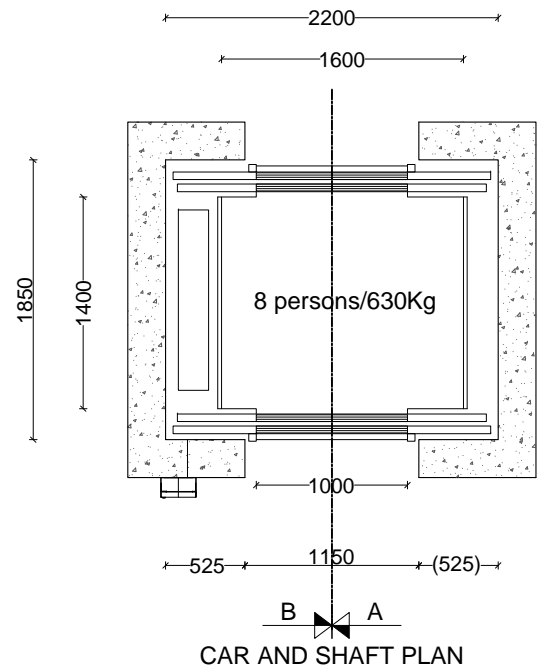
07 ENTRANCE-FLOOR 4, SIDE A
SCALE 1 : 50

REV.	DATE	REMARKS

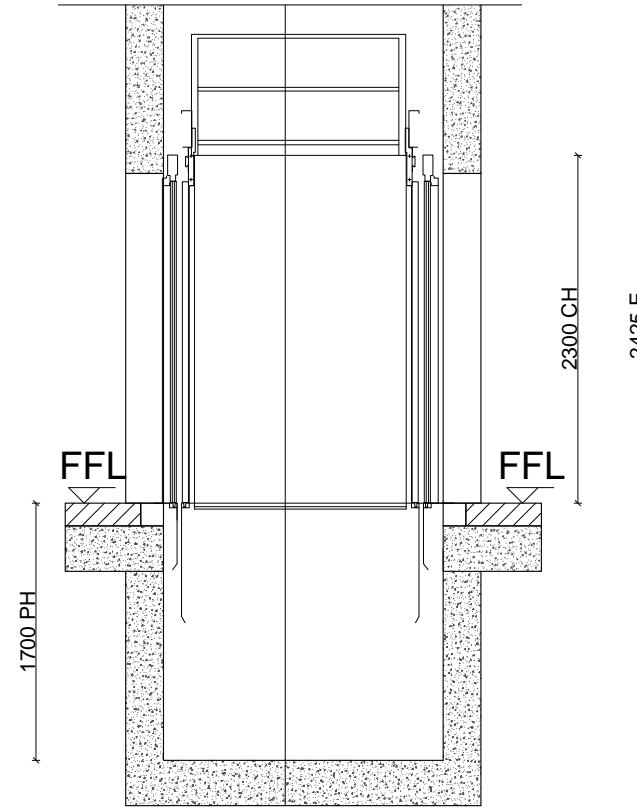


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

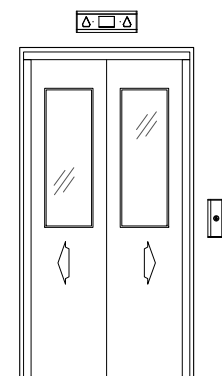
DRAWING NAME: TYPICAL ELEVATOR DETAIL WITH 1 ENTRANCE		DESIGN: H.B.	DRAWN: Engicon	REVISION No. : 0
		CHECKED: M.Sh.	APPROVED: S.B.	SHEET NUMBER: MCD-15
		DATE: June 2020	SCALE: 1: 50	



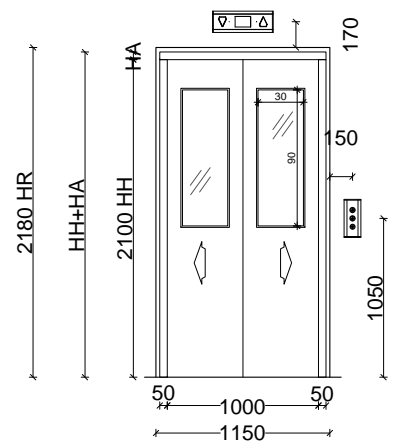
SECTION A-A
ELEVATOR HEAD SLAB
SCALE 1 : 50



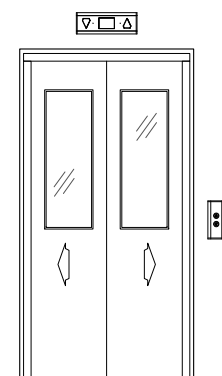
SECTION A-A
ELEVATOR PIT
SCALE 1 : 50



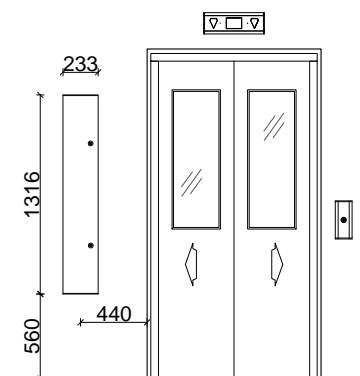
04 ENTRANCE-FLOOR 1, SIDE A
SCALE 1 : 50



05 ENTRANCE-FLOOR 2, SIDE A
SCALE 1 : 50



06 ENTRANCE-FLOOR 3, SIDE A
SCALE 1 : 50



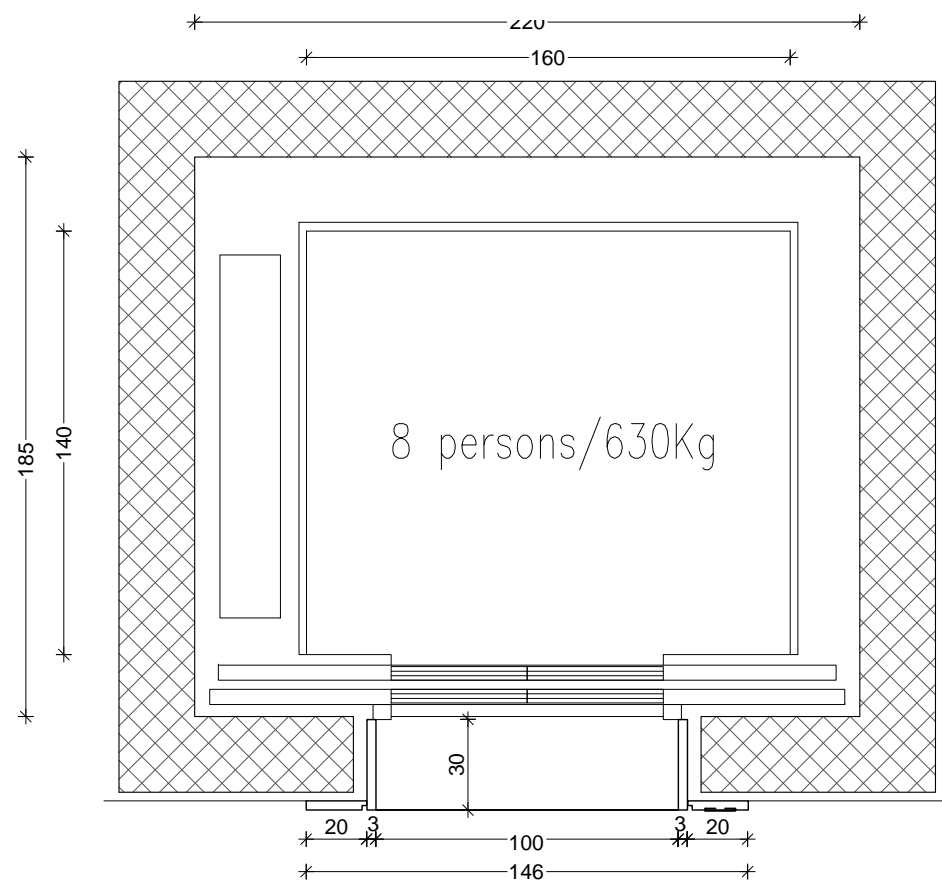
07 ENTRANCE-FLOOR 4, SIDE A
SCALE 1 : 50

REV.	DATE	REMARKS

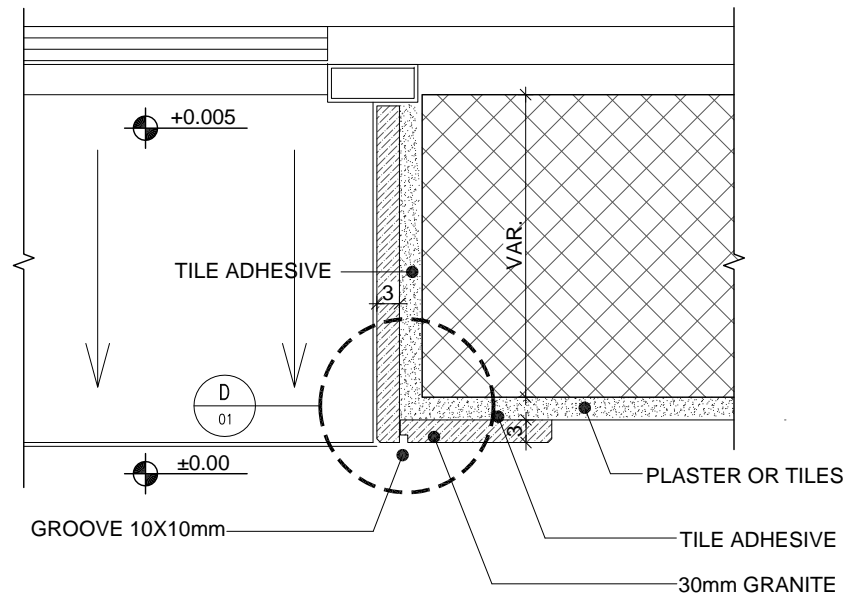


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

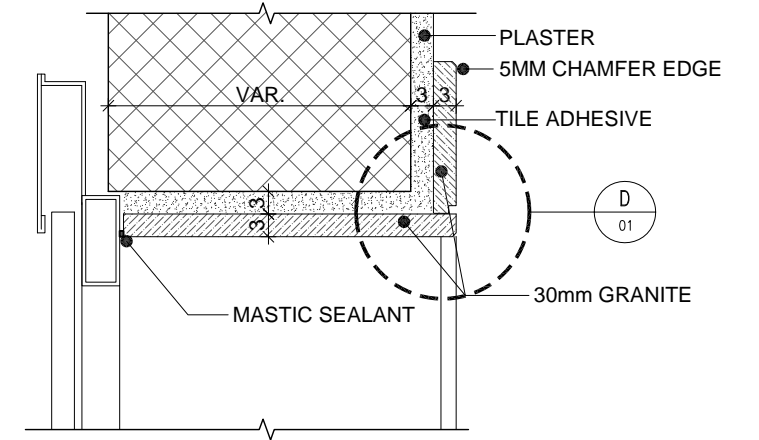
DRAWING NAME: TYPICAL ELEVATOR DETAIL WITH 2 ENTRANCES		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-16
		Date: June 2020	SCALE: 1: 50	



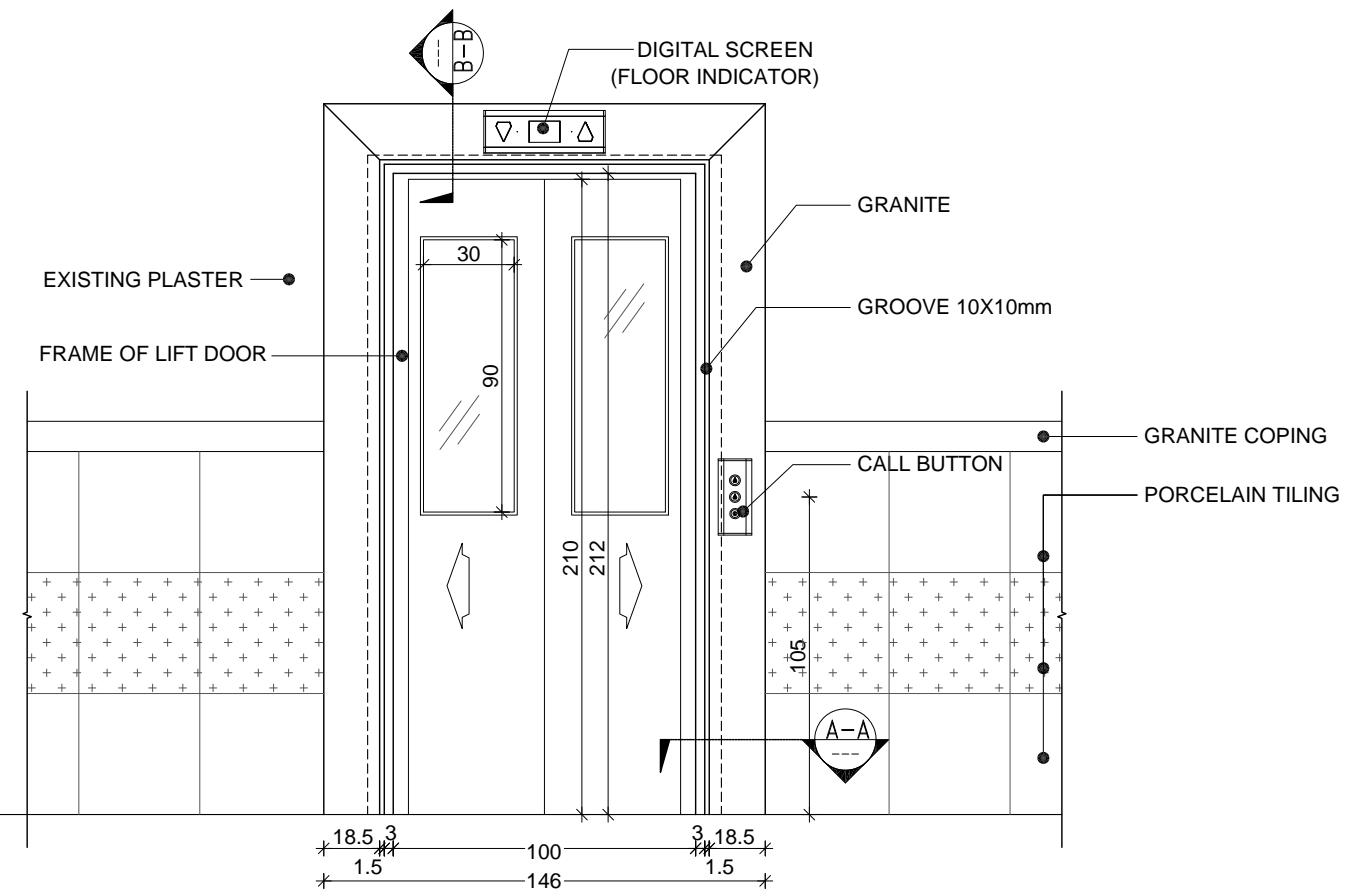
01 CAR AND SHAFT PLAN
SCALE 1:25



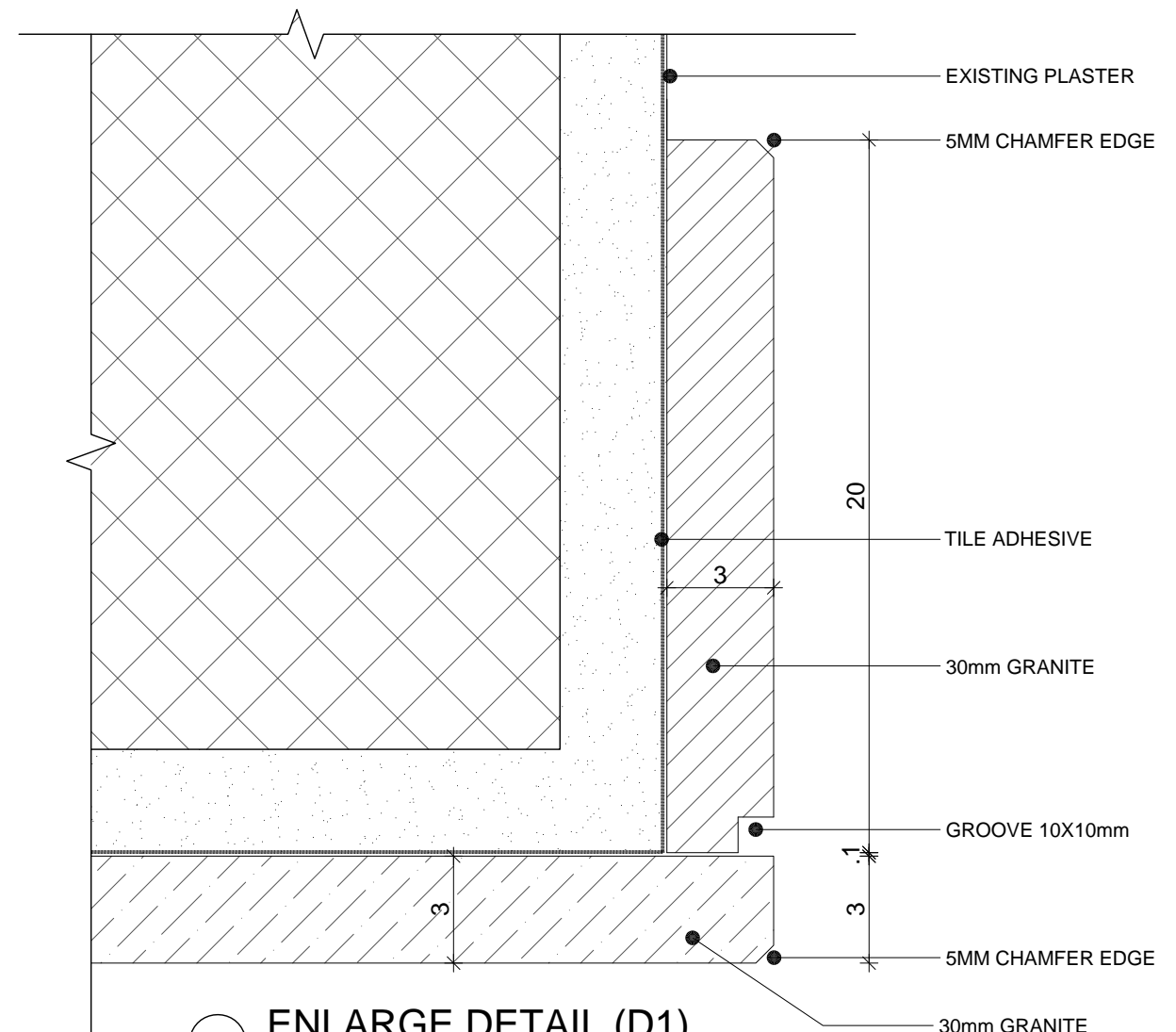
02 ENLARGE DETAIL (A-A)
SCALE 1:10



03 ENLARGE DETAIL (B-B)
SCALE 1:10



05 ELEVATION
SCALE 1:25



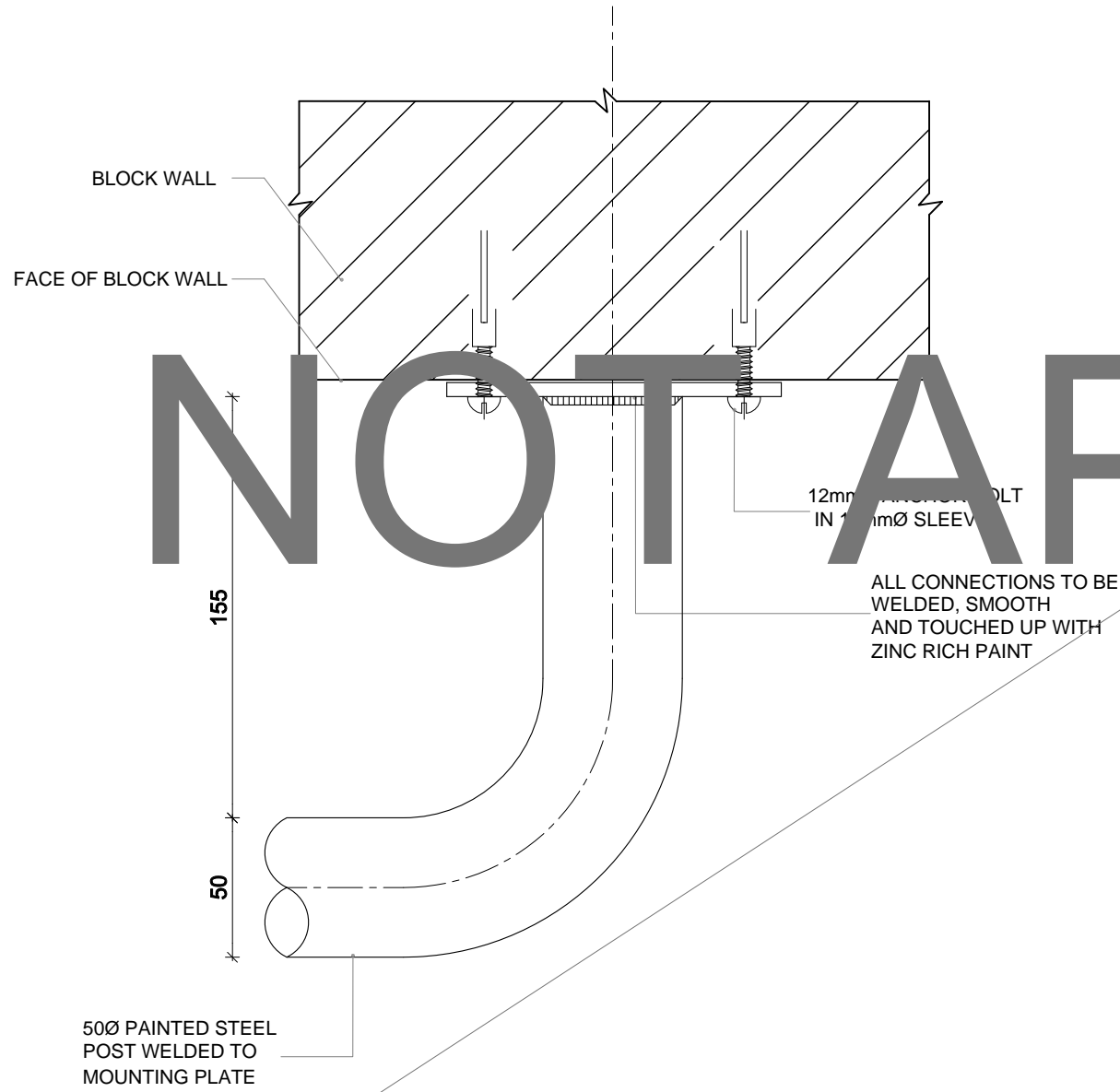
04 ENLARGE DETAIL (D1)
SCALE 1:2

REV.	DATE	REMARKS

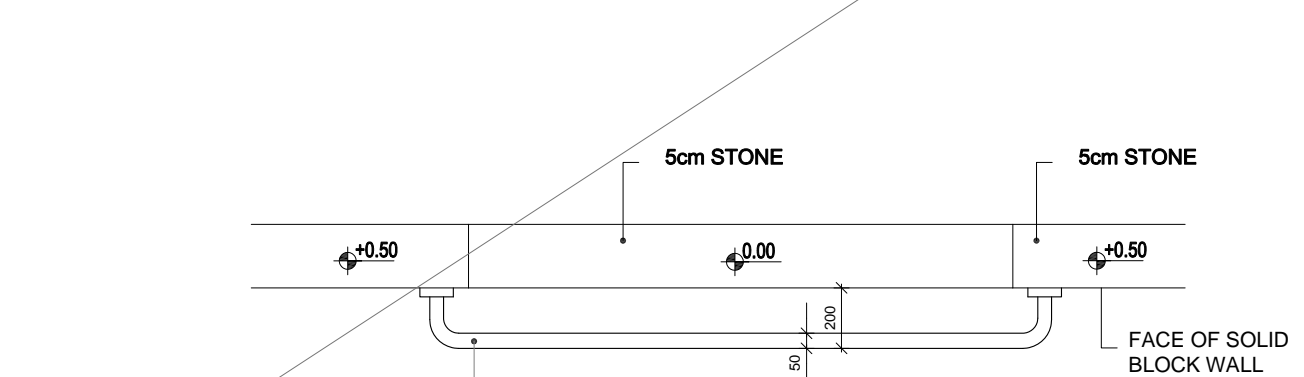


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

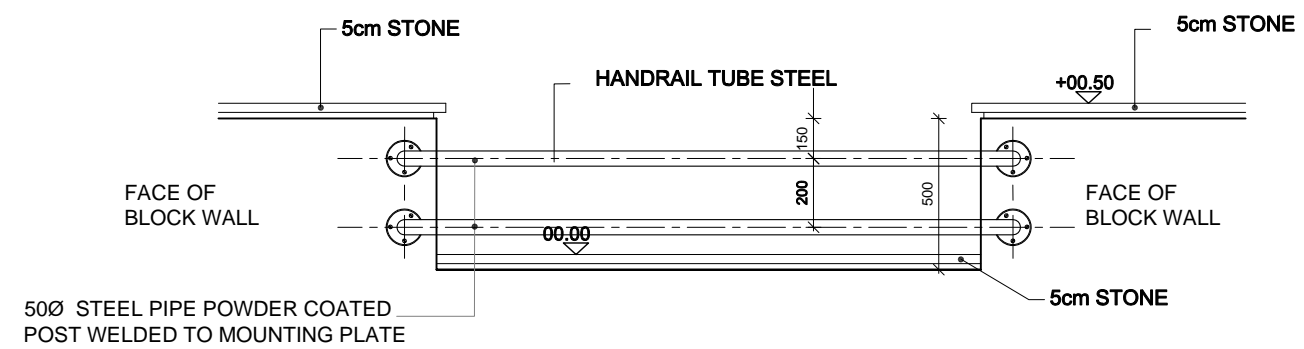
DRAWING NAME:		DESIGN:	DRAWN:	REVISION No.:
TYPICAL ELEVATOR DETAIL		H.B.	Engicon	0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: AS SHOWN	MCD-15A



A TOP PLAN FIXING DETAIL OF PARAPET HANDRAIL
SCALE 1:10



A TOP VIEW OF PARAPET HANDRAIL
SCALE 1:10



A ELEVATION OF PARAPET HANDRAIL
SCALE 1:10

NOT APPLICABLE

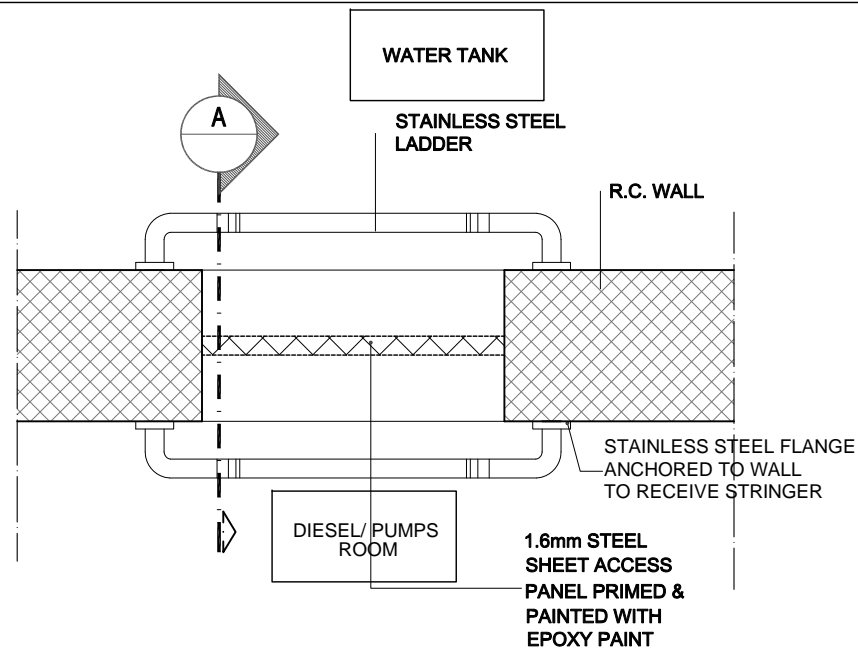
REV.	DATE	REMARKS



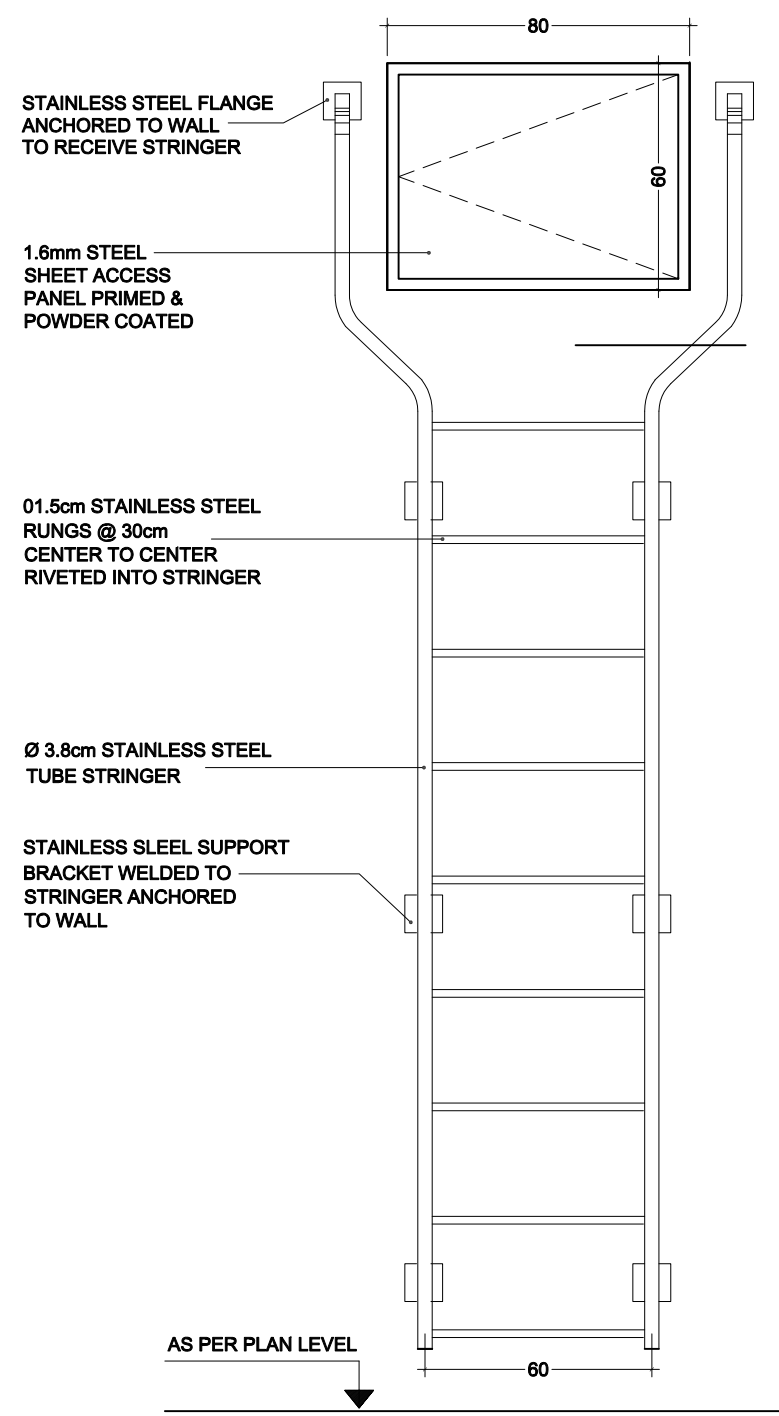
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
ROOF HANDRAIL AT PARAPET DETAIL

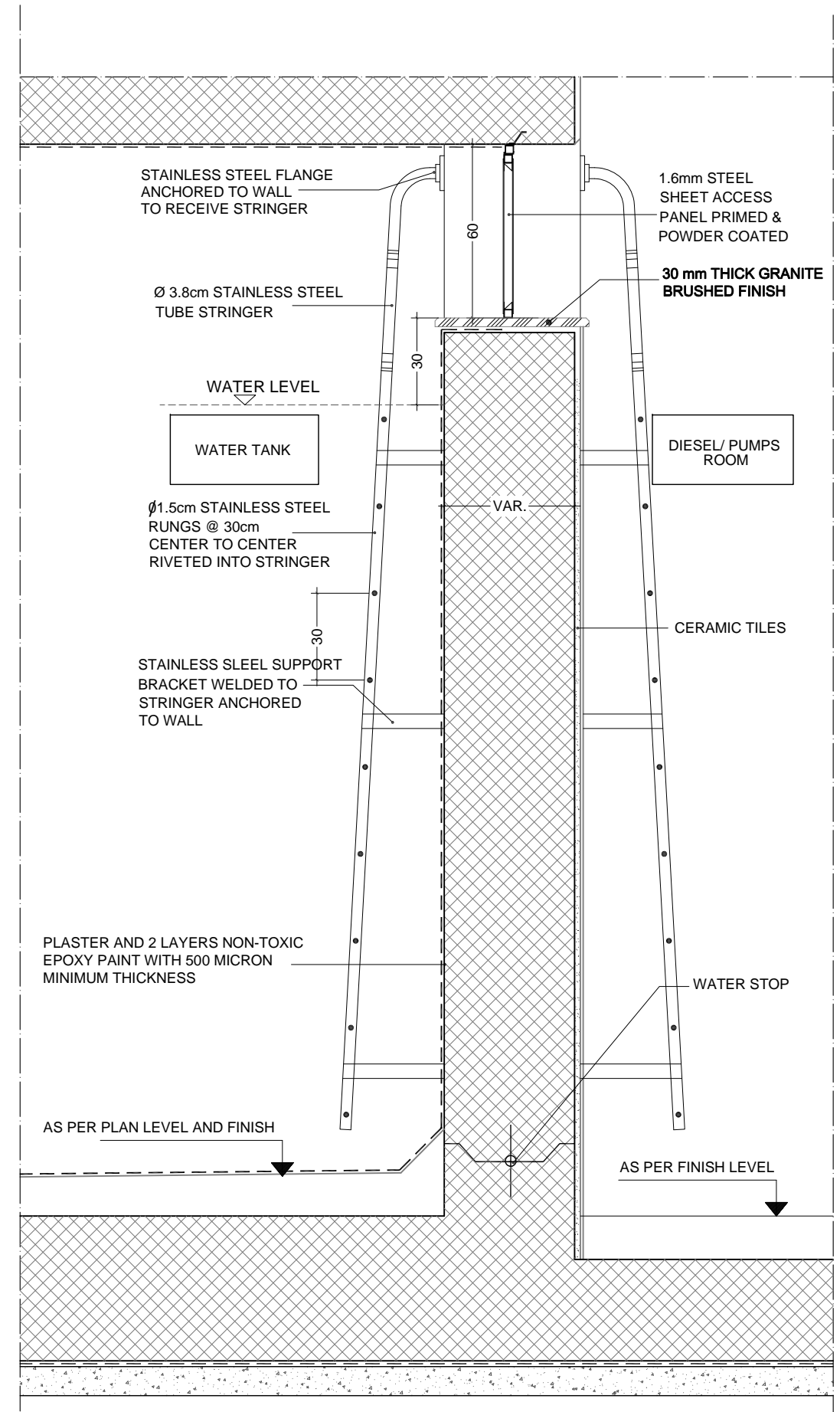
Design:	Drawn:	REVISION No.:
Checked:	Approved:	0
Date:	SCALE:	SHEET NUMBER:
June 2020	AS SHOWN	MCD17



A PLAN
SCALE 1:20



B ELEVATION
SCALE 1:20



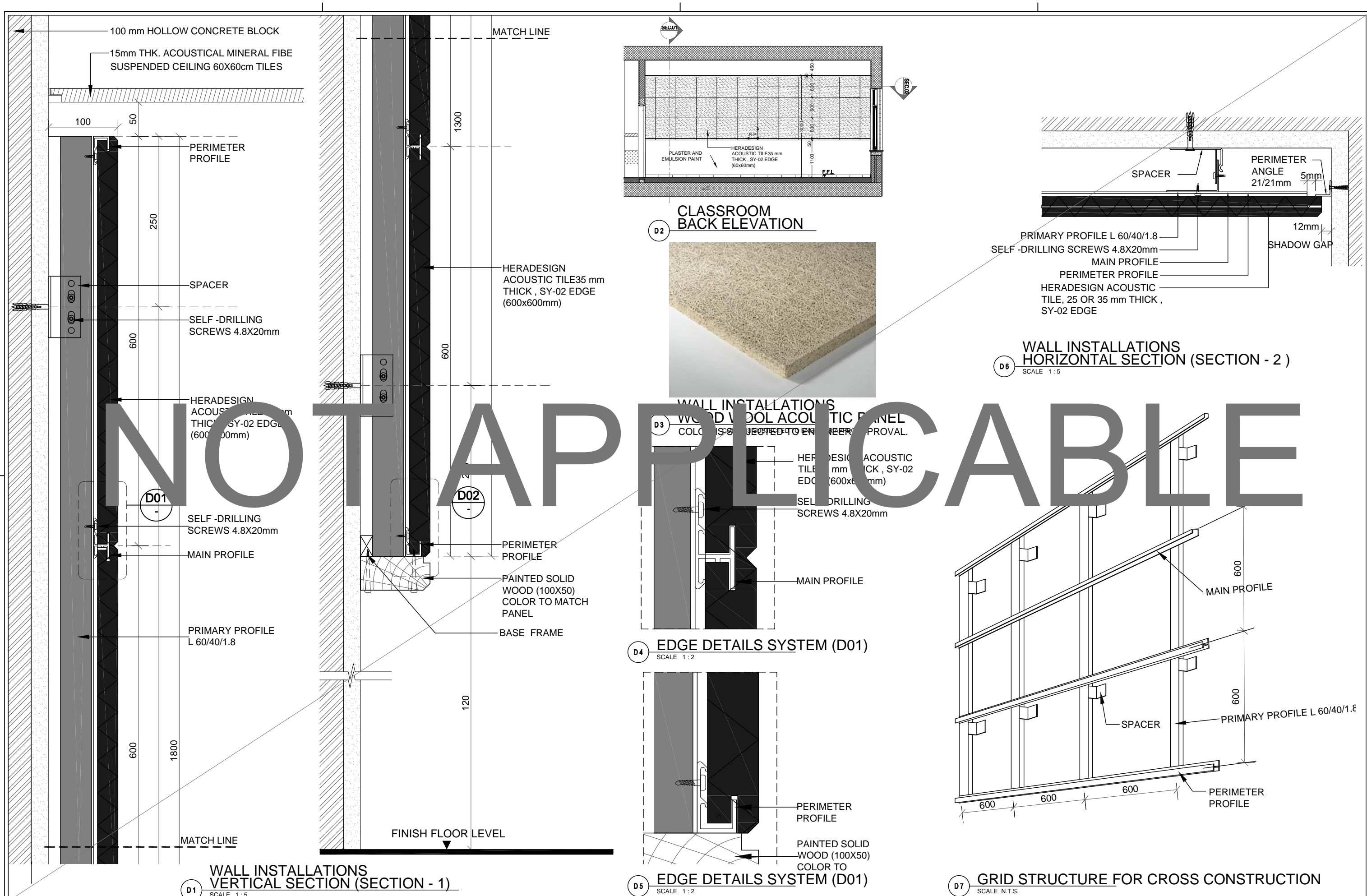
C SECTION A - STAINLESS STEEL LADDER AT WATER TANK
SCALE 1:20

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: STAINLESS STEEL LADDER AT WATER TANK		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-18
		Date: June 2020	SCALE : 1:20	



NOT APPLICABLE

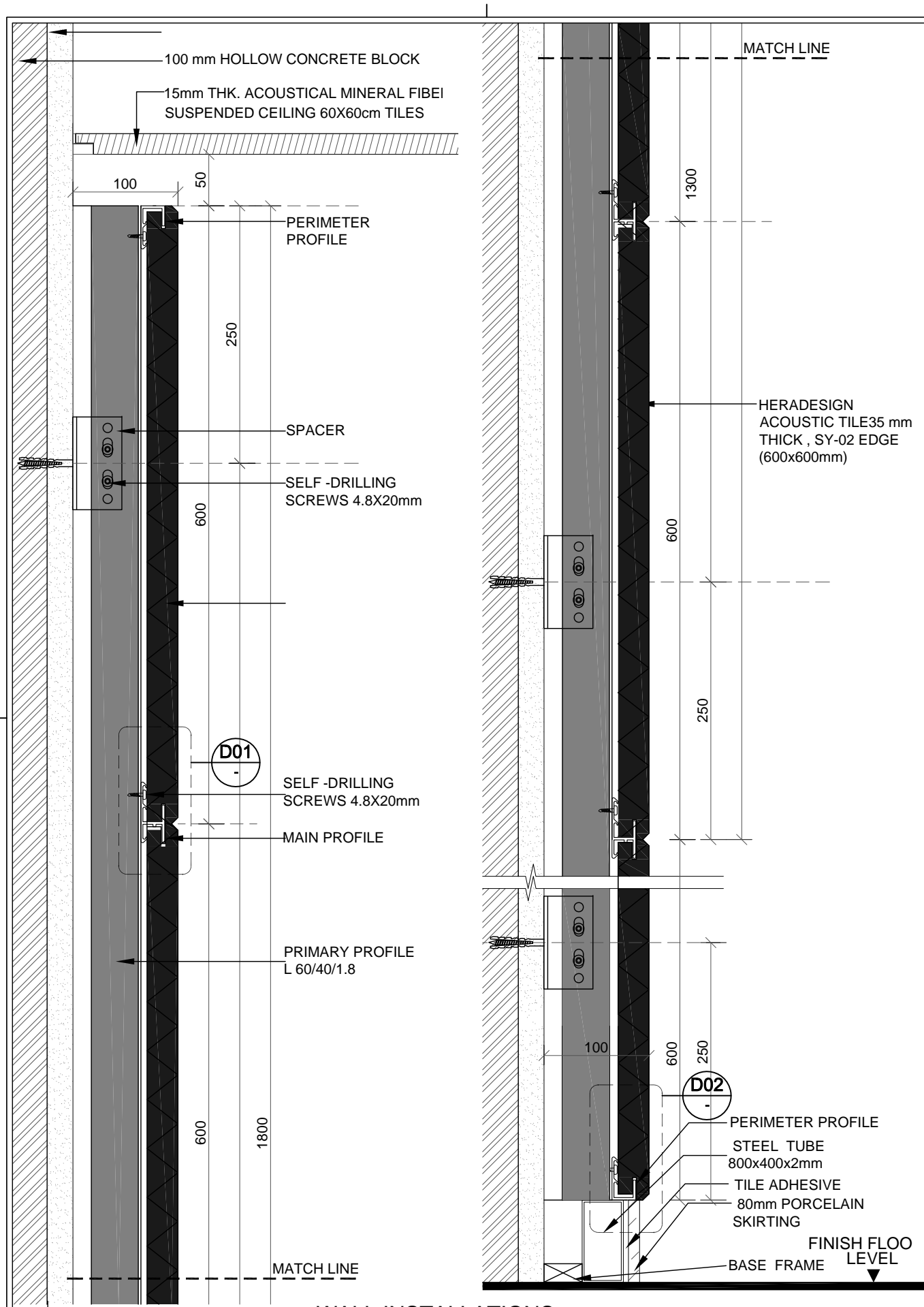
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
ACOUSTIC SYSTEMS IN DEAF CLASSROOMS / WALL INSTALLATION

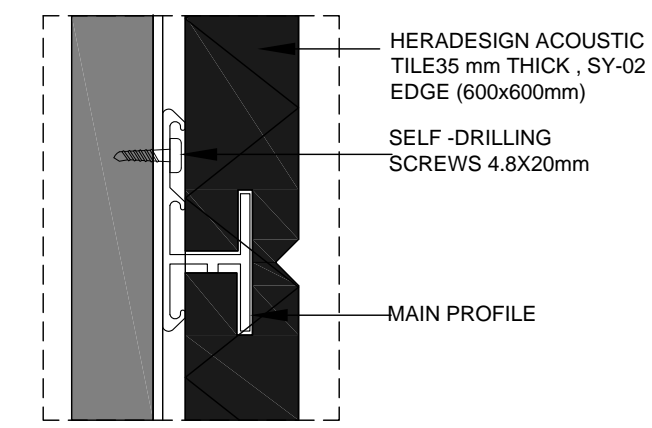
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-19
Date: June 2020	SCALE: AS SHOWN	



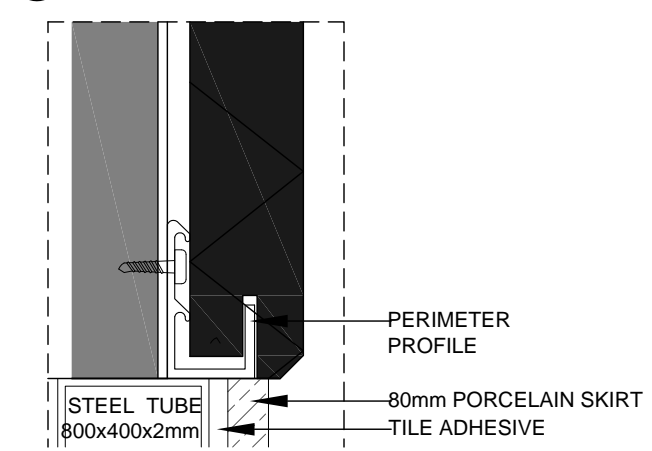
D1 WALL INSTALLATIONS VERTICAL SECTION (SECTION - 1)
SCALE 1:5



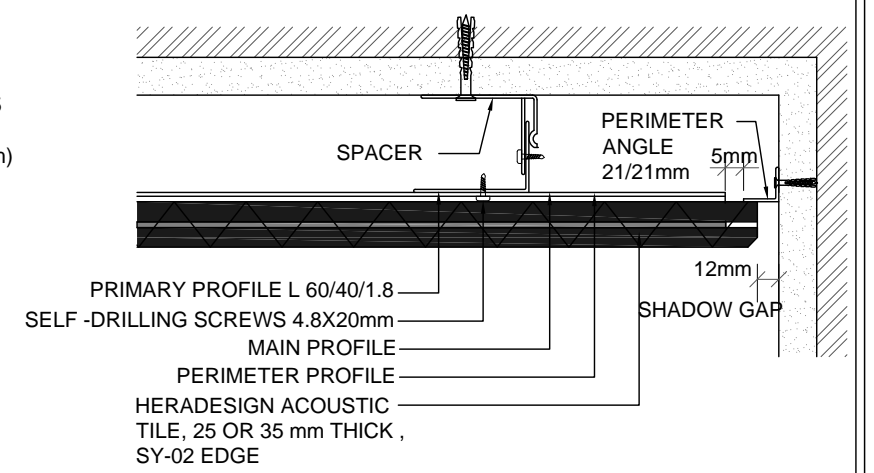
D3 WALL INSTALLATIONS WOOD WOOL ACOUSTIC PANEL
COLOR IS SUBJECT TO ENGINEER APPROVAL.



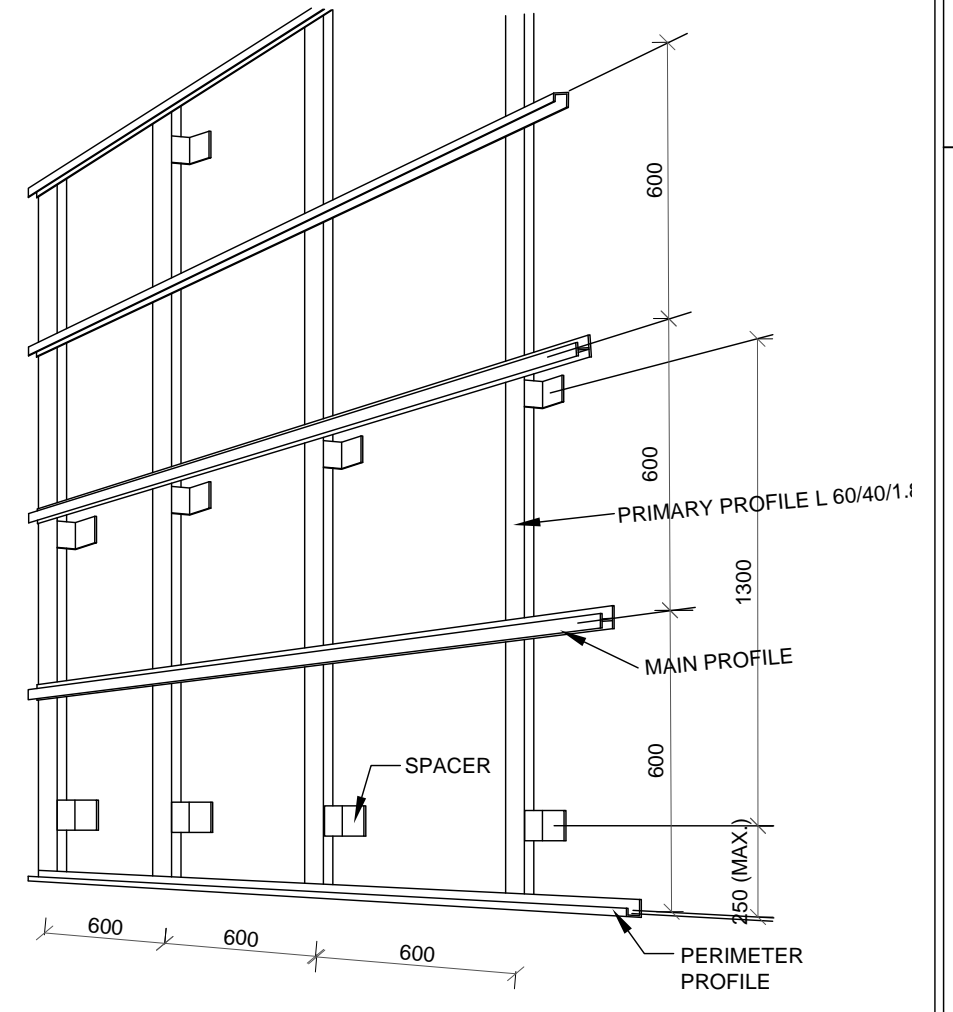
D4 EDGE DETAILS SYSTEM (D01)
SCALE 1:2



D5 EDGE DETAILS SYSTEM (D01)
SCALE 1:2



D6 WALL INSTALLATIONS HORIZONTAL SECTION (SECTION - 2)
SCALE 1:5



D7 GRID STRUCTURE FOR CROSS CONSTRUCTION
SCALE N.T.S.

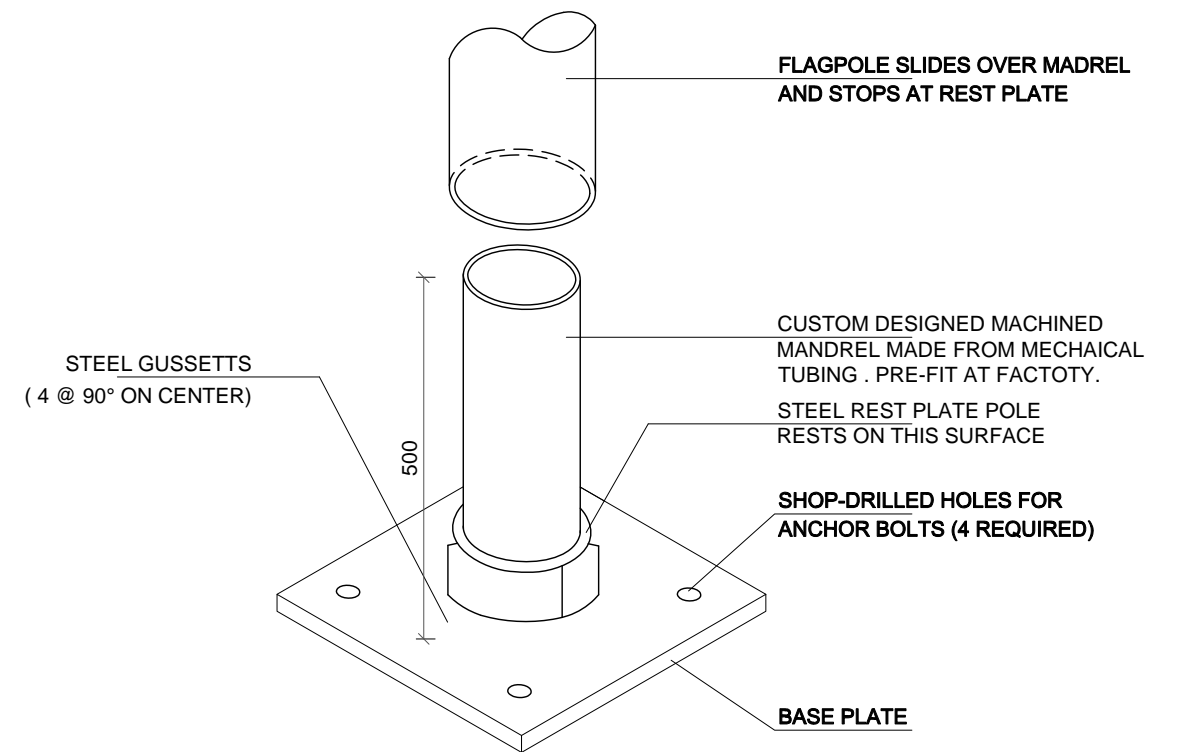
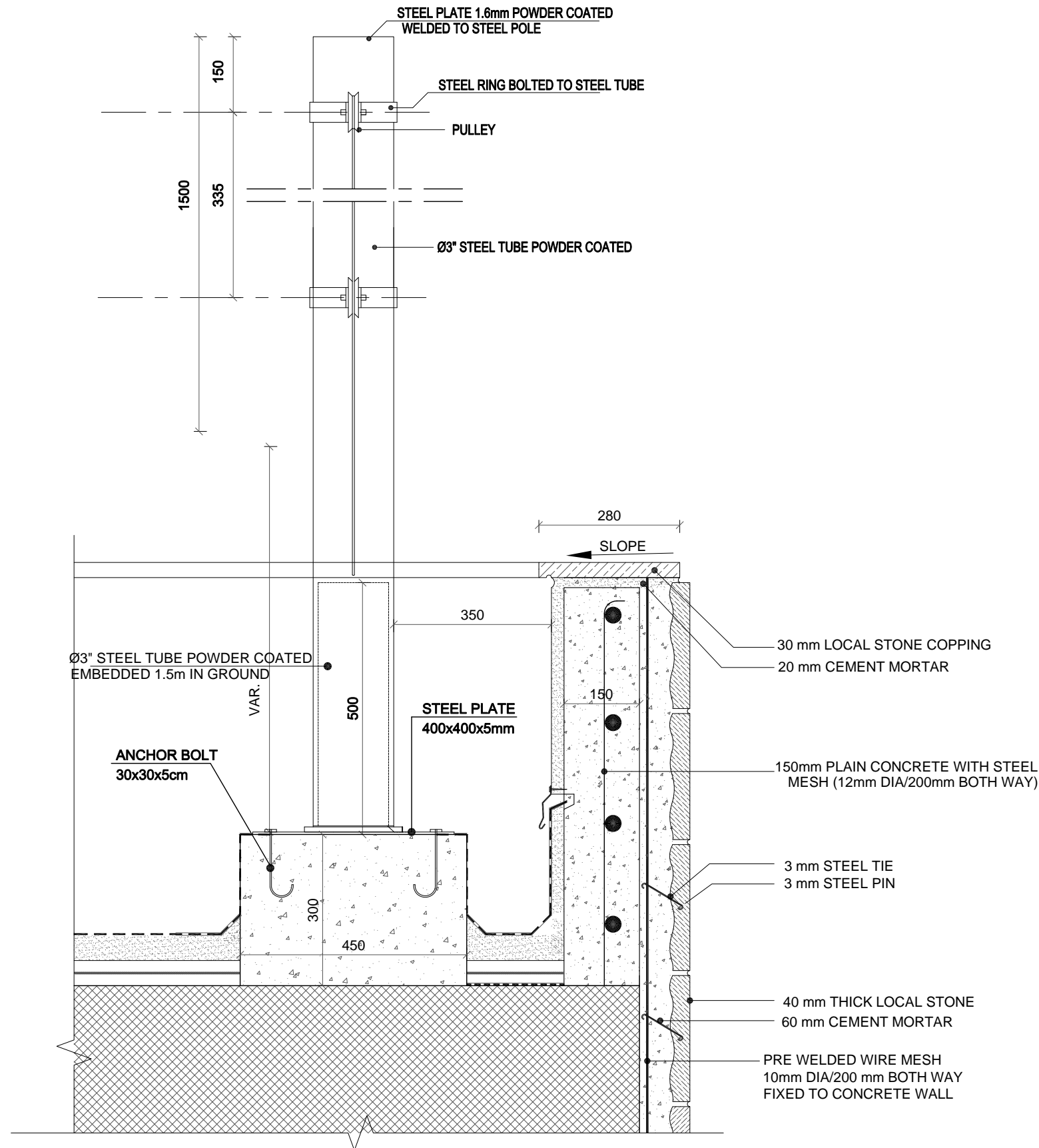
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
ACOUSTIC SYSTEMS IN MULTI-PURPOSE HALL / WALL INSTALLATION

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-20
Date: June 2020	SCALE: AS SHOWN	



D1 PARAPET DETAIL WITHOUT STONE CLADDING
SCALE 1 : 10

REV.	DATE	REMARKS

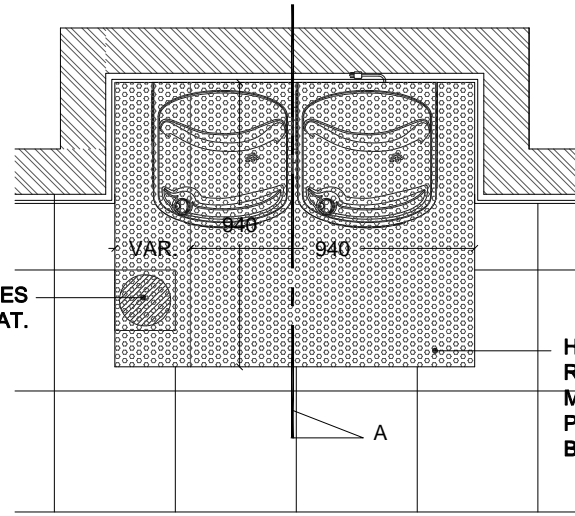


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

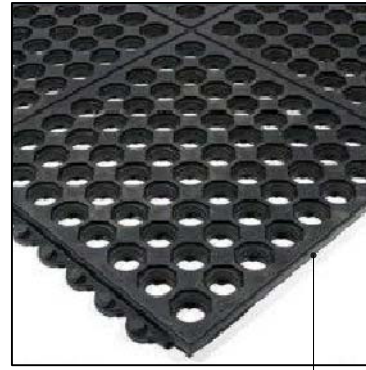
DRAWING NAME:
FLAG POLE AT ROOF

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-21
Date: June 2020	SCALE: 1:10	

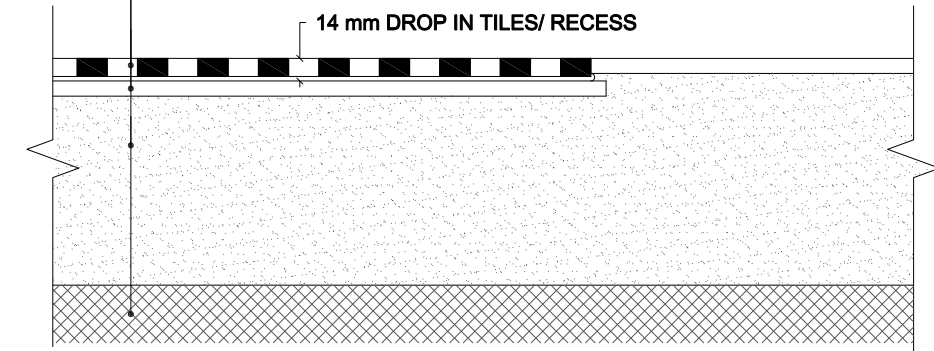
DRAIN WITHIN MIN. 13mm DROP IN TILES BENEATH PERFORATED NON-SLIP RUBBER MAT.



HEAVY DUTY, RECESSED TYPE, NON-SLIP, BLACK RUBBER FLOOR MAT, SQUARE INTERLOCK MODULAR, WITH MINIMUM THICKNESS OF 12mm, PERFORATED SURFACE TO LET LIQUIDS FLOW BENEATH FOR EASY CLEANING AND DRAINAGE.



HEAVY DUTY, RECESSED TYPE, NON-SLIP, BLACK RUBBER FLOOR MAT, SQUARE INTERLOCK MODULAR, WITH MINIMUM THICKNESS OF 12mm, PERFORATED SURFACE TO LET LIQUIDS FLOW BENEATH FOR EASY CLEANING AND DRAINAGE.
 PORCELAIN TILES
 SAND AND MORTAR
 RC SLAB



NON-SLIP RUBBER MAT PLAN- RECESSED TYPE UNDER INDOOR DRINKING FOUNTAIN

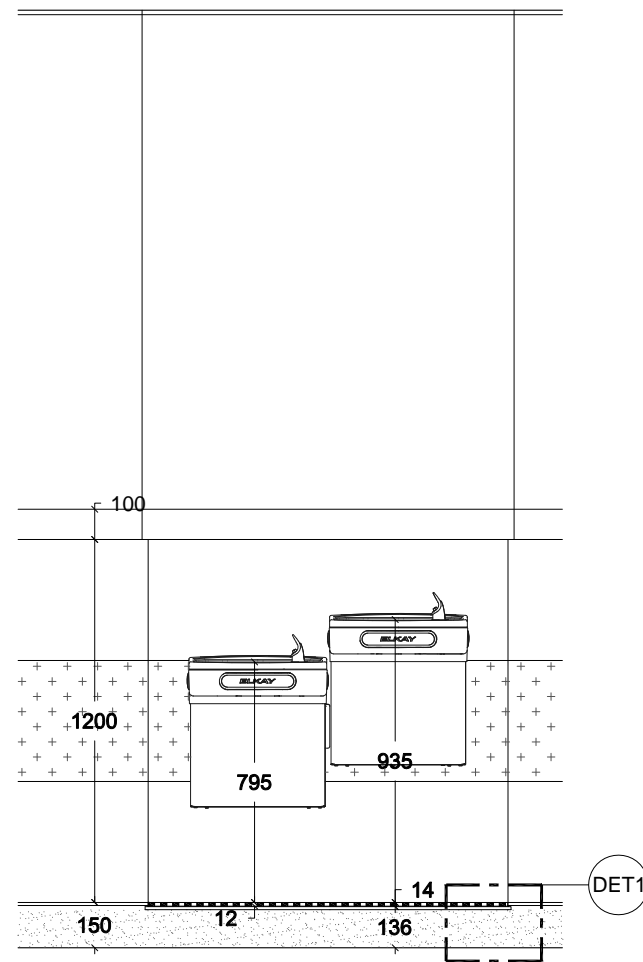
A

SCALE 1 : 25

NON-SLIP RUBBER MAT- RECESSED TYPE DETAIL 1

C

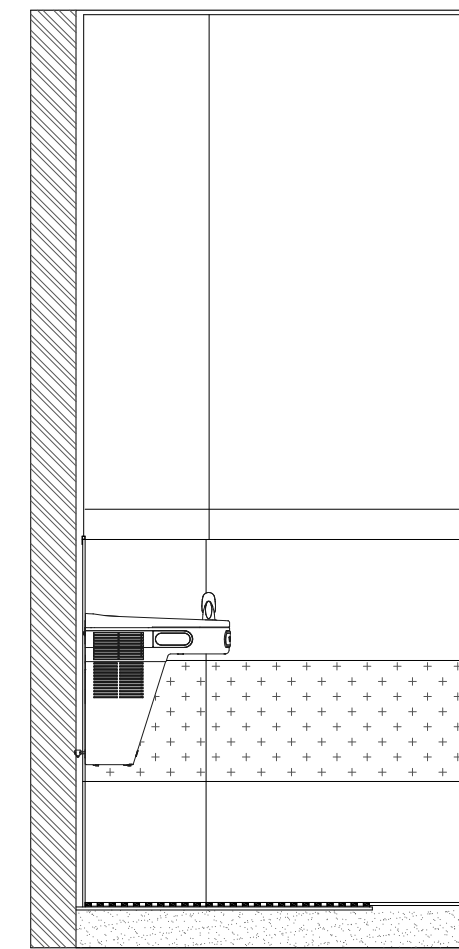
SCALE 1 : 5



NON-SLIP RUBBER MAT DETAIL- RECESSED TYPE UNDER INDOOR DRINKING FOUNTAIN- ELEVATION

B

SCALE 1 : 25



NON-SLIP RUBBER MAT DETAIL- RECESSED TYPE UNDER INDOOR DRINKING FOUNTAIN - SECTION A

D

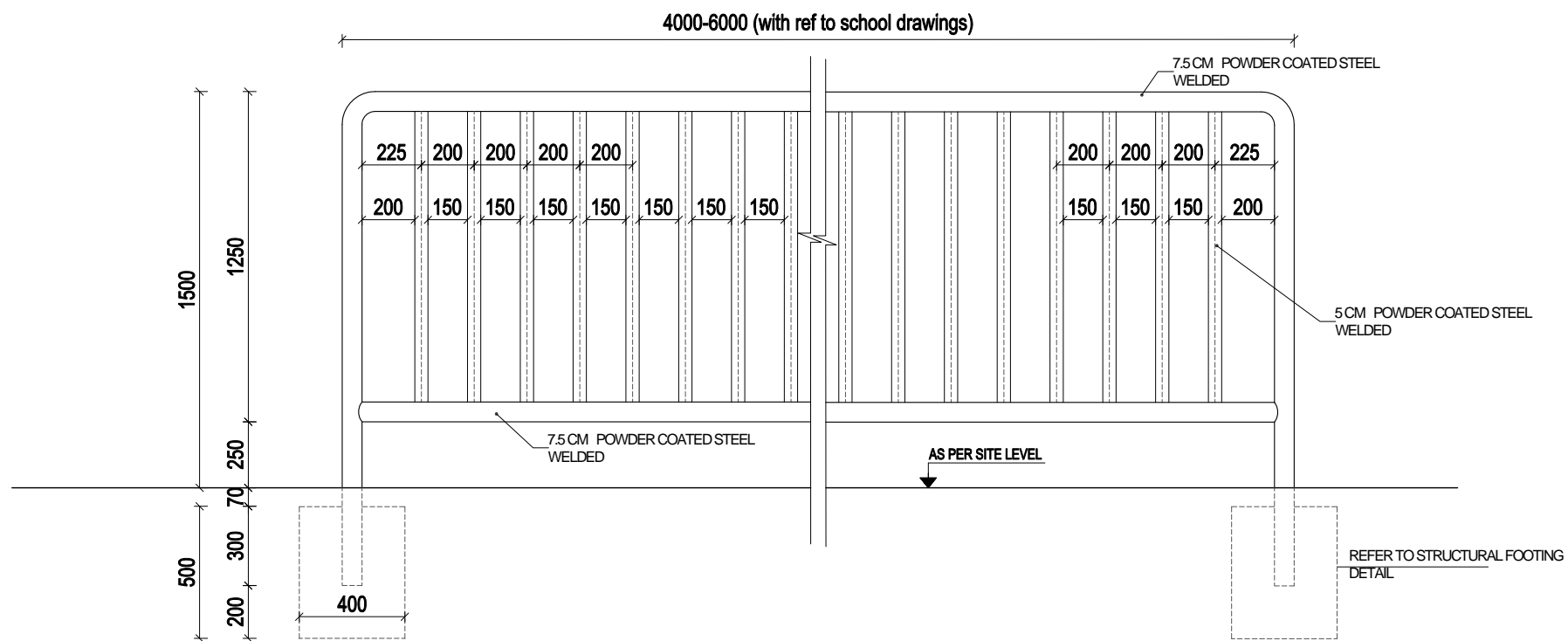
SCALE 1 : 25

REV.	DATE	REMARKS

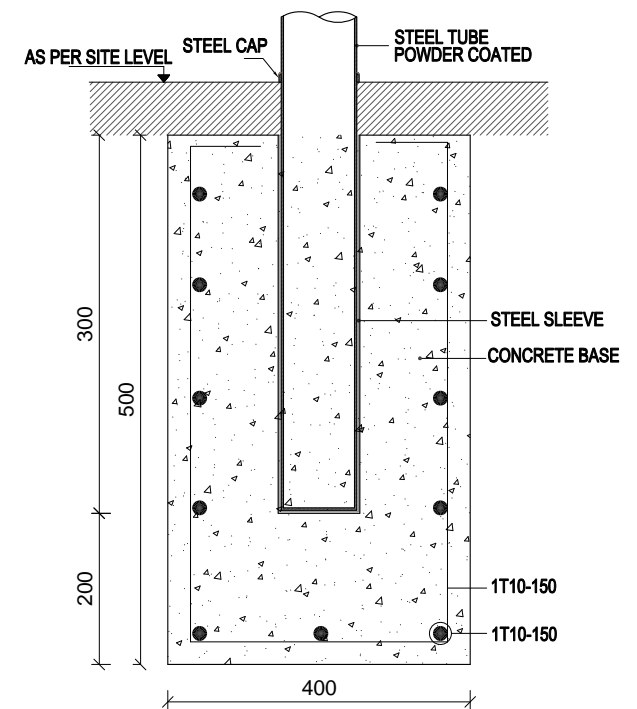


BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
RUBBER MAT- RECESSED TYPE UNDER INDOOR DRINKING FOUNTAIN / COOLER		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	MCD-22
		Date:	SCALE:	
		June 2020	AS SHOWN	



A STUDENTS GATE STEEL PROTECTION RAIL
SCALE 1 : 25



01 STRUTURAL FOOTING DETAIL
SCALE 1 : 10

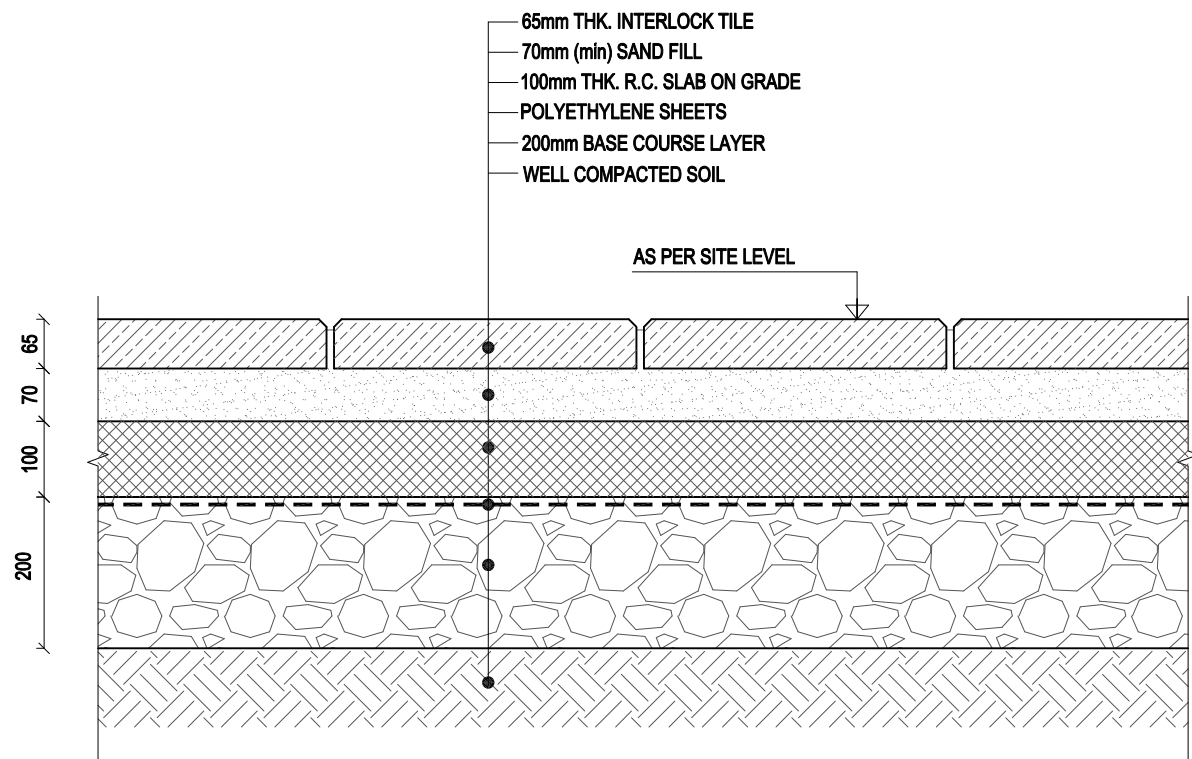
REV.	DATE	REMARKS



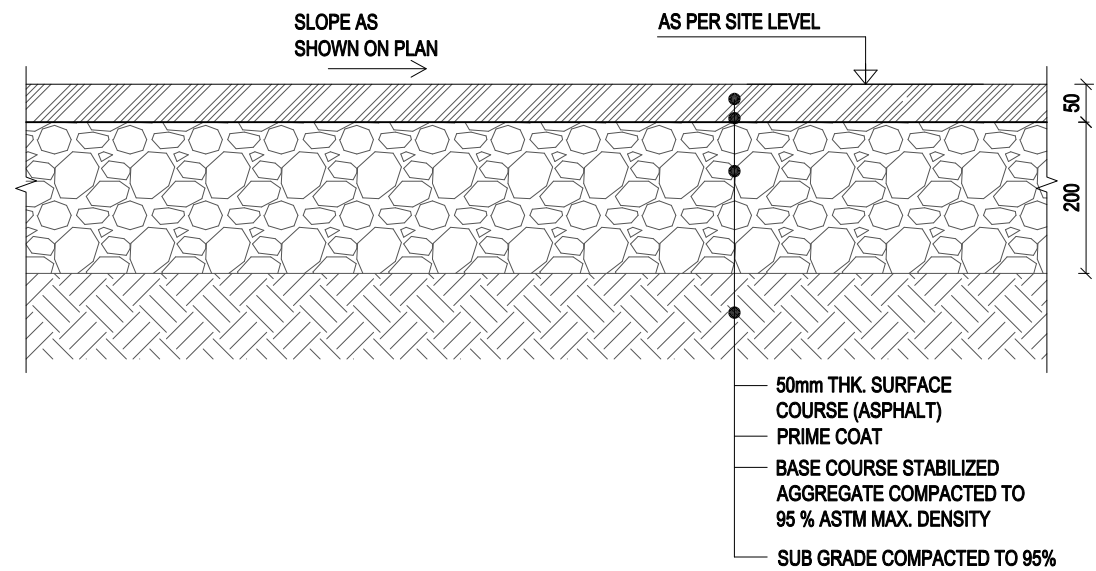
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: RAIL PROTECTION MAIN STUDENTS SCHOOL GATE		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: MCD-23
		Date: June 2020	SCALE : AS SHOWN	

**LANDSCAPE DETAILS
(LSD)**



A TYPICAL DETAIL AT INTERLOCK TILES
SCALE 1 : 10



B TYPICAL DETAIL AT ASPHALT
SCALE 1 : 10

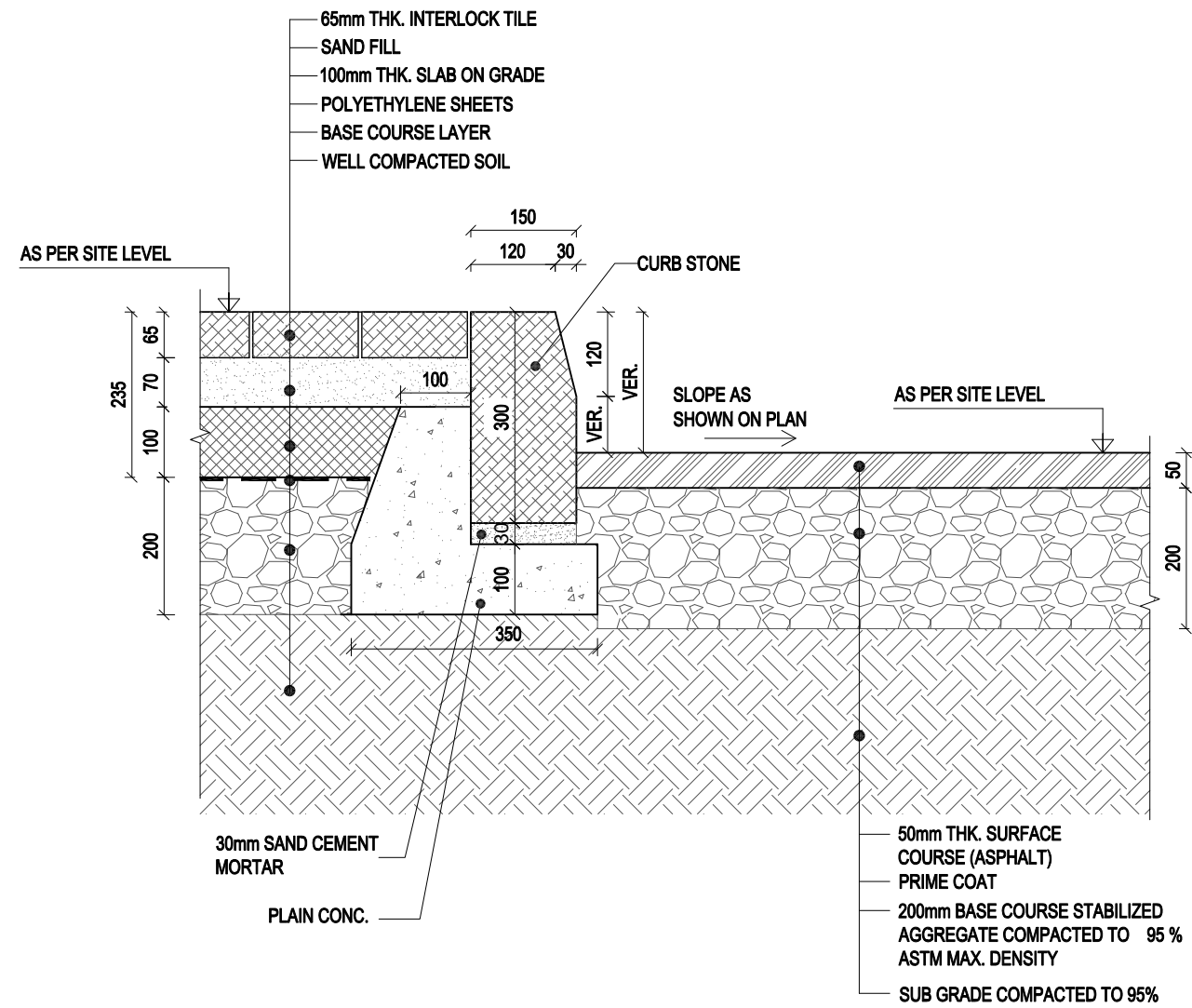
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL SITE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-01
Date: June 2020	SCALE : 1:10	



A TYPICAL DETAIL BETWEEN INTERLOCK TILES AND ASPHALT
SCALE 1 : 10

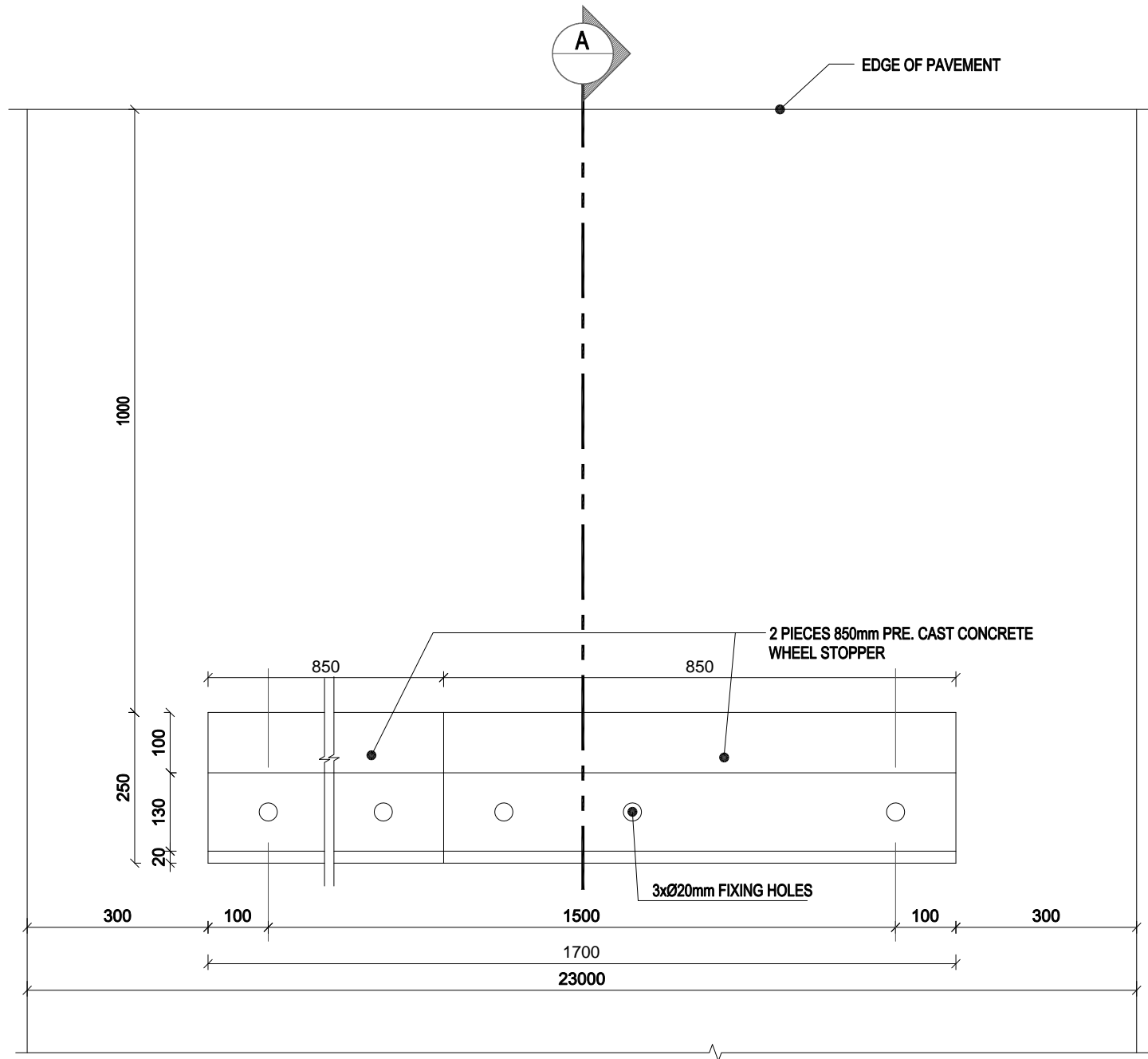
REV.	DATE	REMARKS



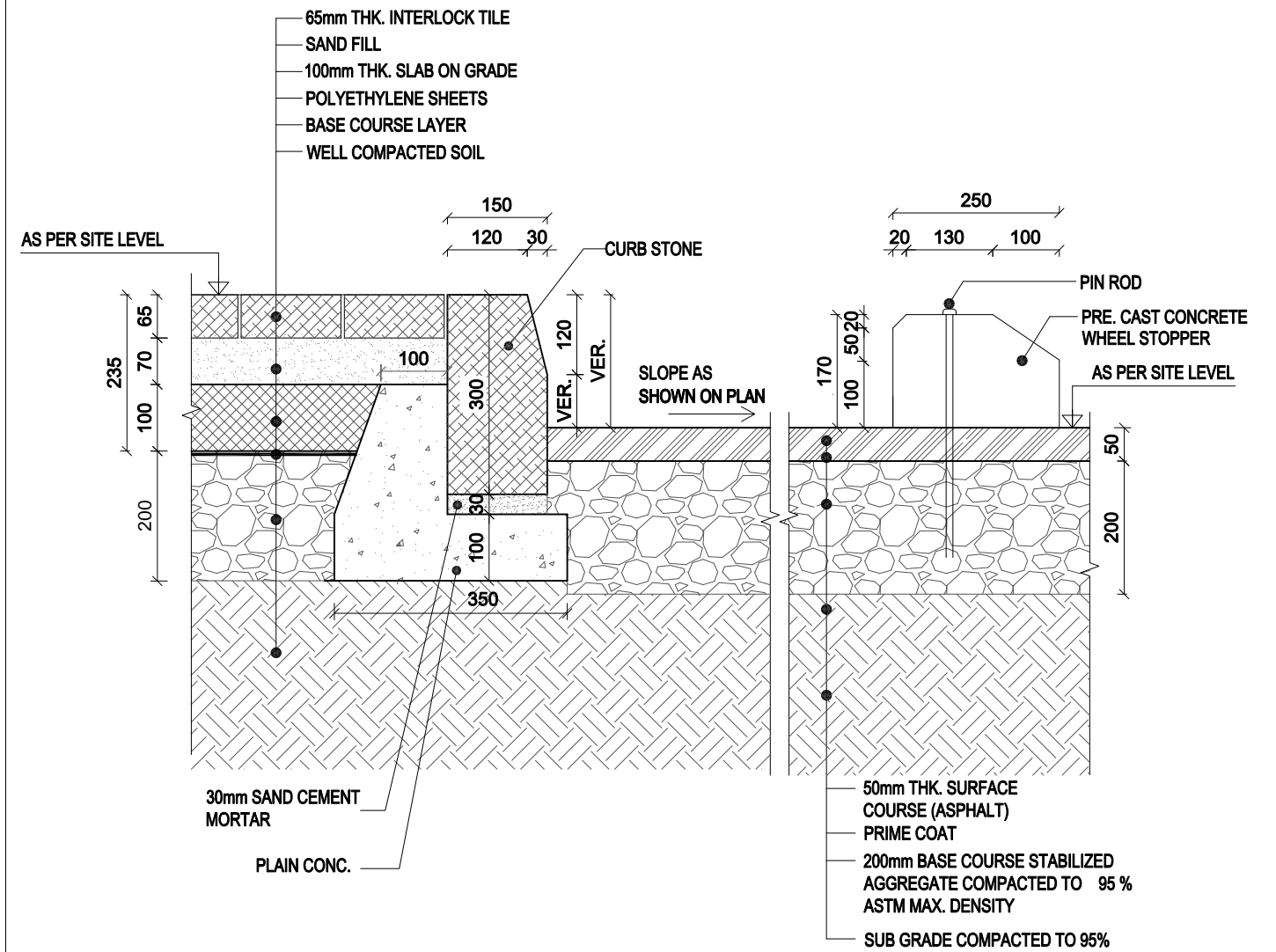
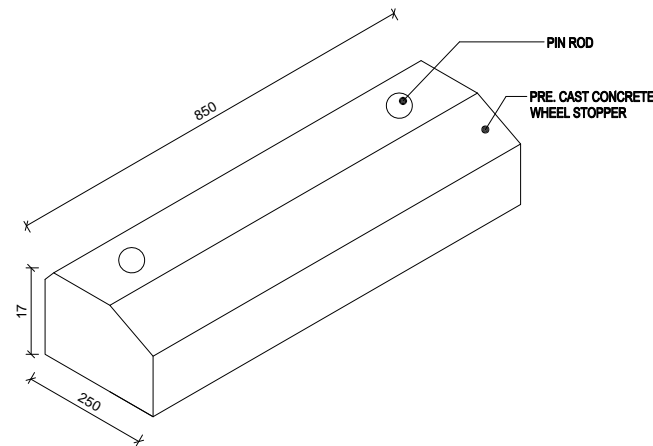
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL SITE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-02
Date: June 2020	SCALE : 1:10	



A CAR PARK PLAN
SCALE 1 : 10



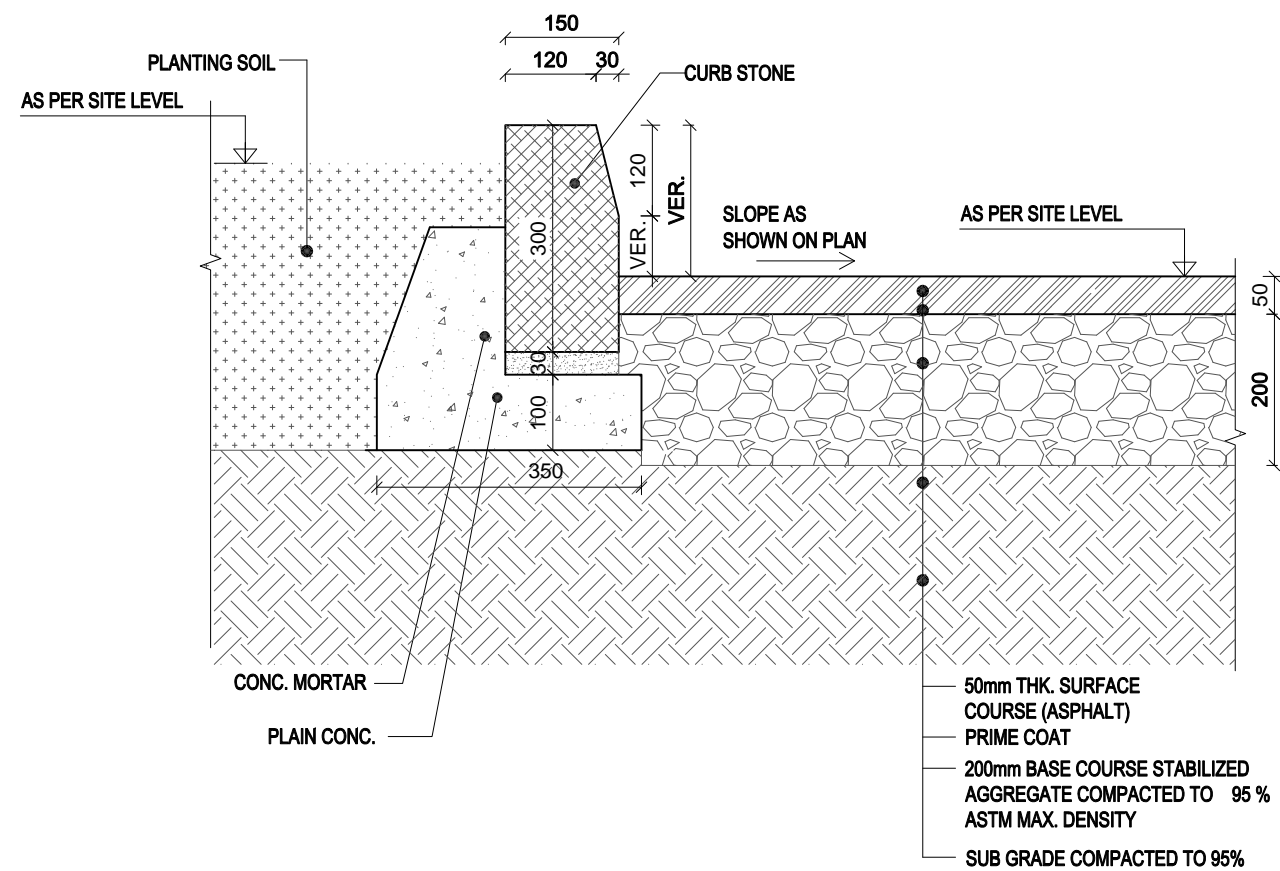
B TYPICAL DETAIL BETWEEN INTERLOCK TILES AND ASPHALT
SCALE 1 : 10

REV.	DATE	REMARKS

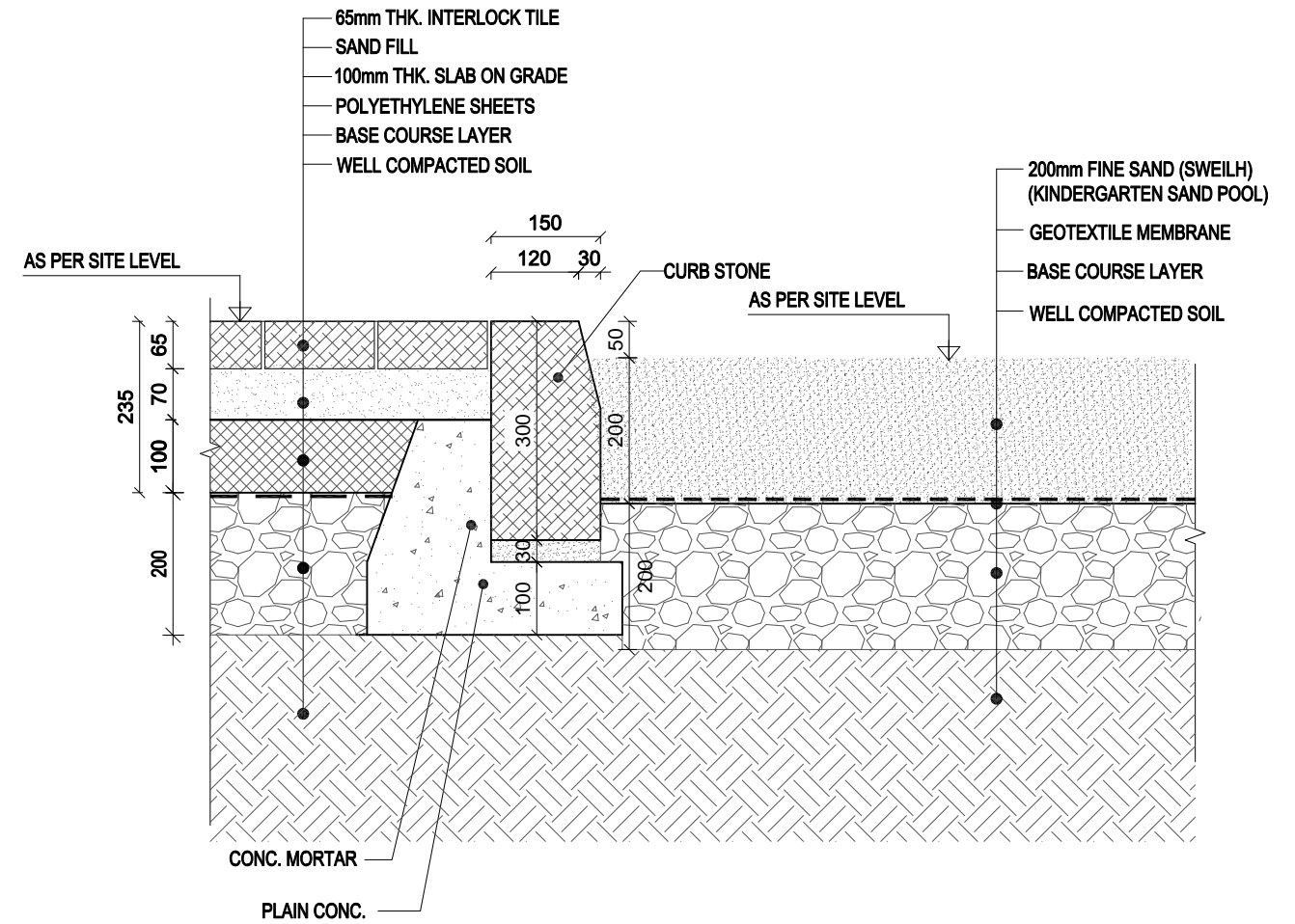


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:	DESIGN:	REVISION No.:
TYPICAL SITE DETAILS	H.B.	0
	Checked: M.Sh.	Approved: S.B.
	Date: June 2020	SCALE: 1:10
		SHEET NUMBER: LSD-03



A TYPICAL DETAIL BETWEEN PLANTING SOIL AND ASPHALT
SCALE 1:10



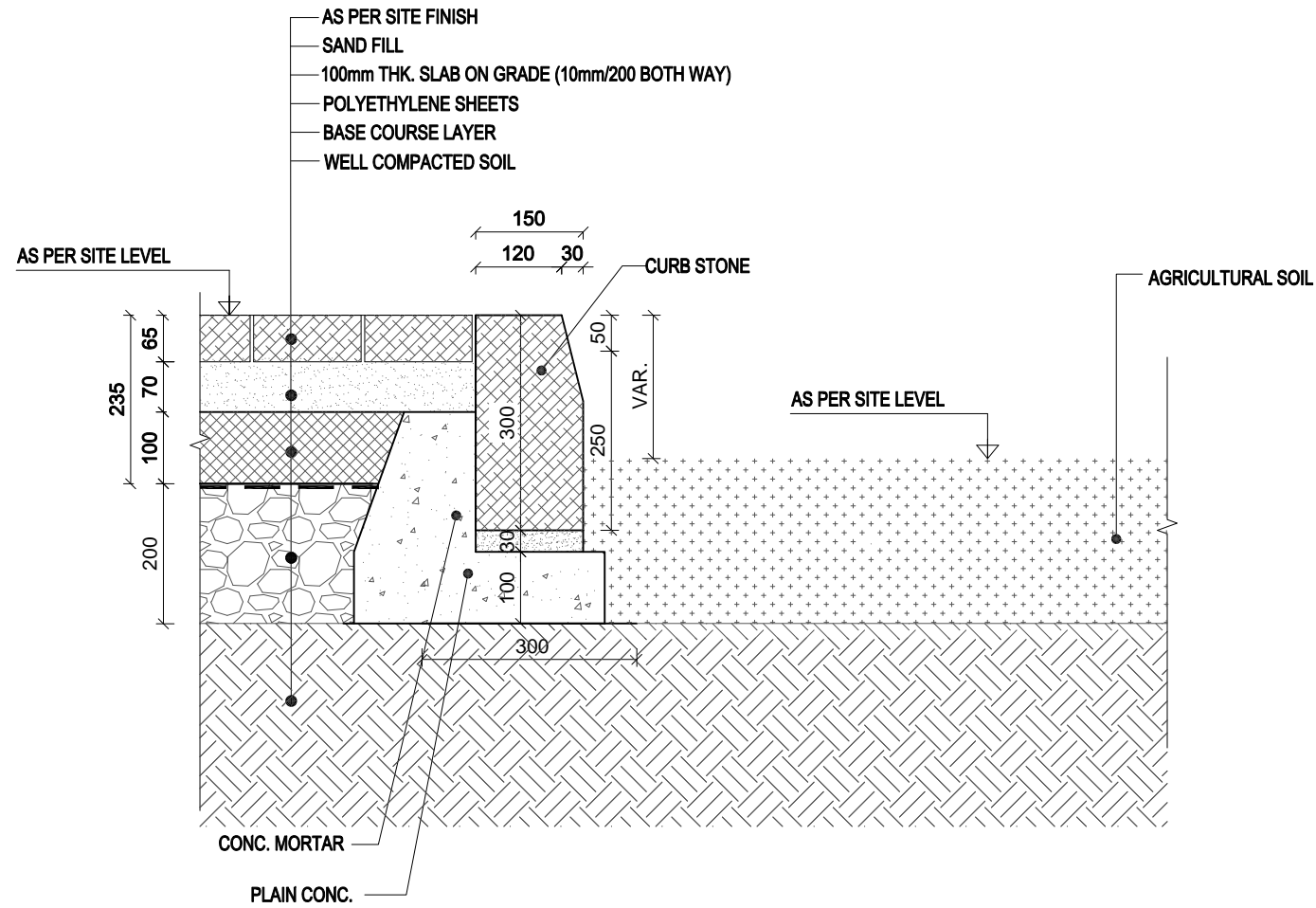
B TYPICAL DETAIL BETWEEN INTERLOCK TILES AND SAND POOL
SCALE 1:10

REV.	DATE	REMARKS



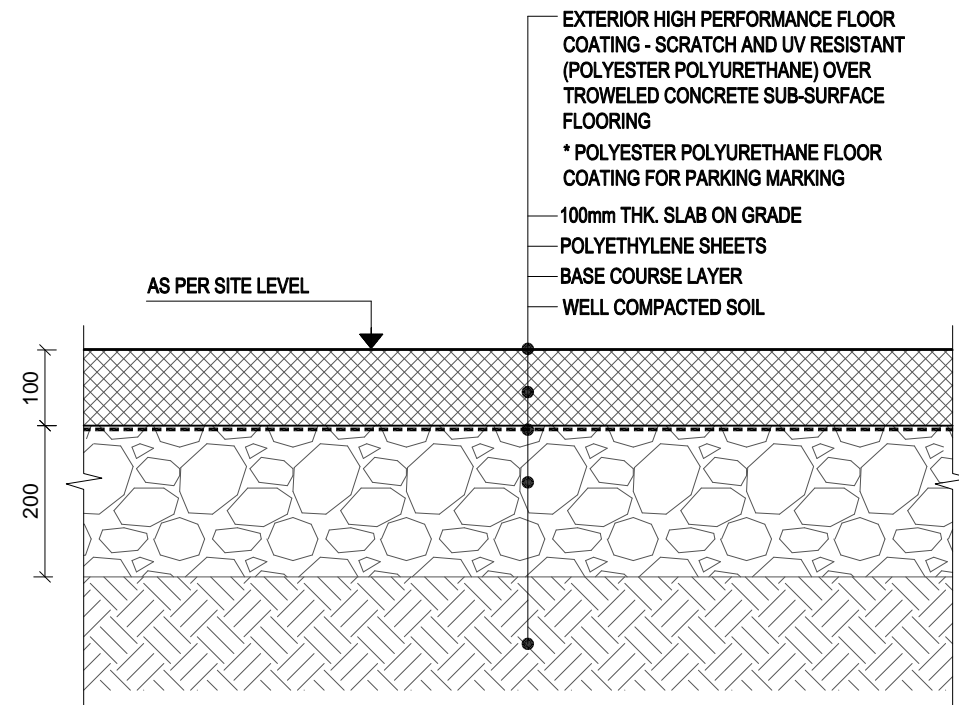
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	DRAWN:	REVISION No.:
TYPICAL SITE DETAILS		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	LSD-04
		Date:	SCALE:	
		June 2020	1:10	



TYPICAL FLOOR DETAIL BETWEEN PAVEMENT AND AGRICULTURAL SOIL

A
SCALE 1 : 10



TYPICAL FLOOR DETAIL AT PLAY GROUND

B
SCALE 1 : 10

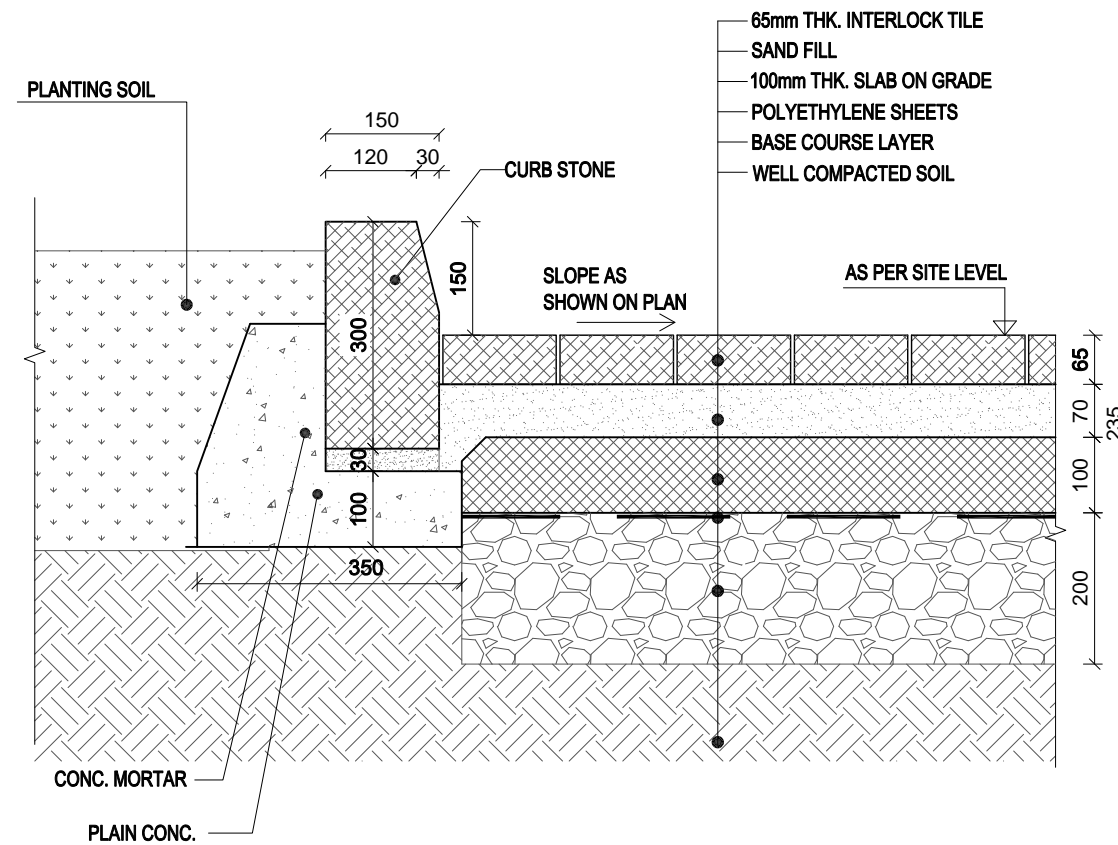
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL SITE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-05
Date: June 2020	SCALE : 1:10	



A TYPICAL DETAIL BETWEEN INTERLOCK TILES & PLANTING SOIL
SCALE 1:10

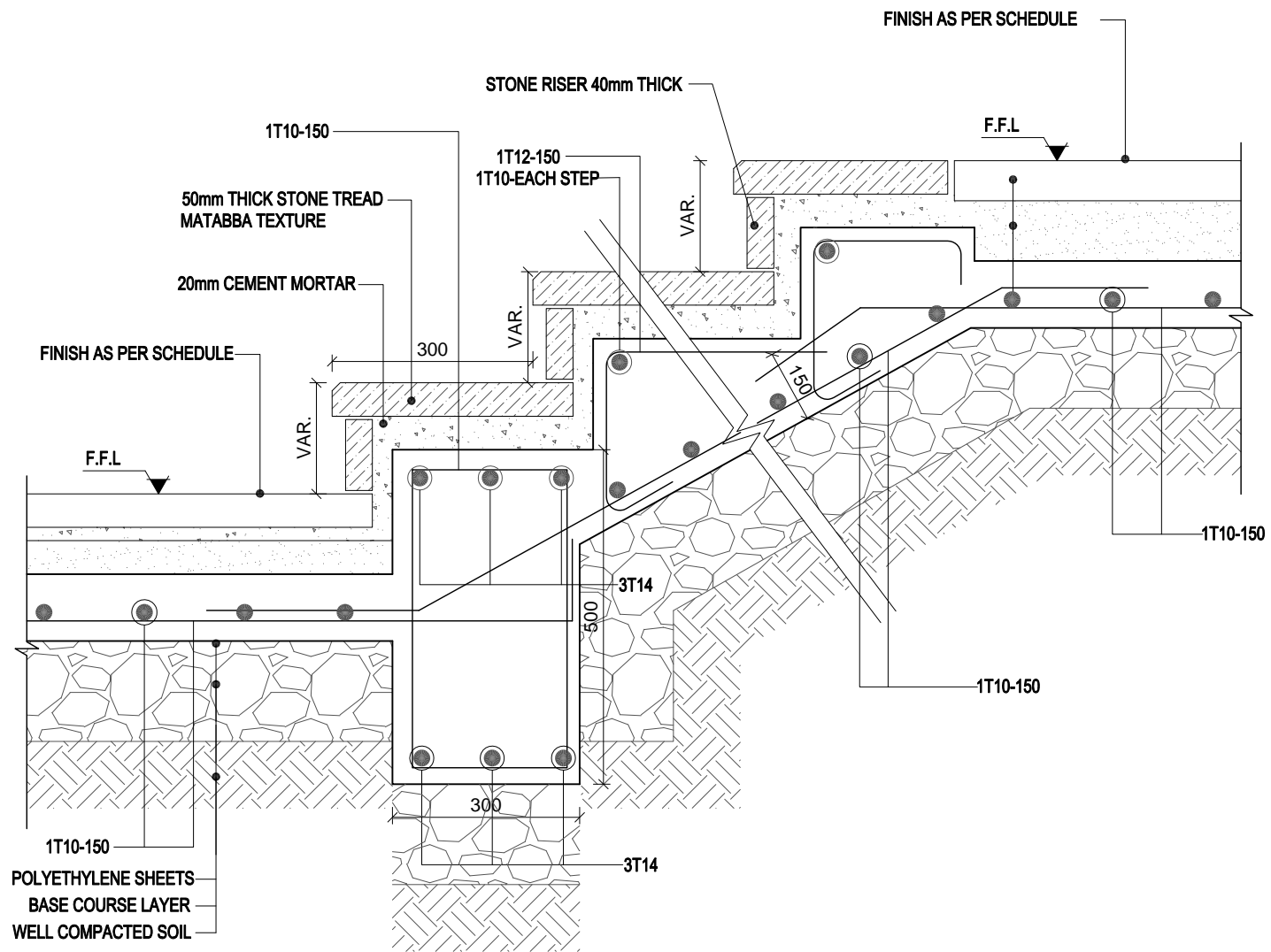
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL SITE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-06
Date: June 2020	SCALE : 1:10	



A EXTERNAL STAIR DETAIL
SCALE 1 : 10

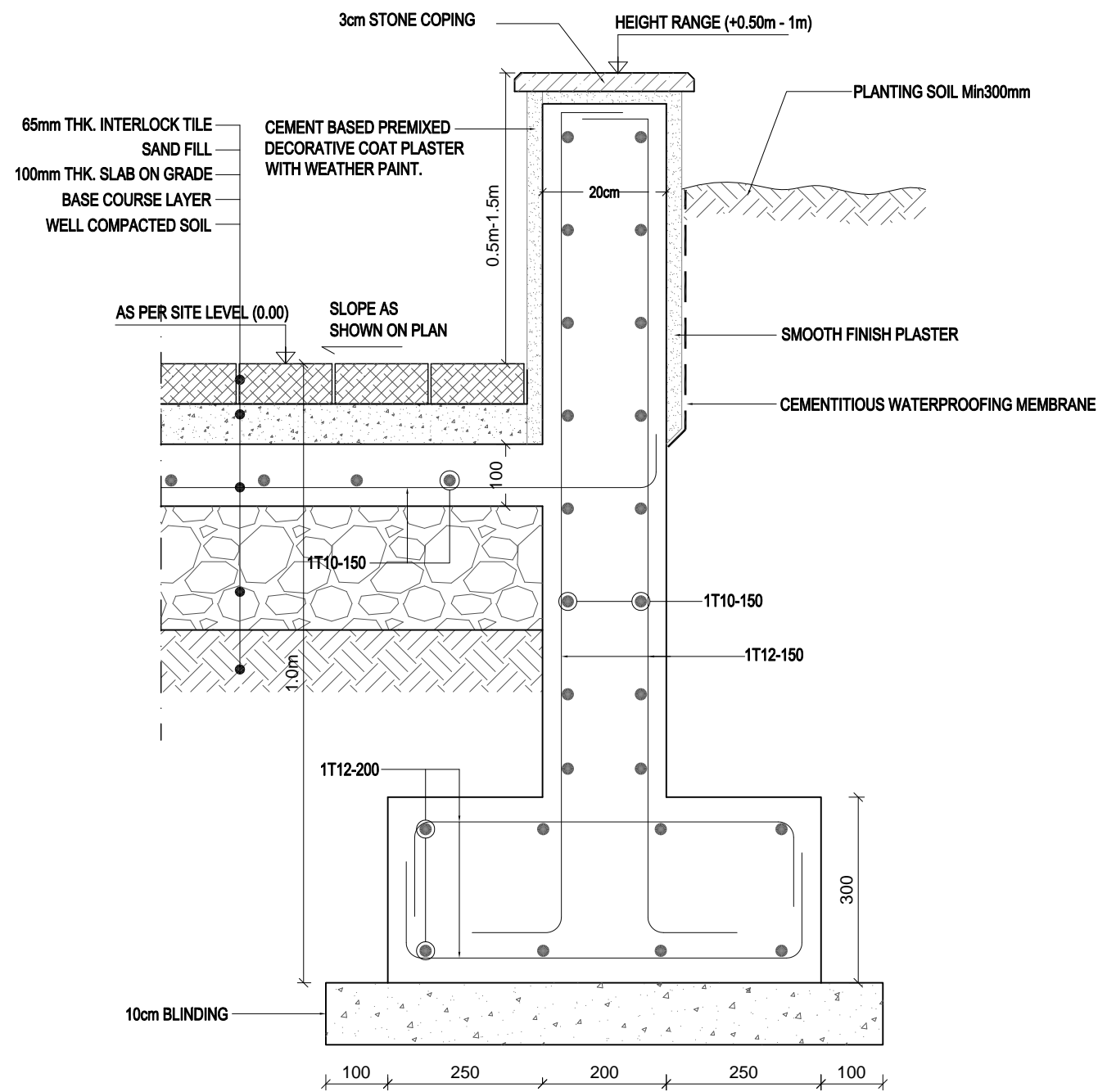


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
EXTERNAL STAIR DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-07
Date: June 2020	SCALE : 1:10	

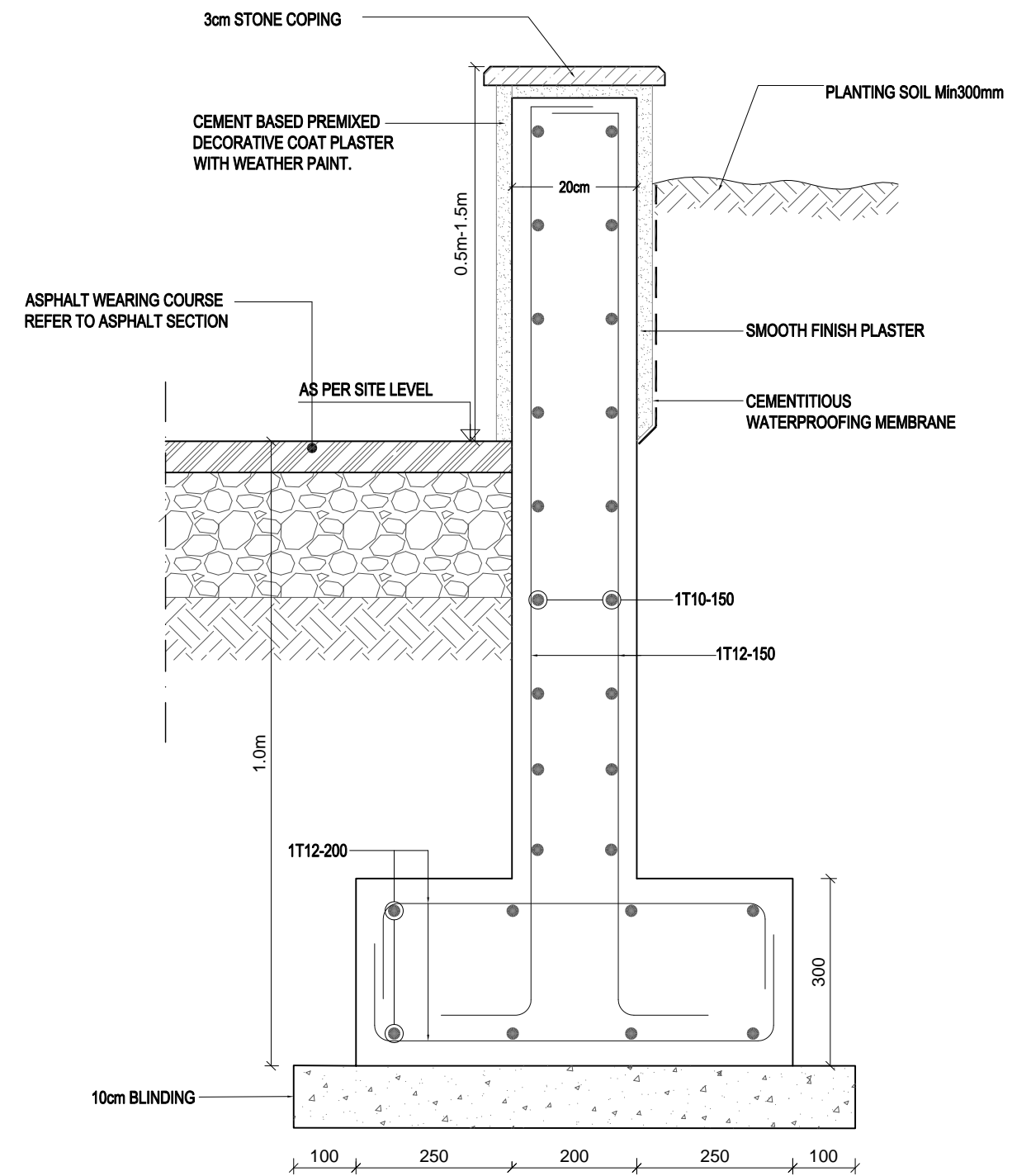
REV.	DATE	REMARKS



A

DETAILS CONNECTION BETWEEN PLANTER SOIL & PAVEMENT REINFORCED CONCRETE PARAPET

SCALE 1 : 10



B

DETAILS CONNECTION BETWEEN PLANTER SOIL & ASPHALT REINFORCED CONCRETE PARAPET

SCALE 1 : 10

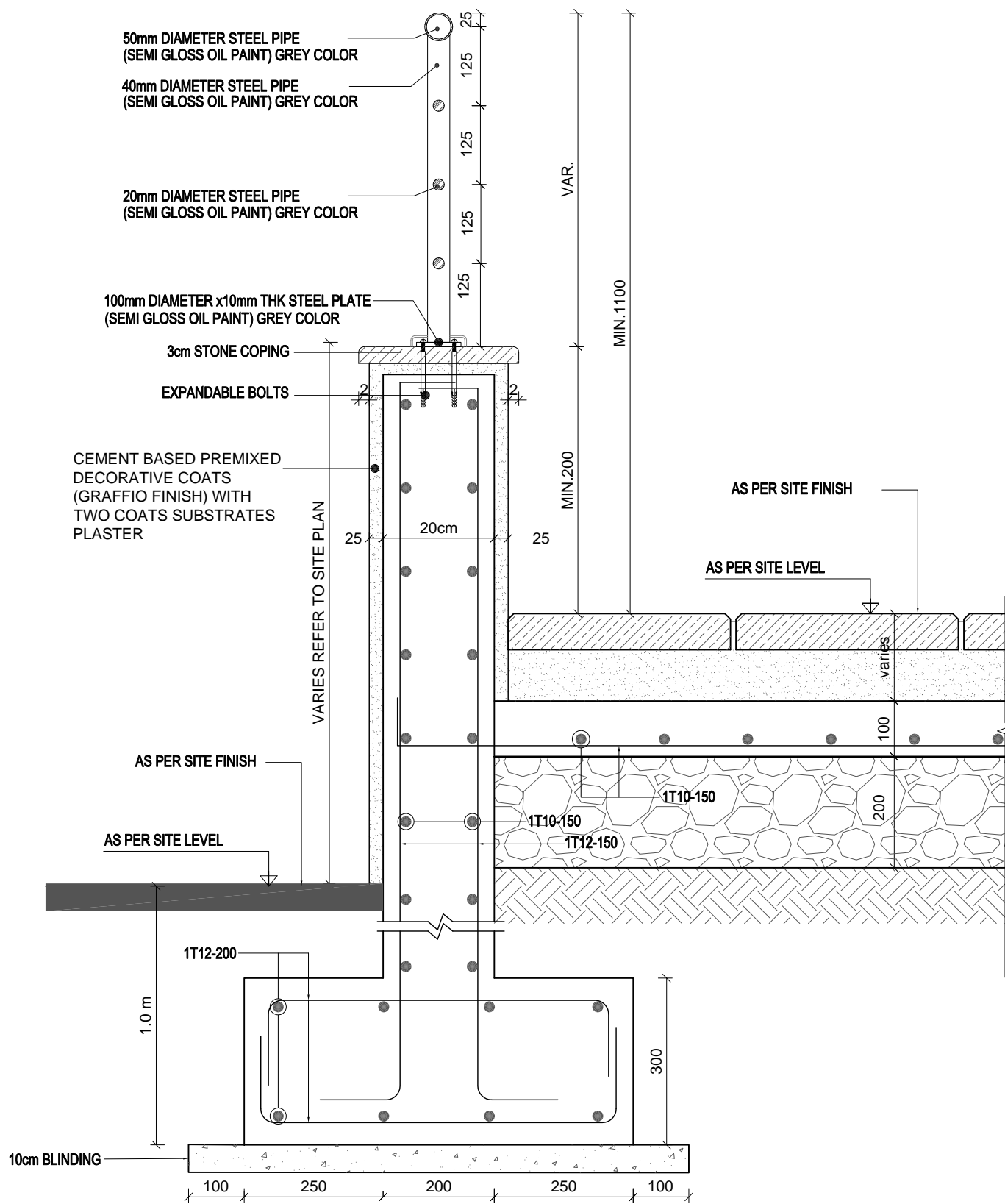
REV.	DATE	REMARKS



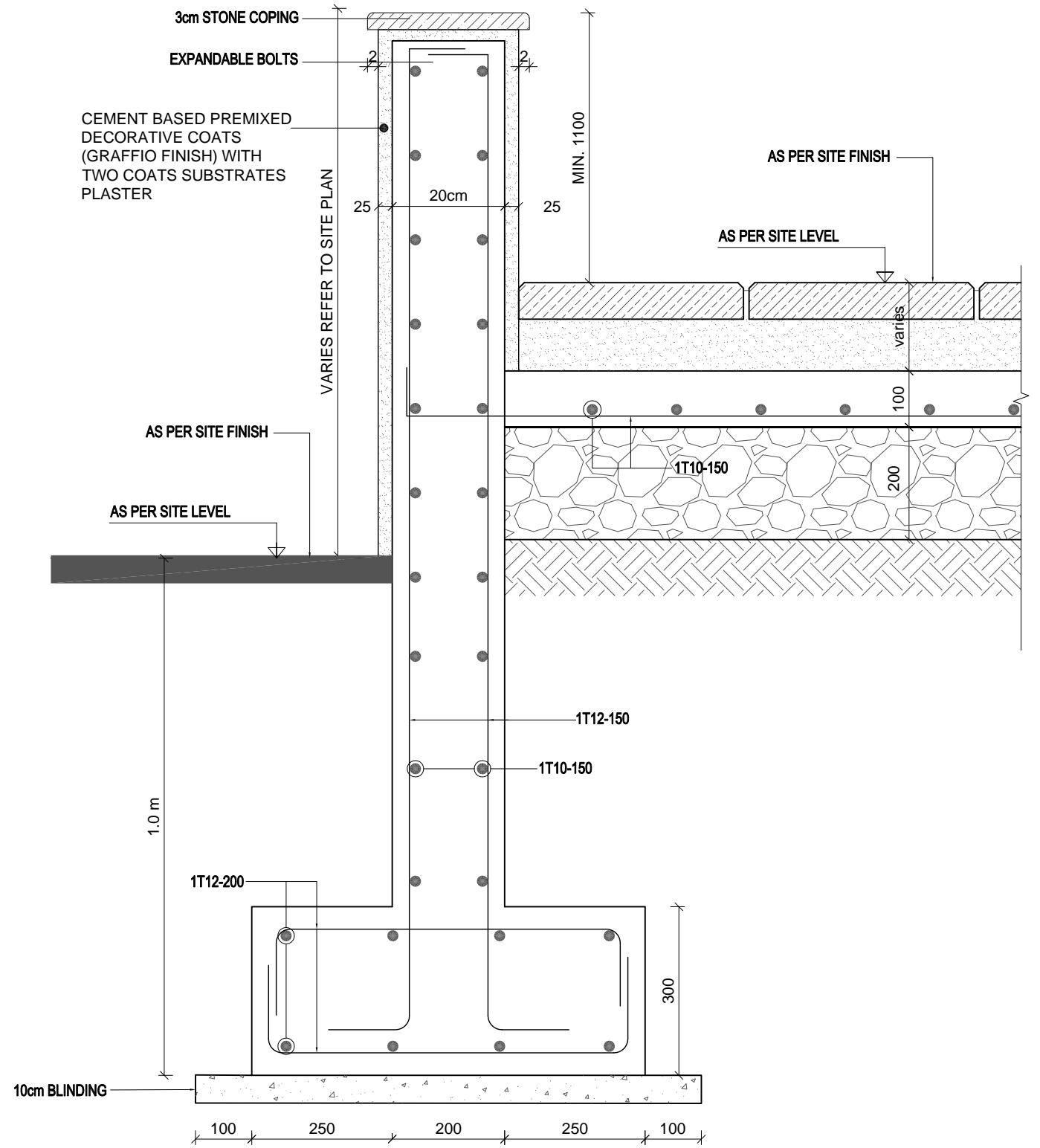
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL SITE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-08
Date: June 2020	SCALE : 1:10	



A PARAPET WALL DETAILS WITH TUBE HANDRAIL
SCALE 1 : 10



B DETAILS CONNECTION BETWEEN DIFFERENT LEVELS
SCALE 1 : 10

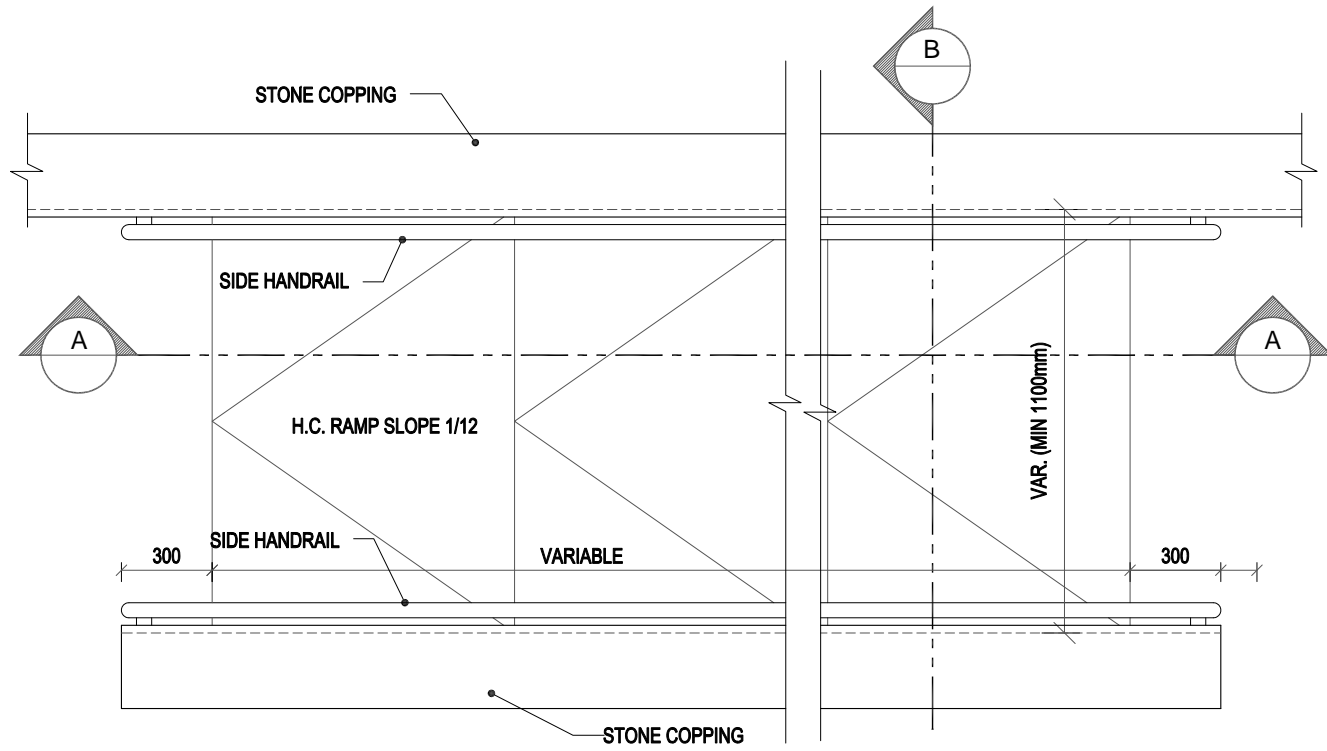
REV.	DATE	REMARKS



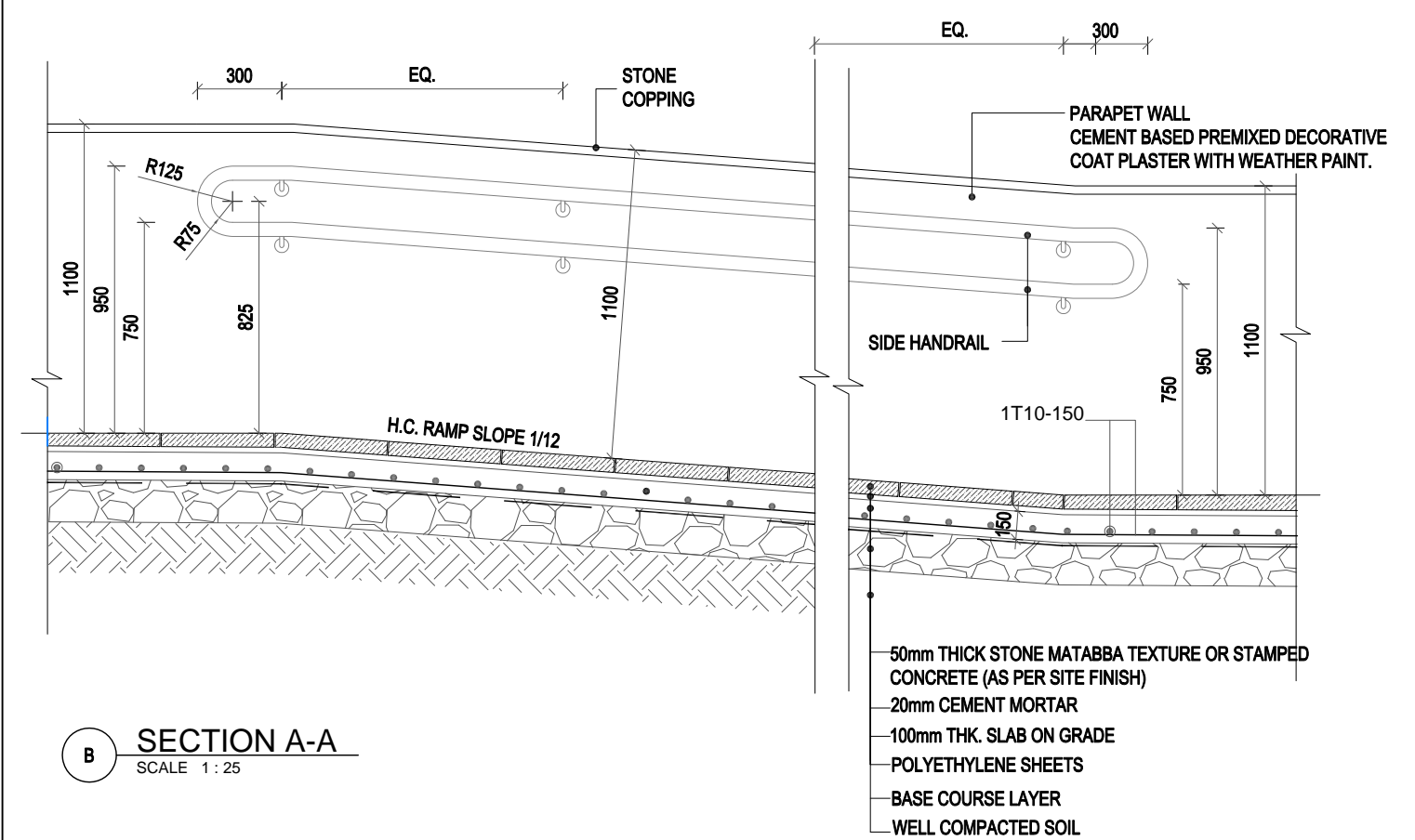
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL SITE DETAILS

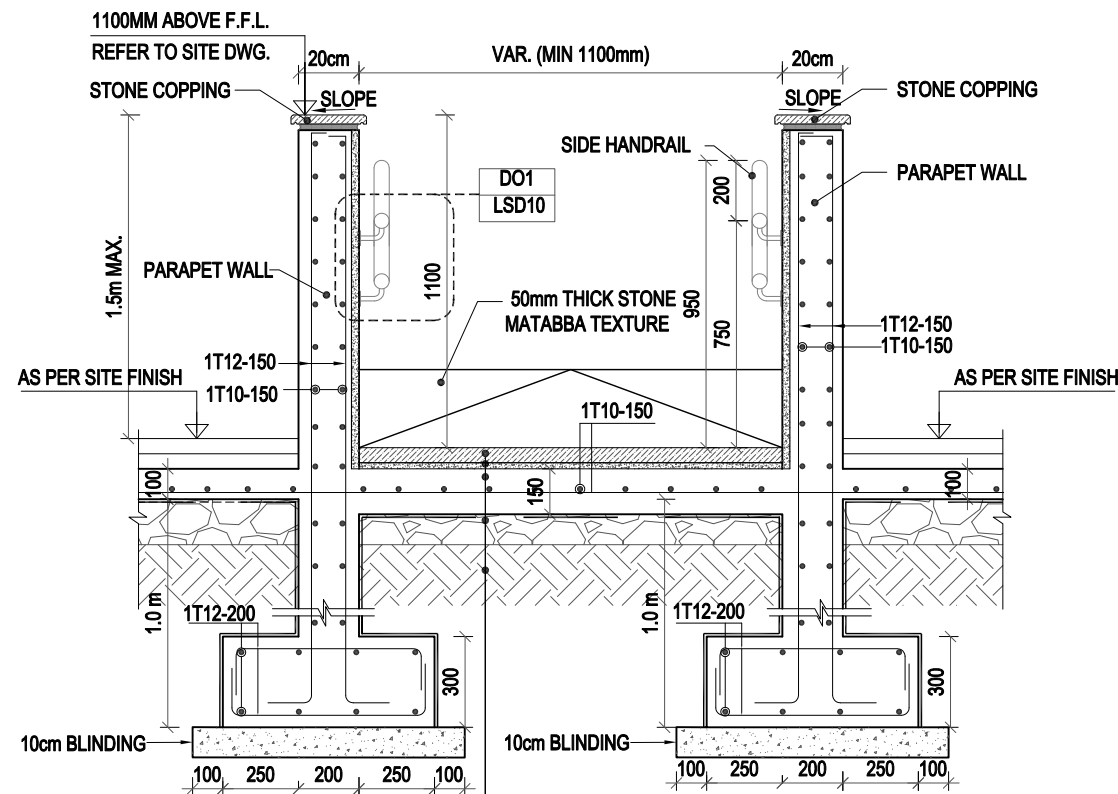
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-09
Date: June 2020	SCALE: 1:10	



A DISABLED RAMP PLAN
SCALE 1 : 25



B SECTION A-A
SCALE 1 : 25



C SECTION B-B
SCALE 1 : 25

50mm THICK STONE MATABBA TEXTURE OR STAMPED
CONCRETE (AS PER SITE FINISH)

20mm CEMENT MORTAR

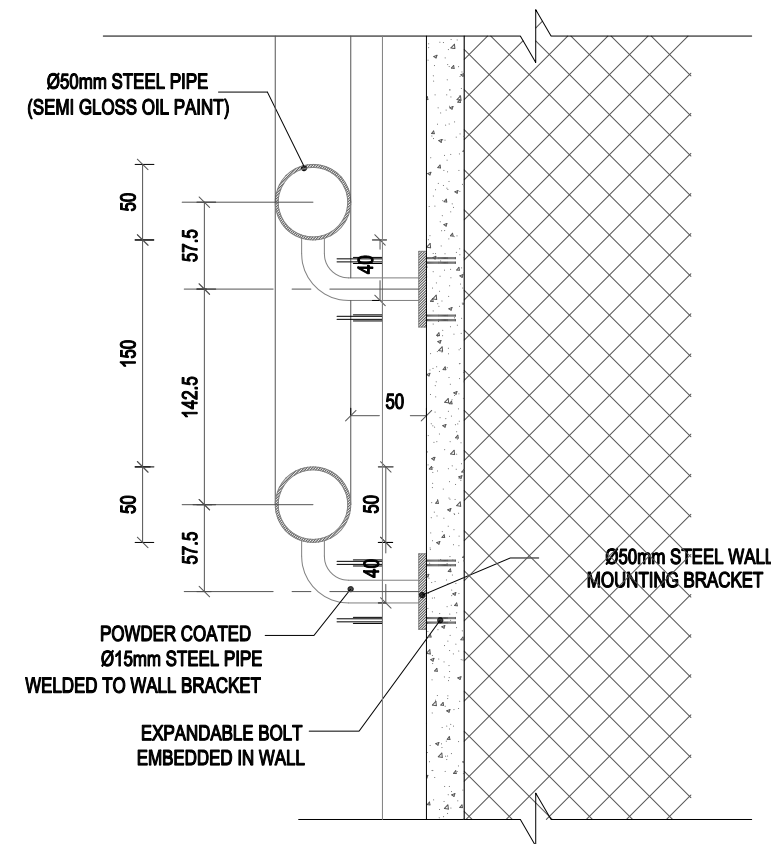
100mm THK. SLAB ON GRADE

POLYETHYLENE SHEETS

BASE COURSE LAYER

WELL COMPACTED SOIL

*REFER TO STRUCTURAL DETAILS FOR EACH SCHOOL



D DISABLED SIDE HANDRAIL DETAIL (D01)
SCALE 1 : 5

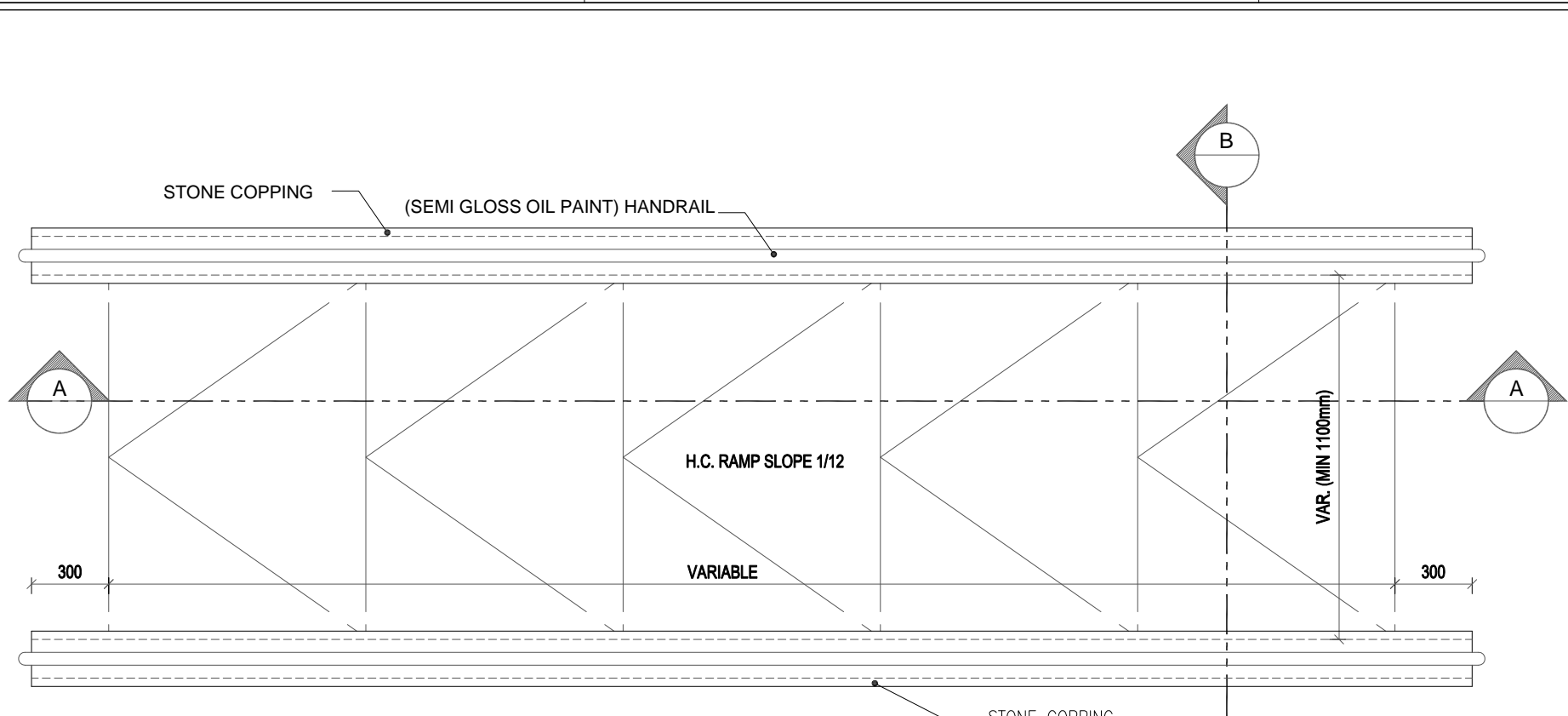
REV.	DATE	REMARKS



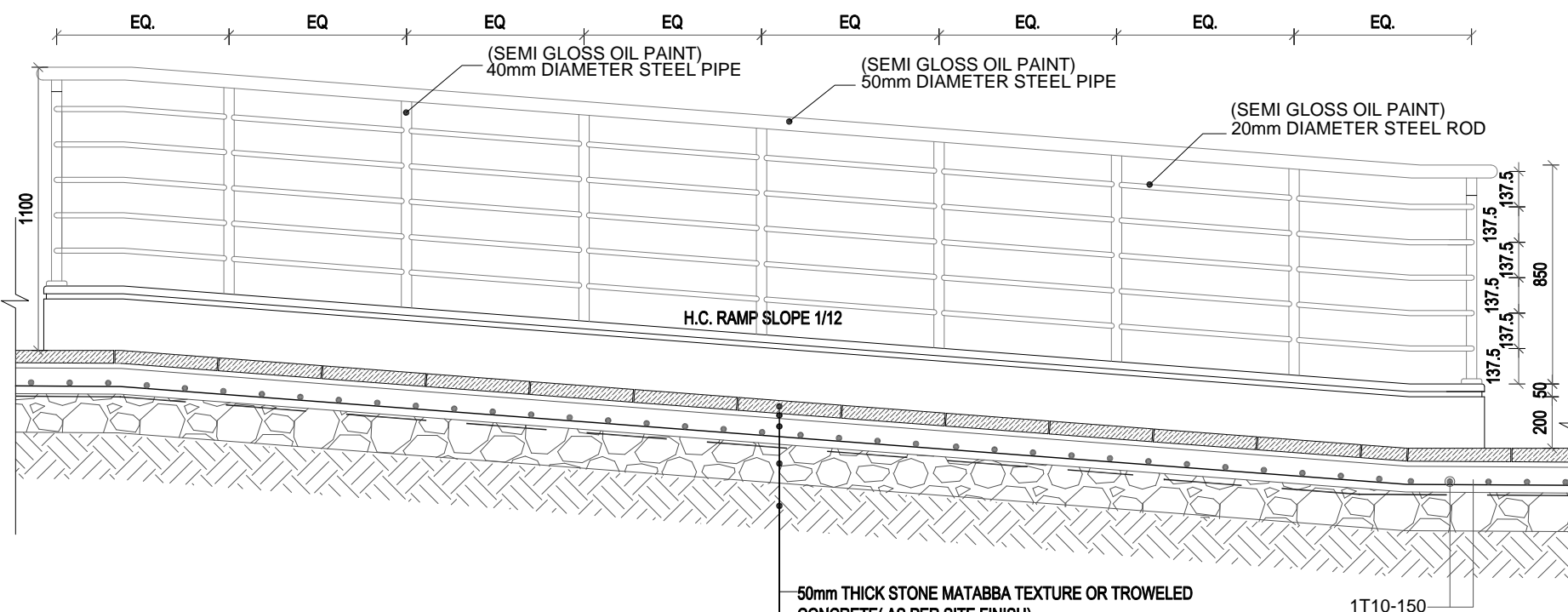
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
DISABLED RAMP DETAILS

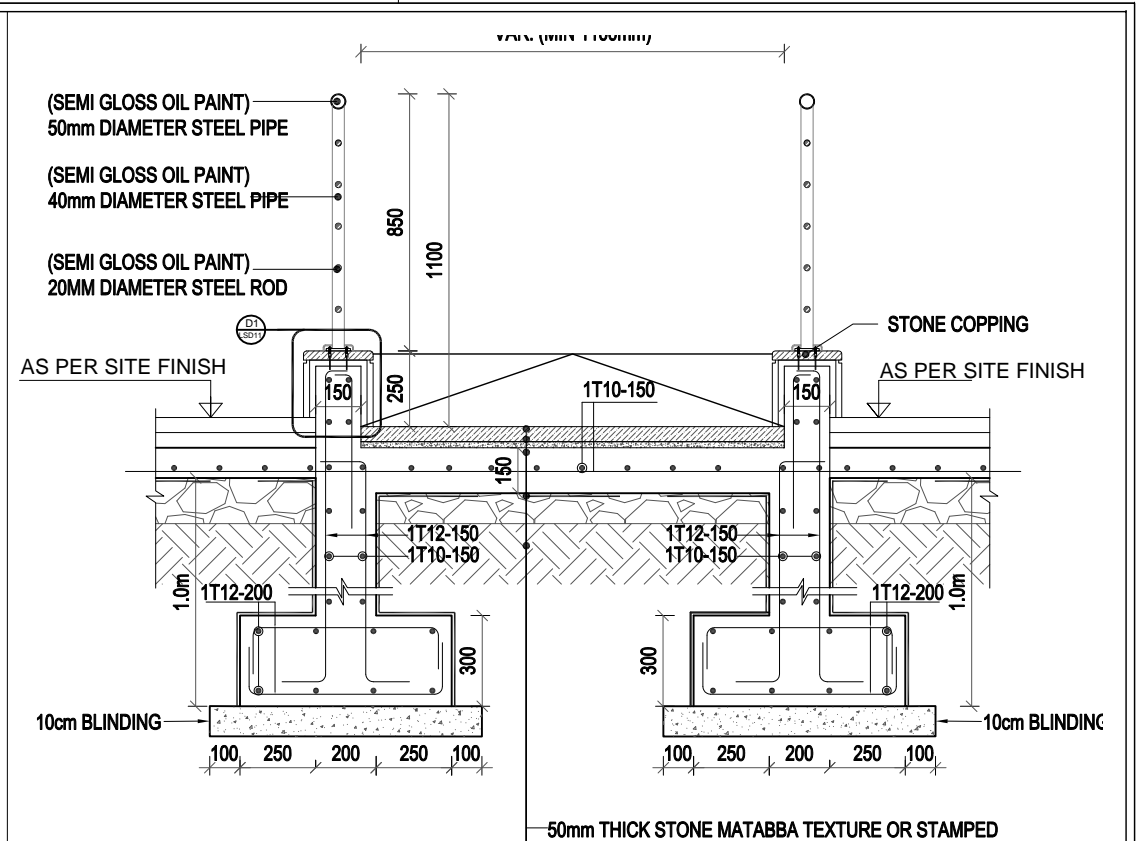
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-10
Date: June 2020	SCALE : AS SHOWN	



A **DISABLED RAMP PLAN**
SCALE 1 : 25

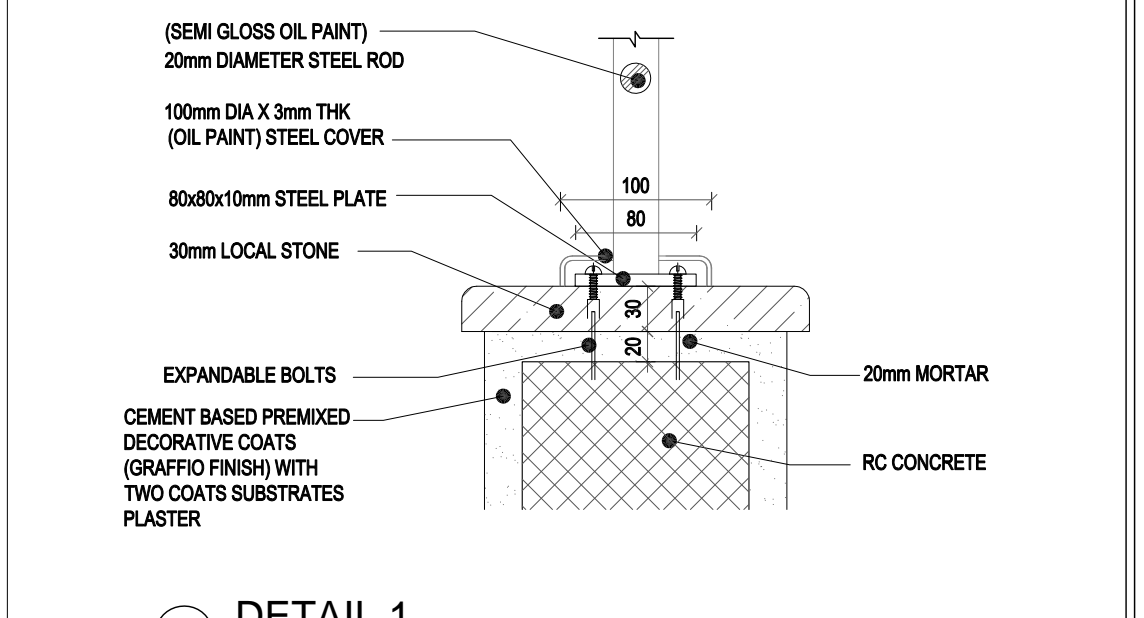


C **SECTION A-A**
SCALE 1 : 25



B **SECTION B-B**
SCALE 1 : 25

- 50mm THICK STONE MATABBA TEXTURE OR STAMPED CONCRETE (AS PER SITE FINISH)
- 20mm CEMENT MORTAR
- 100mm THK. SLAB ON GRADE
- POLYETHYLENE SHEETS
- BASE COURSE LAYER
- WELL COMPACTED SOIL



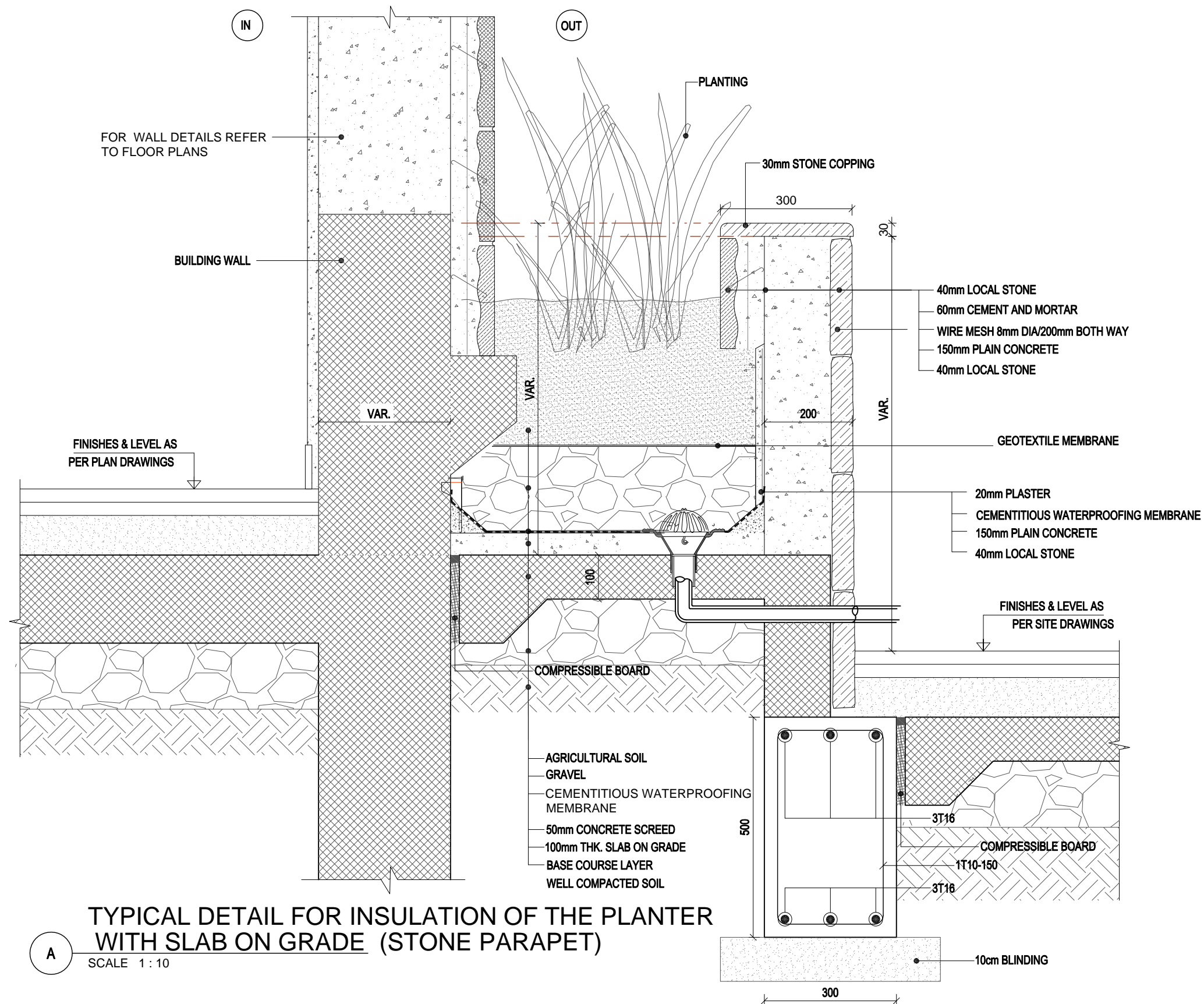
D1 **DETAIL 1**
SCALE 1 : 5

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME: DISABLED RAMP DETAILS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-11
		Date: June 2020	SCALE : AS SHOWN	



TYPICAL DETAIL FOR INSULATION OF THE PLANTER WITH SLAB ON GRADE (STONE PARAPET)

A

SCALE 1 : 10

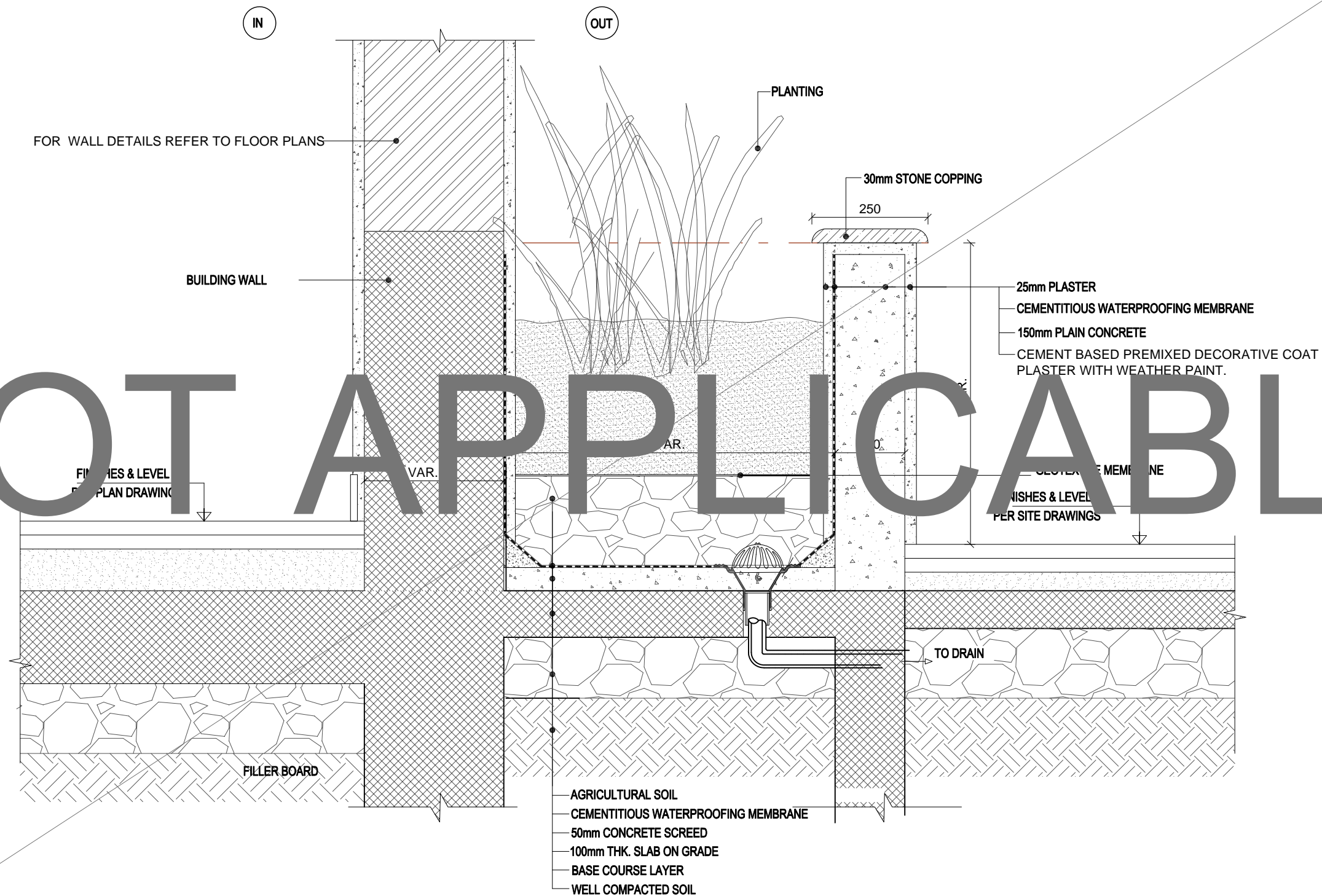
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

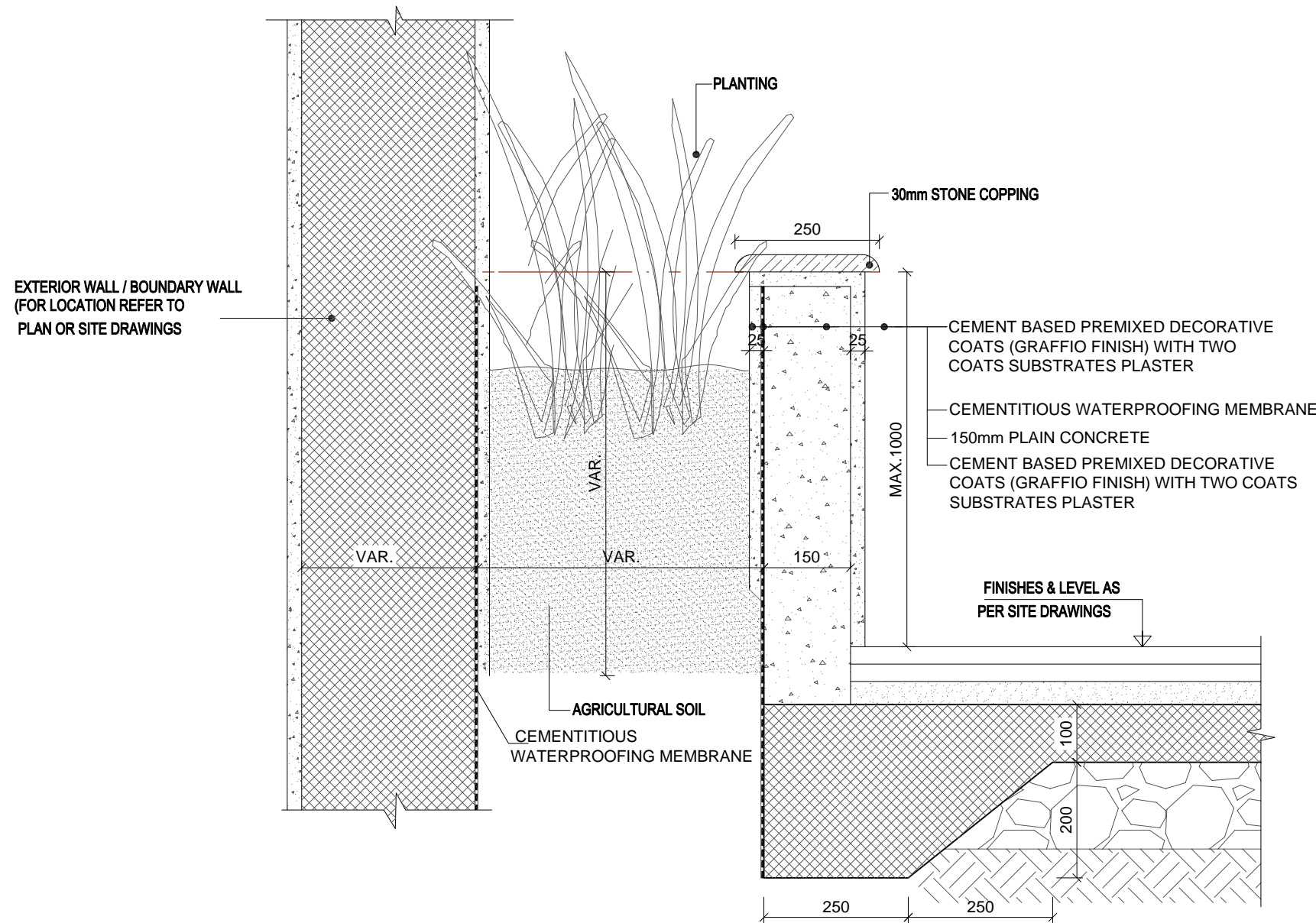
DRAWING NAME:		REVISION No. :
Design:	Drawn:	0
H.B.	Engicon	
Checked:	Approved:	SHEET NUMBER:
M.Sh.	S.B.	LSD-12
Date:	SCALE :	
June 2020	1:10	

NOT APPLICABLE

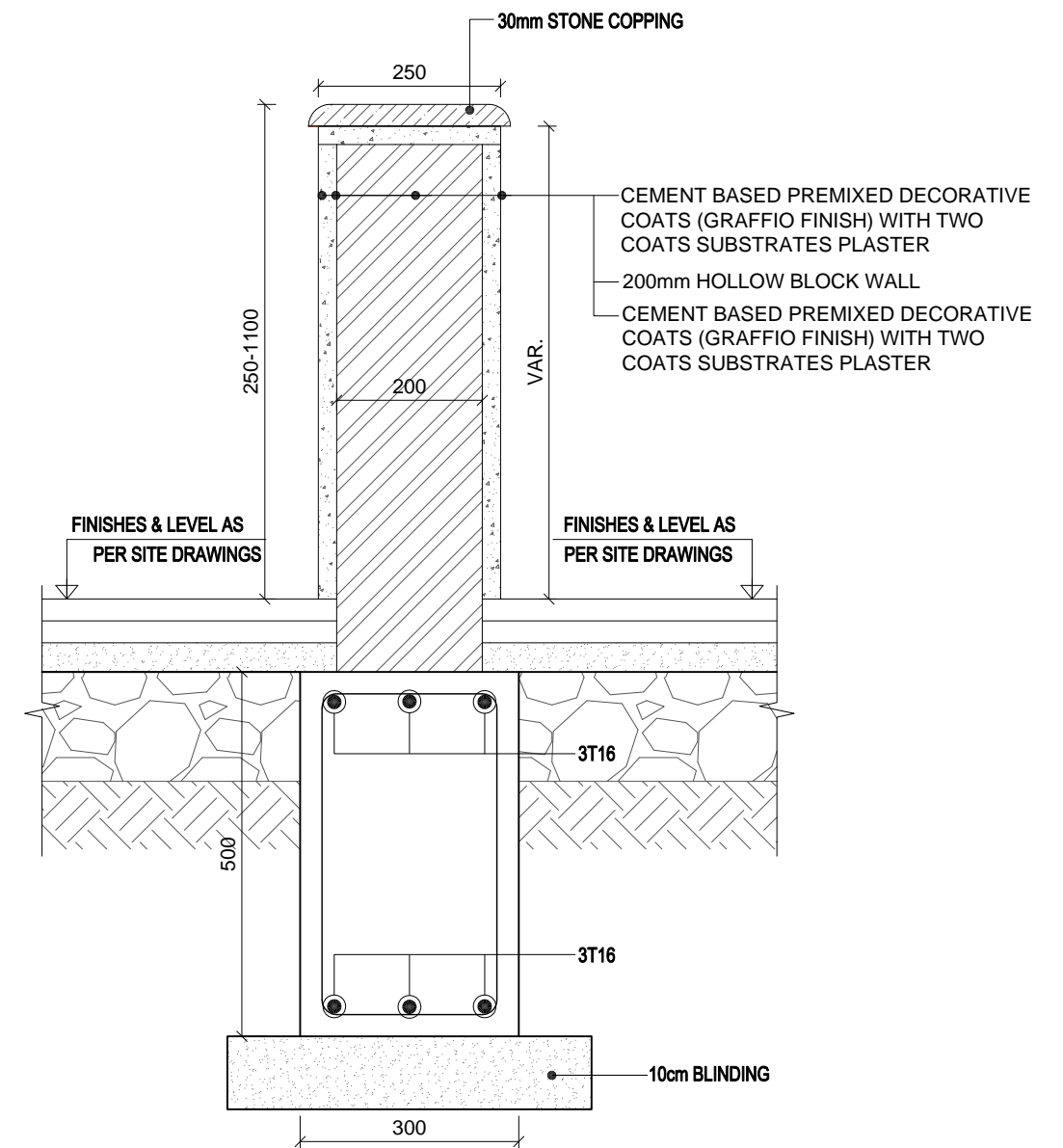


TYPICAL DETAIL FOR INSULATION OF THE PLANTER WITH SLAB ON GRADE (PLASTER AND PAINT WALL PARAPET)
 SCALE 1 : 10

A



A TYPICAL DETAIL FOR INSULATION OF THE PLANTER WITHOUT SLAB ON GRADE
SCALE 1:10



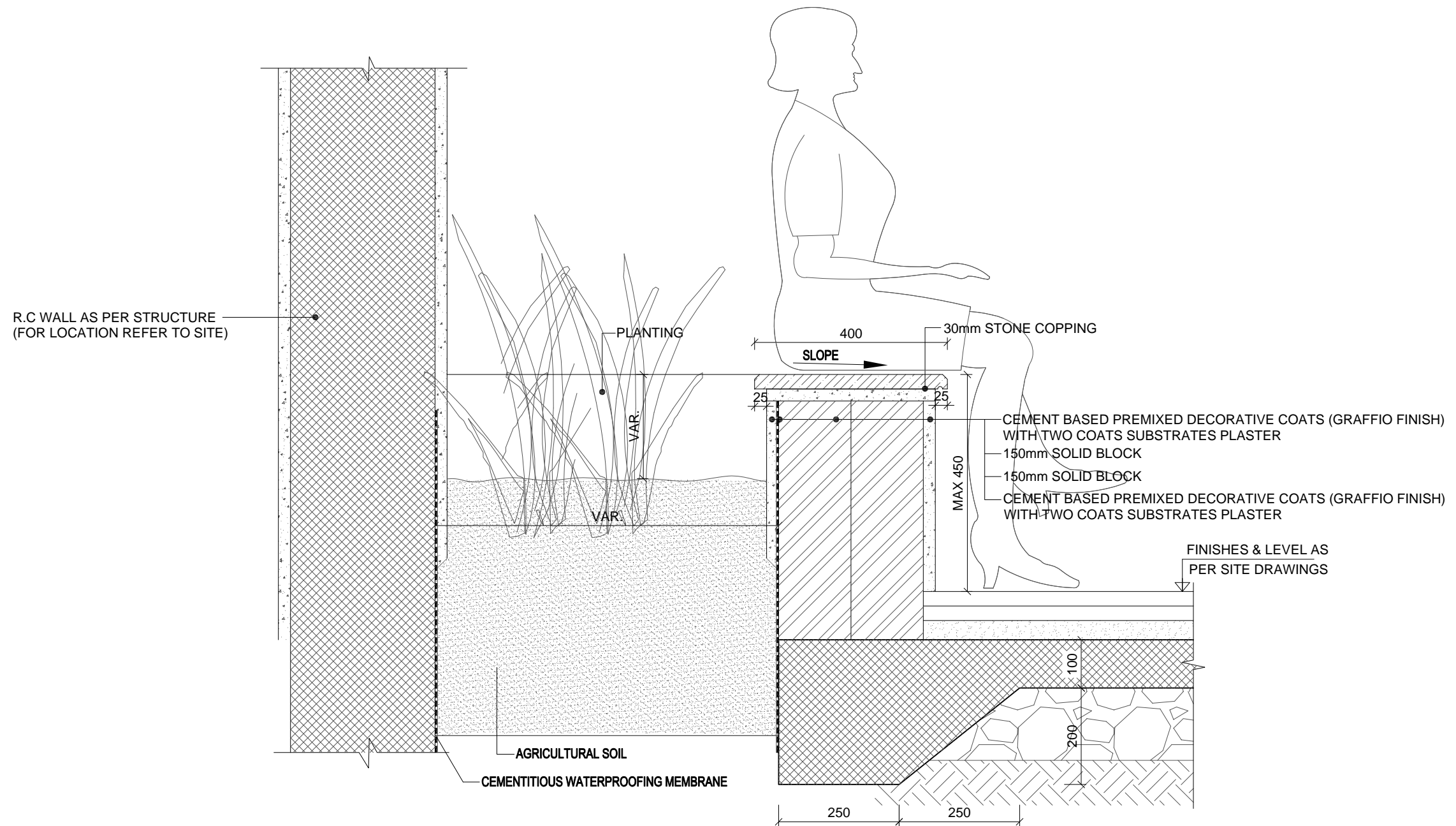
B TYPICAL DETAIL (BLOCK WALL PARAPET)
SCALE 1:10

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	DRAWN:	REVISION No.:
TYPICAL SITE DETAILS		H.B.	Engicon	0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: 1:10	LSD-14



A TYPICAL DETAIL FOR PLANTER (SEATING WALL)
SCALE 1 : 10

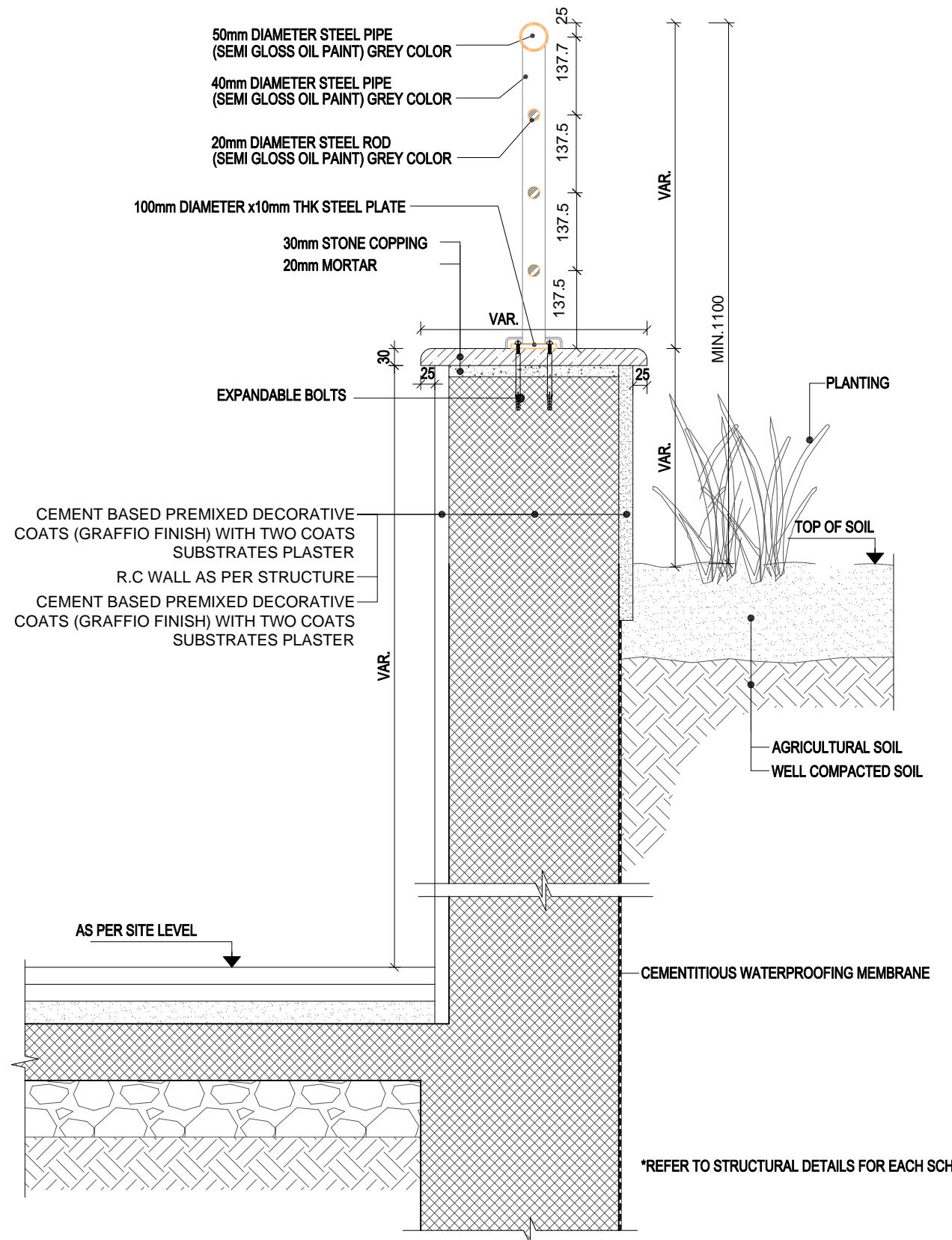
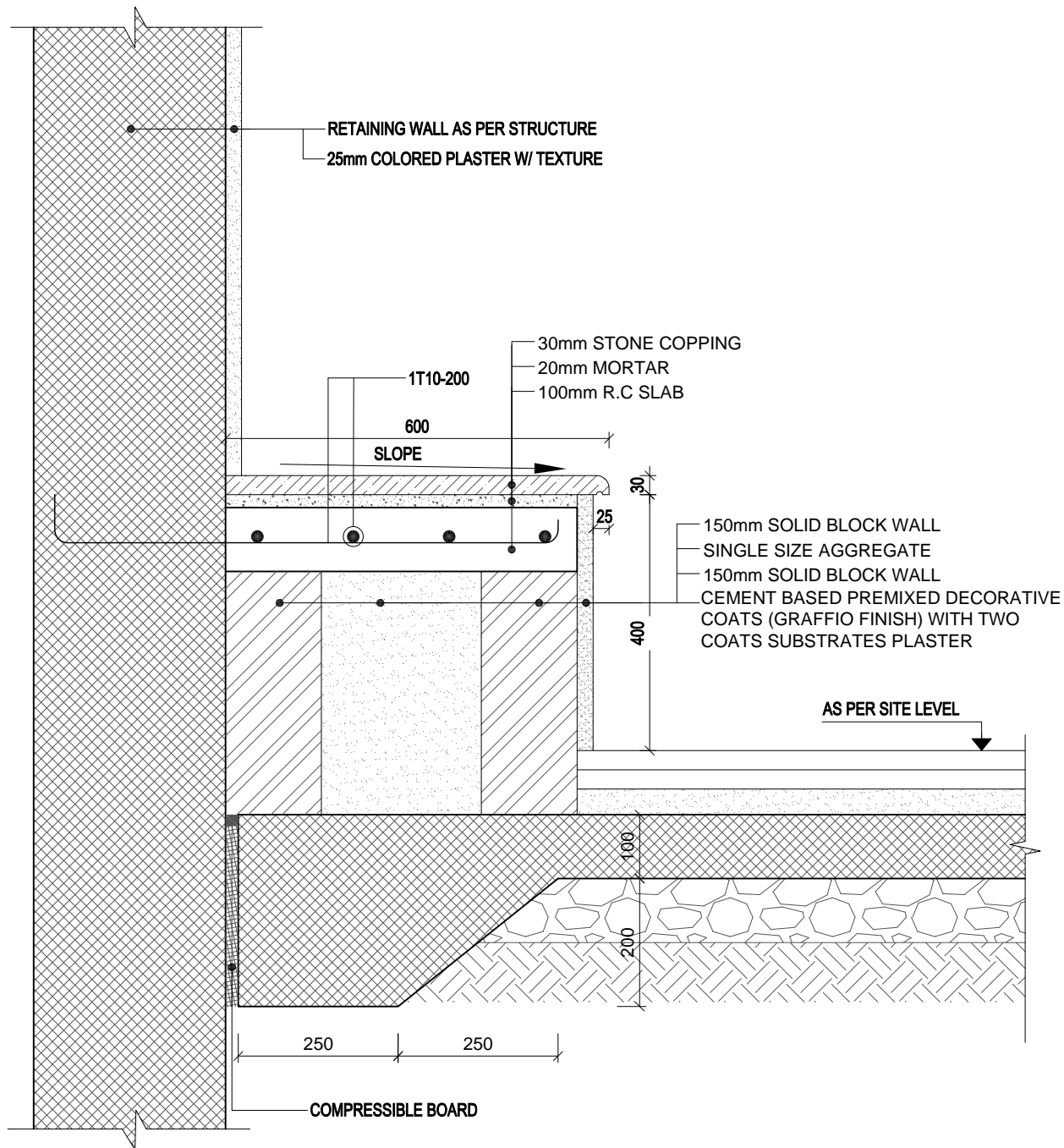
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

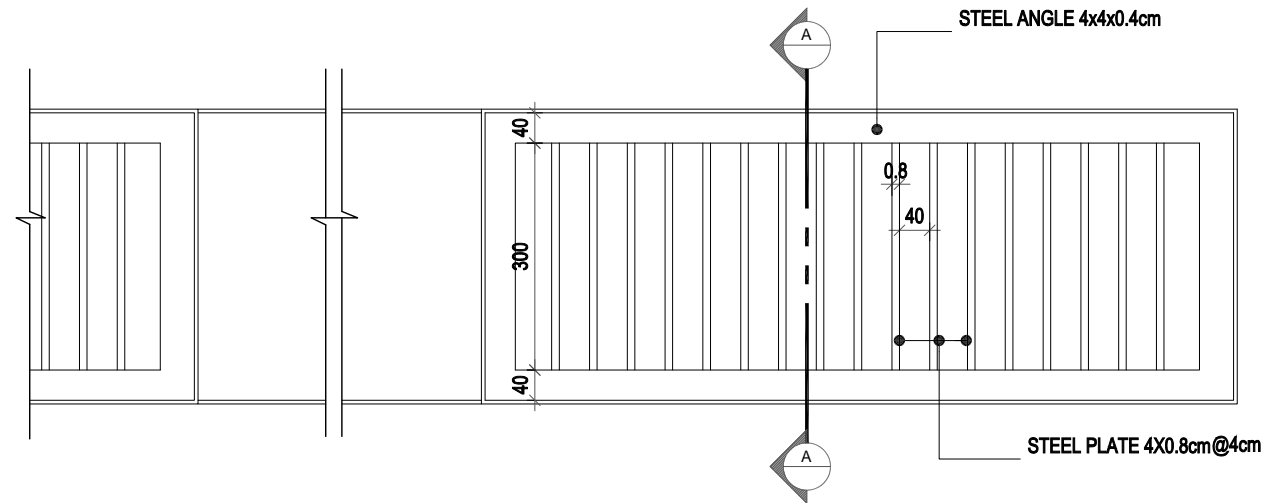
DRAWING NAME:
TYPICAL SITE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-15
Date: June 2020	SCALE : 1:10	

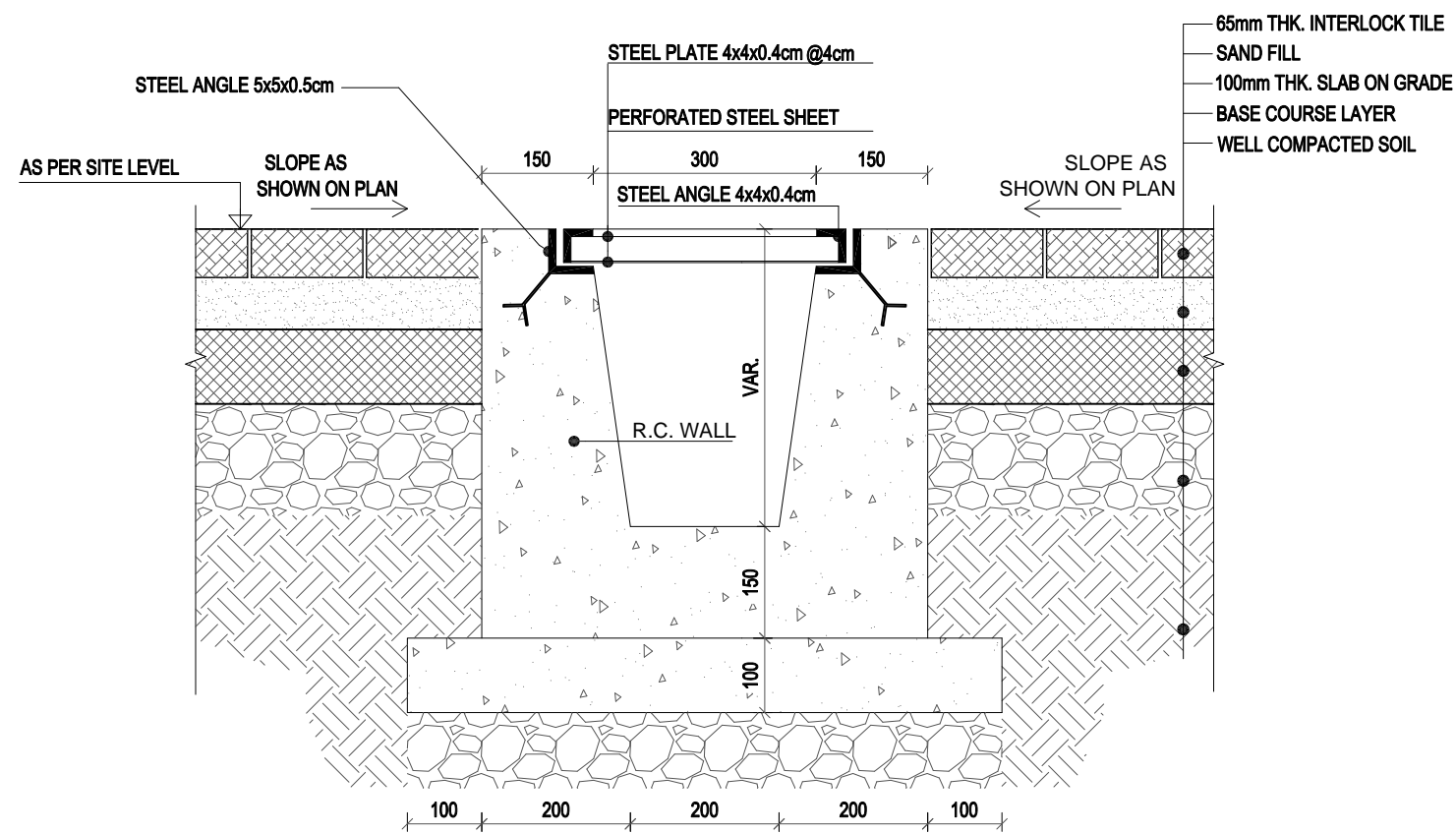


A PARAPET WITH STONE COPPING DETAIL (STUDENTS SEAT)
SCALE 1 : 10

B PARAPET WITH STONE COPPING DETAIL
SCALE 1 : 10



A RAIN WATER TRENCH PLAN
SCALE 1 : 10



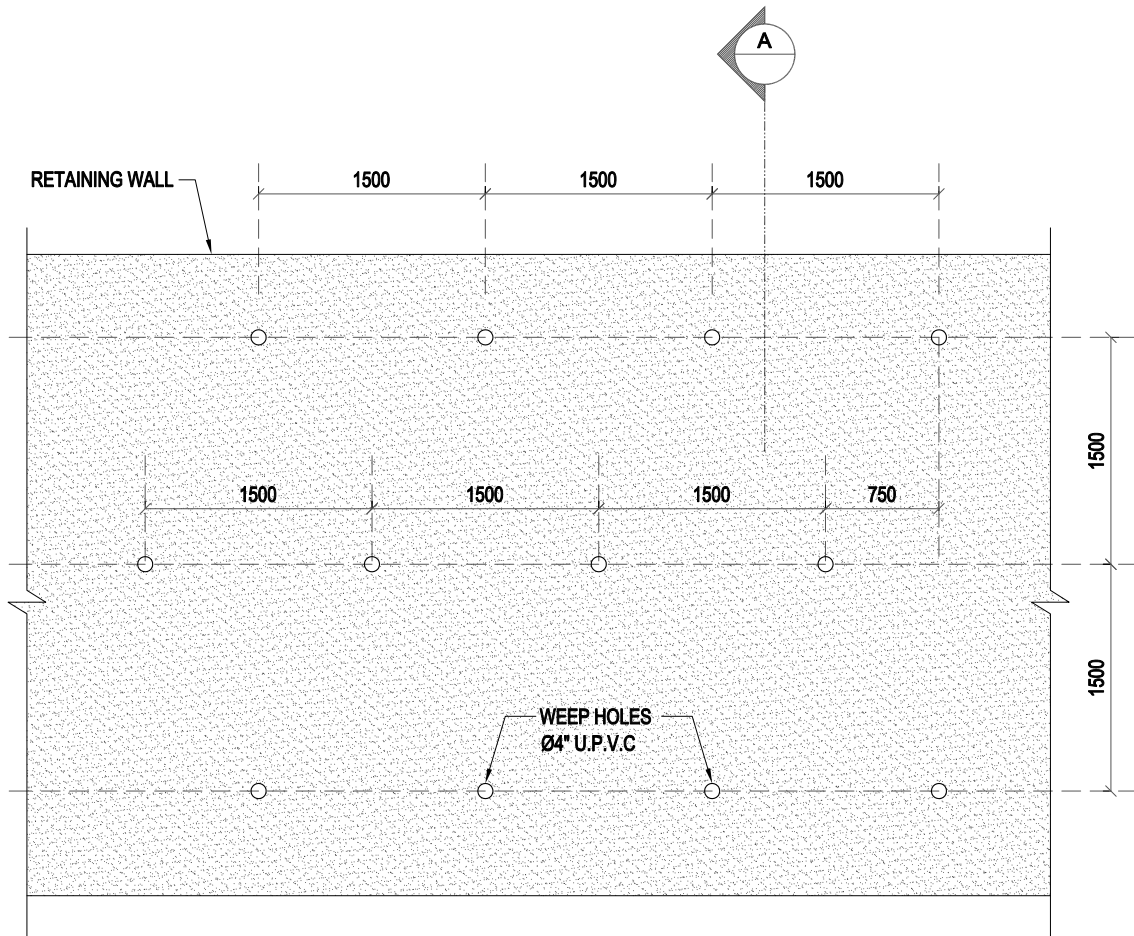
B RAIN WATER TRENCH SECTION 1-1
SCALE 1 : 10

REV.	DATE	REMARKS

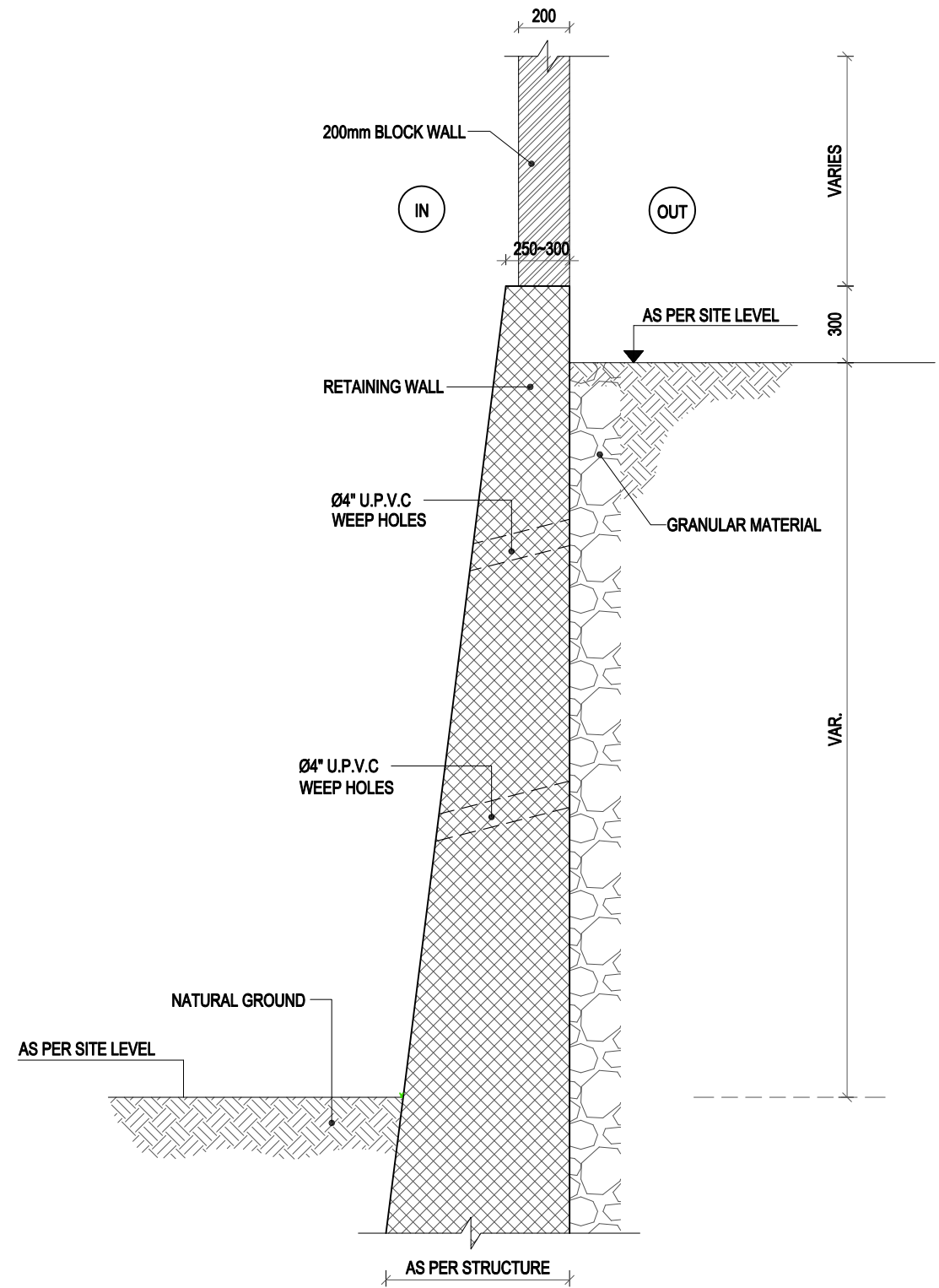


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: RAIN WATER TRENCH		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE : AS SHOWN	LSD-17



A WEEP HOLES @ RETAINING WALL ELEVATION
SCALE 1 : 50



B SECTION (A-A)
SCALE 1 : 25

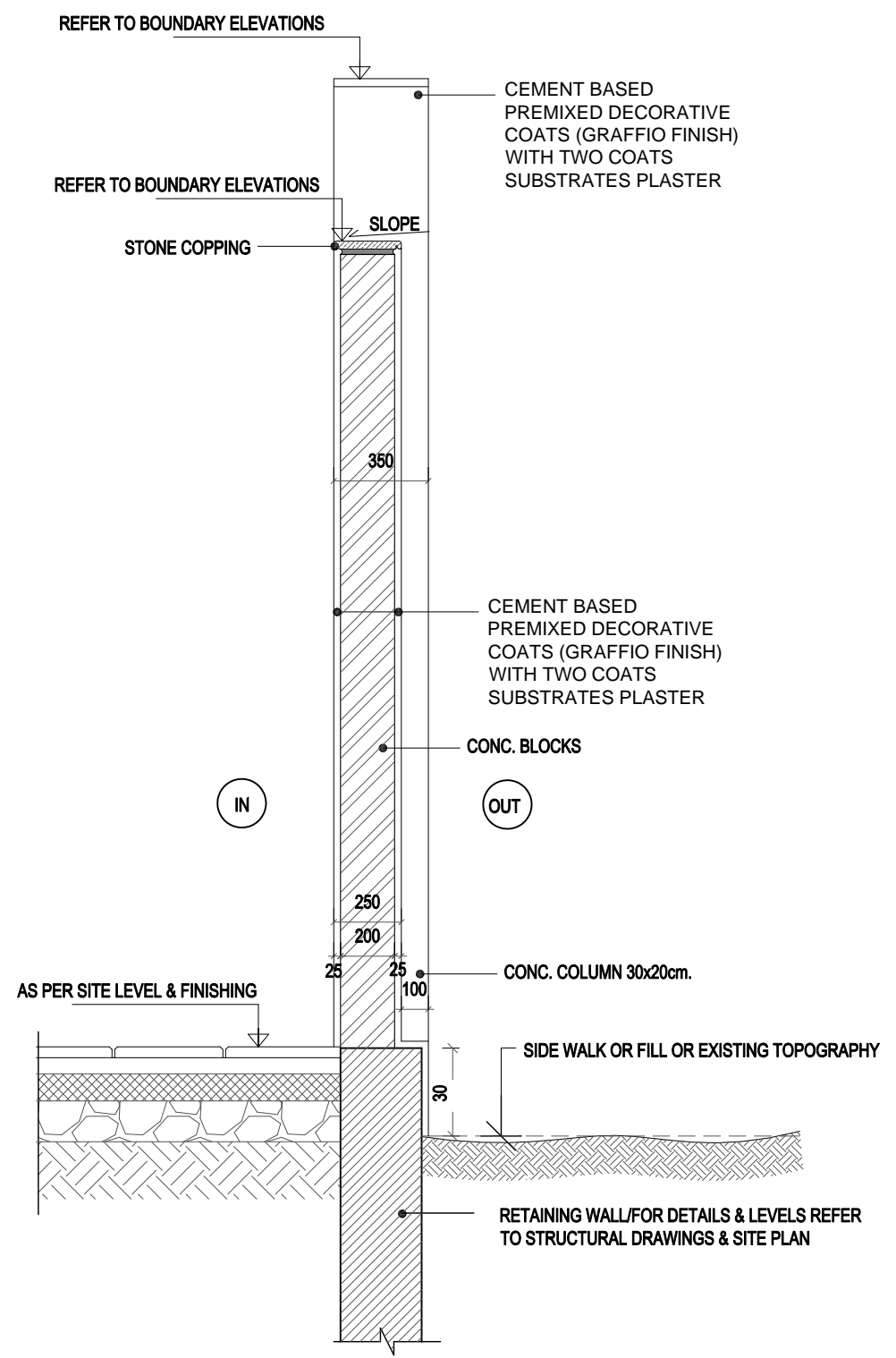
REV.	DATE	REMARKS



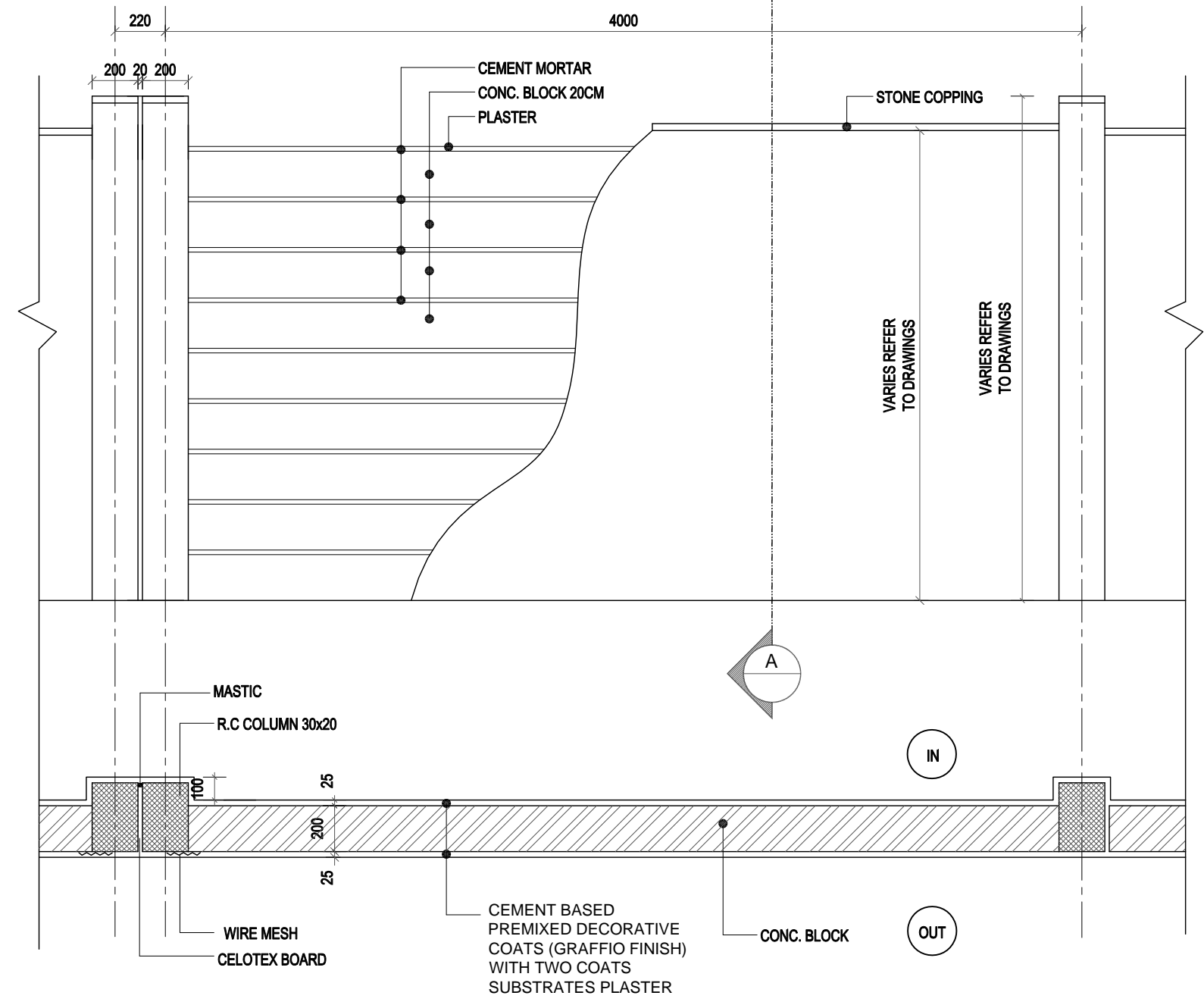
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
WEEP HOLES DETAILS

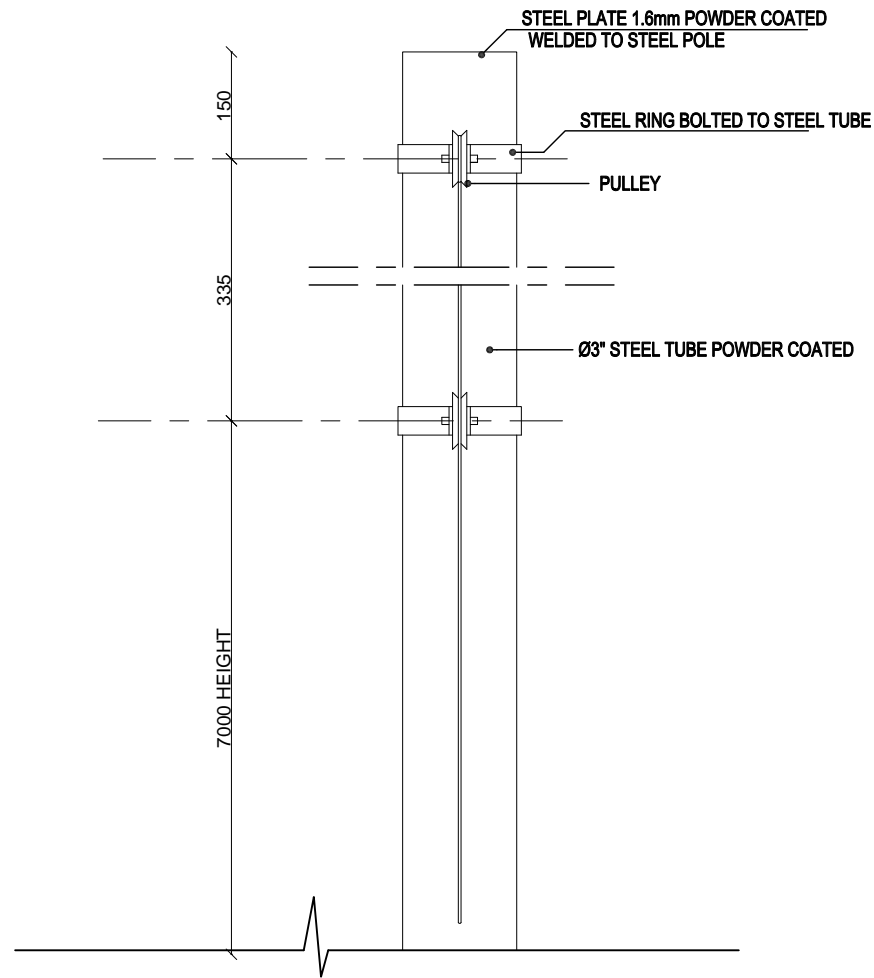
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-18
Date: June 2020	SCALE : AS SHOWN	



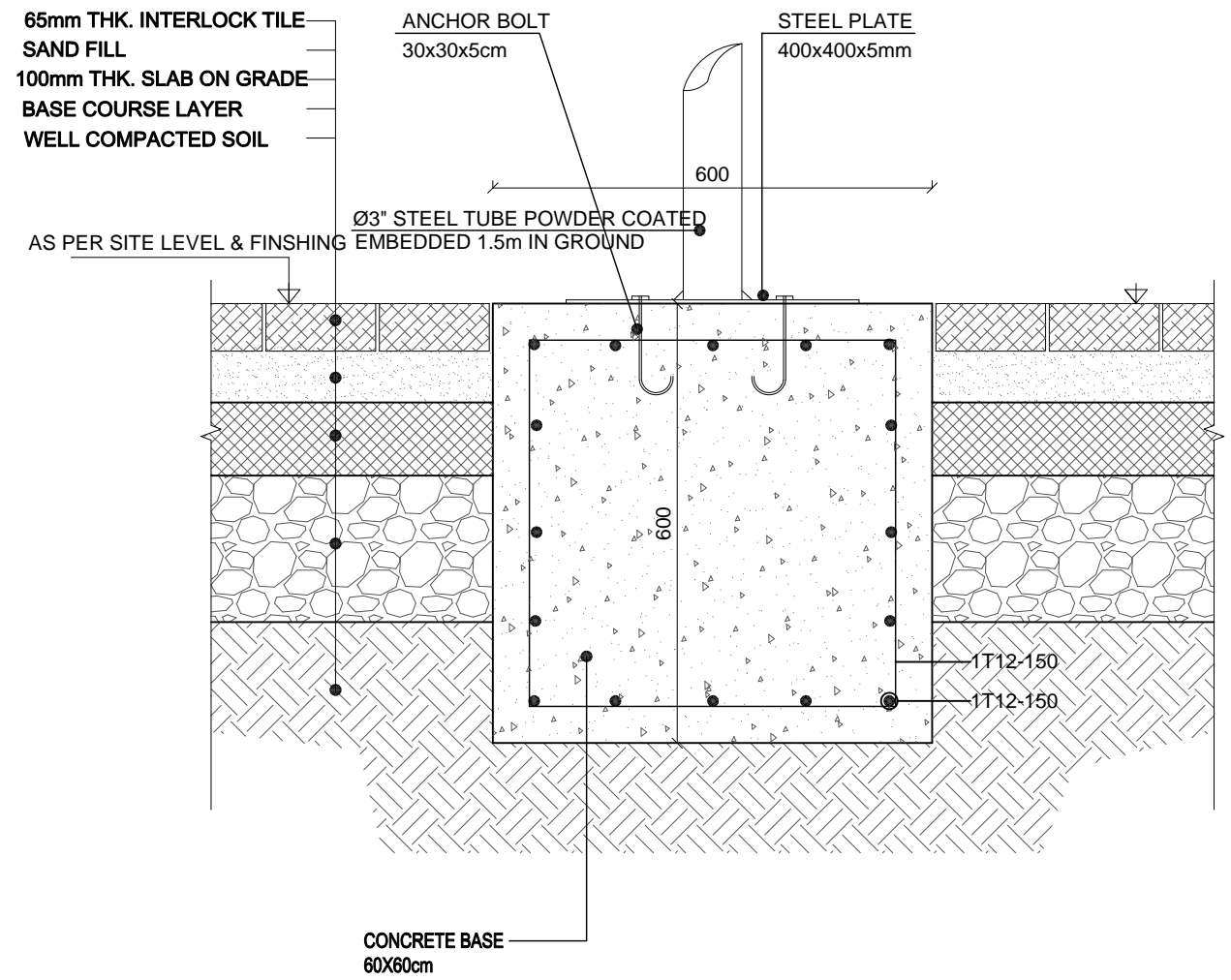
A BOUNDARY WALL SECTION (A-A)
SCALE 1:25



A BOUNDARY WALL PLAN & ELEVATION
SCALE 1:25



A FLAG POLE DETAIL/ ELEVATIONS
SCALE 1:5



B FLAG POLE DETAIL/ SECTION
SCALE 1:10

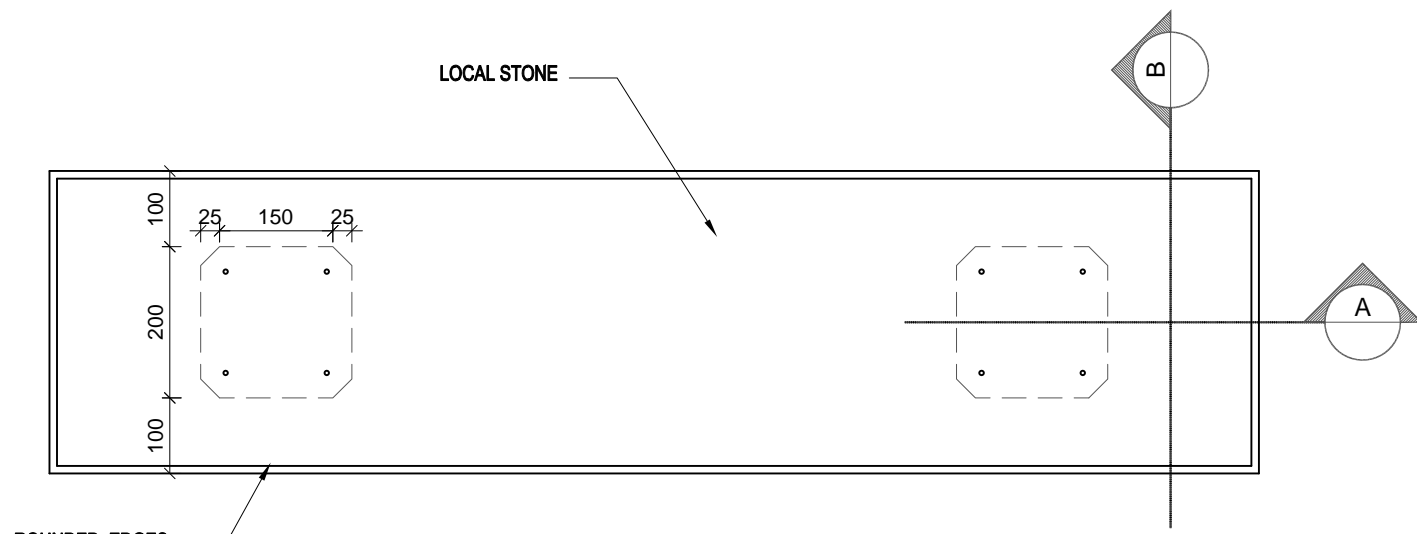
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

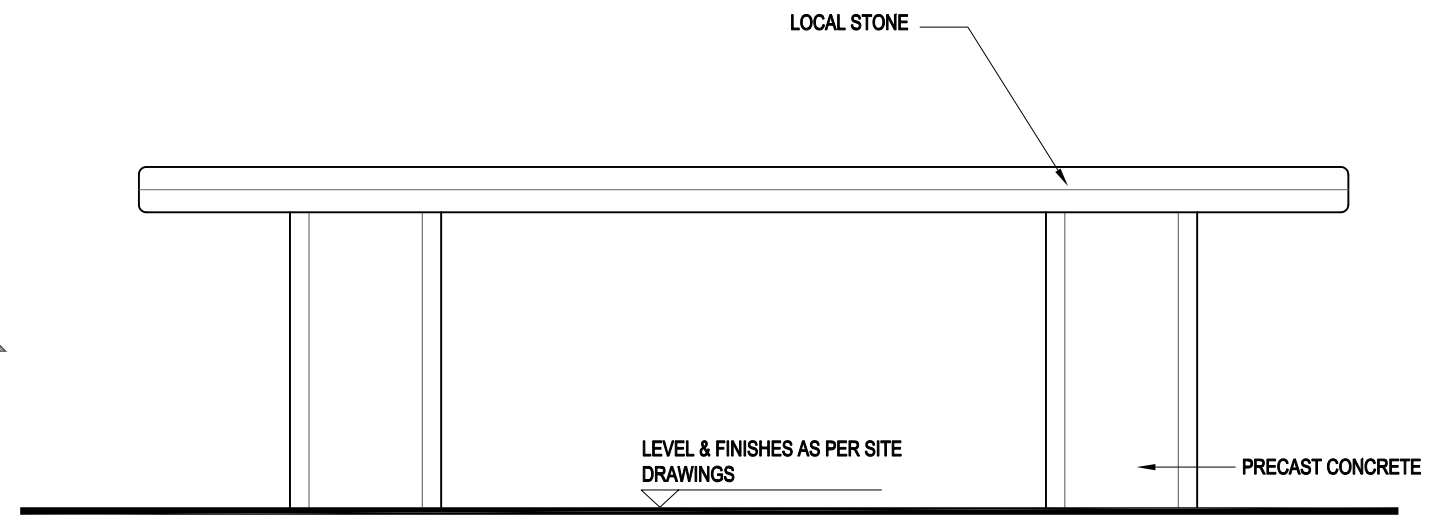
DRAWING NAME:
FLAG POLE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-20
Date: June 2020	SCALE : AS SHOWN	

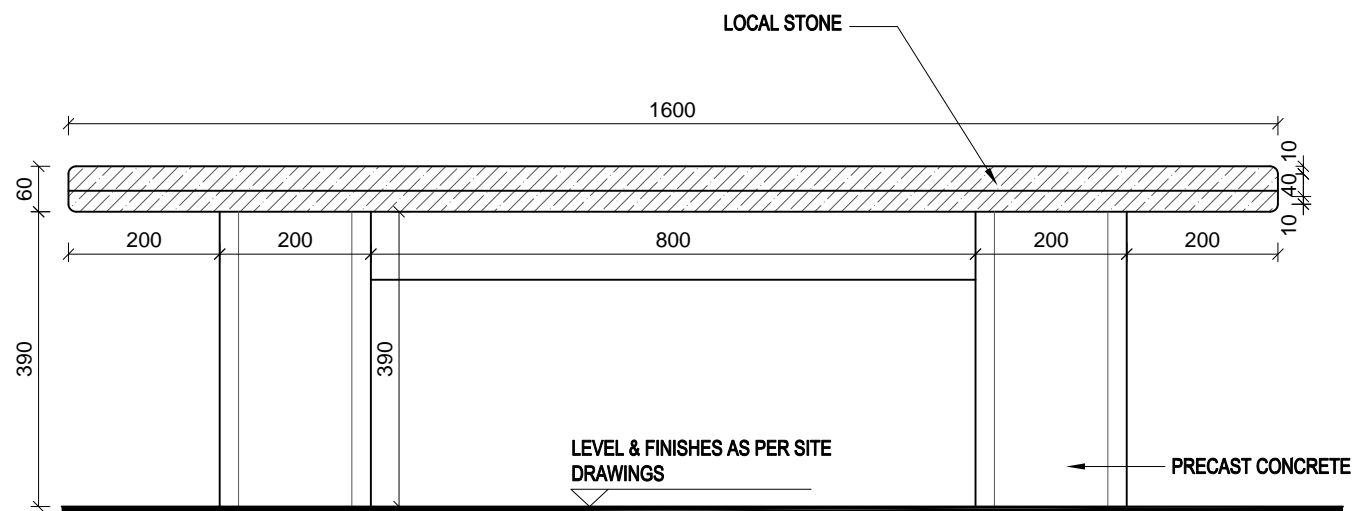


ROUNDED EDGES
R 10mm

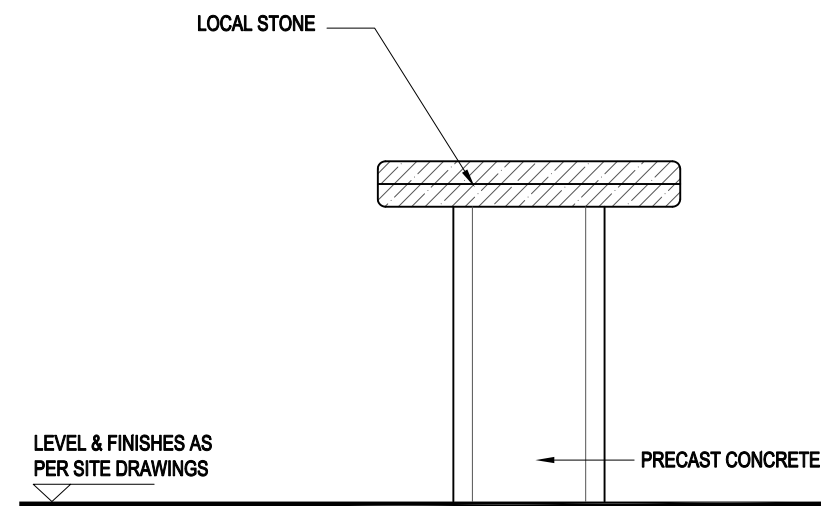
A STONE BENCH / TOP VIEW
SCALE 1 : 10



C STONE BENCH / ELEVATION
SCALE 1 : 10



C STONE BENCH / SECTION A-A
SCALE 1 : 10



D STONE BENCH / SECTION B-B
SCALE 1 : 10

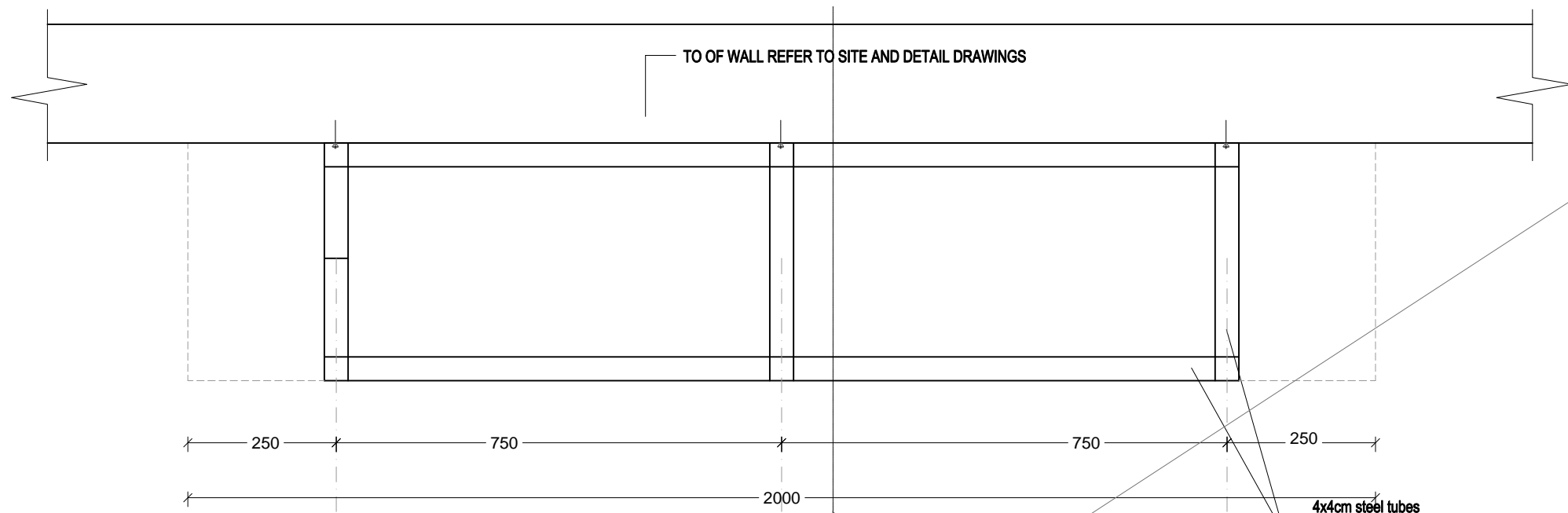
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

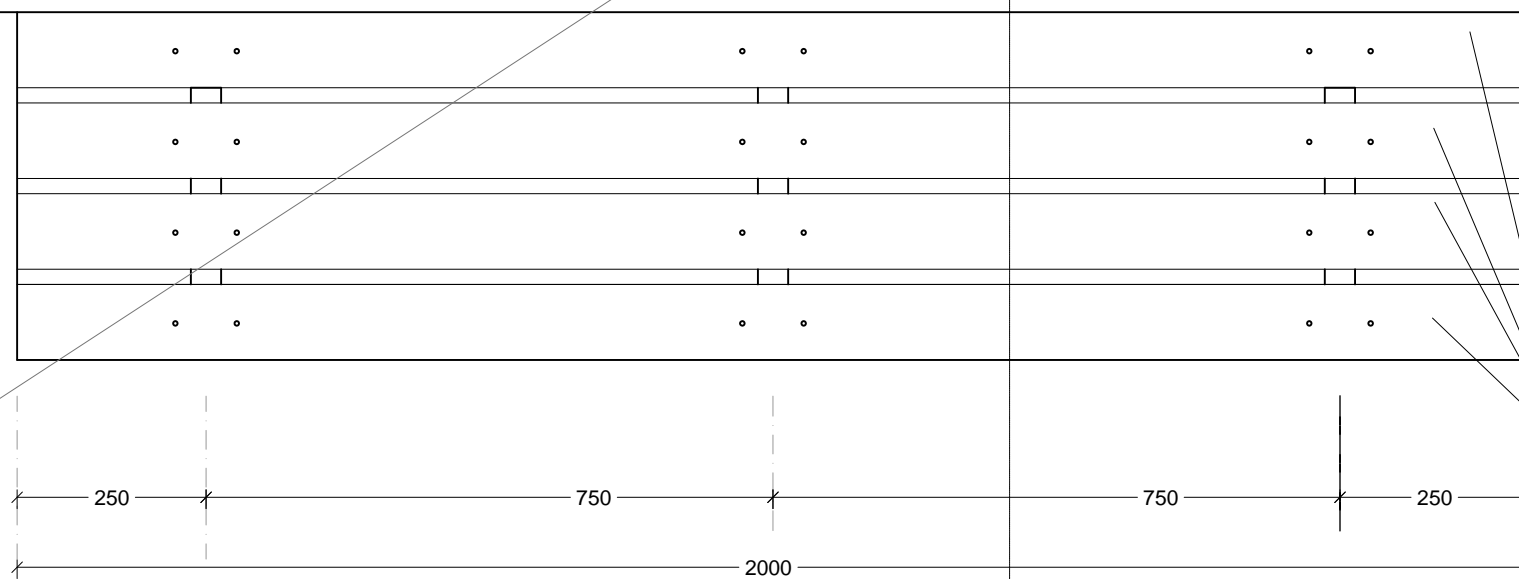
DRAWING NAME:
STONE BENCH DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE : 1:10	LSD-21



A WOODEN SEATING / DETAILED PLAN SHOWING THE STRUCTURAL SYSTEM
SCALE 1:10

NOT APPLICABLE



B WOODEN SEATING / TOP VIEW
SCALE 1:10

PINE WOOD STRIPS WATER BASE PAINT
THICK=4cm, WIDTH=10cm,
SPACE BETWEEN STRIPS = 2cm

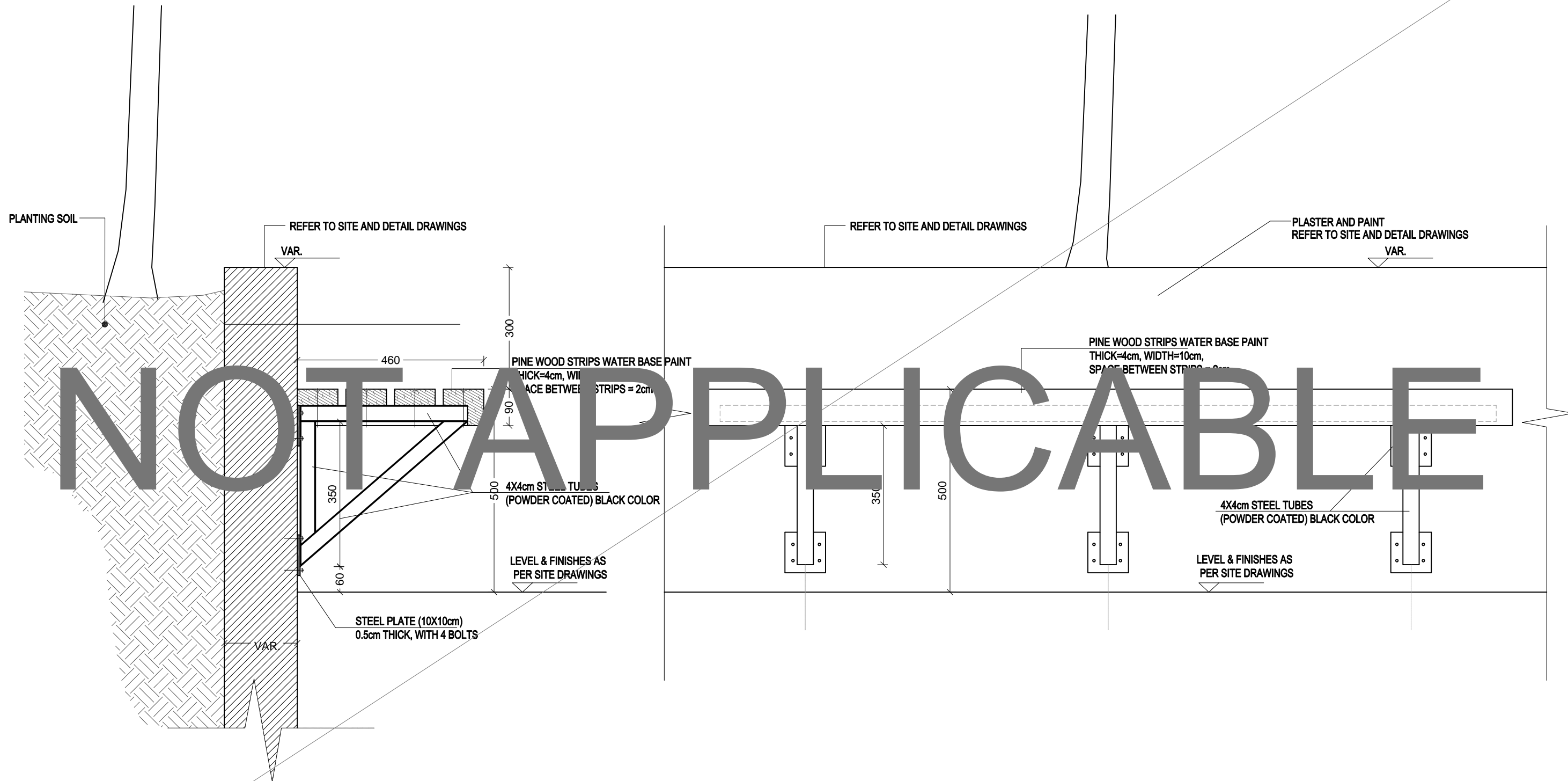
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
WOODEN BENCH TYPE (1) DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-22
Date: June 2020	SCALE : 1:10	



A WOODEN SEATING / SECTION A-A
SCALE 1 : 10

B WOODEN SEATING / ELEVATION
SCALE 1 : 10

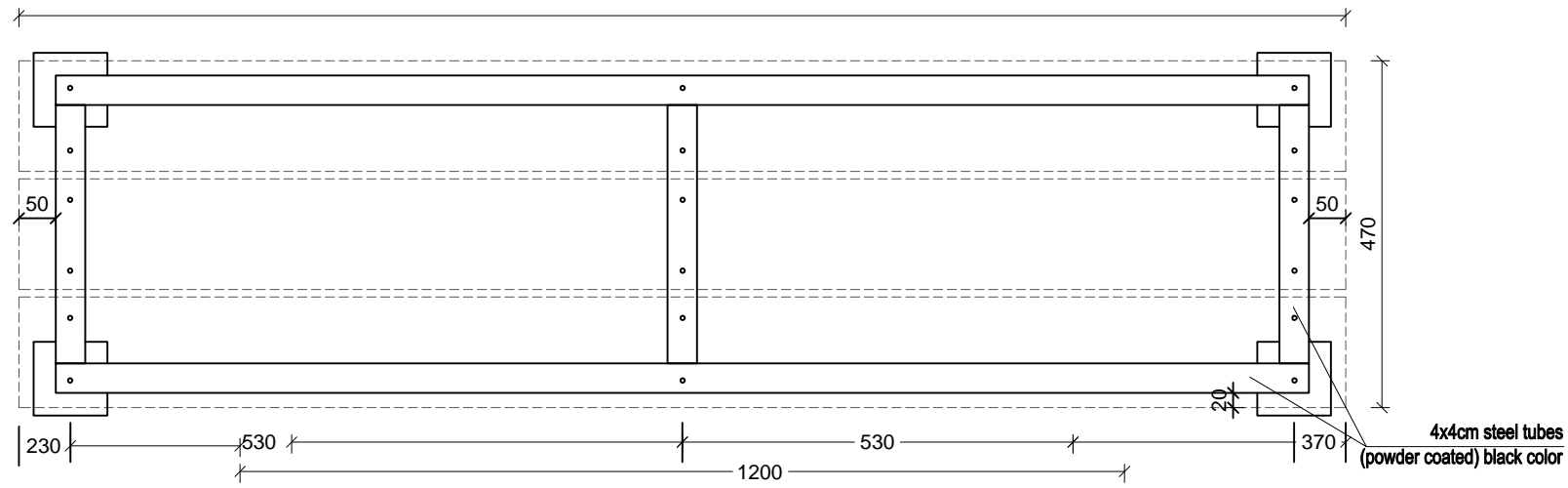
REV.	DATE	REMARKS



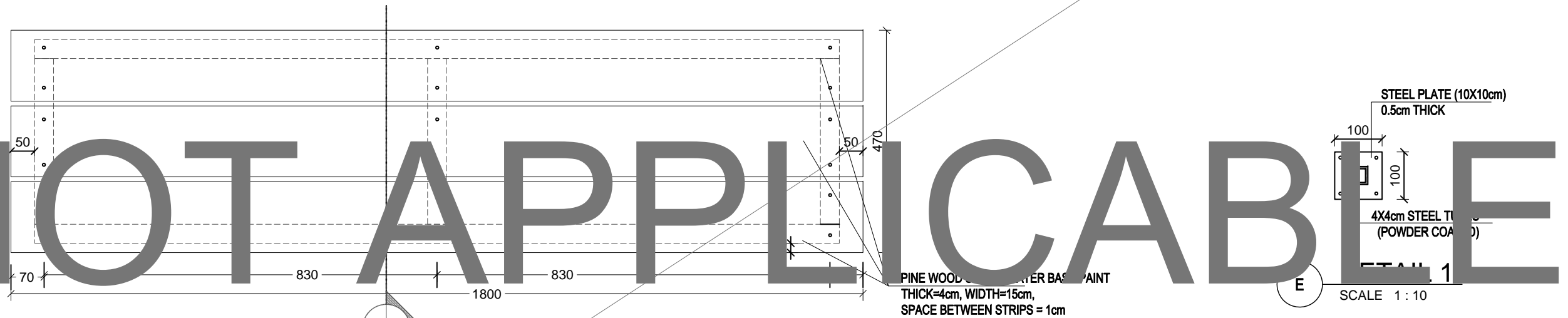
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
WOODEN BENCH TYPE (1) DETAIL

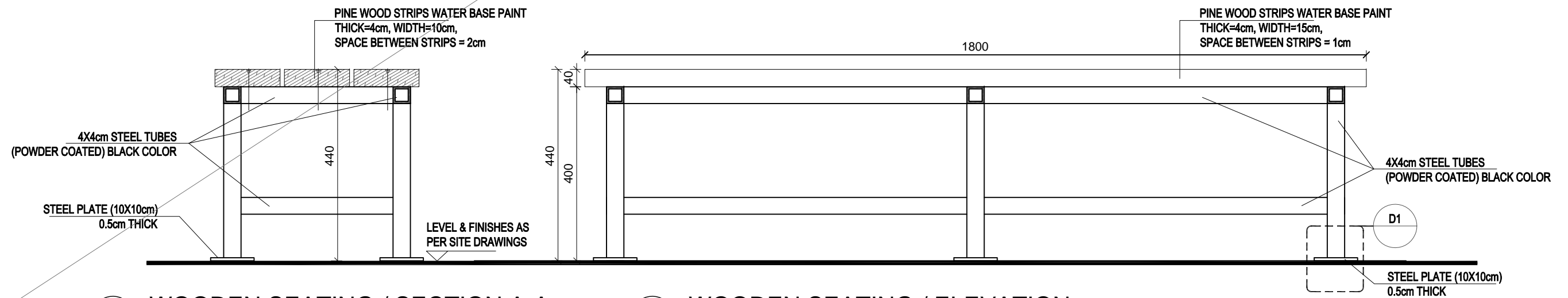
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-23
Date: June 2020	SCALE : 1:10	



A WOODEN SEATING / DETAILED PLAN SHOWING THE STRUCTURAL SYSTEM
SCALE 1 : 10



B WOODEN SEATING / TOP VIEW
SCALE 1 : 10



C WOODEN SEATING / SECTION A-A
SCALE 1 : 10

D WOODEN SEATING / ELEVATION
SCALE 1 : 10

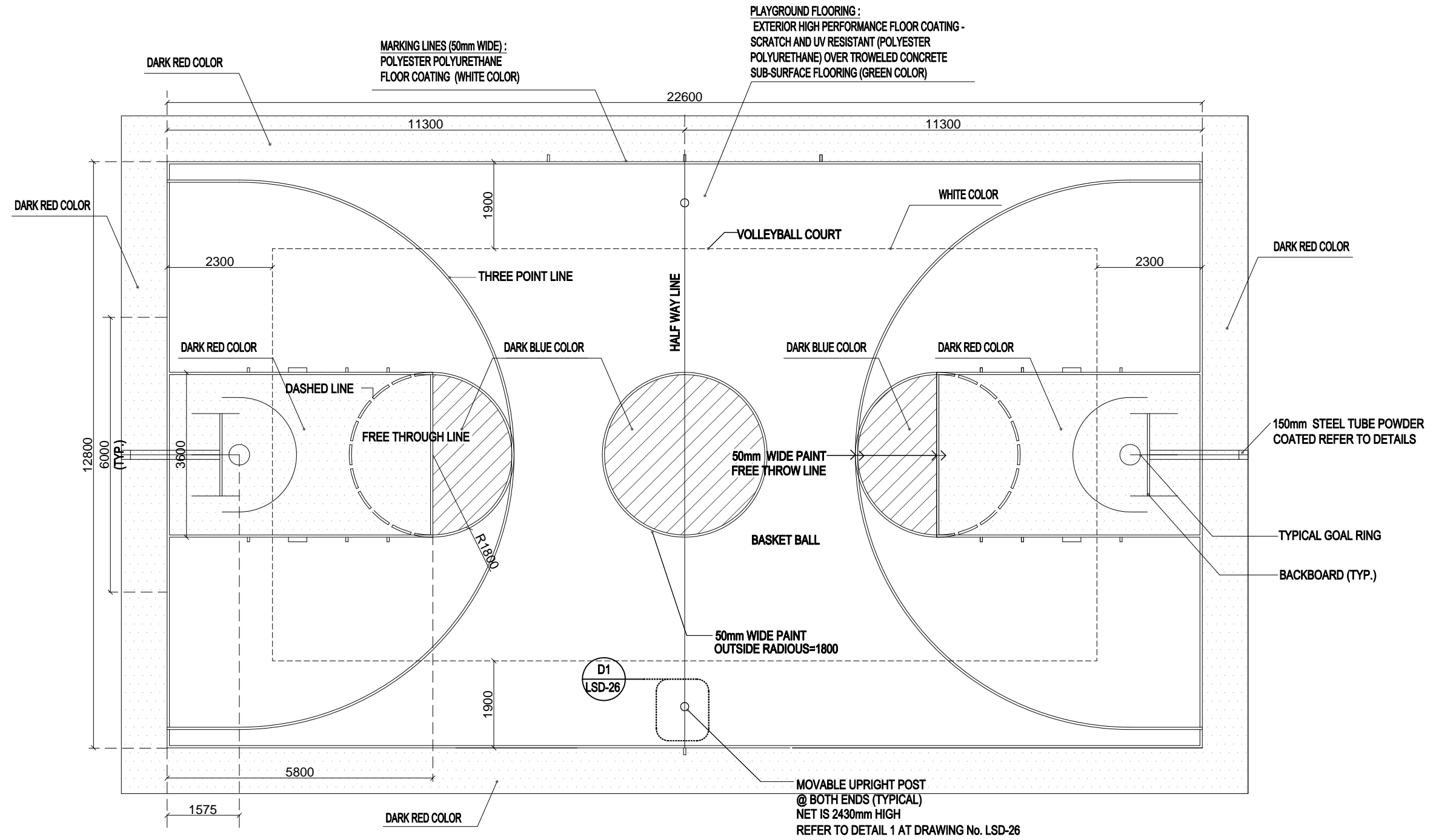
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: WOODEN BENCH TYPE (3) DETAIL		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-24
		Date: June 2020	SCALE: 1:10	

NOTE :
 BASKETBALL COURT COULD BE DOUBLED
 AS VOLLEYBALL COURT THRU COLOR
 CODING OF LINES



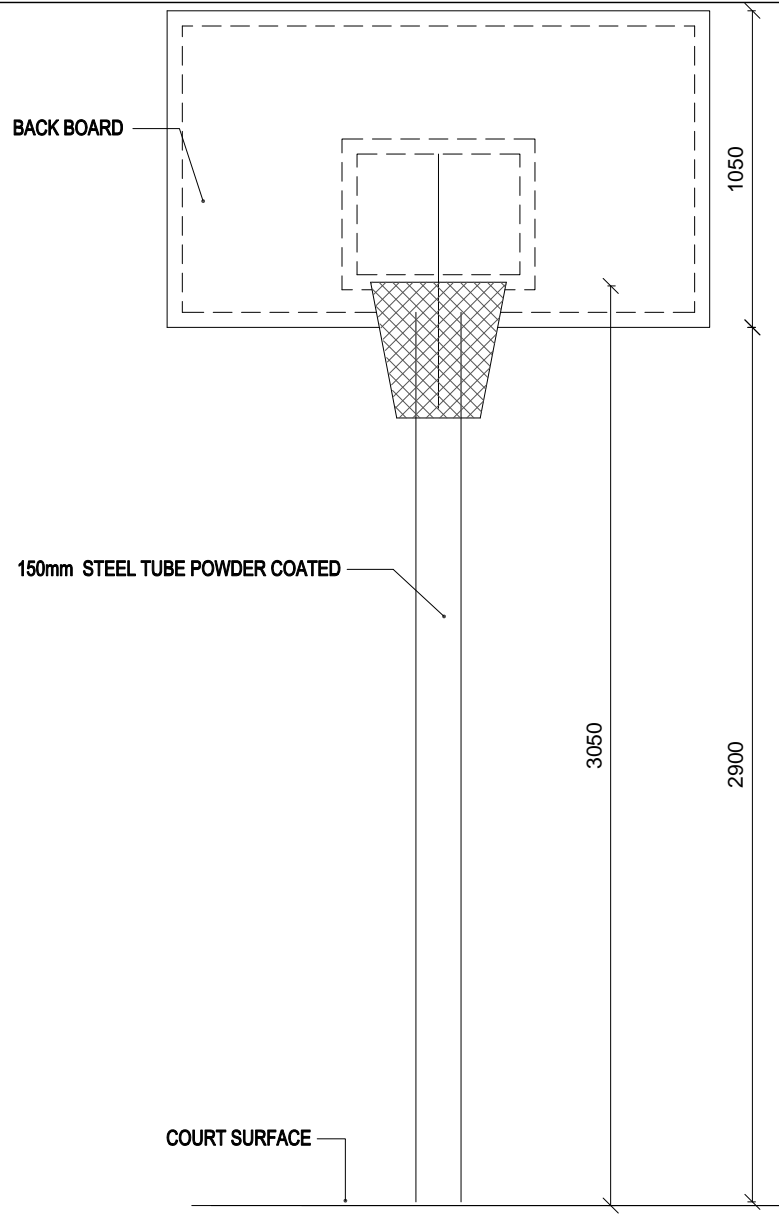
A BASKETBALL FIELD PLAN
 SCALE 1 : 100

REV.	DATE	REMARKS

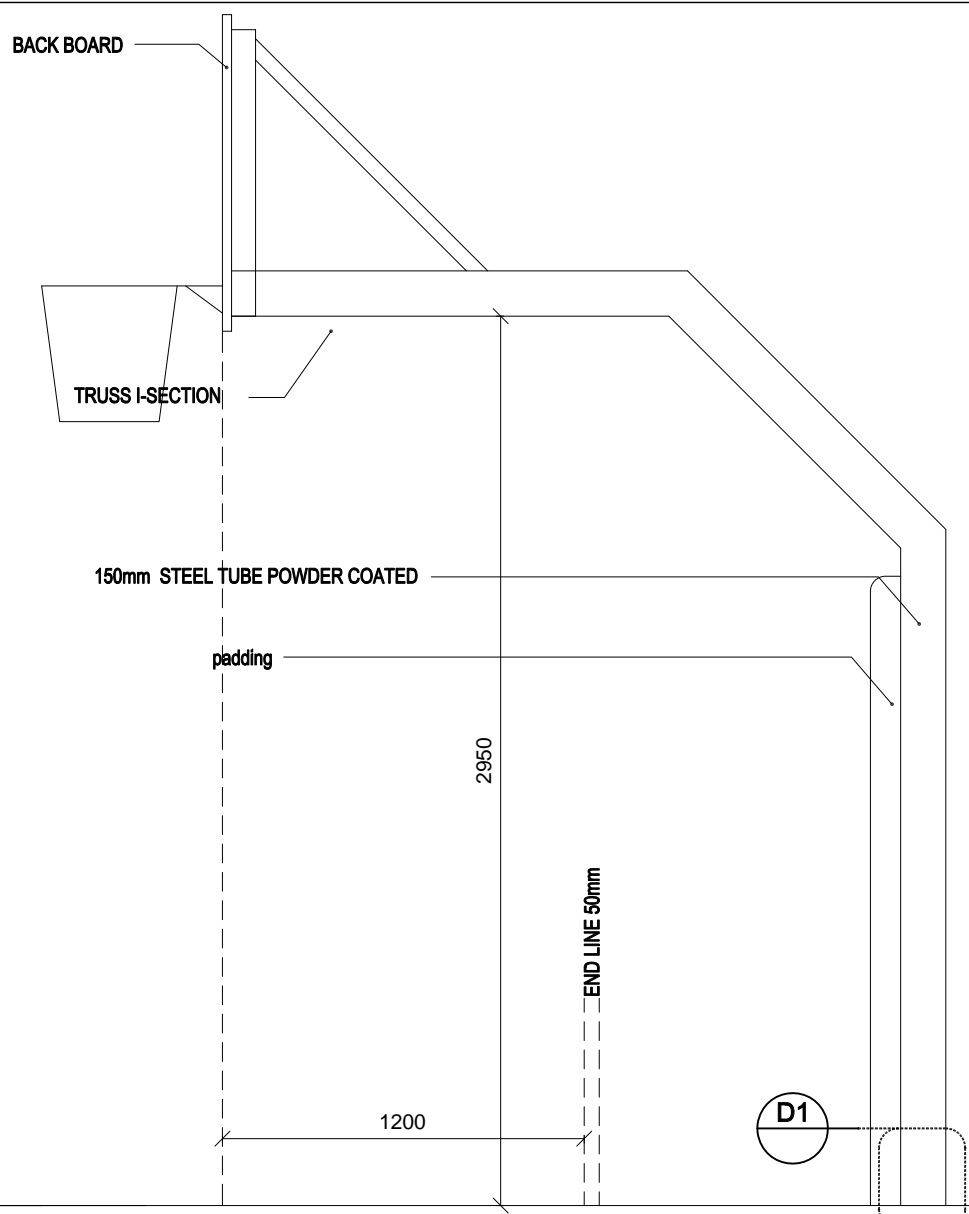


BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY
 PROJECT (USAID SKEP)

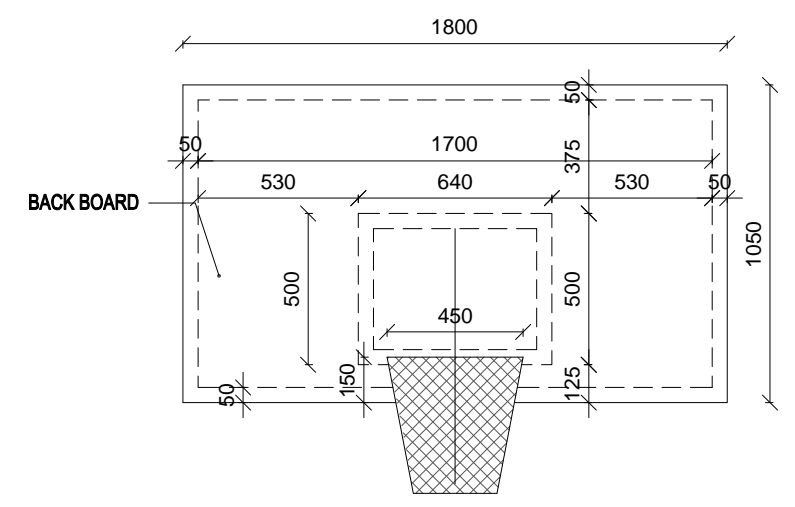
DRAWING NAME: BASKETBALL FIELD PLAN		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-25
		Date: June 2020	SCALE : 1:100	



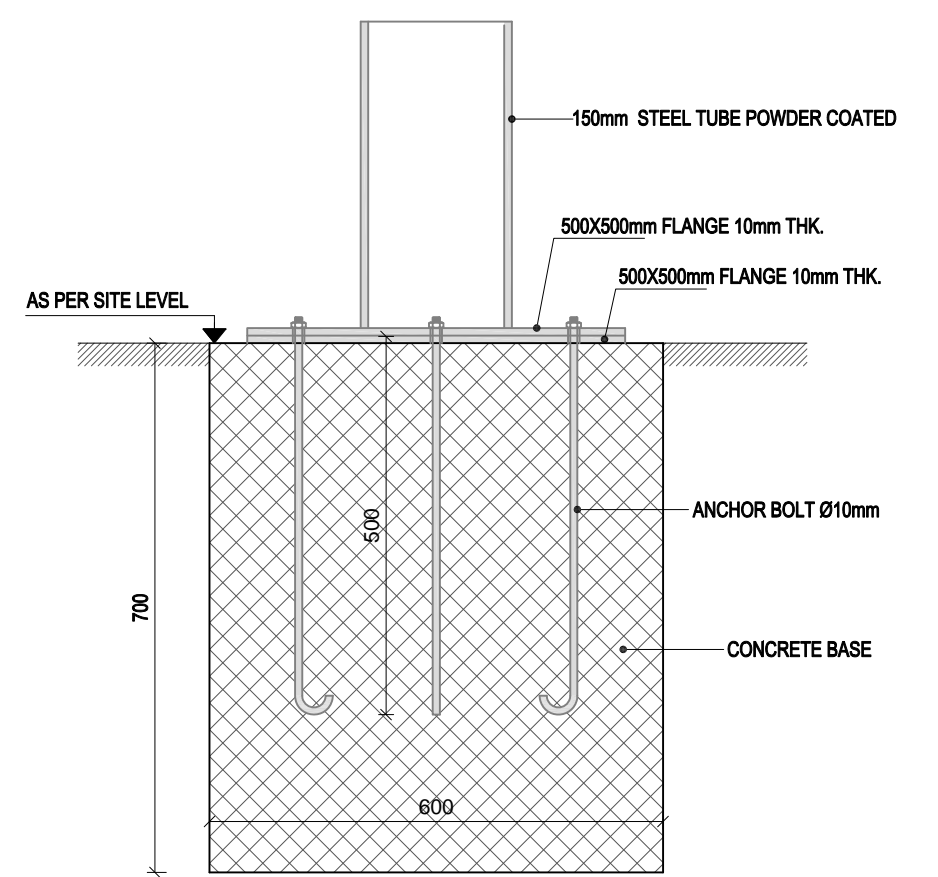
A BACKBOARD DETAIL (ELEVATION)
SCALE 1 : 25



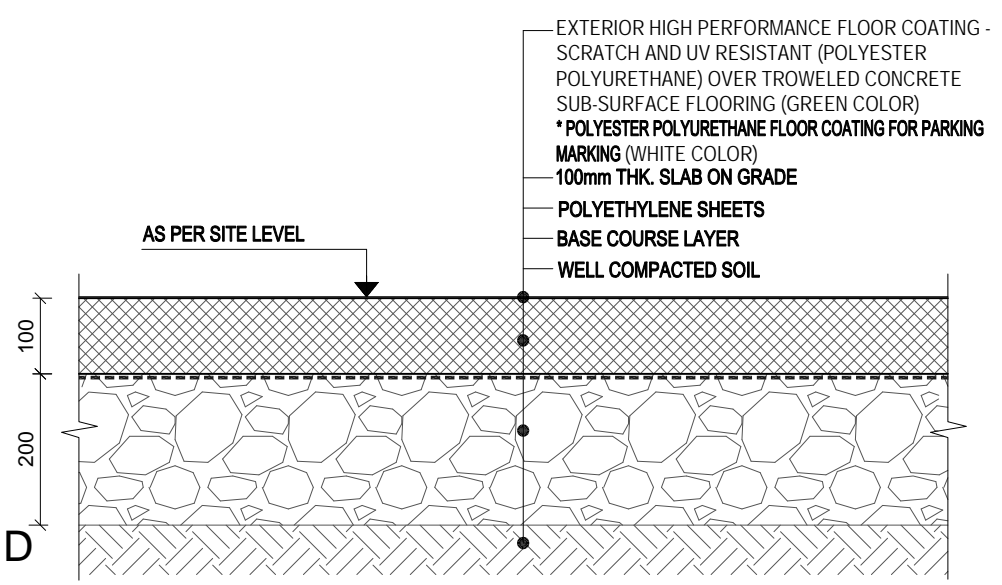
B BACKBOARD DETAIL (SECTION)
SCALE 1 : 25



C RECTANGLE BACKBOARD
SCALE 1 : 25



E ENLARGED DETAIL-1
SCALE 1 : 10



D TYPICAL FLOOR DETAIL AT PLAY GROUND
SCALE 1 : 10

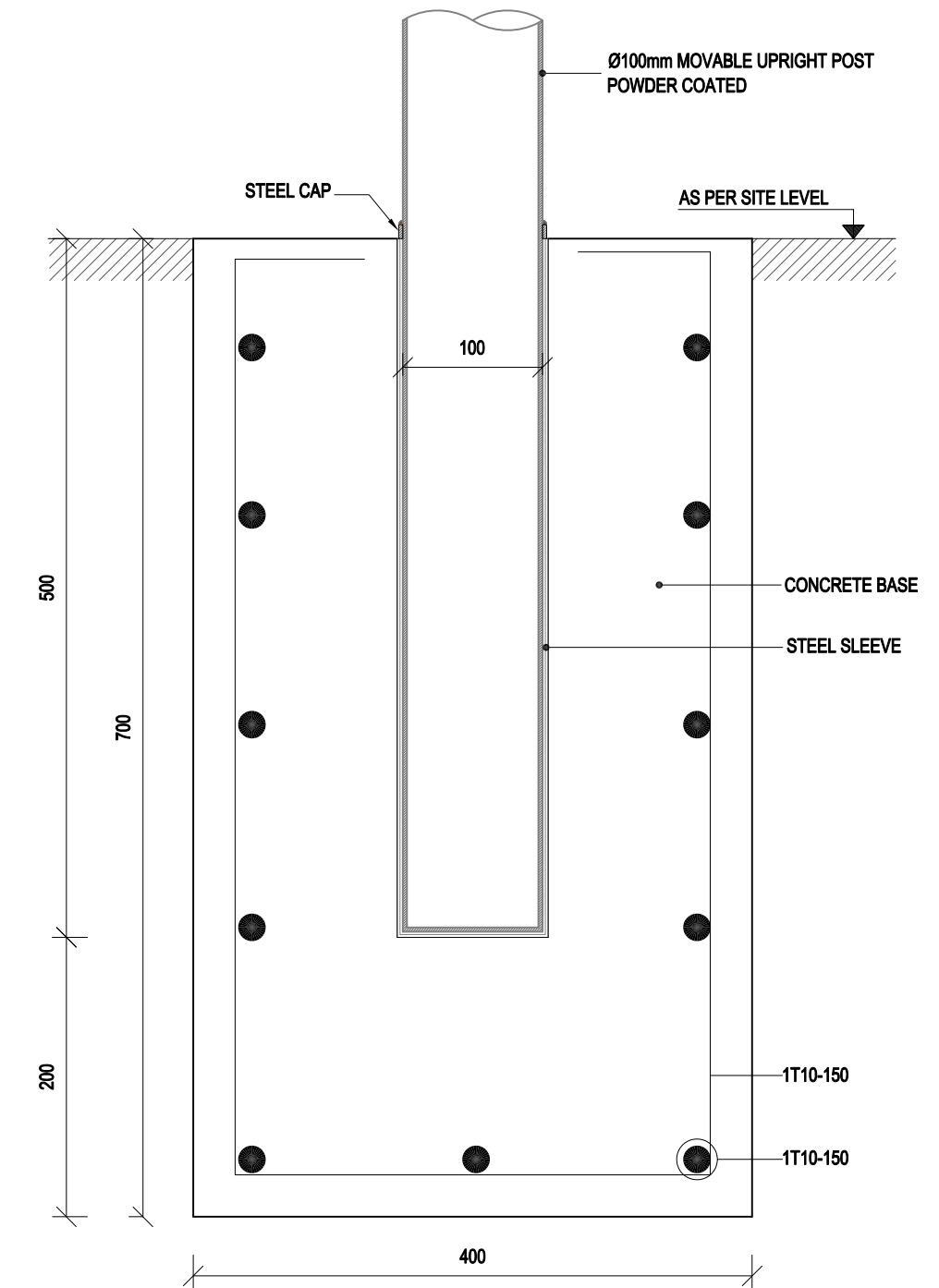
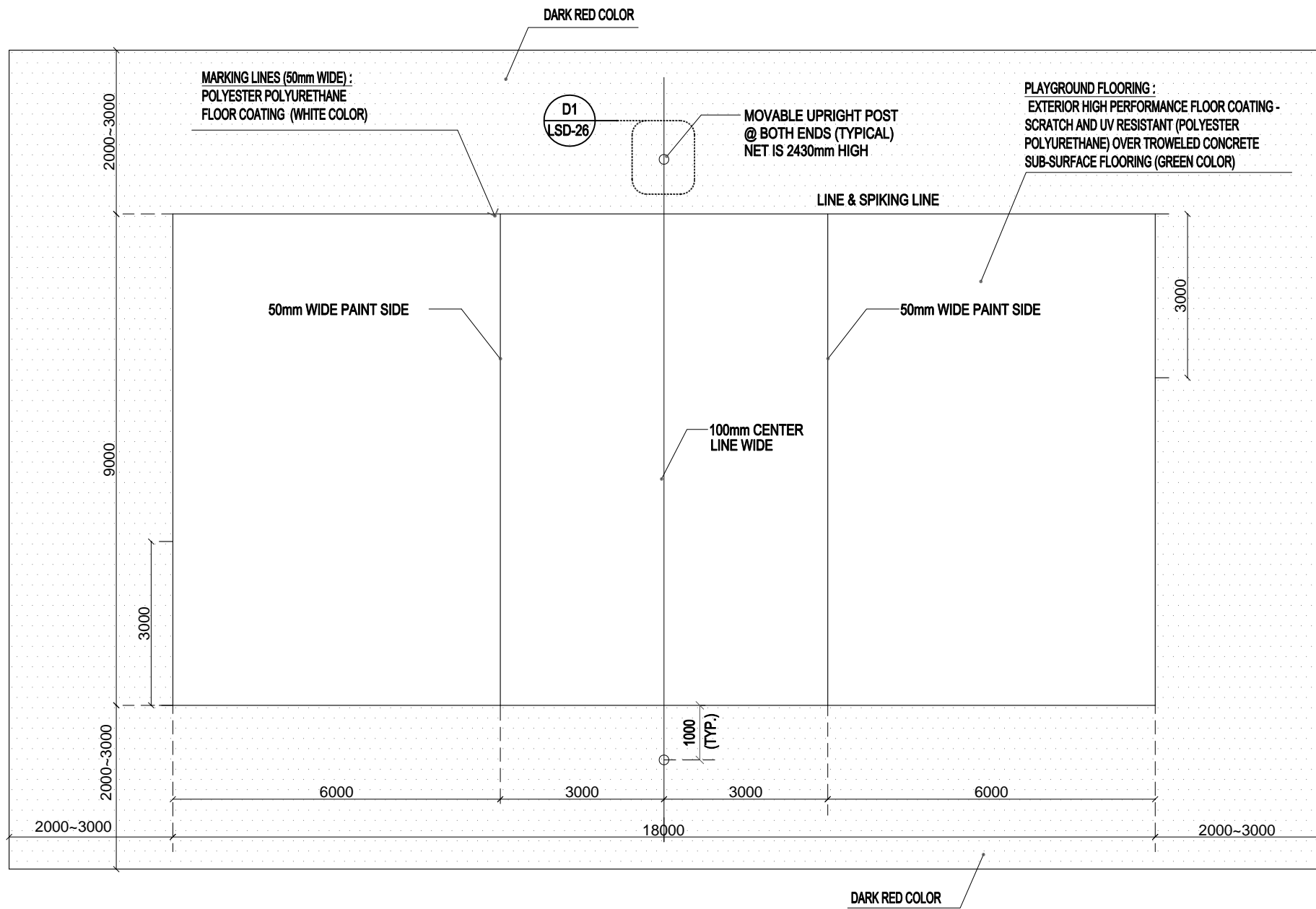
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

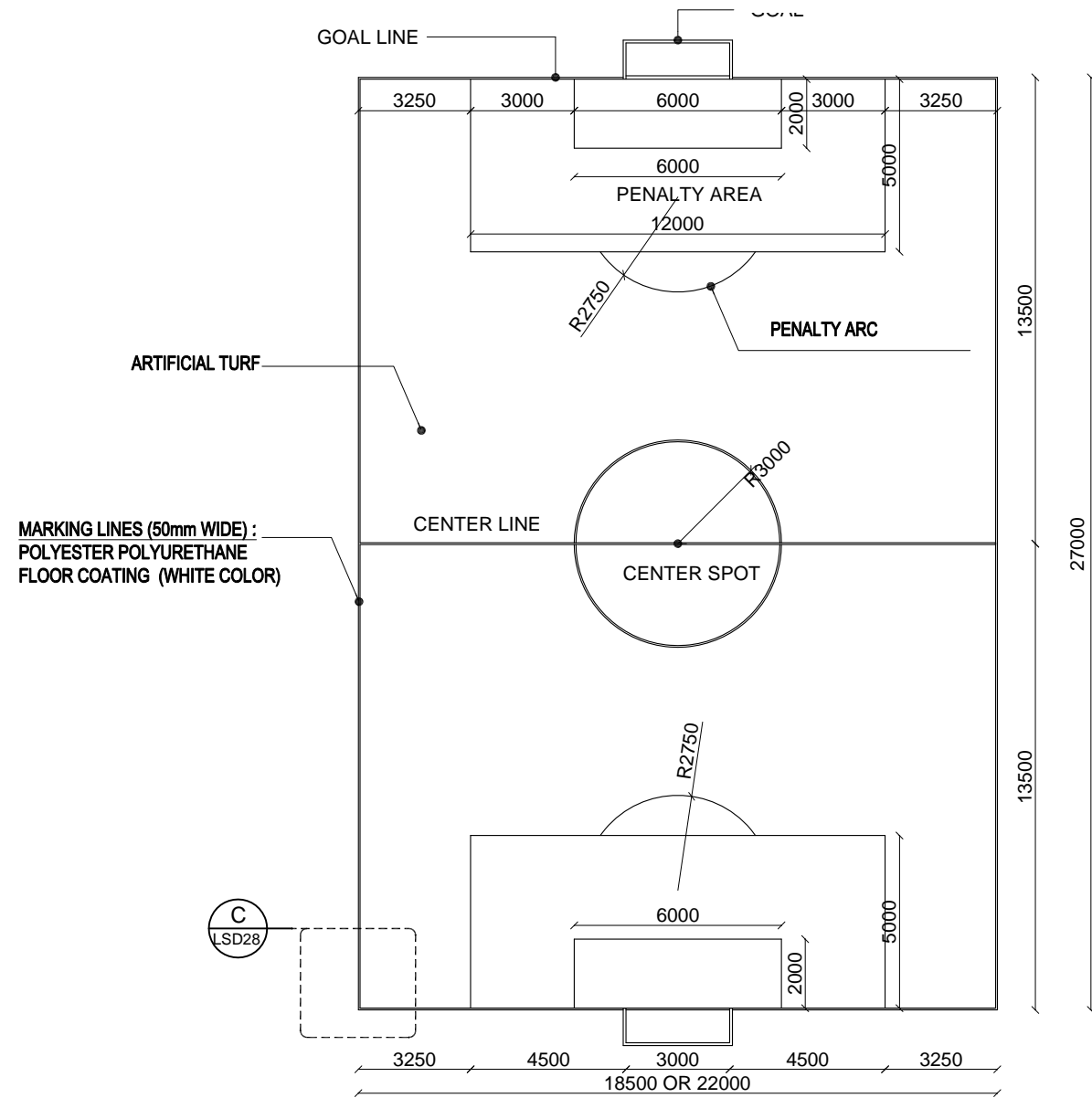
DRAWING NAME:
BASKETBALL FIELD DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-26
Date: June 2020	SCALE : AS SHOWN	

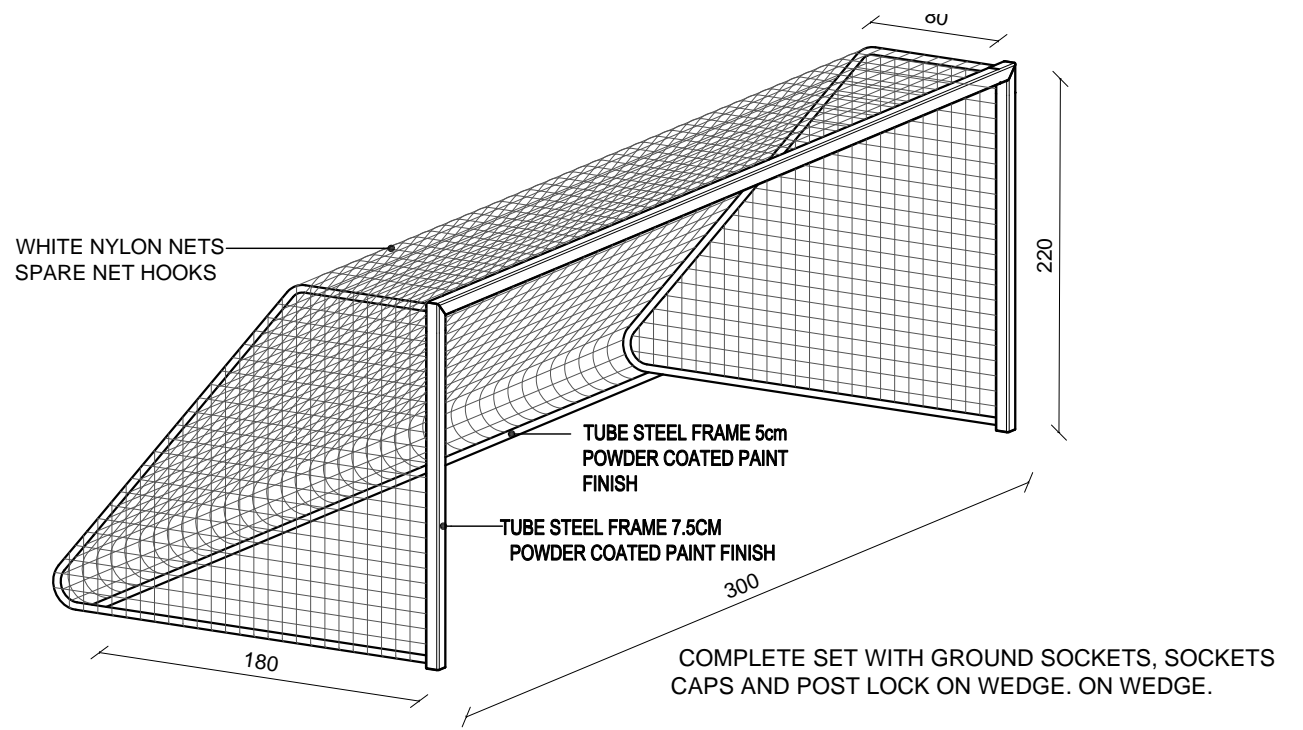


A VOLLEY BALL FIELD PLAN
SCALE 1 : 100

B ENLARGED DETAIL-1
SCALE 1 : 5



A FOOTBALL FIELD PLAN
SCALE 1:100

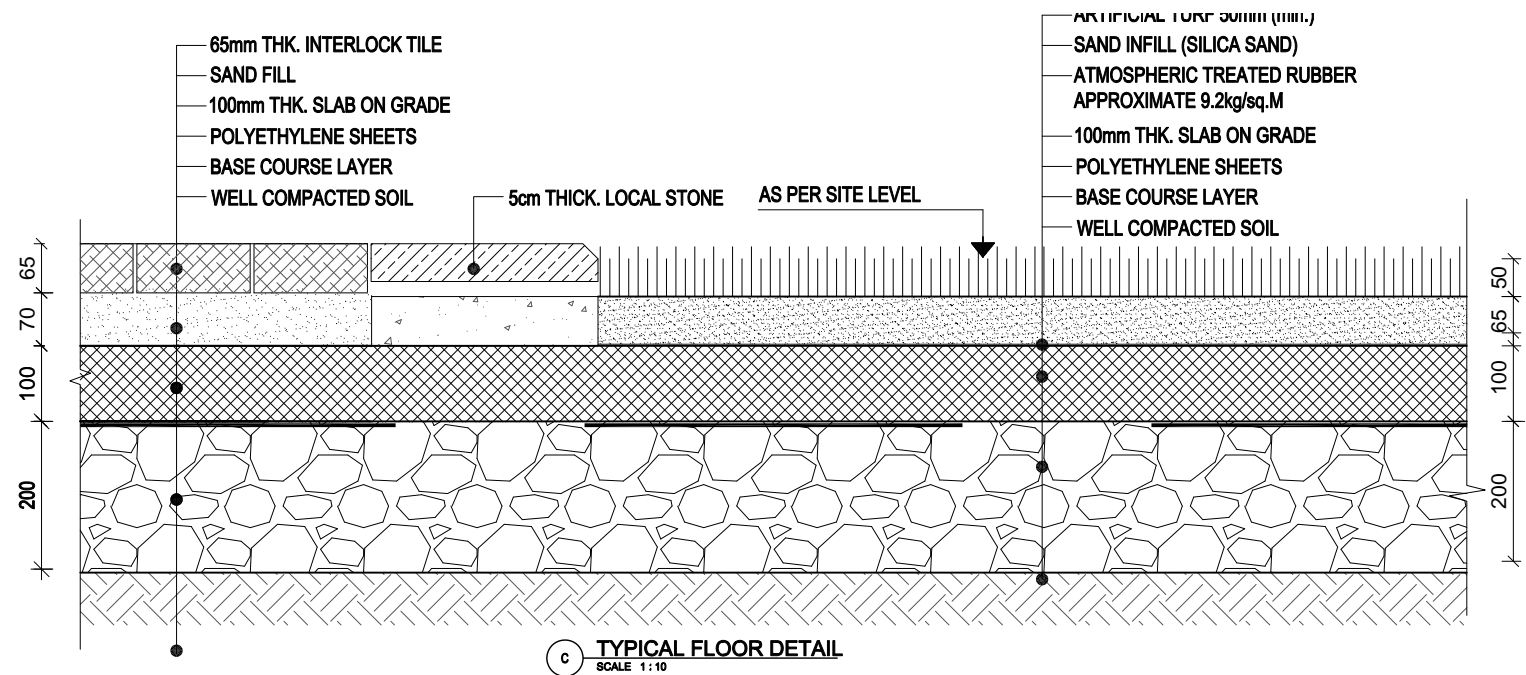


B GOAL KEEPER SOCCER
SCALE N.T.S

- SPECIFICATIONS OF ARTIFICIAL GRASS - 50mm**
- Artificial in-filled grass system 50mm min. thickness, consisting of a fibrillated yarn with an in-fill of dust free Silica Sand and atmospheric treated rubber, which is safe for the environment.
 - The manufacturer/Installer shall have installed a minimum of 80,000sqm in the Gulf Region, using the rubber /sand in-fill system.
 - The system shall be warranted for a period of 8 years.
 - The product has to meet FIFA requirements for artificial grass and shall include the "FIFA recommended" certificate.

TECHNICAL SPECIFICATIONS		
Sr.	Property	Minimum Specifications
1	Pile Yarn Type	UV-Resistant Polyethylene and Polypropylene Fibrillated Yarn
2	Primary Backing	Double layered UV-treated woven Polypropylene
3	Secondary Backing	Permeable application of high quality latex or Urethane
4	Min. Yard Denier (ASTM-D1577)	7200
5	Max. Yard Denier (ASTM-D1577)	8800
6	Min. Pile Height (ASTM-D418)	50 mm
7	Max. Pile Height (ASTM-D418)	52 mm
8	Yarn melting point (ASTM-D789)	123°C (255 Degrees F)
9	Yarn Breaking strength (ASTM-D2256)	160 N
10	Critical Radiant Flux (ASTM-E648)	0.45 W/Sq.cm.
11	Permeability	1000-1500 mm/hour
12	Color	Verde/Olive green
13	Silica Sand Distribution	Approx. 21 kg/m ²
14	Atmospheric Treated Rubber	Approx. 9.20 kg/m ²
15	Abrasiveness (ASTM-F1015)	20.2 Index
16	Shock Absorbency (ASTM-F355)	Not exceeding G-Max 200 for the life of the field.
17	Tuft Bind (without infill)	2.72 kg (6 lb)
18	Total depth infill material	32 mm
19	Impact Attenuation (at installation) (ASTM-F355)	140-175 GMAX

- All Installation work to be carried out by a local experienced certified company.
- Rolls should be stitched using an automatic sewing machine system. No gluing allowed for seam adhesion.
- In-filling of rubber granule and silica sand is done with special machinery. Manual in-filling should not be allowed.



C TYPICAL FLOOR DETAIL
SCALE 1:10

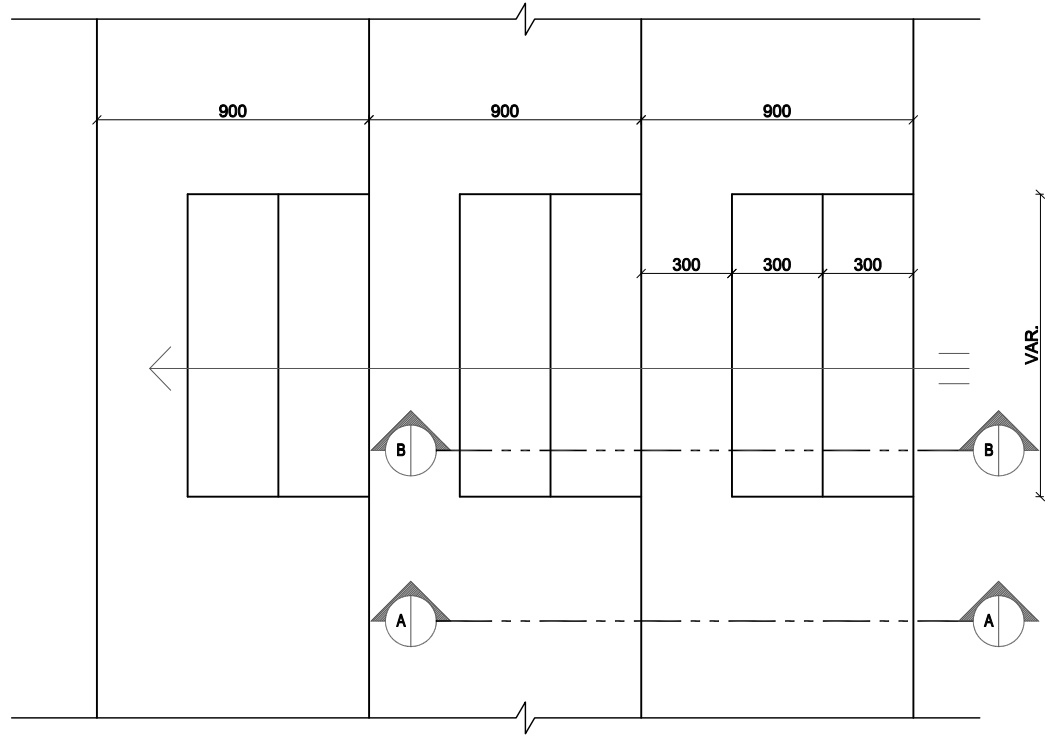
REV.	DATE	REMARKS



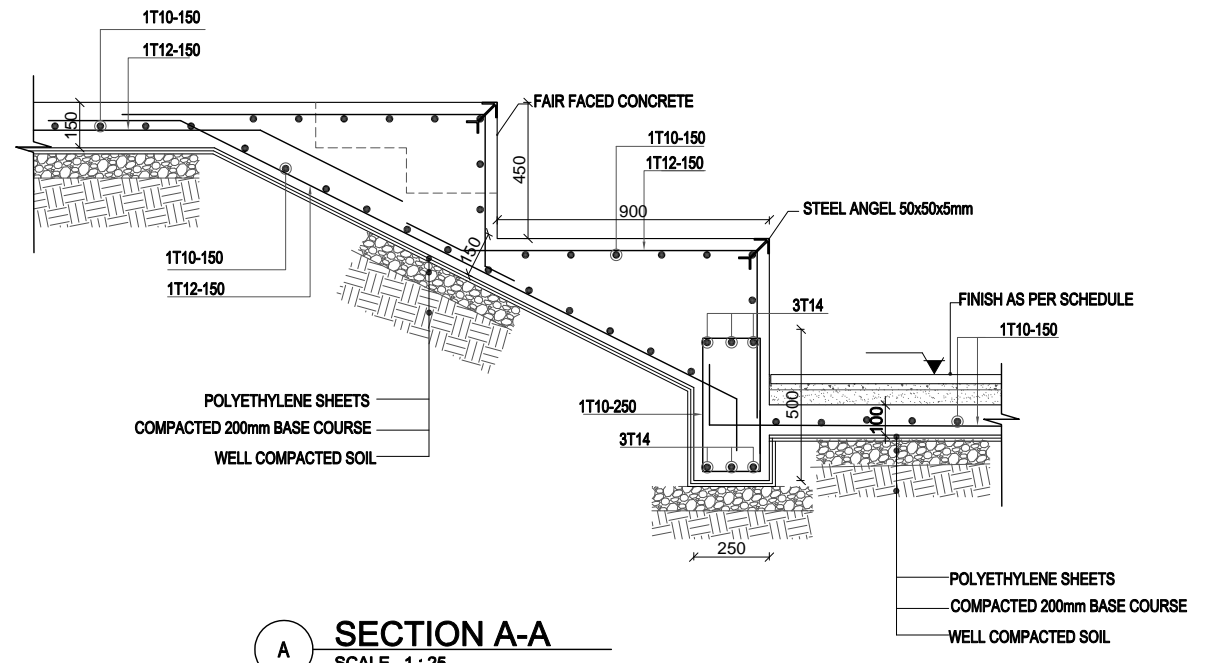
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
FOOTBALL FIELD DETAILS

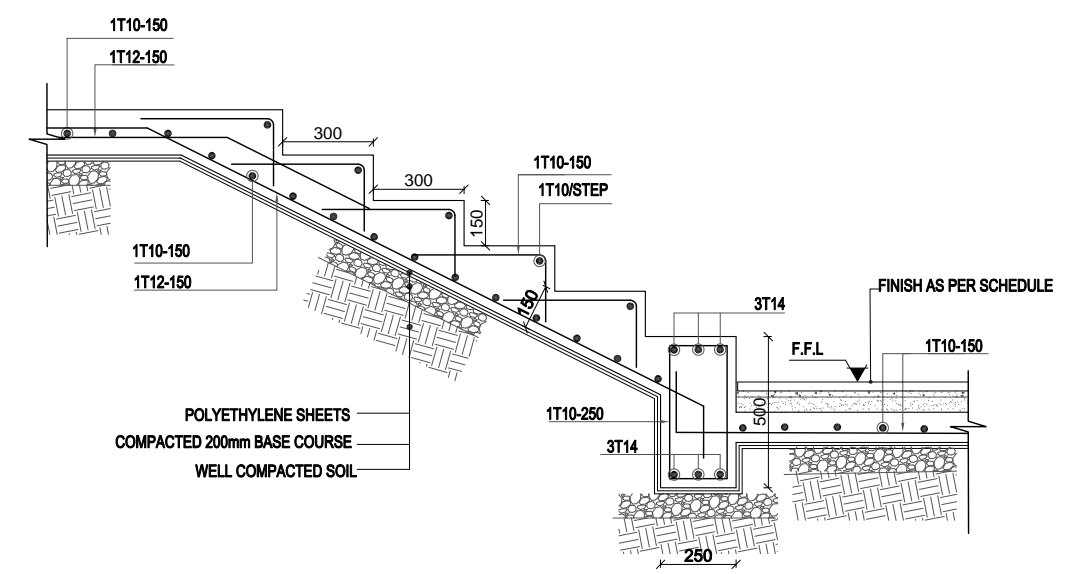
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-28
Date: June 2020	SCALE: AS SHOWN	



A EXTERNAL STEPS(AMPHITHEATER) / PLAN
SCALE 1 : 25



A SECTION A-A
SCALE 1 : 25



B SECTION B-B
SCALE 1 : 25

REV.	DATE	REMARKS

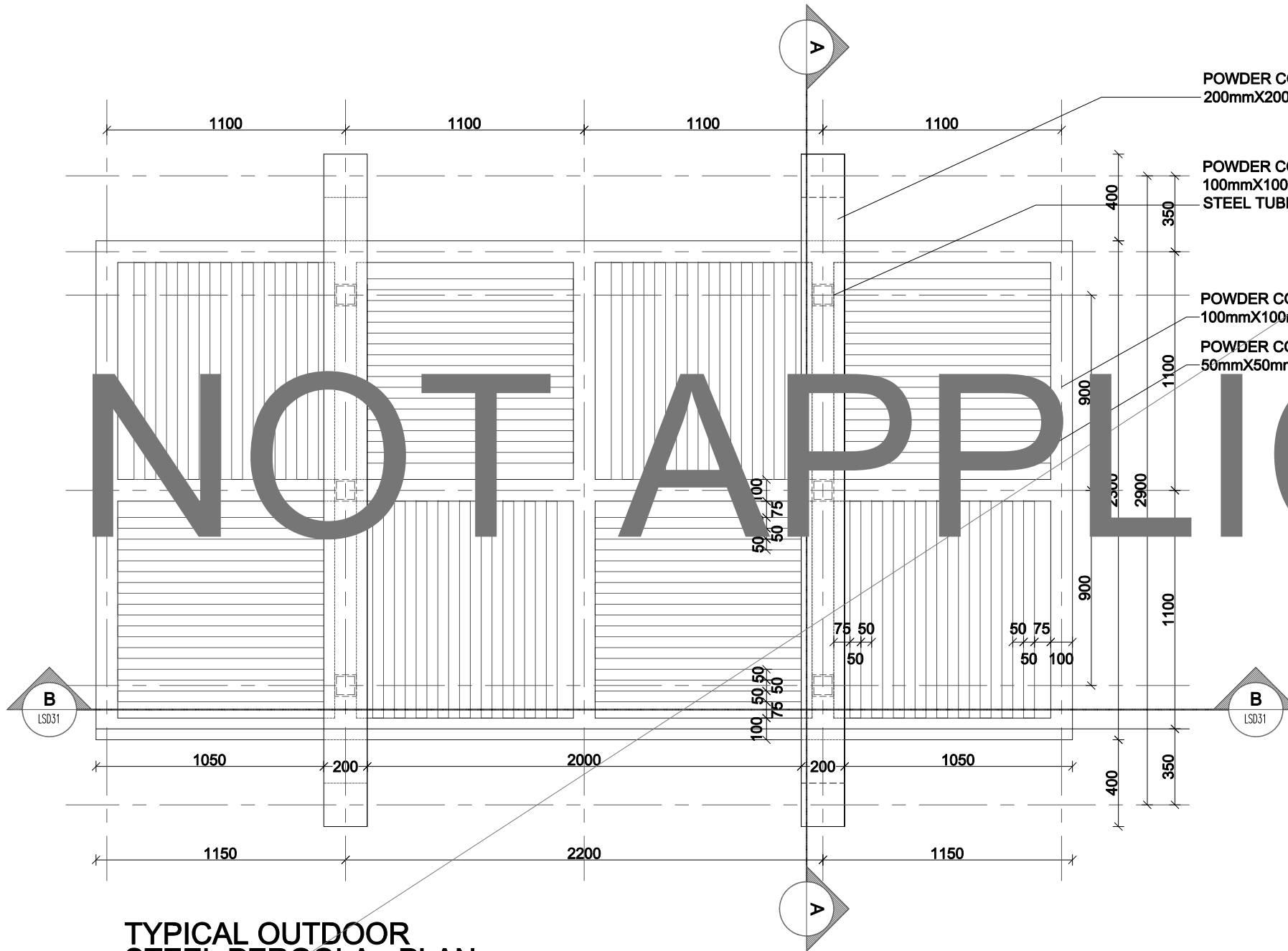


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

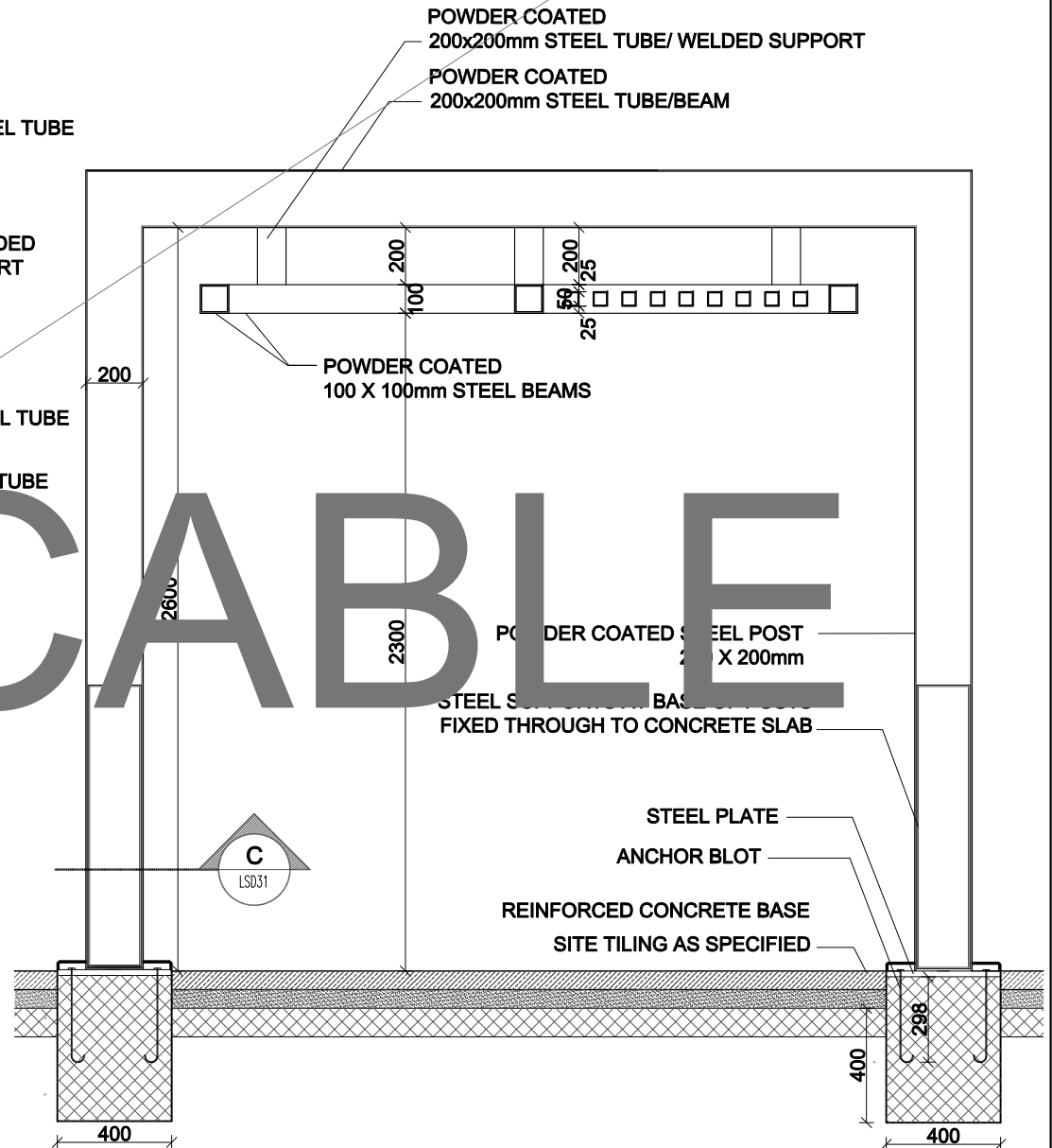
DRAWING NAME:
**EXTERNAL STEPS
(AMPHITHEATER)**

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-29
Date: June 2020	SCALE : 1:25	

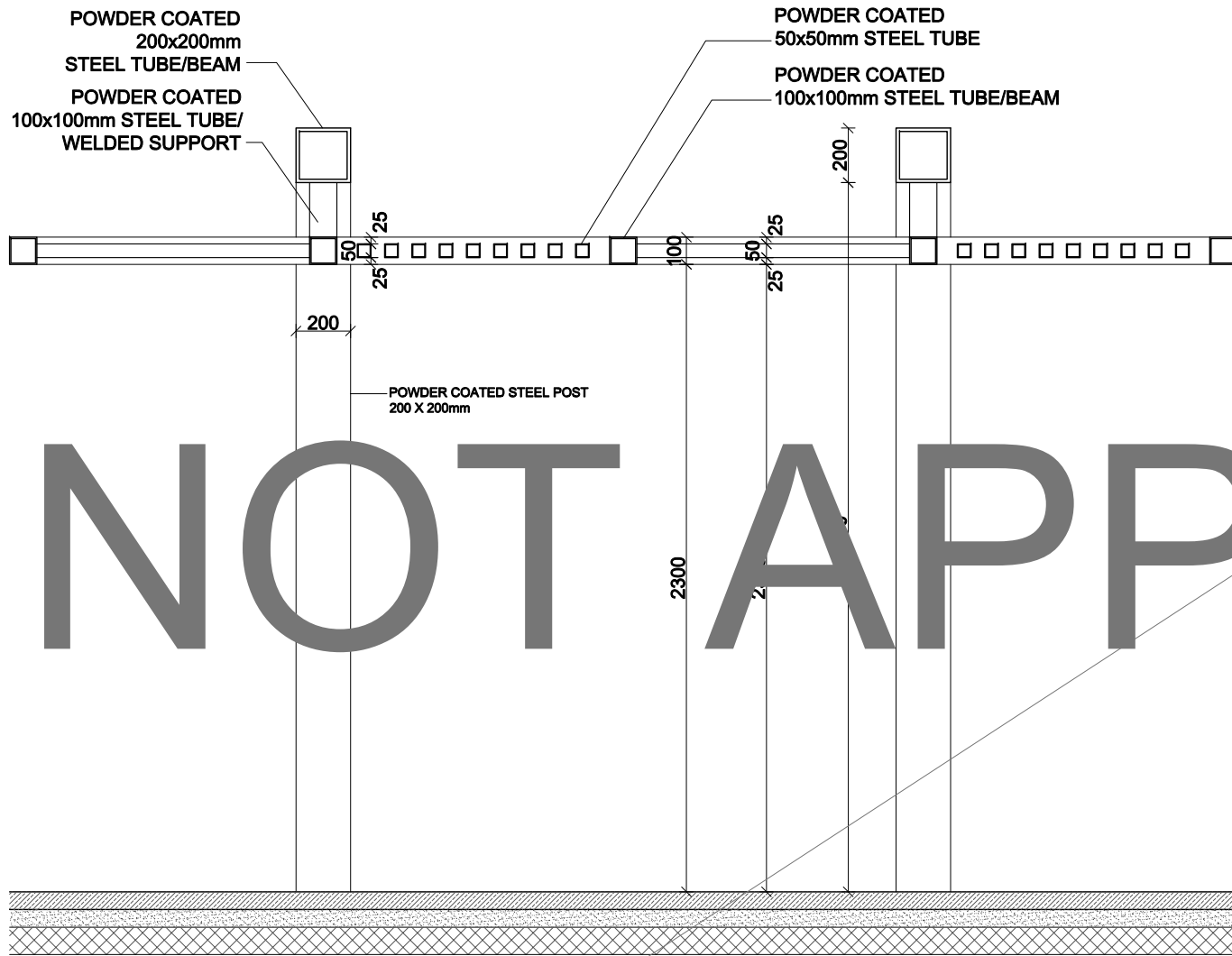
NOT APPLICABLE



01
TYPICAL OUTDOOR
STEEL PERGOLA - PLAN
SCALE 1:25

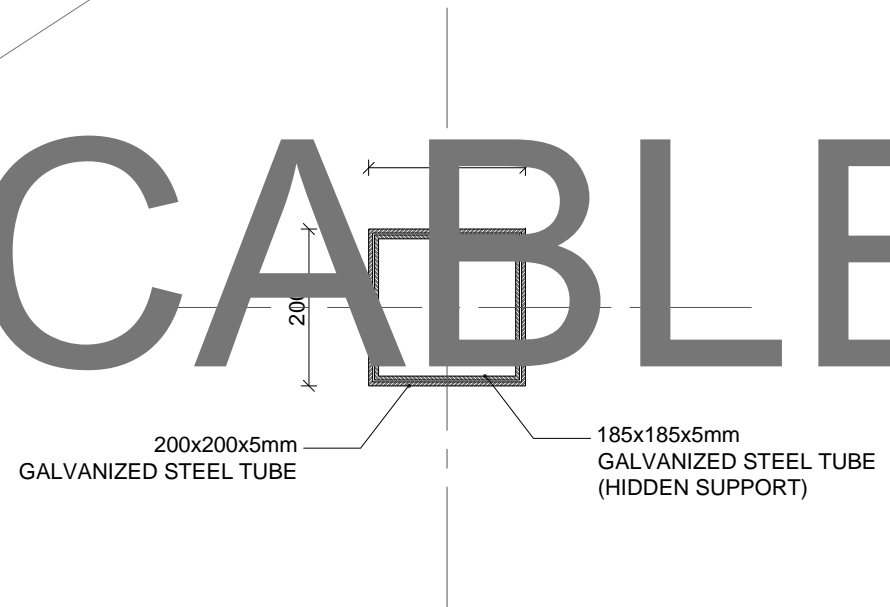


02
TYPICAL OUTDOOR
STEEL PERGOLA - SECTION A-A
SCALE 1:25



01 TYPICAL OUTDOOR STEEL PERGOLA - SECTION B-B
SCALE 1 : 25

NOT APPLICABLE



02 TYPICAL OUTDOOR STEEL PERGOLA MAIN STEEL COLUMN- SECTION C-C
SCALE 1 : 25

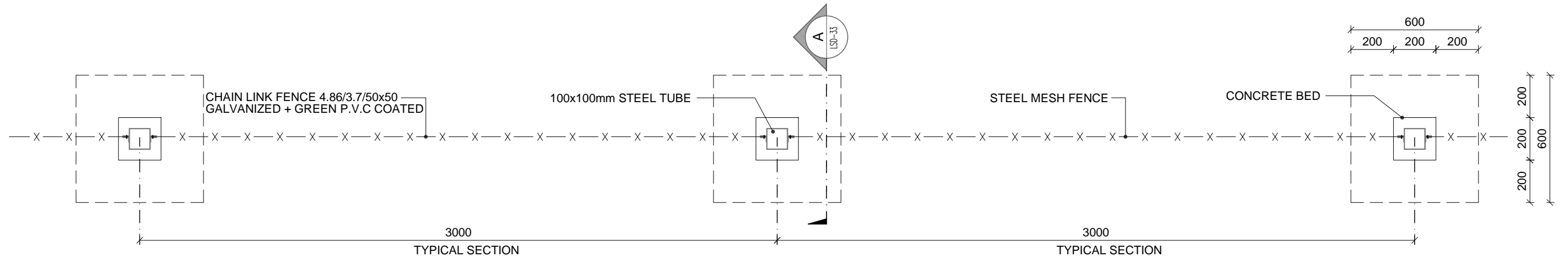
REV.	DATE	REMARKS



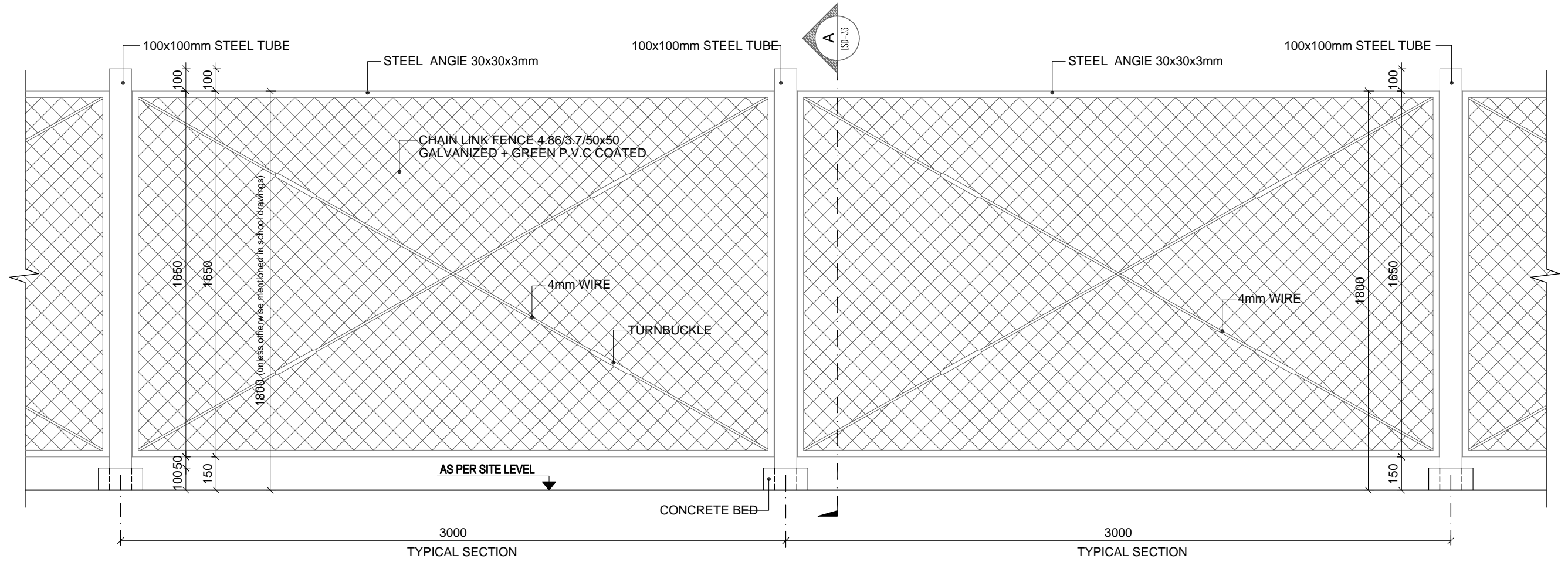
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL STEEL PERGOLA DETAILS (2 OF 2)

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-31
Date: June 2020	SCALE : 1:25	



A STEEL MESH FENCE PLAN
SCALE 1:20



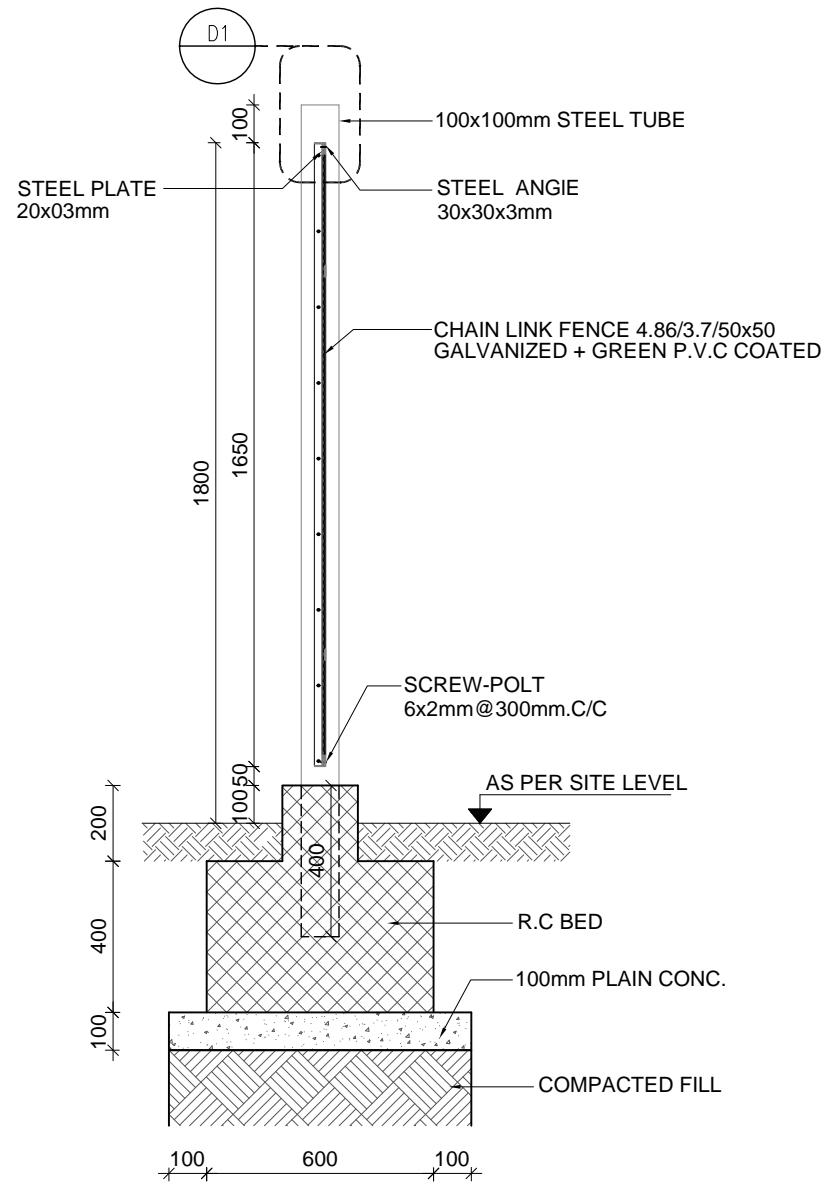
B STEEL MESH FENCE ELEVATION
SCALE 1:20

REV.	DATE	REMARKS

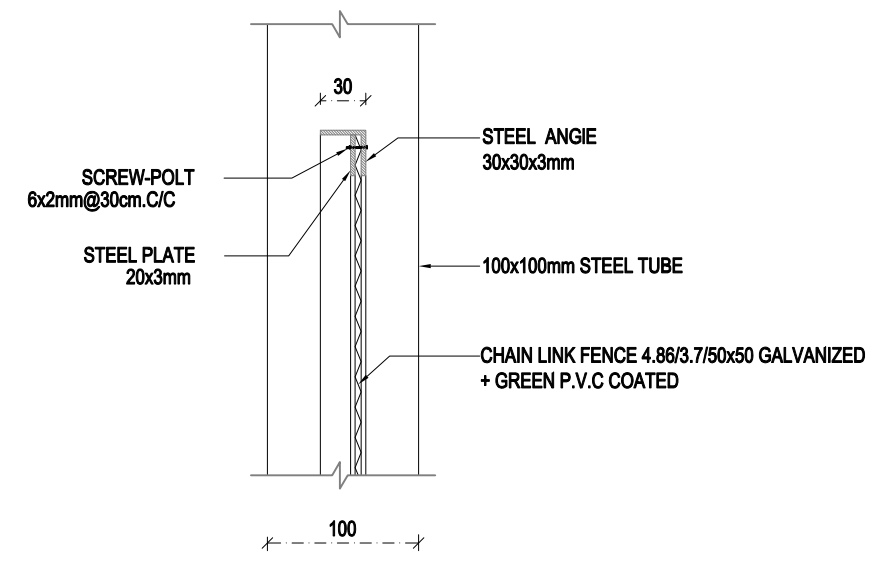


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	DRAWN:	REVISION No.:
STEEL MESH FENCE DETAILS		H.B.	Engicon	0
		CHECKED:	APPROVED:	SHEET NUMBER:
		M.Sh.	S.B.	LSD-32
		DATE:	SCALE:	
		June 2020	1:20	



A SECTION (A-A)
SCALE 1 : 20



B ENLARGED DETAIL (DET-1)
SCALE 1 : 5

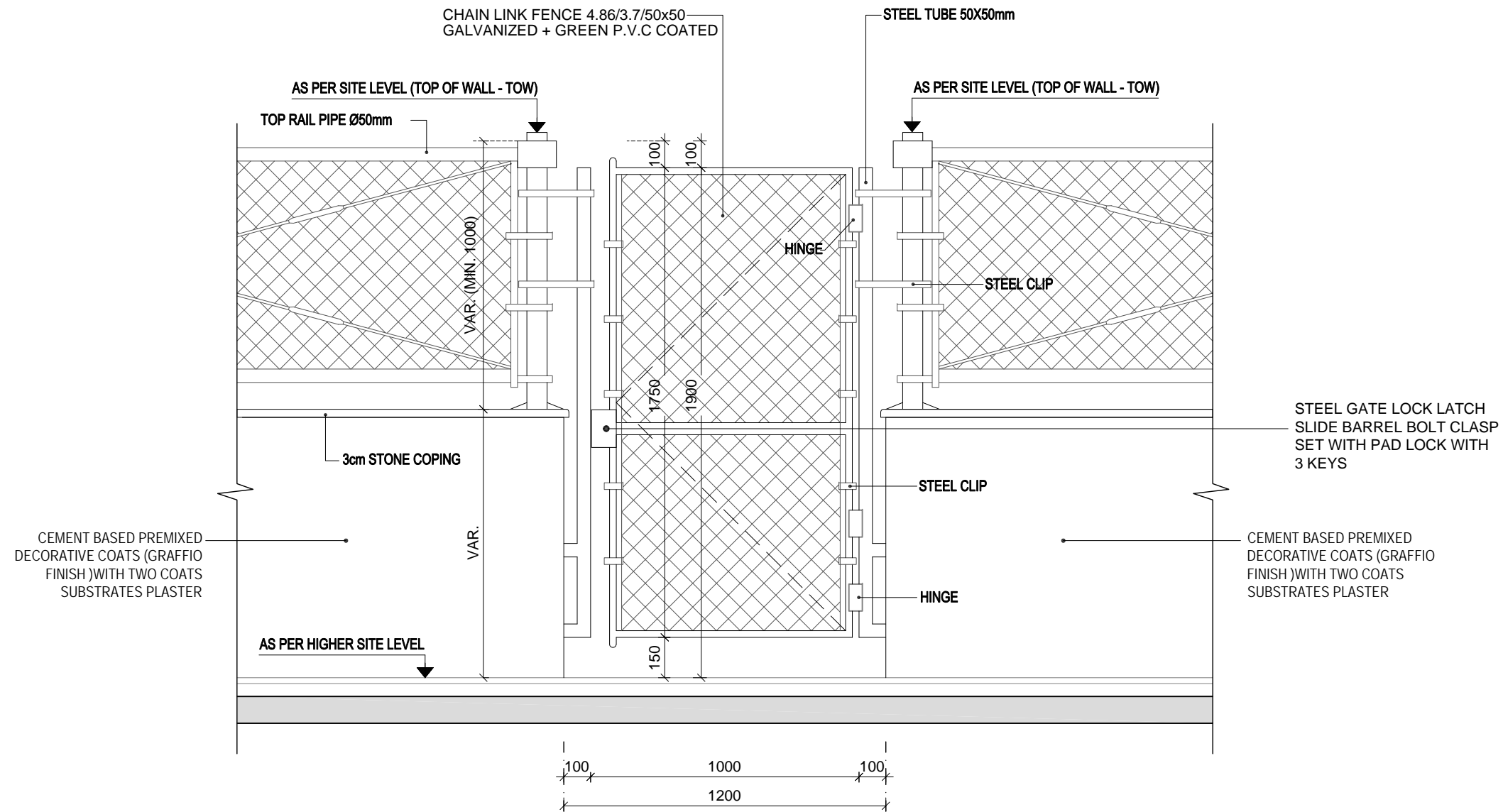
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
STEEL MESH FENCE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-33
Date: June 2020	SCALE : AS SHOWN	



Pad lock with 3 Keys

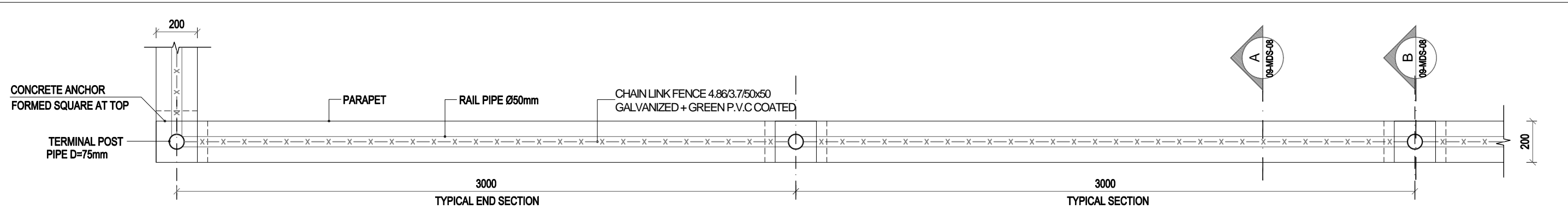
A STEEL MESH DOOR ELEVATION (SINGLE LEAF) AT SITE
SCALE 1 : 20

REV.	DATE	REMARKS

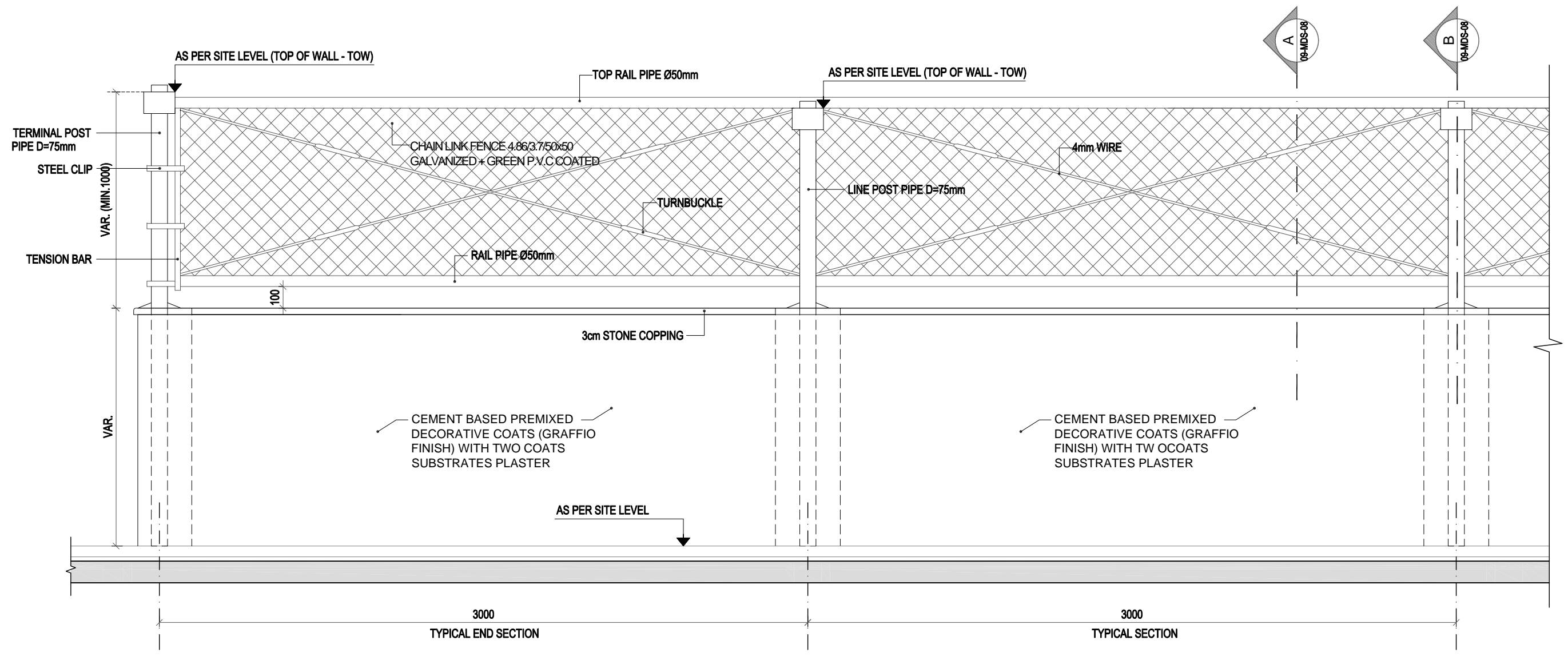


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:	Design:	Drawn:	REVISION No.:
STEEL MESH DOOR DETAIL	H.B.	Engicon	0
	Checked:	Approved:	SHEET NUMBER:
	M.Sh.	S.B.	LSD-34
	Date:	SCALE:	
	June 2020	1:20	



A STEEL MESH FENCE PLAN
SCALE 1 : 20



A STEEL MESH FENCE ELEVATION
SCALE 1 : 20

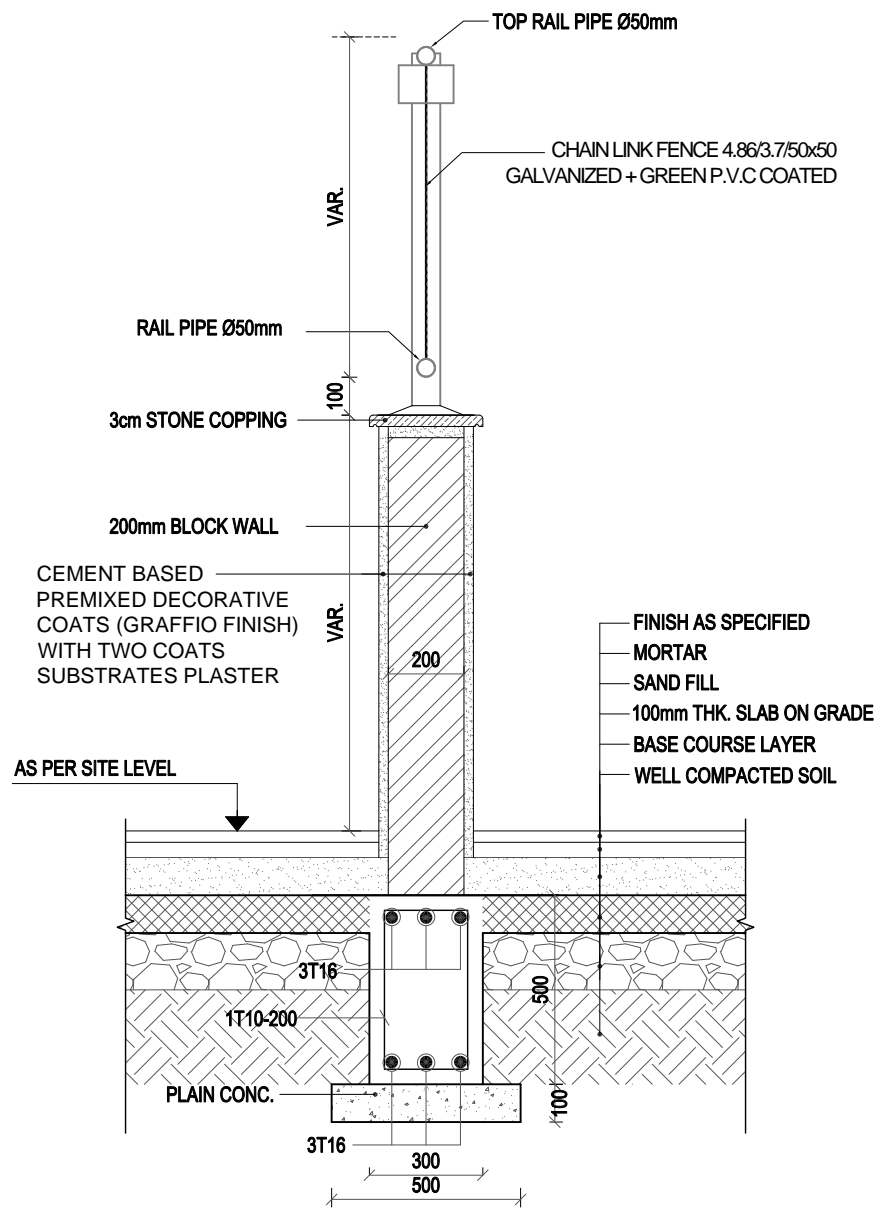
REV.	DATE	REMARKS



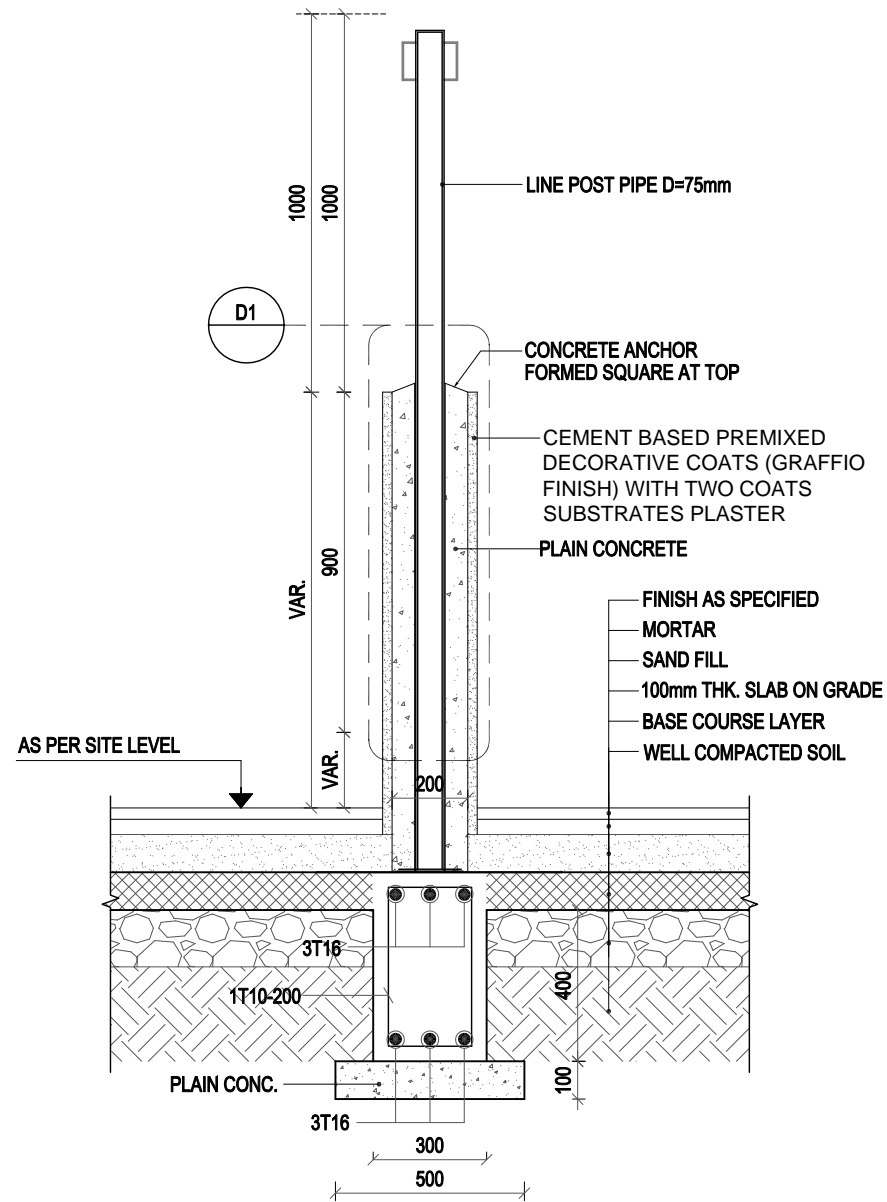
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
STEEL MESH FENCE DETAILS

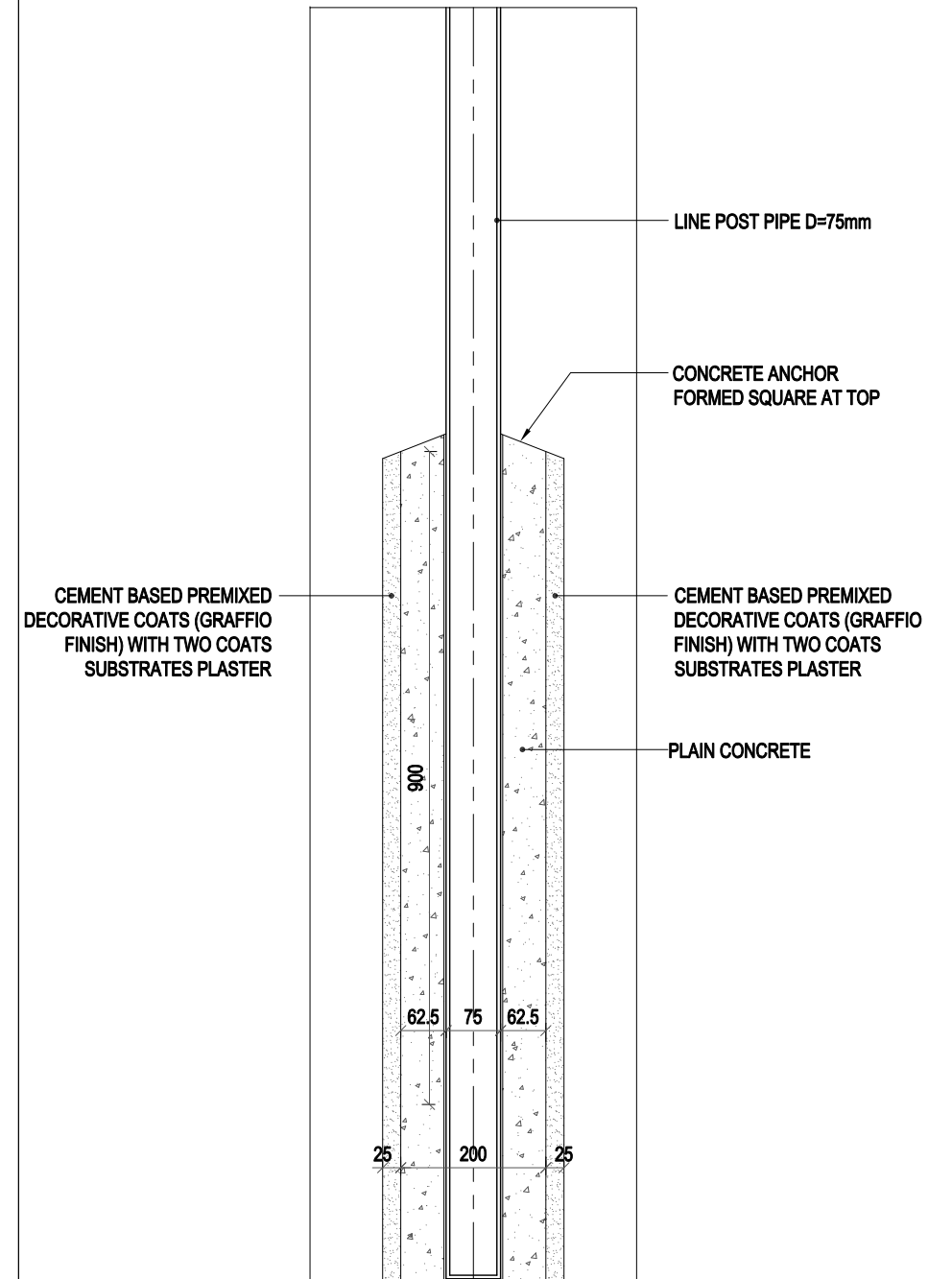
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-35
Date: June 2020	SCALE : 1:20	



A SECTION (A-A)
SCALE 1 : 20



A SECTION (B-B)
SCALE 1 : 20



A DETAIL (DET-1)
SCALE 1 : 10

REV.	DATE	REMARKS



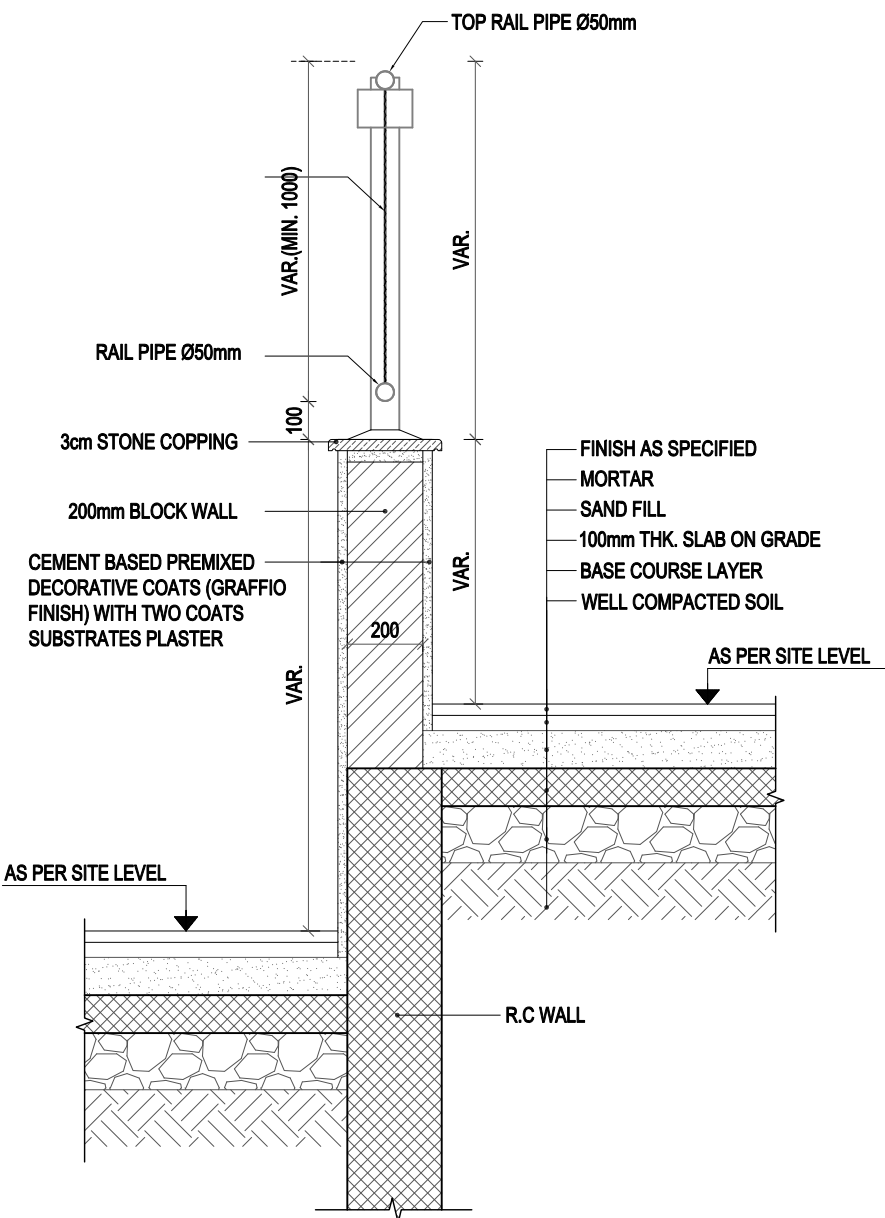
BOOK OF DETAILS

SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

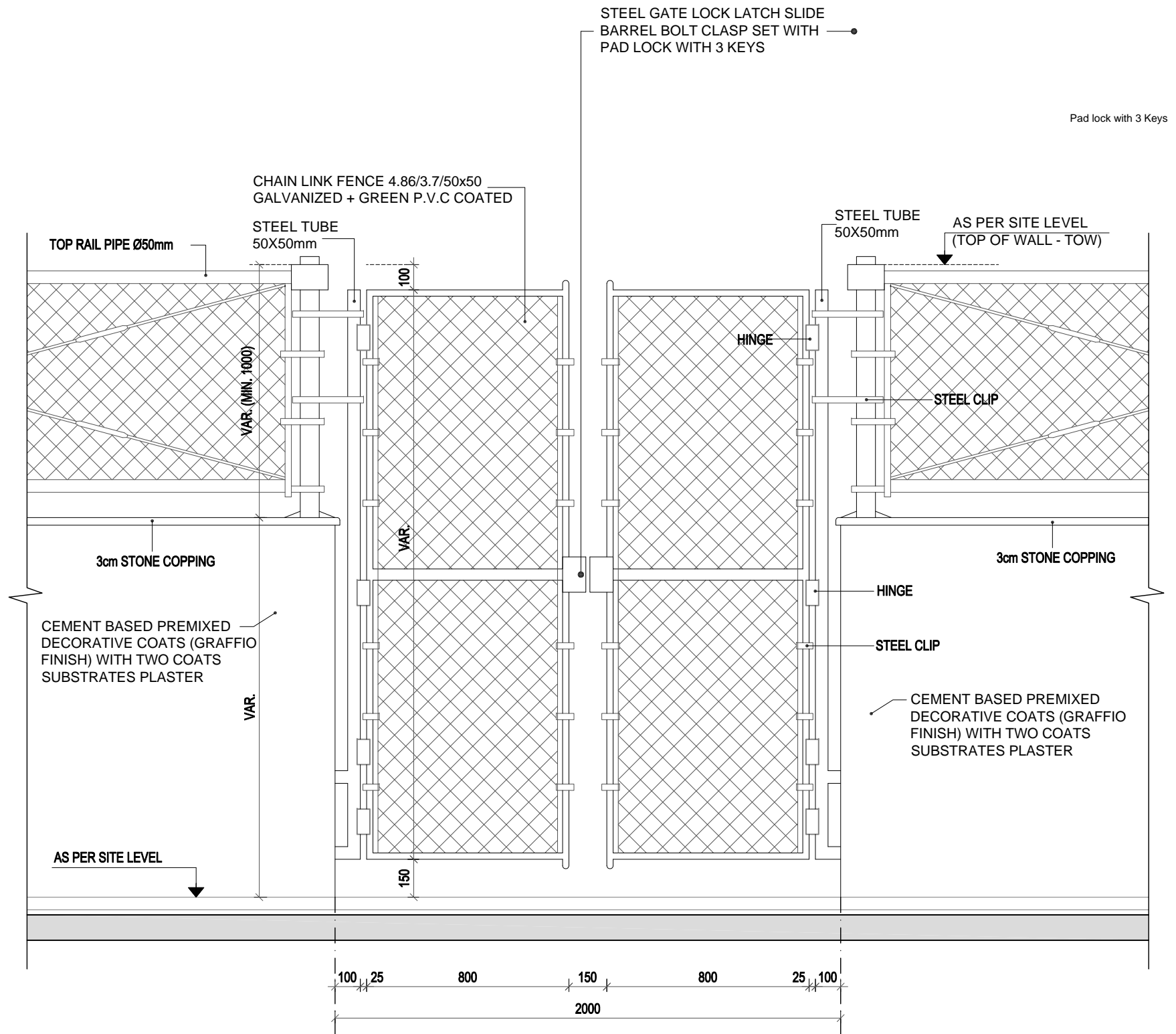
DRAWING NAME:

STEEL MESH FENCE DETAILS

Design:	Drawn:	REVISION No.:
H.B.	Engicon	0
Checked:	Approved:	SHEET NUMBER:
M.Sh.	S.B.	LSD-36
Date:	SCALE:	
June 2020	AS SHOWN	



A FENCE SECTION
SCALE 1 : 20



A STEEL MESH DOOR ELEVATION (DOUBLE LEAF) @ SITE
SCALE 1 : 20

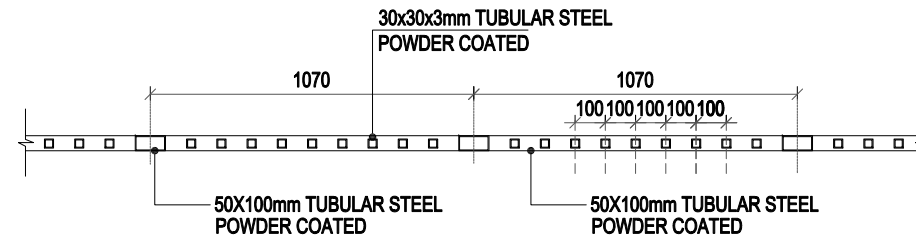
REV.	DATE	REMARKS



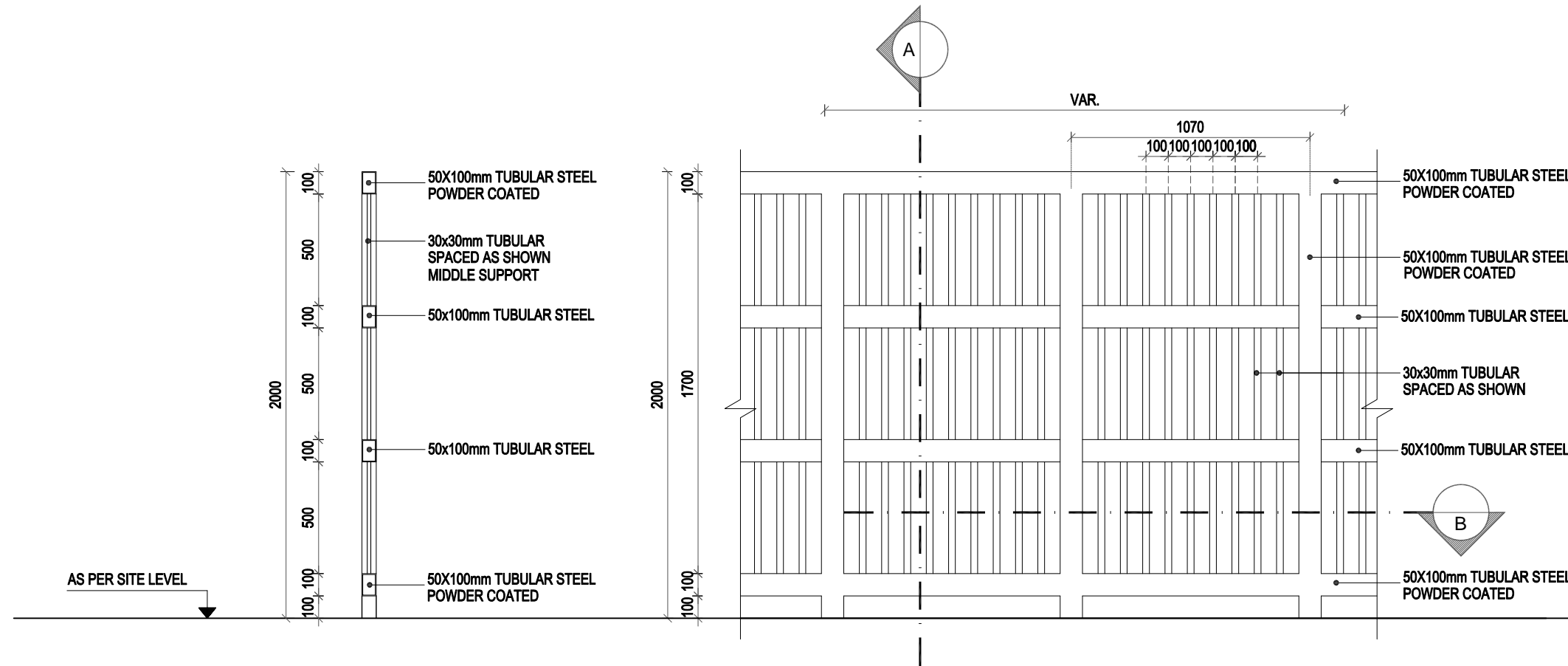
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
STEEL MESH FENCE DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-37
Date: June 2020	SCALE: 1:20	



A STEEL FENCE (SECTION A)
SCALE 1 : 25



B STEEL FENCE (SECTION B)
SCALE 1 : 25

C STEEL FENCE ELEVATION
SCALE 1 : 25

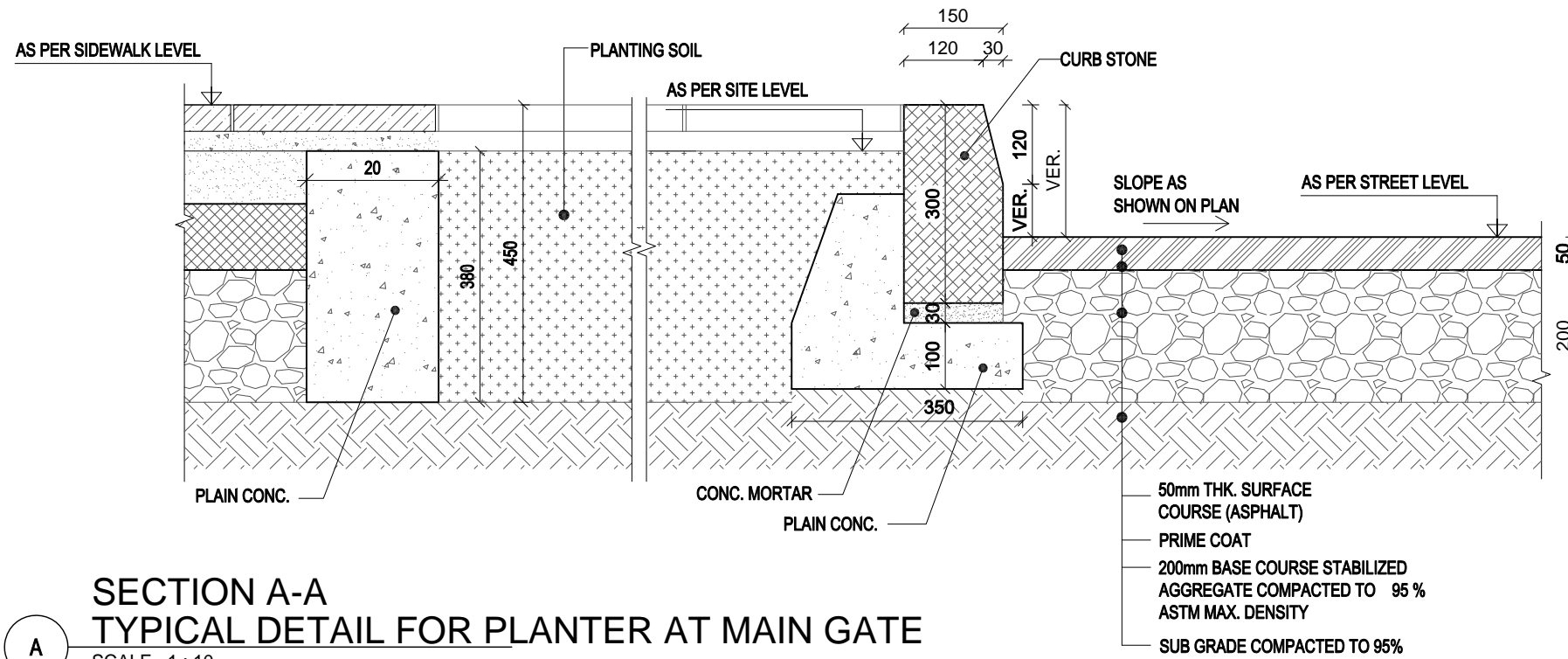
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
STEEL FENCE

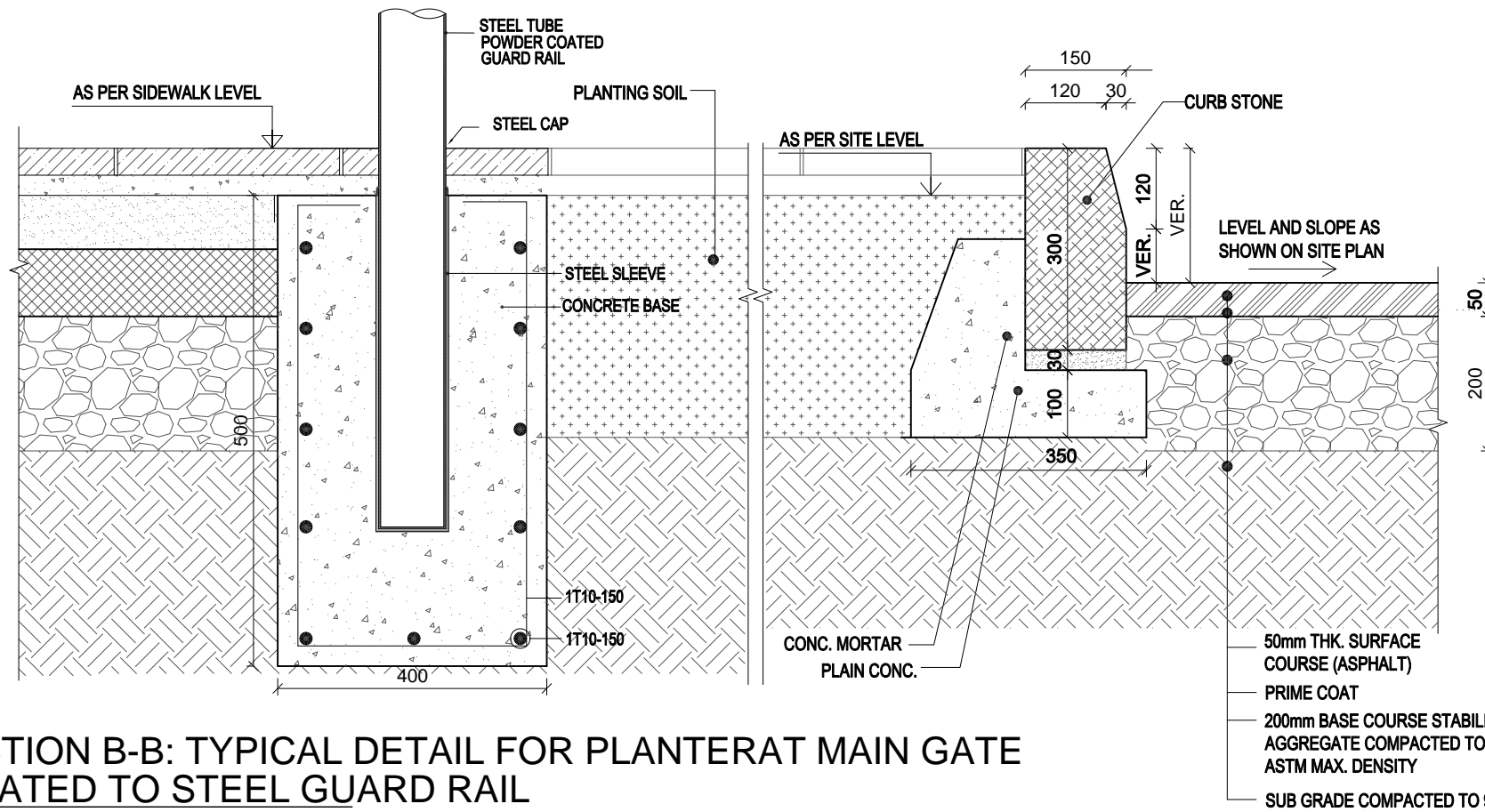
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: LSD-38
Date: June 2020	SCALE : 1:25	



SECTION A-A
TYPICAL DETAIL FOR PLANTER AT MAIN GATE

SCALE 1 : 10

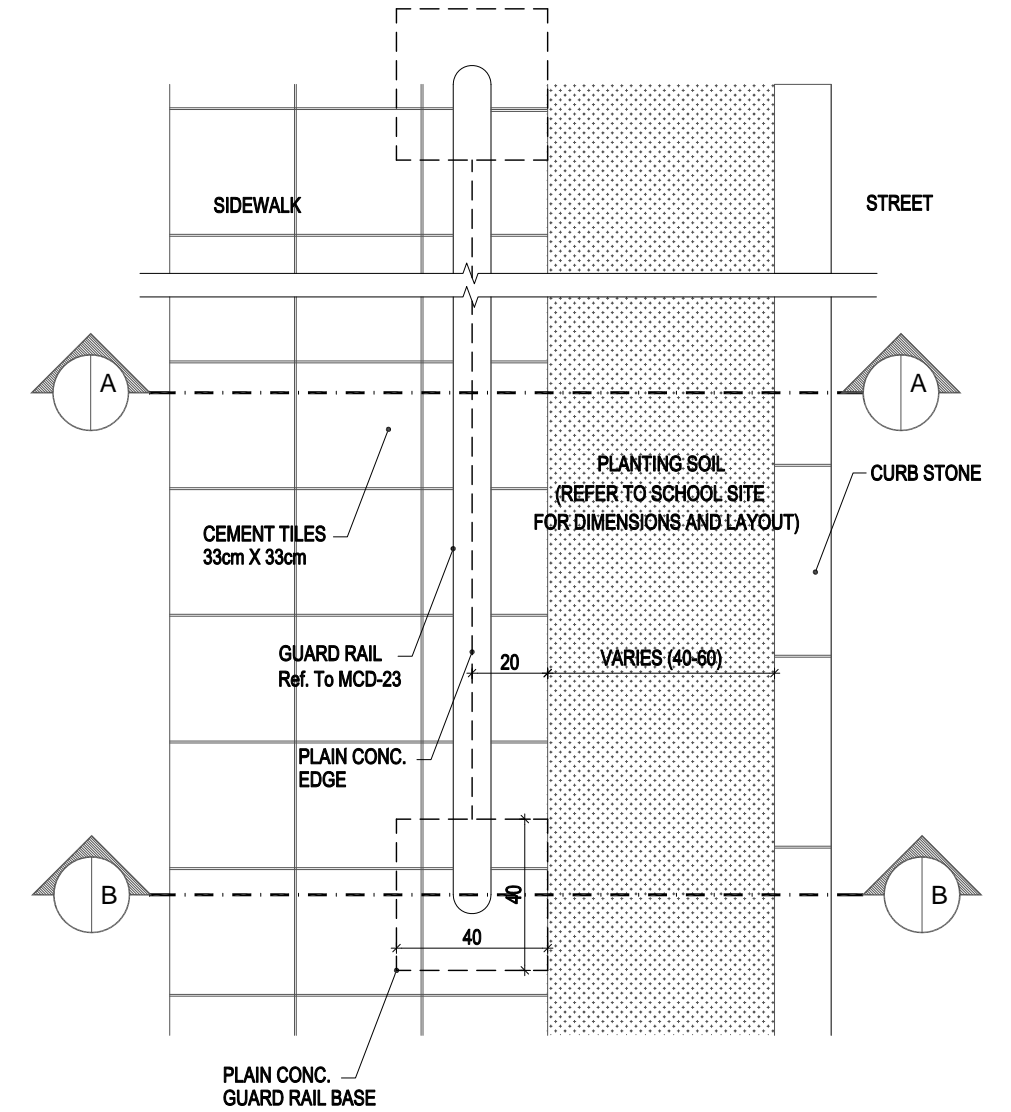
A



SECTION B-B: TYPICAL DETAIL FOR PLANTER AT MAIN GATE
RELATED TO STEEL GUARD RAIL

SCALE 1 : 10

B



TYPICAL PLAN FOR PLANTER AT MAIN GATE
RELATED TO STEEL GUARD RAIL

SCALE 1 : 20

C

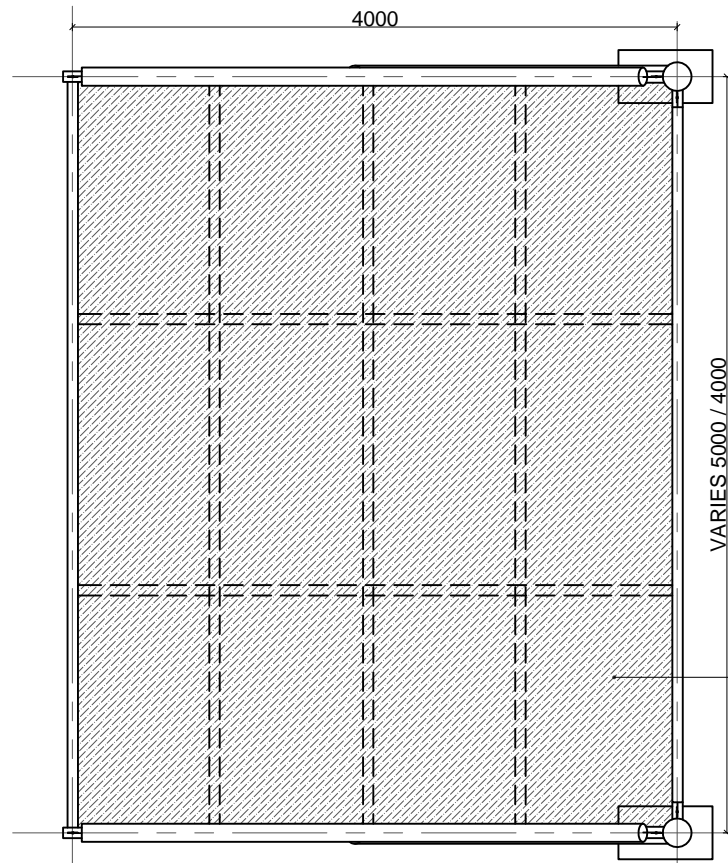
REV.	DATE	REMARKS



BOOK OF DETAILS

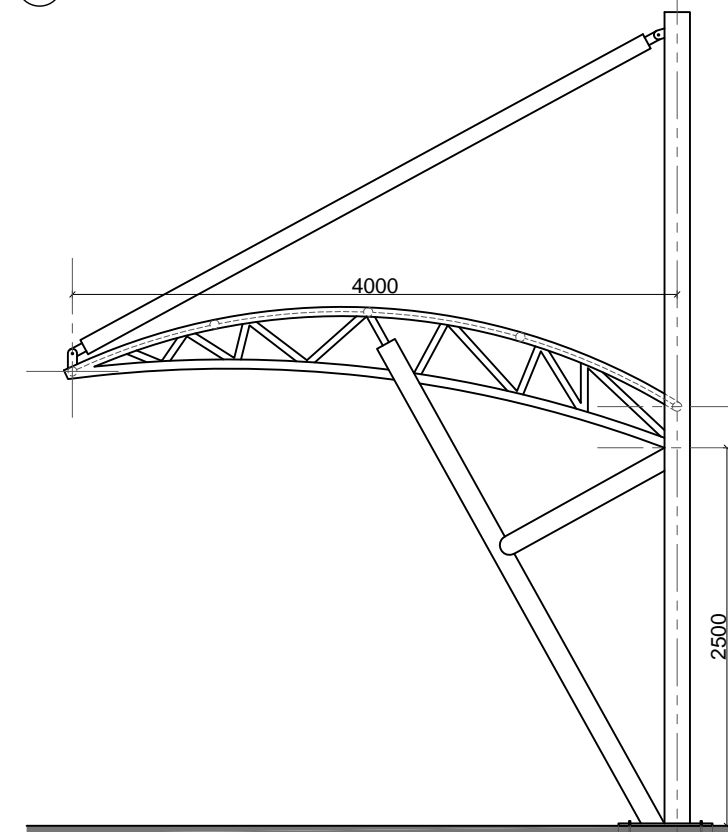
SCHOOLS FOR A KNOWLEDGE ECONOMY
 PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
PLANTER AT MAIN GATE DETAIL		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	LSD39
		Date:	SCALE:	
		June 2020	AS SHOWN	



SHADE FABRIC: HIGH DENSITY POLYETHYLENE (HDPE)
 COLORS: (YELLOW , CHERRY RED AND NAVY BLUE COLORS)

01 TYPICAL OUTDOOR SHADING STRUCTURE - PLAN
 SCALE 1 : 50



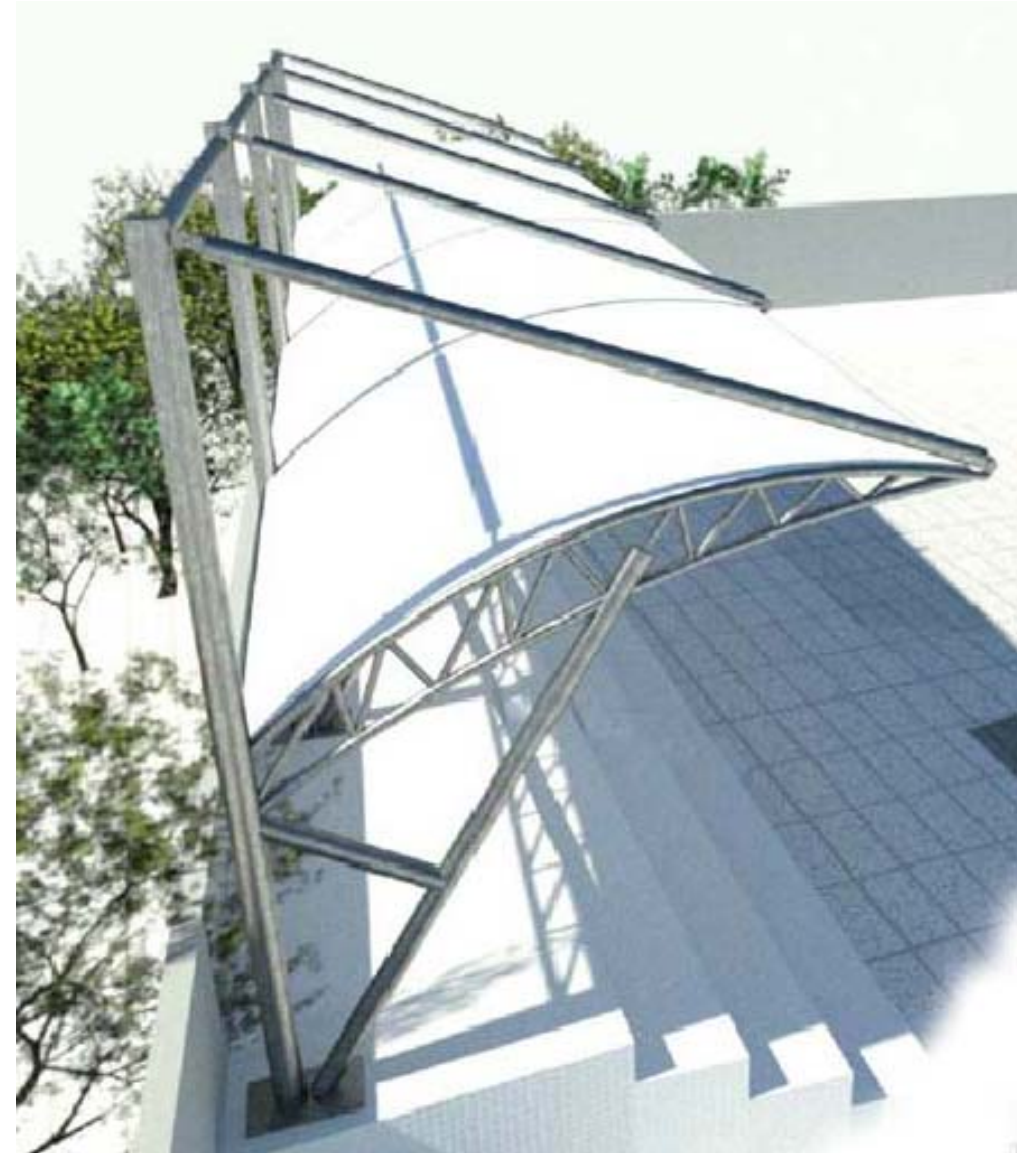
02 TYPICAL OUTDOOR SHADING STRUCTURE - SIDE Elev.
 SCALE 1 : 50

COMPONENTS:

- STEEL PIPES
- CABLES
- TURNBUCKLE
- SHADE FABRIC

NOTES:

- DIMENSIONS OF POSTS SECTIONS, CONCRETE BASE AND EXTENSION OF POST WITHIN CONCRETE ARE TO BE CALCULATED BY SUPPLIER TAKING INTO CONSIDERATION WIND, SNOW, METHOD OF INSTALLATION CONCRETE BASE CAPACITY AND REINFORCEMENT.
- THE CONTRACTOR MUST PROVIDE CONSTRUCTION DRAWINGS FOR THE WHOLE SHADE STRUCTURE COMPONENT AND STRUCTURAL CALCULATIONS BY AN APPROVED SUPPLIER FOR THE ENGINEER'S APPROVAL.
- REFER TO SPECIFICATION (SECTION 10530 PROTECTIVE COVERS).



REV.	DATE	REMARKS






BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

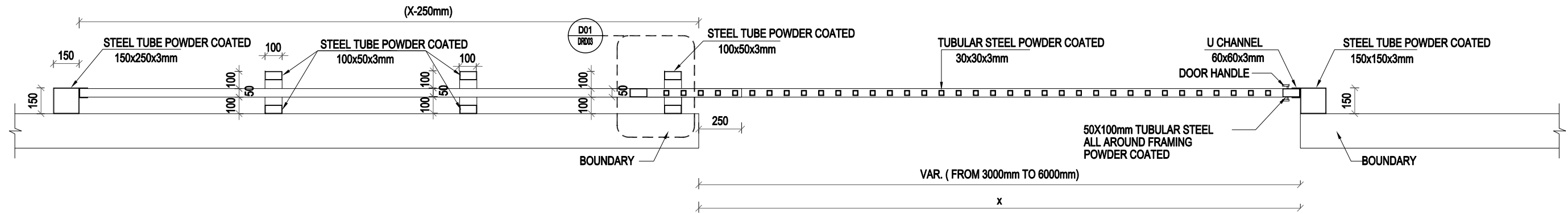
DRAWING NAME:	Design: H.B.	Drawn: Engicon	REVISION No. : 0
	Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
	Date: June 2020	SCALE : 1:50	LSD-40

DOORS DETAILS

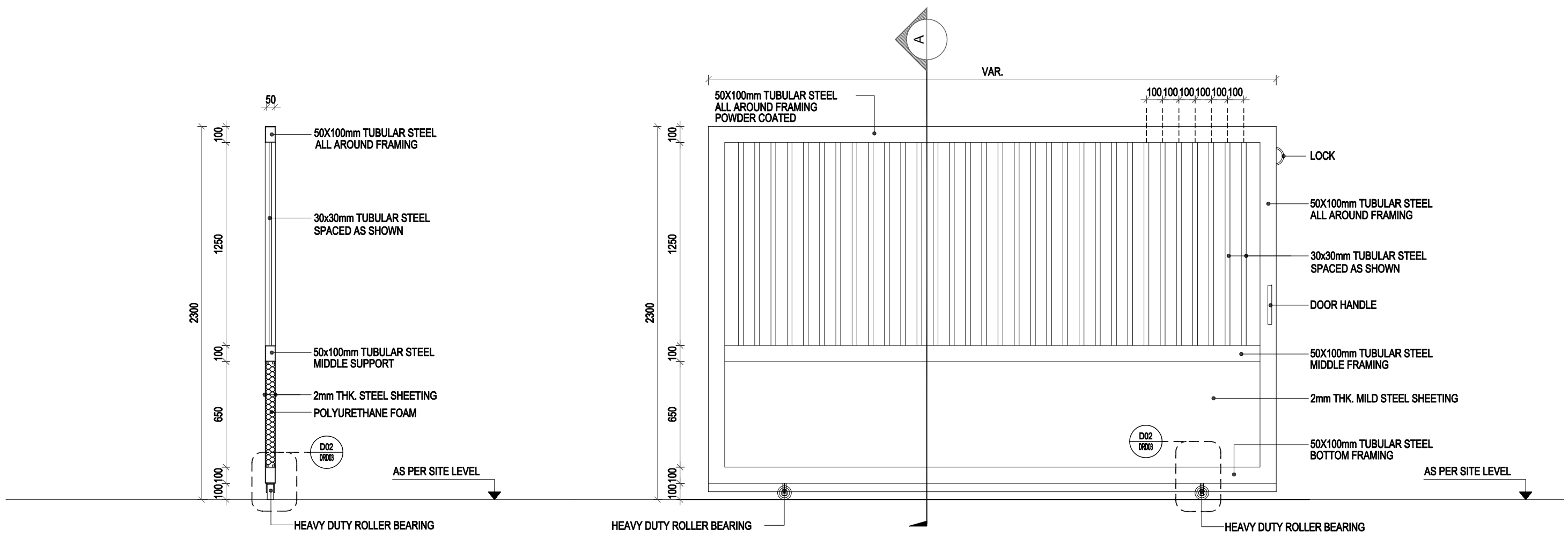
GENERAL NOTES

- 1- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD & SUBMIT SHOP DWGS. TO THE ENG. SHOWING ALL SUCH VERIFICATION FOR APPROVAL.
- 2- ALL HANDLES AND PLATES TO BE POLISHED CHROME OR STAINLESS STEEL SATIN FINISH ASSA ABLOY OR APPROVED EQUAL.
- 3- ALL IRONMONGARY AND HARDWARE OF WOODWORKS TO BE STAINLESS STEEL FINISH & OF HIGH QUALITY
- 4- DOORS:
 - THE DIMENSIONS SHOWING THE HEIGHT OF THE DOOR IS TAKEN FROM FINISHED FLOOR LEVEL TO THE TOP OF FRAME AT HEAD.
 - DIMENSIONS OF WORKING DWGS INDICATE DIMENSIONS OF MASONARY OPENINGS

						BOOK OF DETAILS SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)	DRAWING NAME: DOORS DETAILS NOTES	Design:	Drawn:	REVISION No. :
REV.	DATE	REMARKS						Checked:	Approved:	SHEET NUMBER:
								Engicon	0	
								AS SHOWN	DRD-01	



A SLIDING STEEL DOOR PLAN (PARKING GATE)
SCALE 1 : 25



B SECTION (A)
SCALE 1 : 25

C SLIDING STEEL DOOR ELEVATION
SCALE 1 : 25

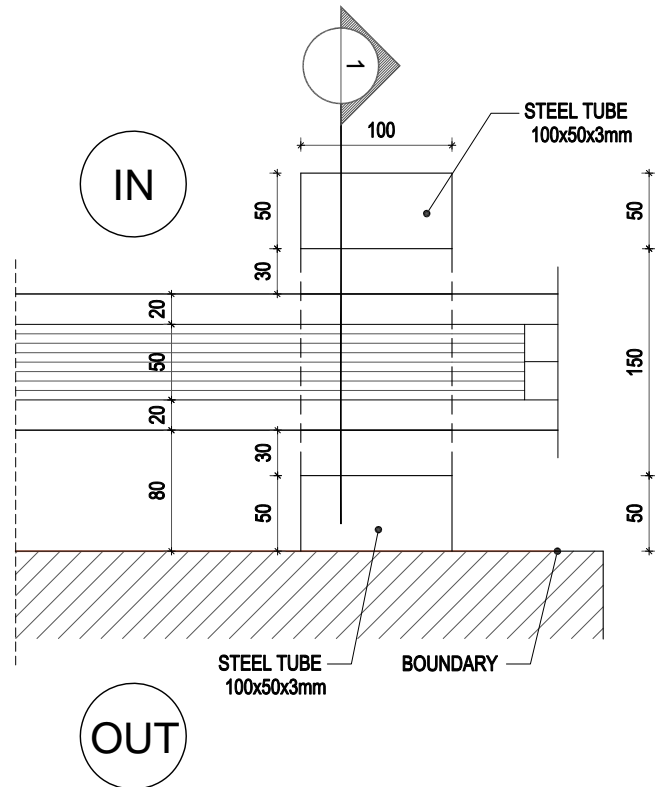
ALL STEELS TO BE POWDER COATED FINISH

REV.	DATE	REMARKS

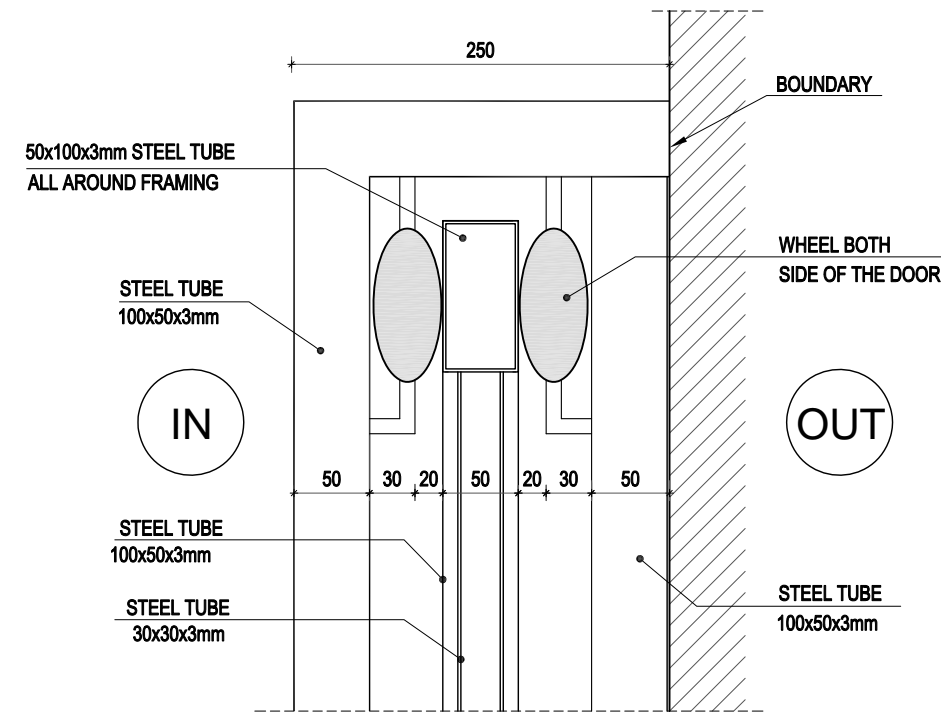


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

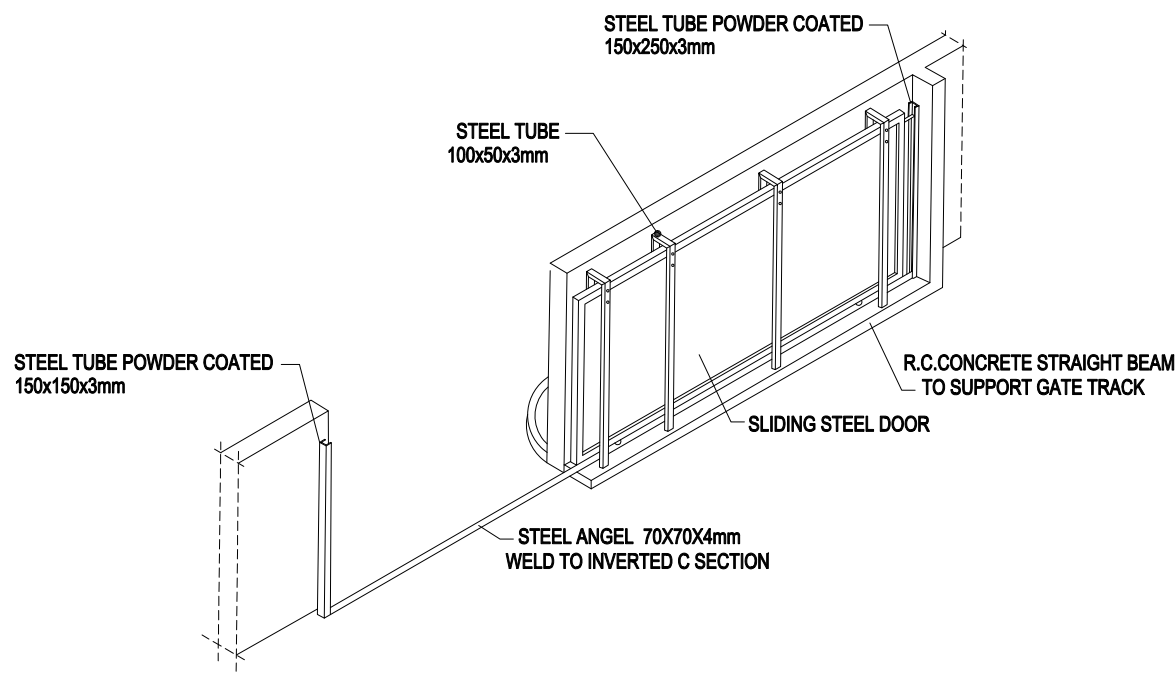
DRAWING NAME: SLIDING STEEL DOOR DETAILS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: DRD-02
		Date: June 2020	SCALE : 1:25	



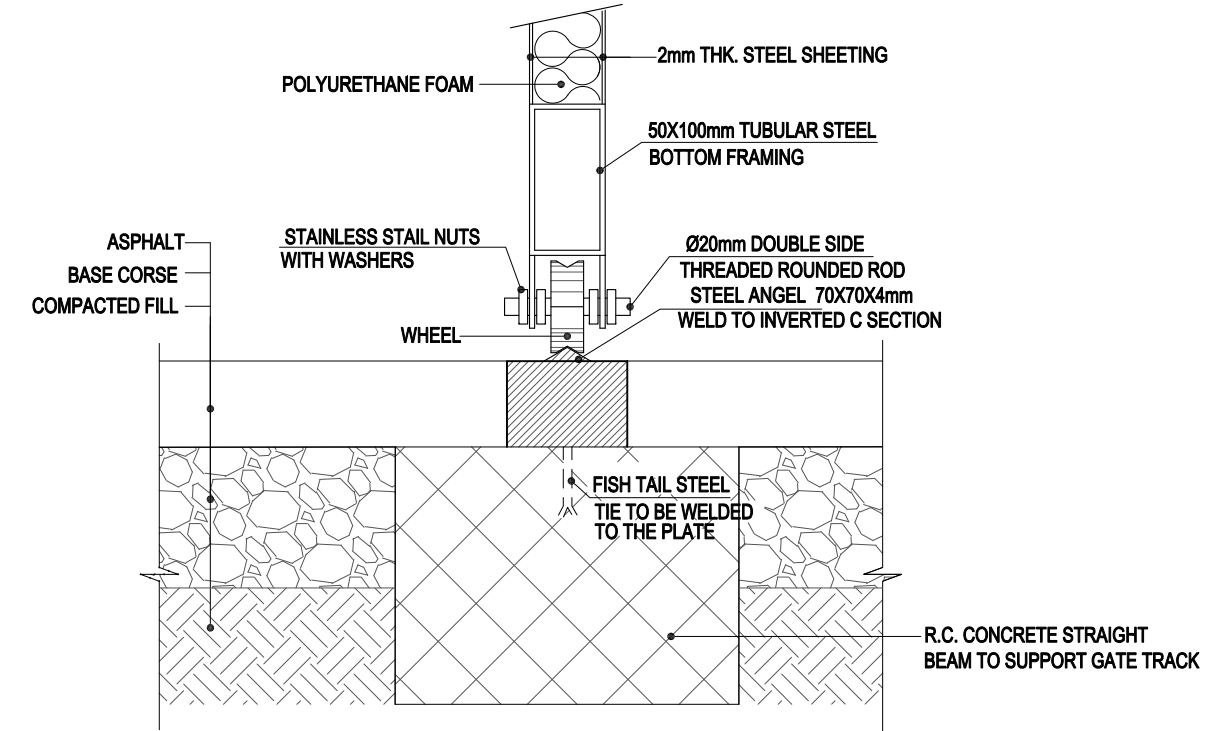
A PARTIAL PLAN DETAIL (D01) PLAN
SCALE 1 : 5



B PARTIAL PLAN DETAIL (D01) SECTION
SCALE 1 : 5



D SLIDING STEEL DOOR 3D
SCALE N.T.S



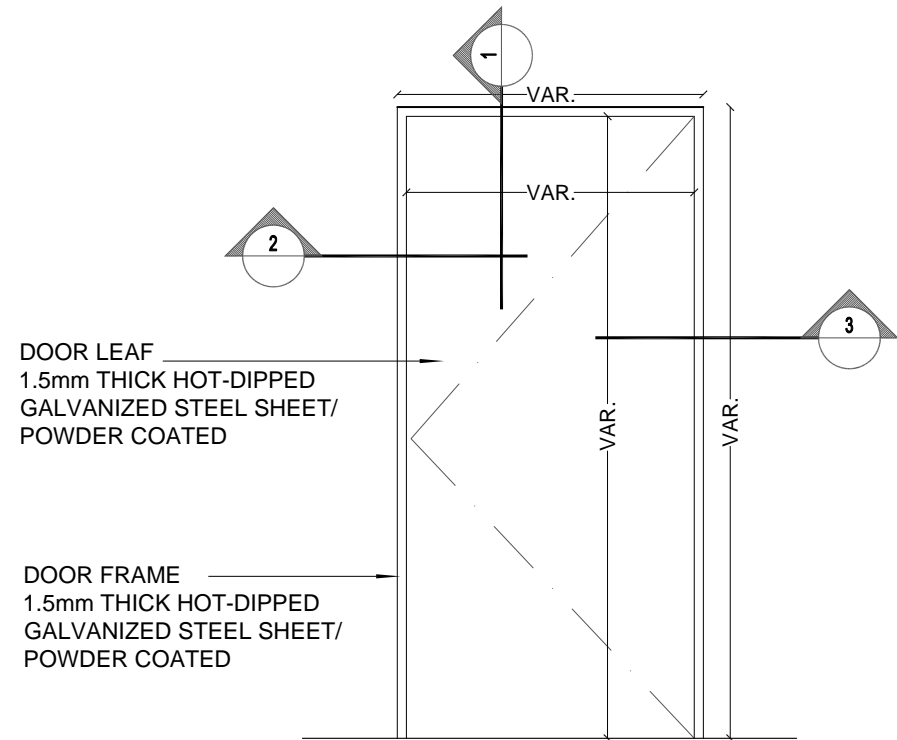
C SECTION GATE WHEEL (D02)
SCALE 1 : 5

REV.	DATE	REMARKS

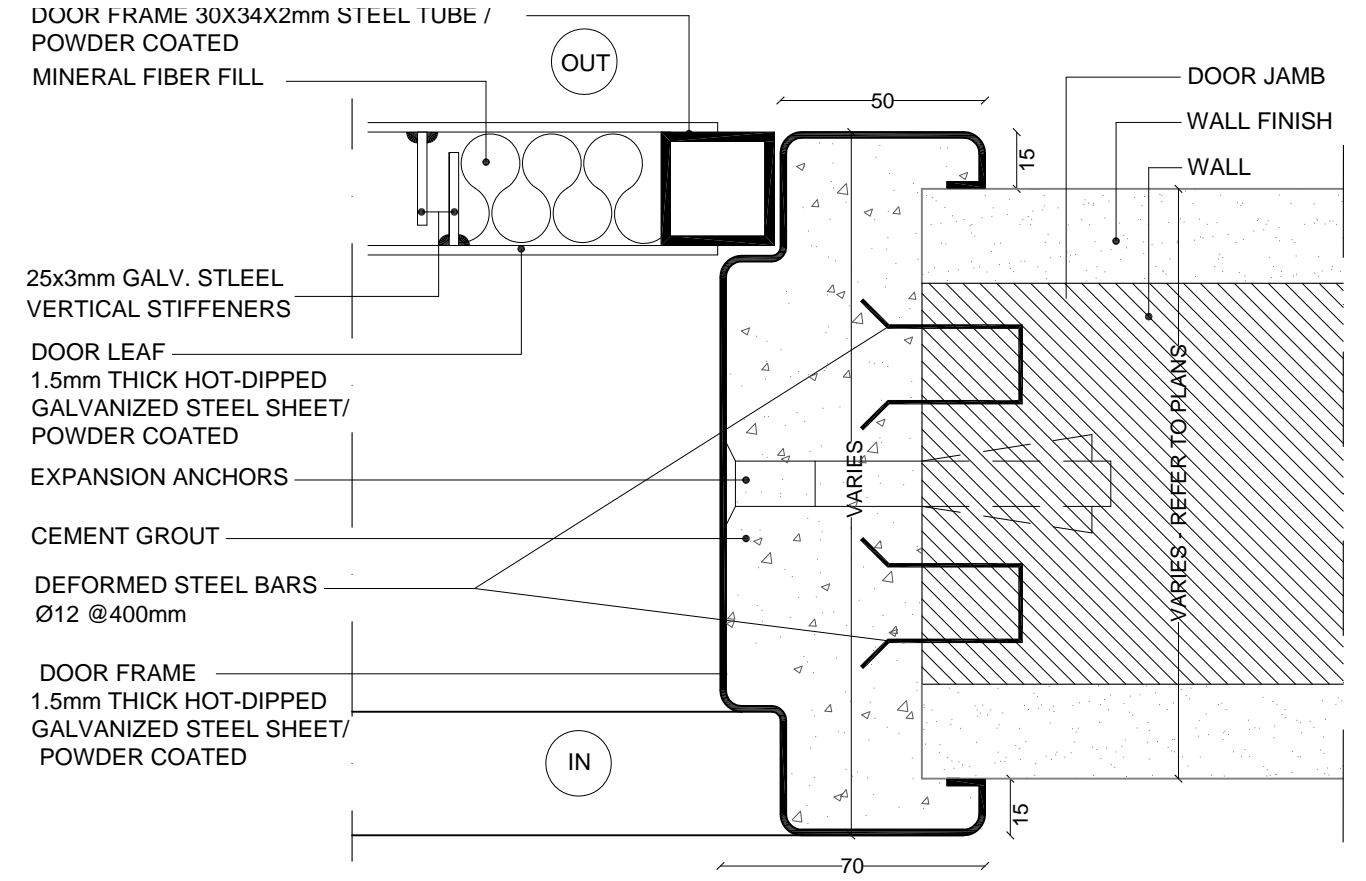


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

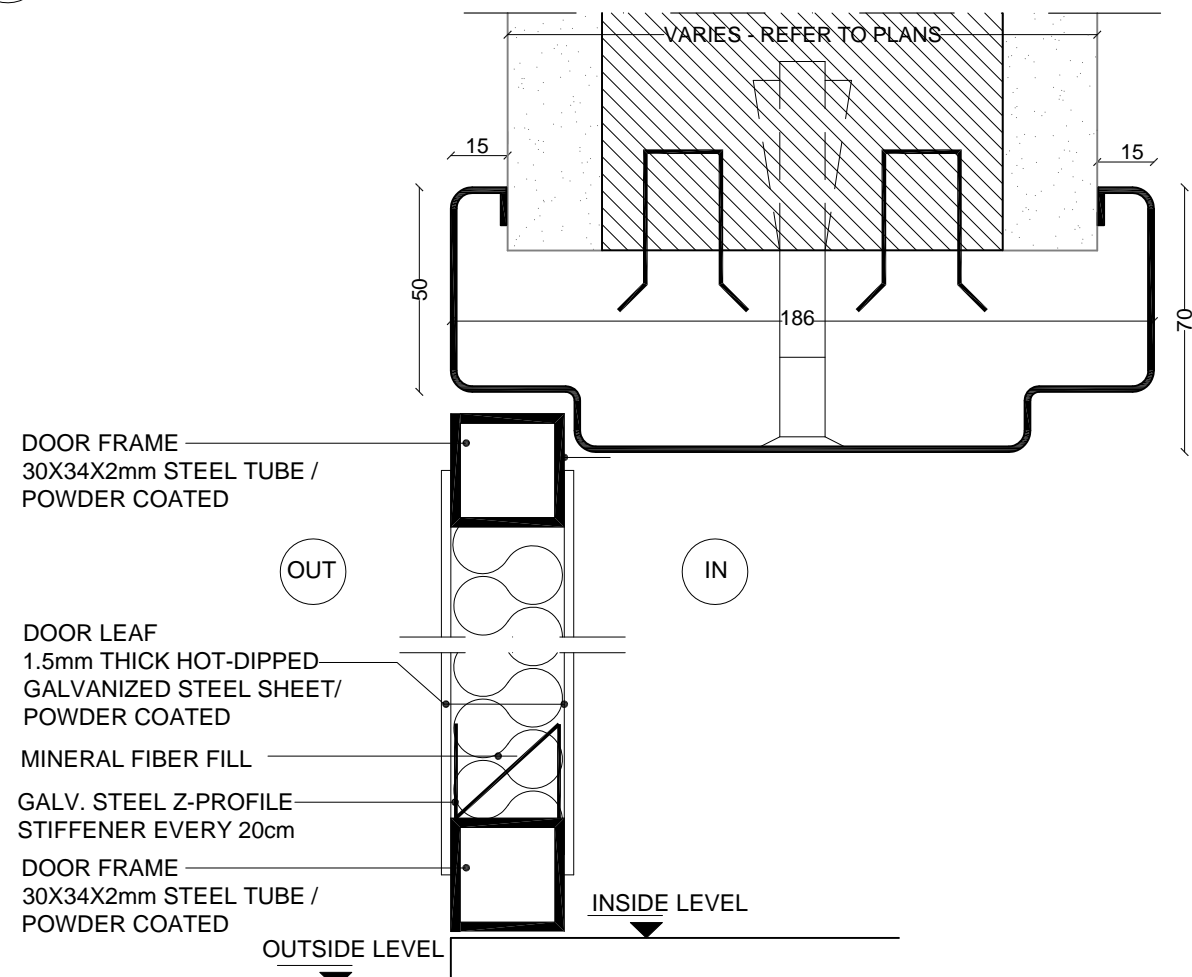
DRAWING NAME: SLIDING STEEL DOOR DETAILS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: DRD-03
		Date: June 2020	SCALE : AS SHOWN	



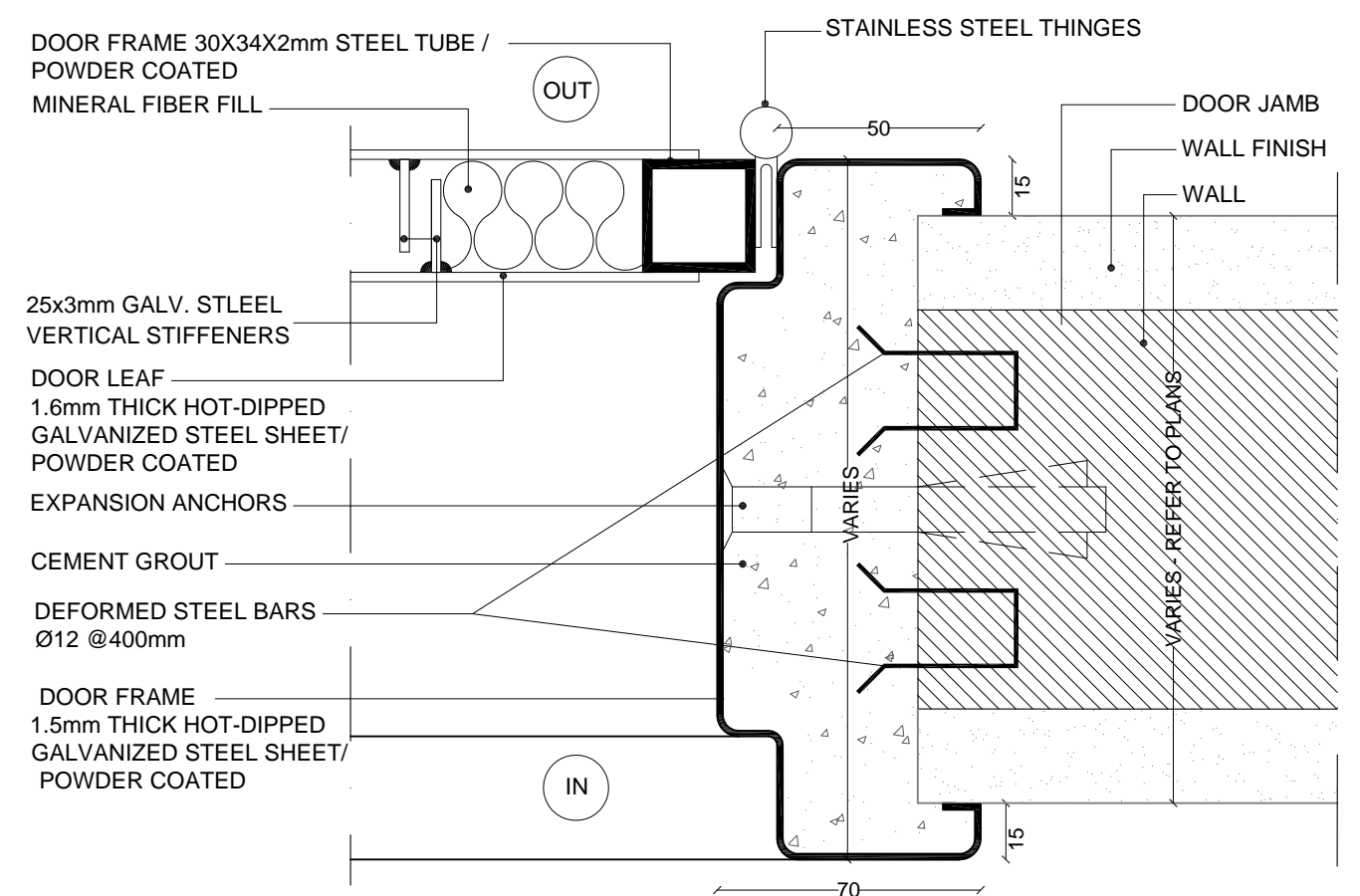
A JAMB CONNECTION, FLUSH STEEL DOOR
SCALE N.T.S.



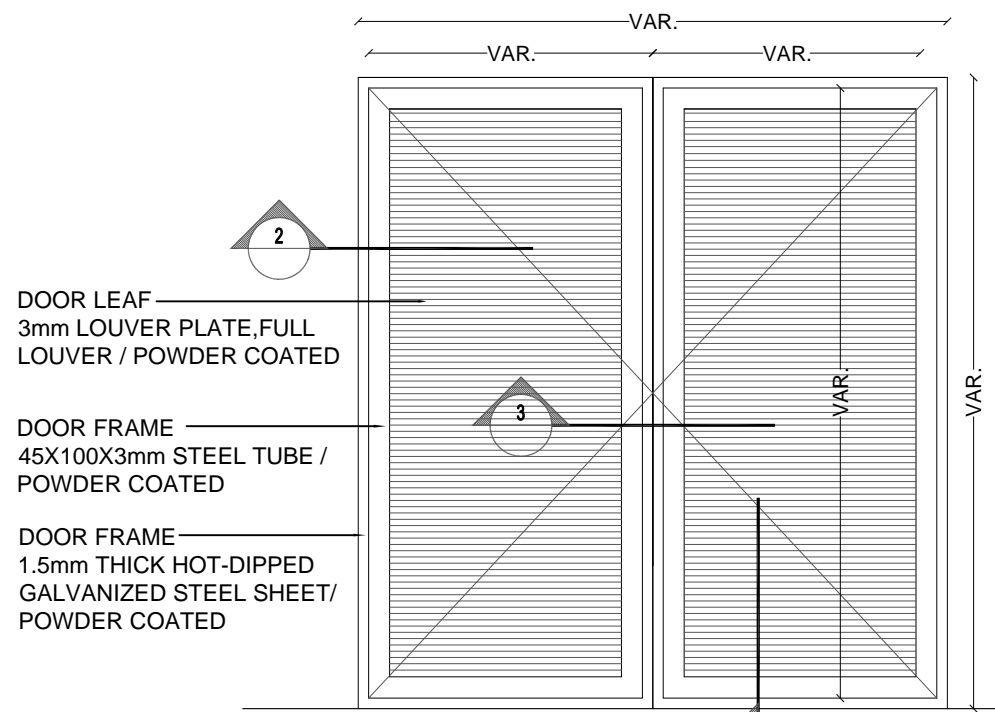
C (SEC. 2) JAMB CONNECTION, FLUSH STEEL DOOR
SCALE 1:2



B (SEC. 1) DOOR TOP AND BOTTOM CONNECTIONS, FLUSH STEEL DOOR
SCALE 1:2



D (SEC. 3) JAMB CONNECTION, FLUSH STEEL DOOR
SCALE 1:2

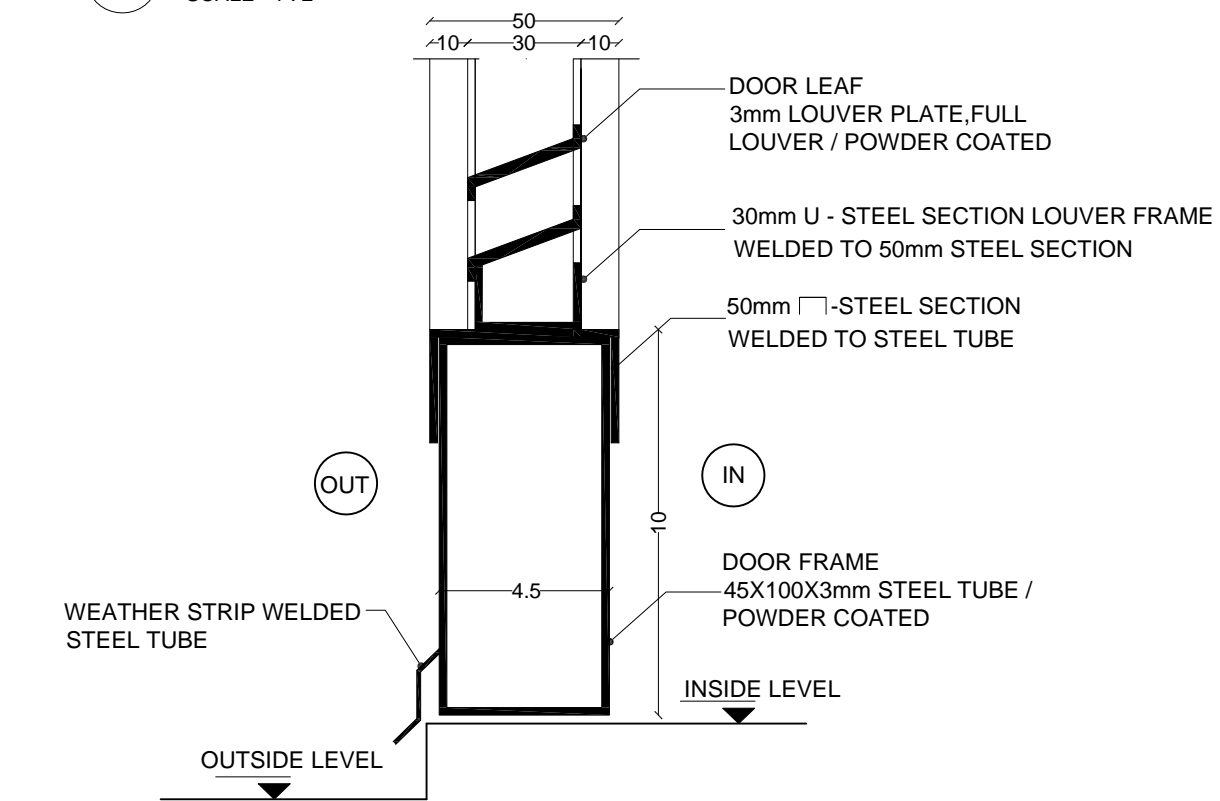


DOOR LEAF
3mm LOUVER PLATE, FULL
LOUVER / POWDER COATED

DOOR FRAME
45X100X3mm STEEL TUBE /
POWDER COATED

DOOR FRAME
1.5mm THICK HOT-DIPPED
GALVANIZED STEEL SHEET/
POWDER COATED

A LOUVER STEEL DOOR / ELEVATION
SCALE 1 : 2



DOOR LEAF
3mm LOUVER PLATE, FULL
LOUVER / POWDER COATED

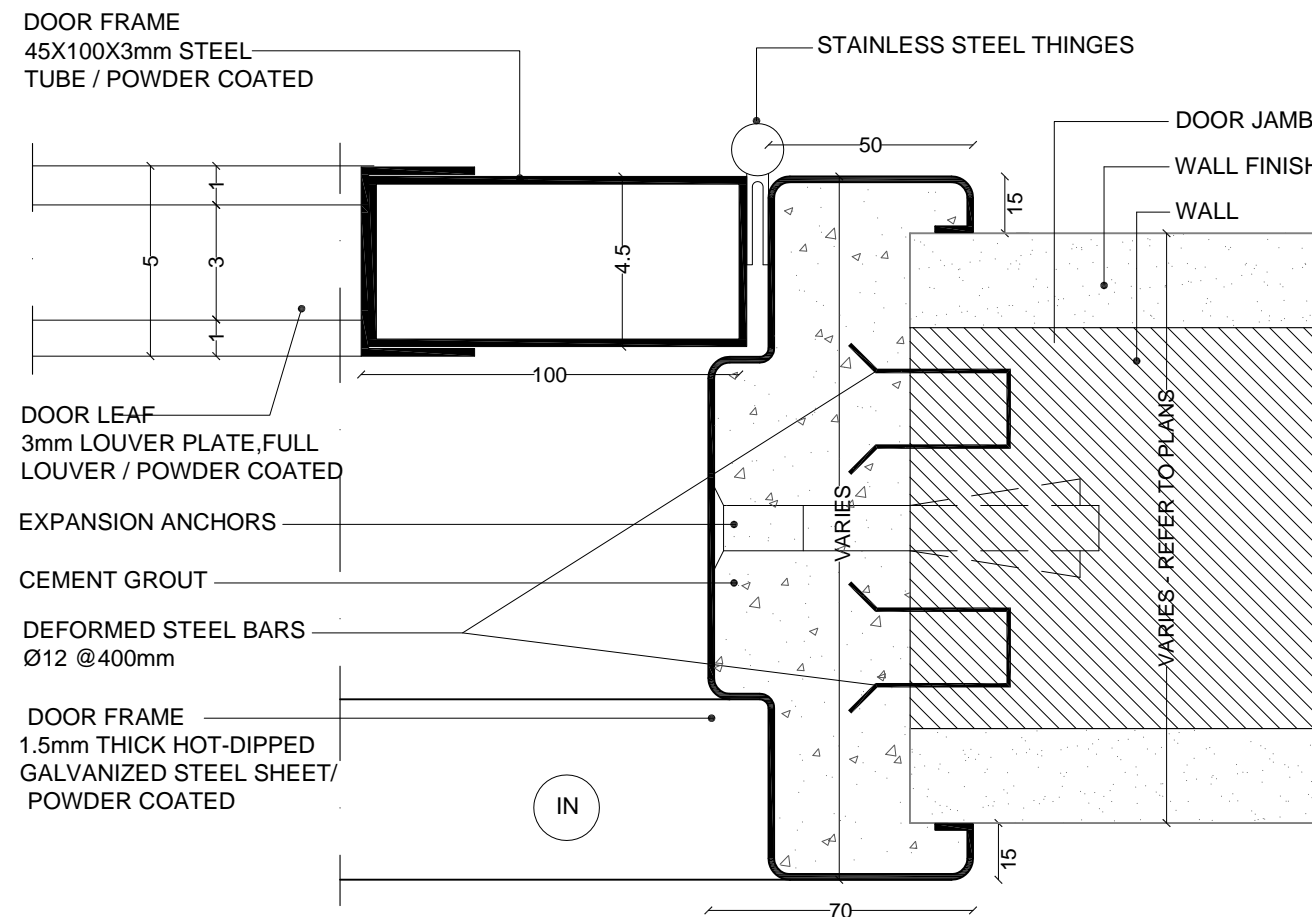
30mm U - STEEL SECTION LOUVER FRAME
WELDED TO 50mm STEEL SECTION

50mm \square -STEEL SECTION
WELDED TO STEEL TUBE

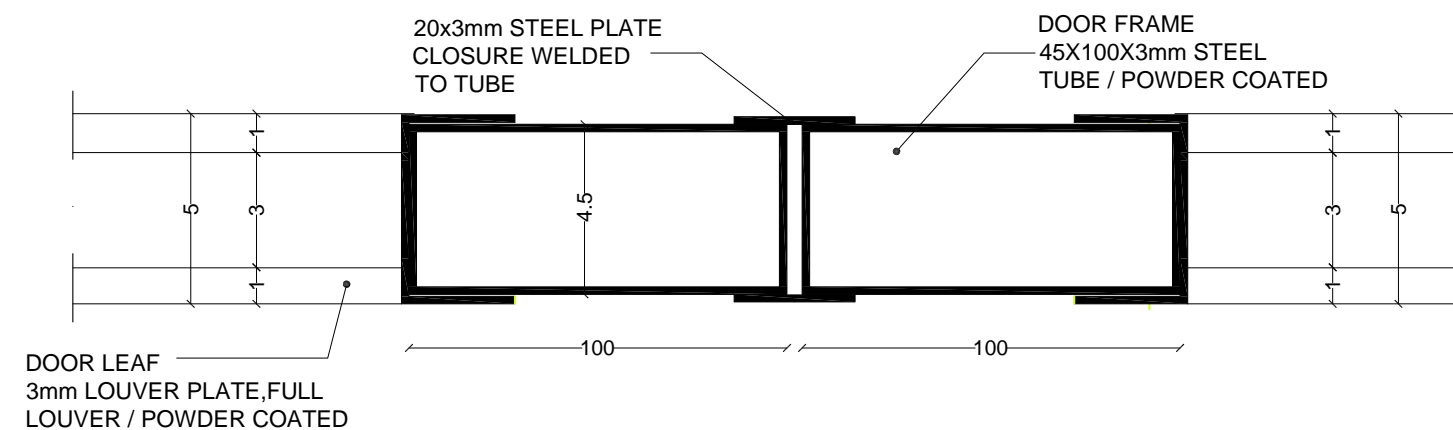
DOOR FRAME
45X100X3mm STEEL TUBE /
POWDER COATED

WEATHER STRIP WELDED
STEEL TUBE

B (SEC. 1) DOOR BOTTOM , FULL LOUVER DOOR STEEL
SCALE 1 : 2



C (SEC. 1) DOOR JAMB CONNECTION, FULL LOUVER STEEL DOOR
SCALE 1 : 2



D (SEC. 1) DOUBLE LEAVES CONNECTION , FULL LOUVER STEEL DOOR
SCALE 1 : 2

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
STEEL DOORS DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE : 1:2	DRD-05

DOOR FRAME
45X100X3mm STEEL
TUBE / POWDER COATED

DOOR LEAF
3mm LOUVER PLATE, FULL
LOUVER / POWDER COATED

EXPANSION ANCHORS

CEMENT GROUT

EXPANSION ANCHORS
AT ADEQUATE SPACES

DOOR FRAME
1.5mm THICK HOT-DIPPED
GALVANIZED STEEL SHEET/
POWDER COATED

STAINLESS-STEEL HINGES

SEALANT ON
BACKING ROD

STONE

VARIES

VARIES - REFER TO PLANS

(SEC. 1) DOOR JAMB CONNECTION, FULL LOUVER STEEL DOOR
WITH STONE CLADDING

C

SCALE 1:2

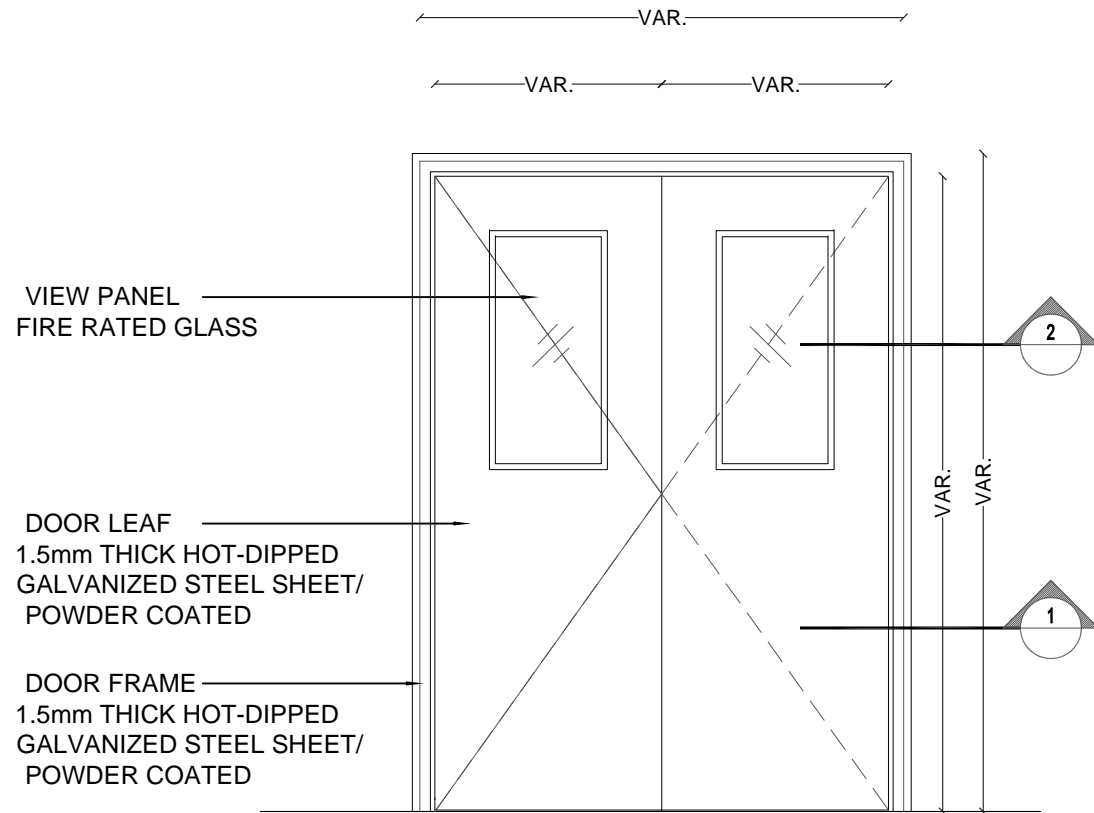
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
STEEL DOORS DETAILS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: DRD-05A
Date: June 2020	SCALE : 1:10	



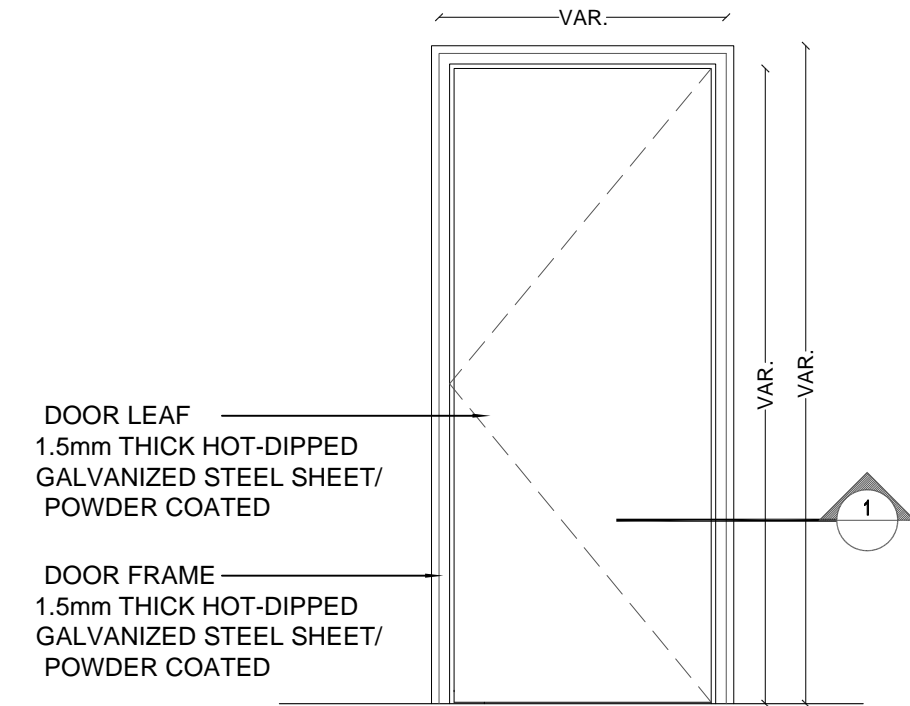
VIEW PANEL
FIRE RATED GLASS

DOOR LEAF
1.5mm THICK HOT-DIPPED
GALVANIZED STEEL SHEET/
POWDER COATED

DOOR FRAME
1.5mm THICK HOT-DIPPED
GALVANIZED STEEL SHEET/
POWDER COATED

**STEEL FIRE RATED DOOR
DOUBLE LEAVES WITH VISION PANEL**

SCALE 1 : 20

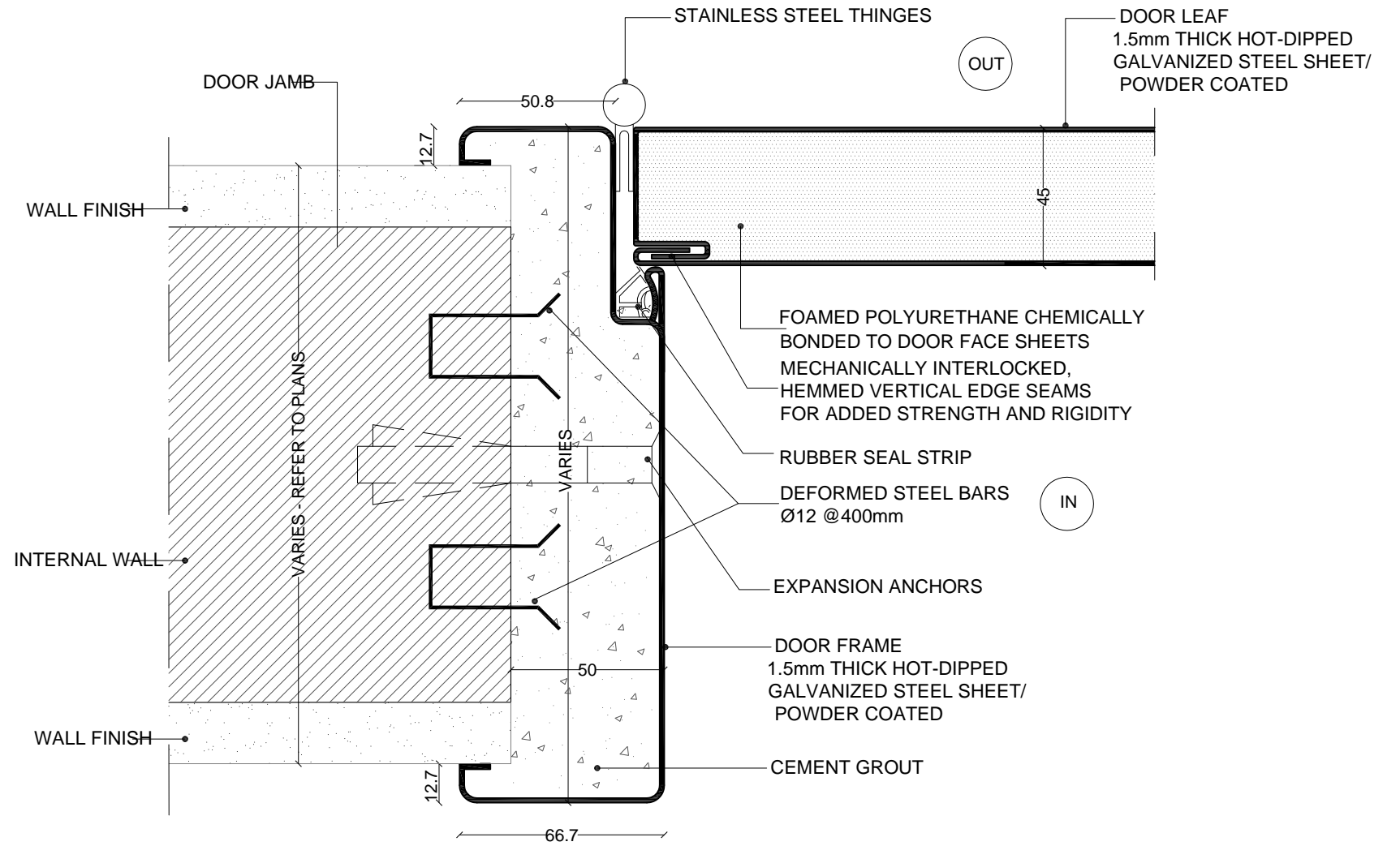


DOOR LEAF
1.5mm THICK HOT-DIPPED
GALVANIZED STEEL SHEET/
POWDER COATED

DOOR FRAME
1.5mm THICK HOT-DIPPED
GALVANIZED STEEL SHEET/
POWDER COATED

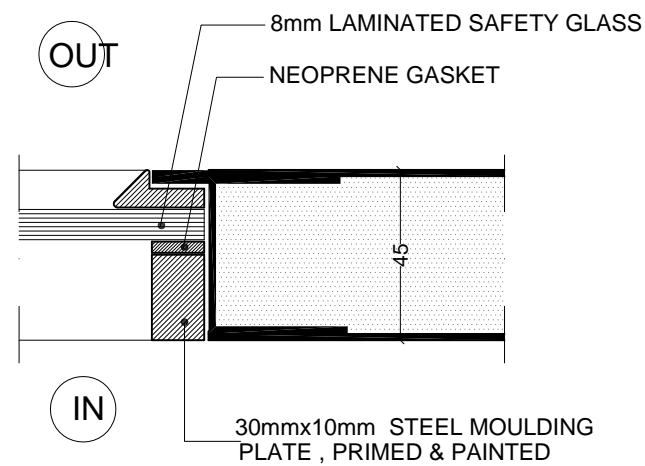
**STEEL FIRE RATED DOOR
SINGLE LEAF**

SCALE 1 : 20



**DETAIL-1 - DOOR JAMB CONNECTION,
FIRE RATED STEEL DOOR**

SCALE 1 : 2



**DETAIL-2
DOOR VISION PANEL DETAIL**

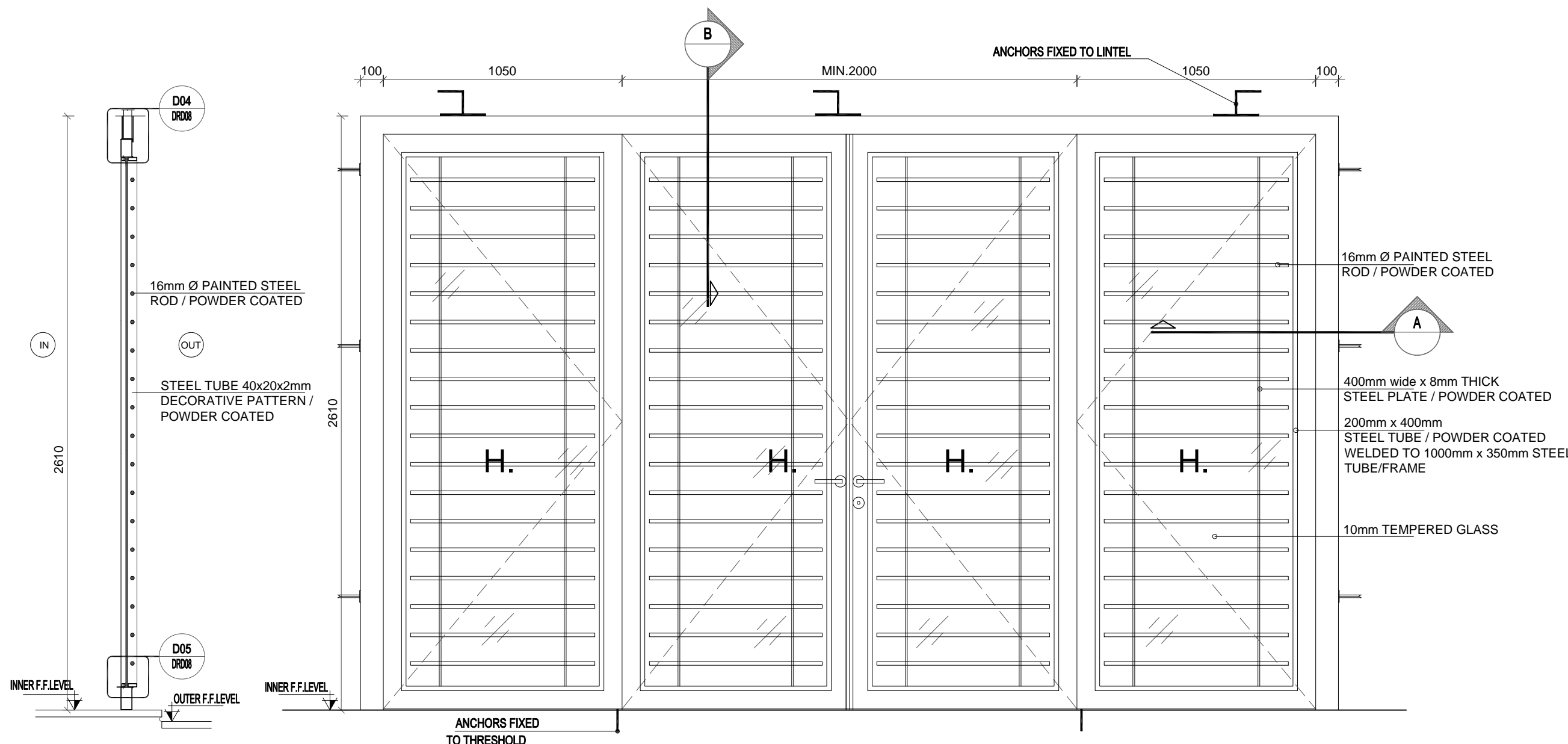
SCALE 1 : 2

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

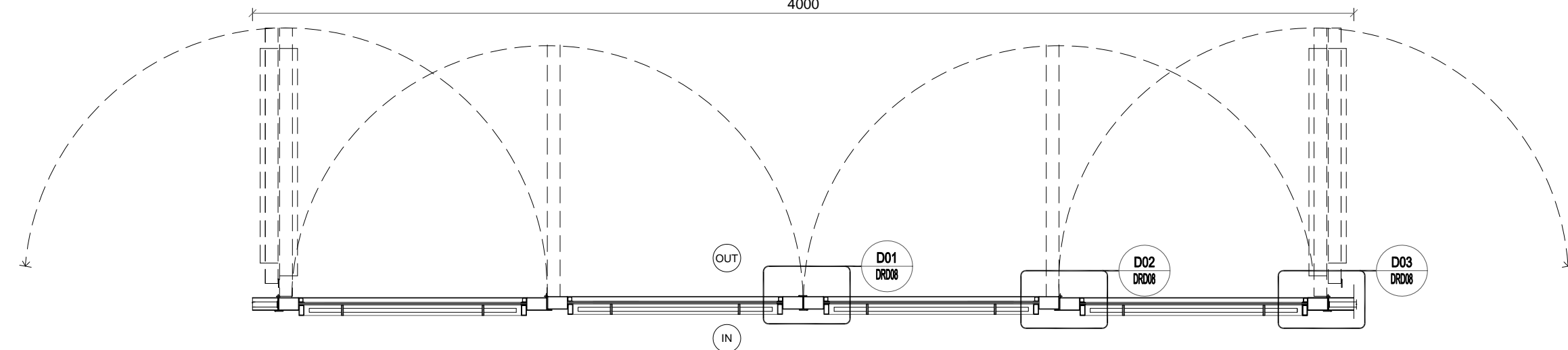
DRAWING NAME: STEEL DOORS DETAILS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: AS SHOWN	DRD-06



ELEVATION- STEEL DOOR (HINGED/FOLDABLE)





02 SECTION B
SCALE 1:20

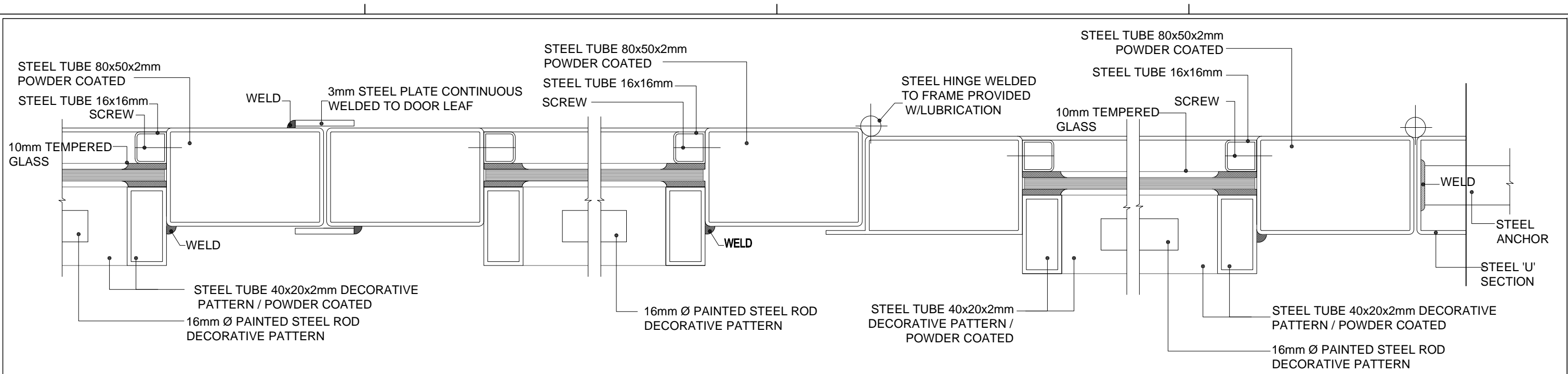
01 SCALE 1:20



SECTION A -STEEL DOOR (HINGED/FOLDABLE):
4 LEAVES OPEN 180 DEGREE TO THE SIDES

03 SCALE 1:20

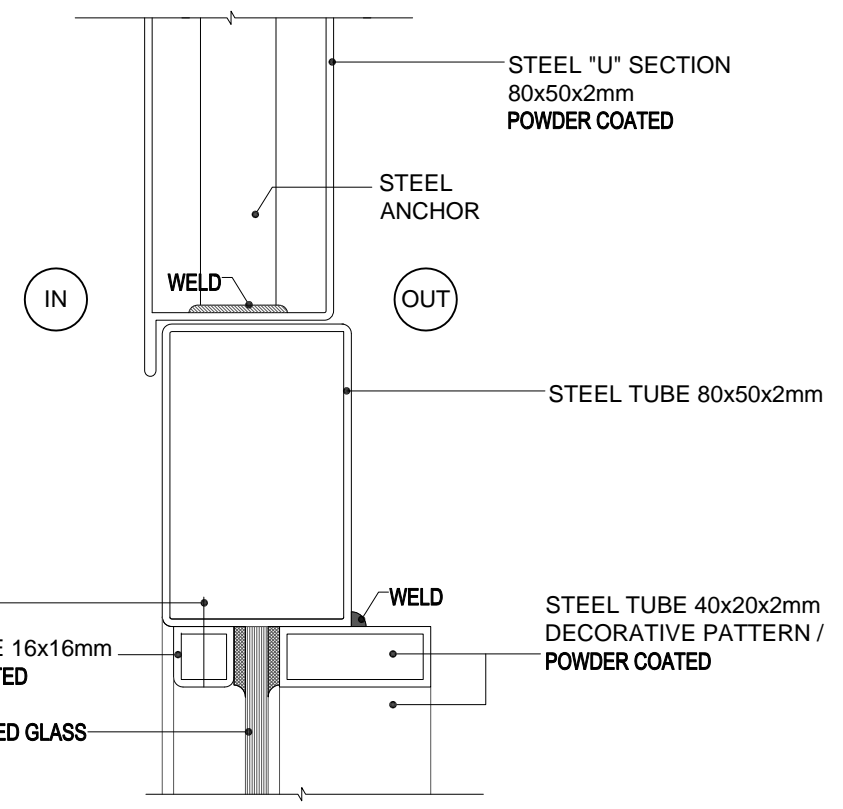
REV.	DATE	REMARKS	   	BOOK OF DETAILS SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)	DRAWING NAME: STEEL DOORS DETAILS	Design: H.B.	Drawn: Engicon	REVISION No. : 0
						Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: DRD-07
						Date: June 2020	SCALE : 1:20	



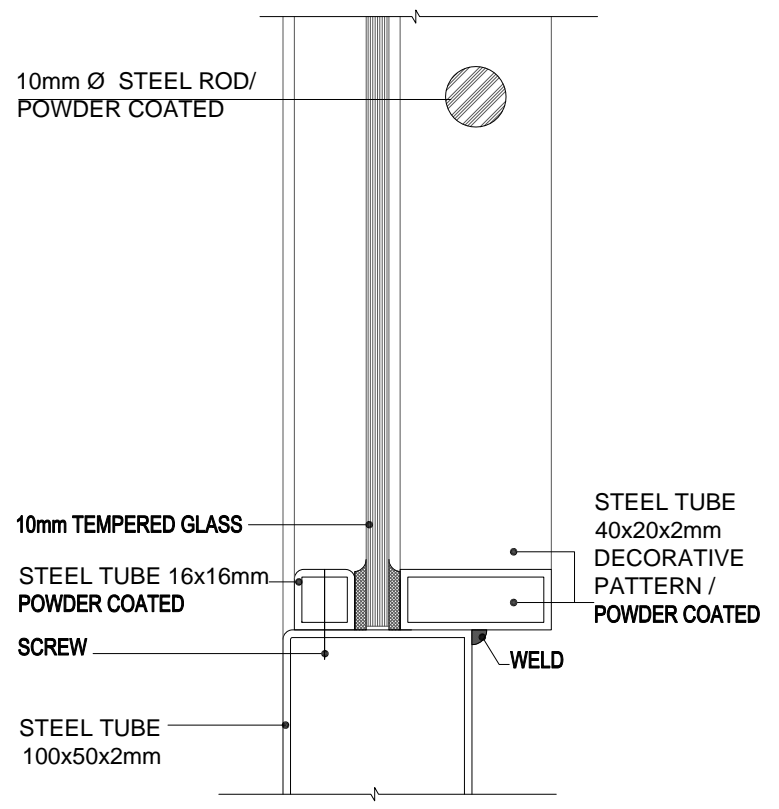
A **DETAIL 1**
 SCALE 1 : 2

B **DETAIL 2**
 SCALE 1 : 2

C **DETAIL 3**
 SCALE 1 : 2



D **DETAIL 4**
 SCALE 1 : 2



E **DETAIL 5**
 SCALE 1 : 2

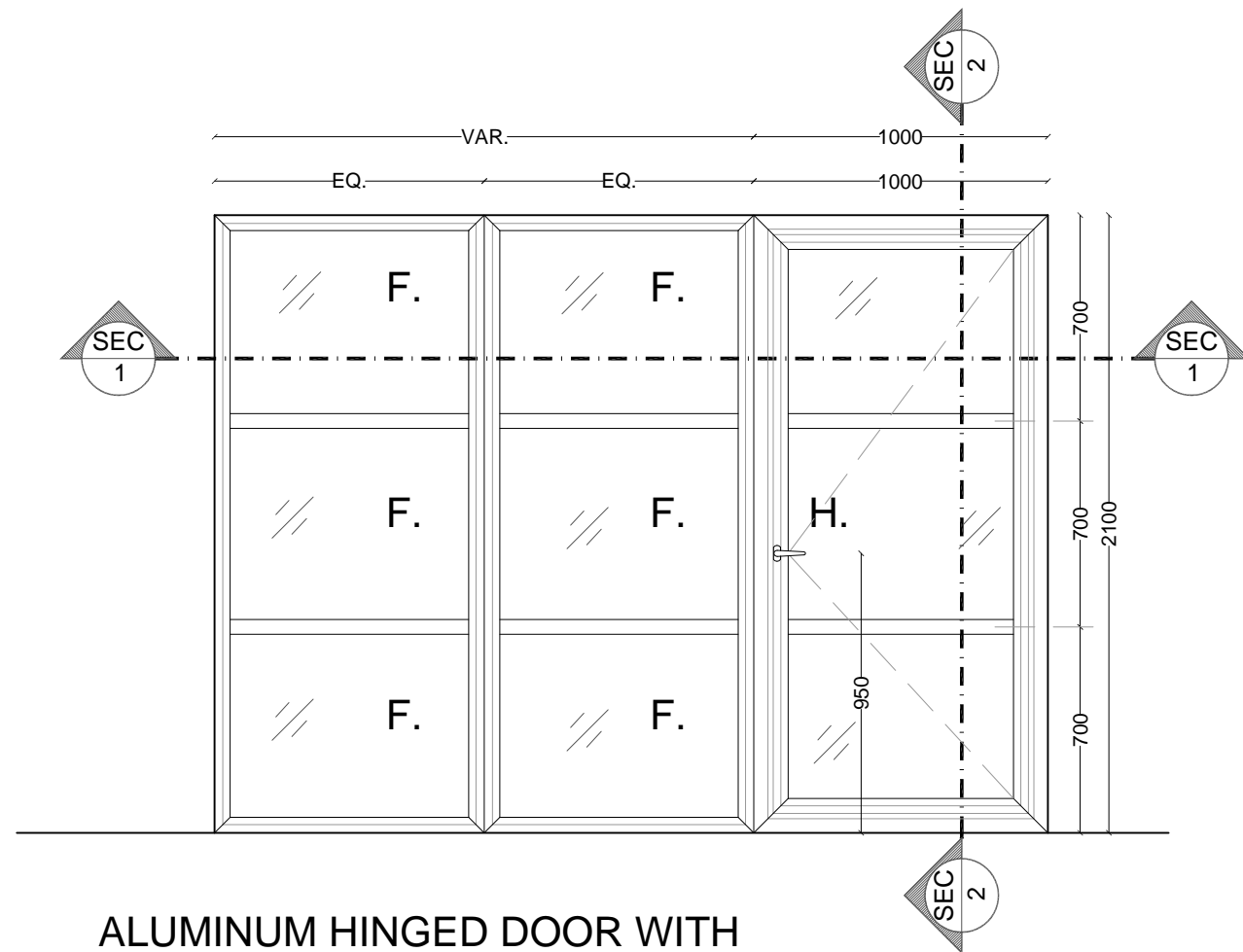
REV.	DATE	REMARKS



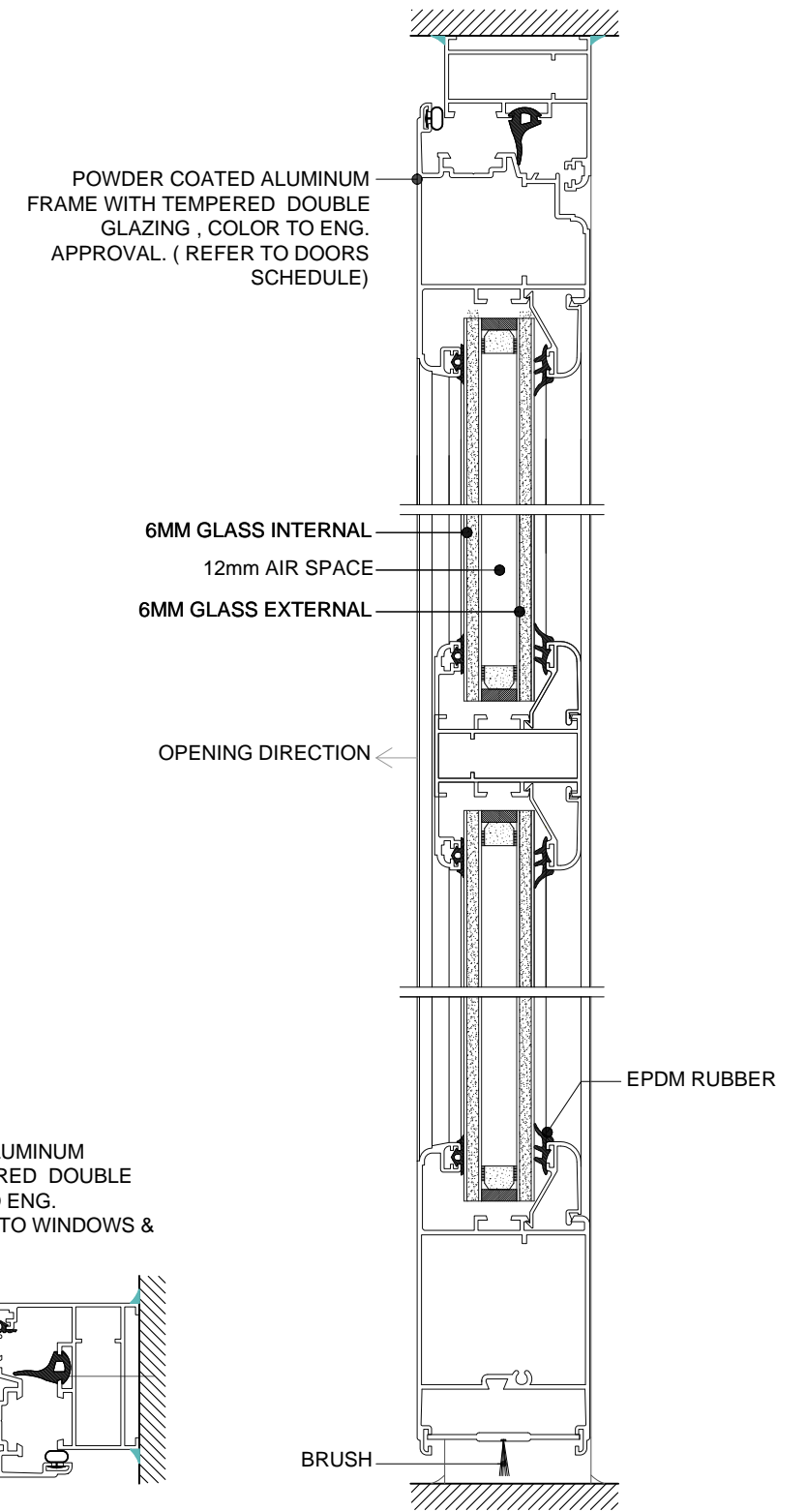
BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
 STEEL DOORS DETAILS

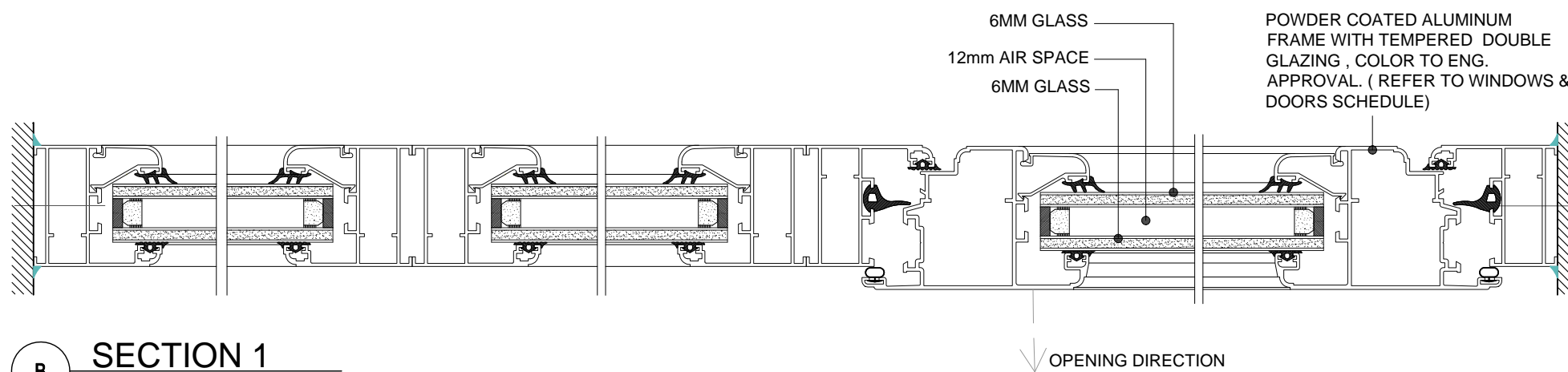
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: DRD-08
Date: June 2020	SCALE : 1:2	



A ALUMINUM HINGED DOOR WITH SIDE FIXED GLASS PANELS / ELEVATION
SCALE 1 : 20



C SECTION 2
SCALE 1 : 2



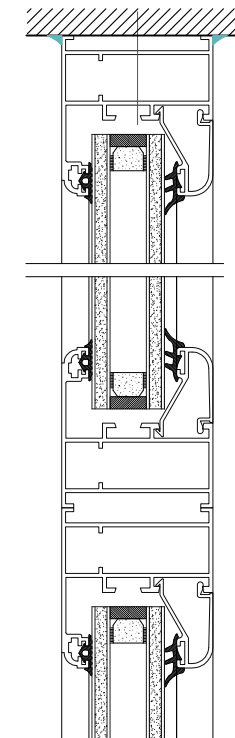
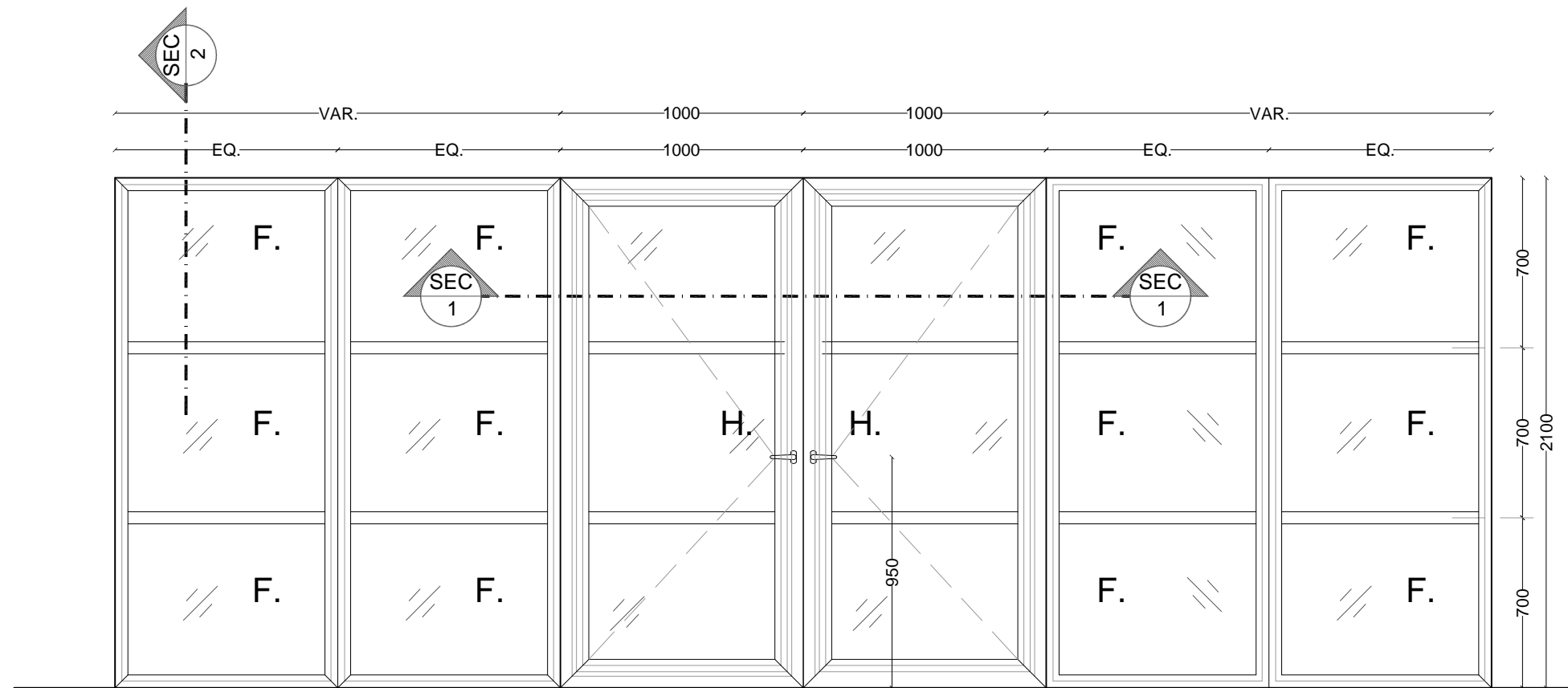
B SECTION 1
SCALE 1 : 2

REV.	DATE	REMARKS



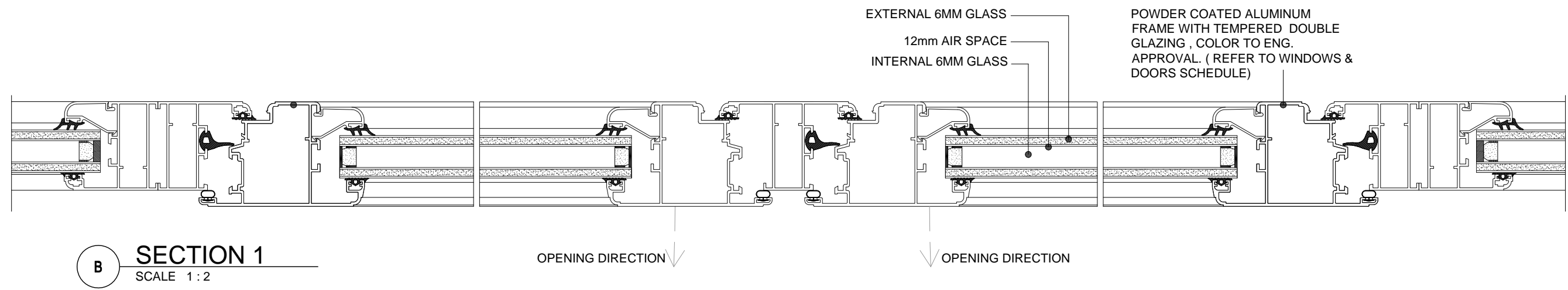
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No. :
ALUMINUM DOORS DETAILS		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	DRD-09
		Date:	SCALE :	
		June 2020	AS SHOWN	

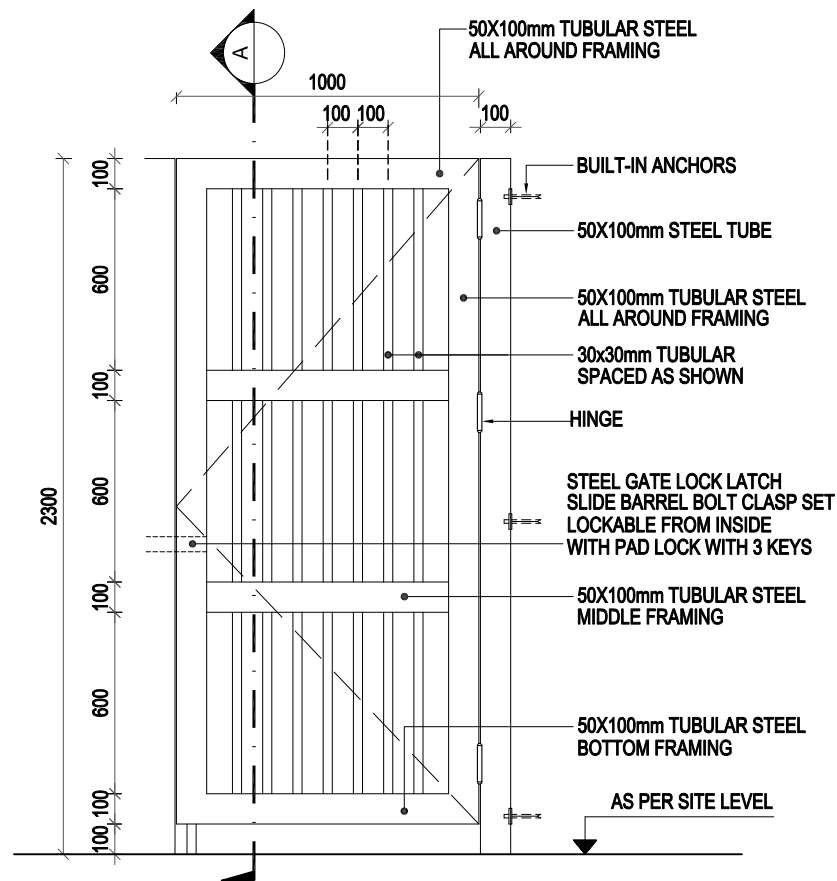


A ALUMINUM DOUBLE LEAVES HINGED DOOR WITH SIDE FIXED GLASS PANELS / ELEVATION
SCALE 1 : 20

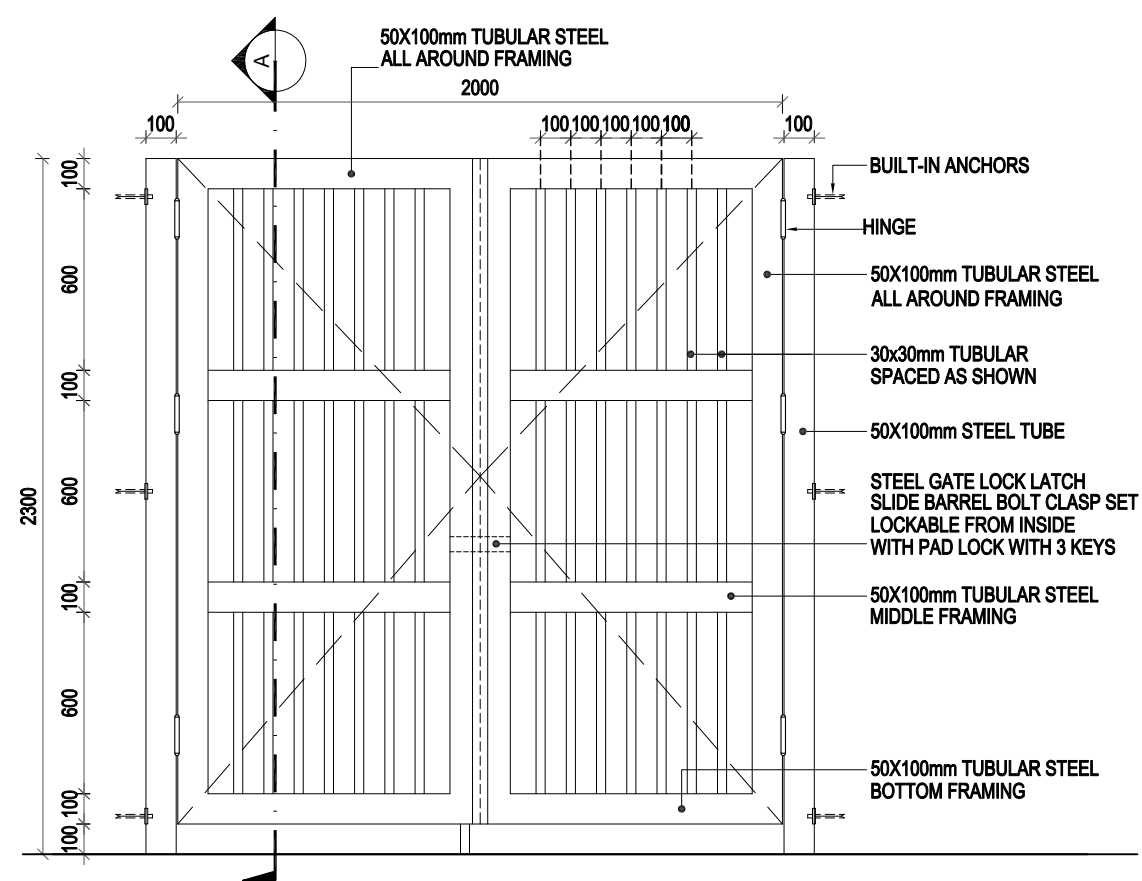
C SECTION 2
SCALE 1 : 2



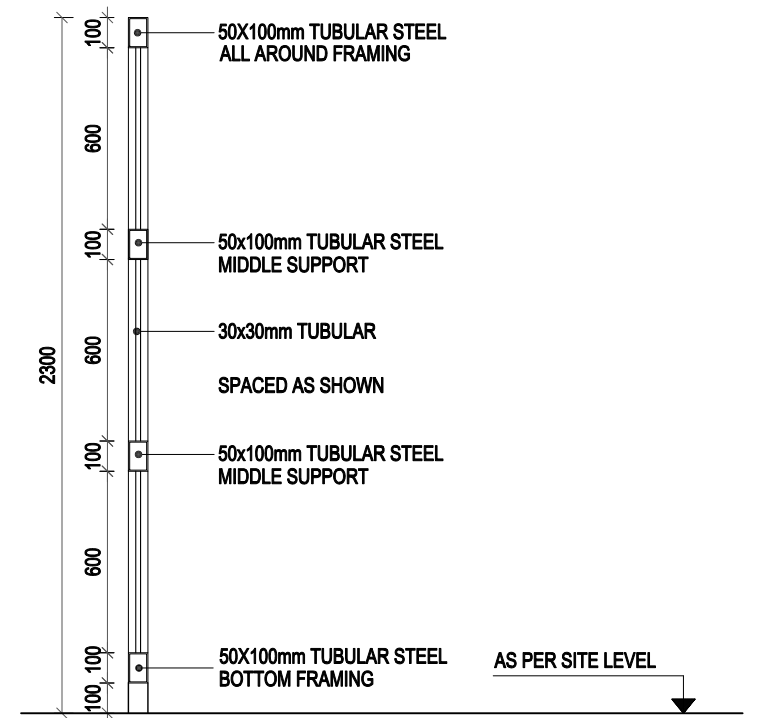
B SECTION 1
SCALE 1 : 2



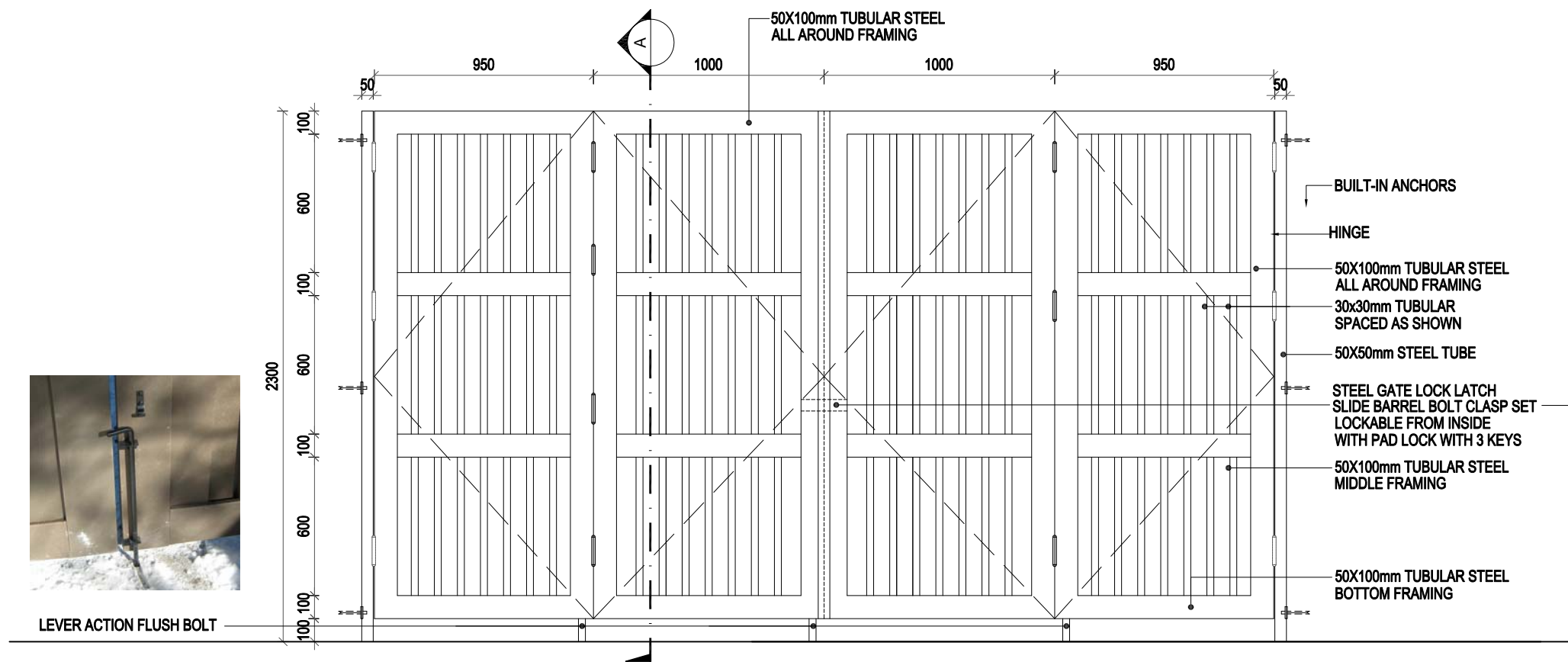
A STEEL GATE (SINGLE LEAF)- ELEVATION
SCALE 1:25



B KG PLAYGROUND STEEL GATE (DOUBLE LEAVES)- ELEVATION
SCALE 1:25



C SECTION (A)
SCALE 1:25



D MAIN STEEL GATE (4 LEAVES) - ELEVATION
SCALE 1:25



Pad lock with 3 Keys



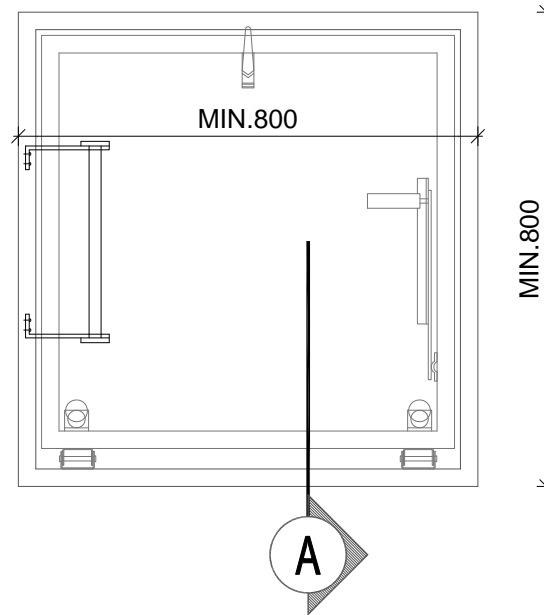
LEVER ACTION FLUSH BOLT

REV.	DATE	REMARKS

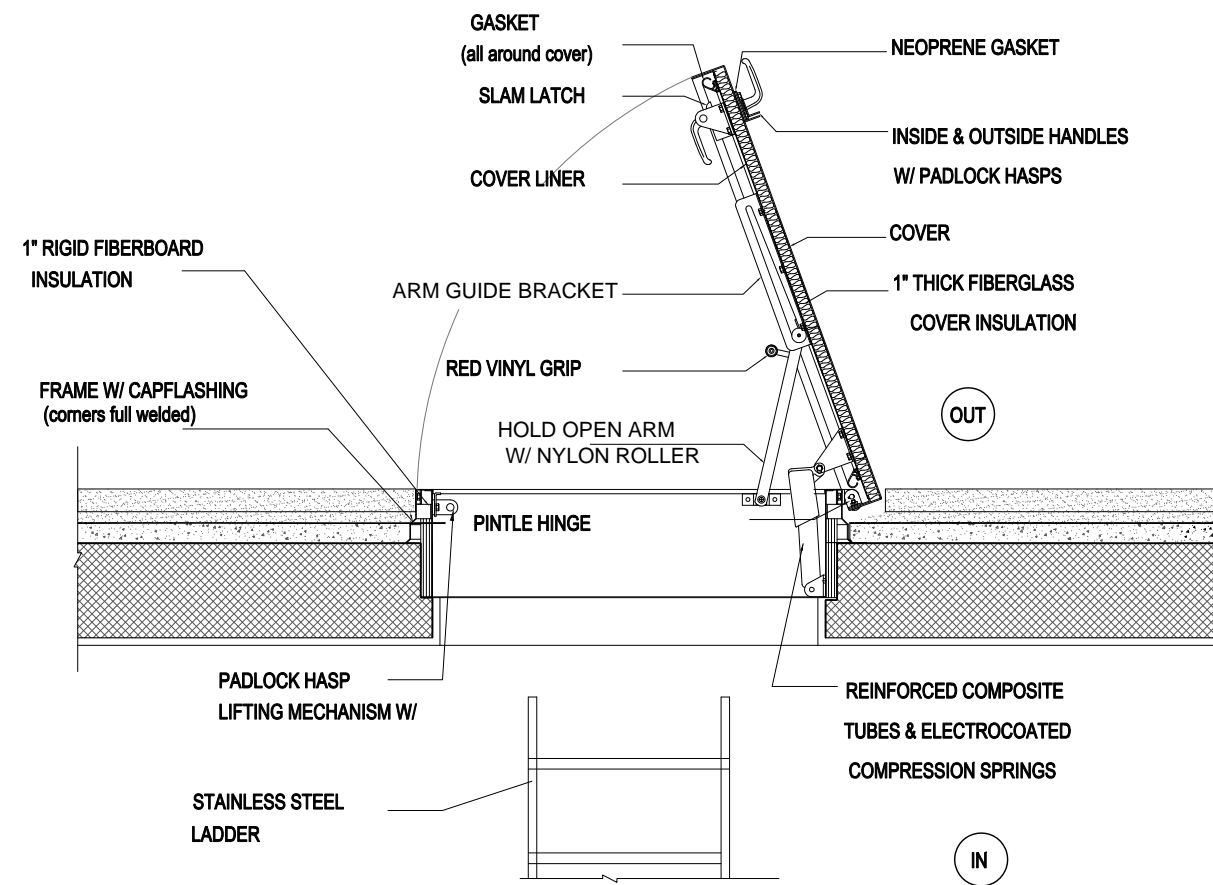


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
EXTERNAL STEEL DOORS/GATES		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	DRD-11
		Date:	SCALE:	
		June 2020	1:25	



A PLAN
SCALE 1 : 10



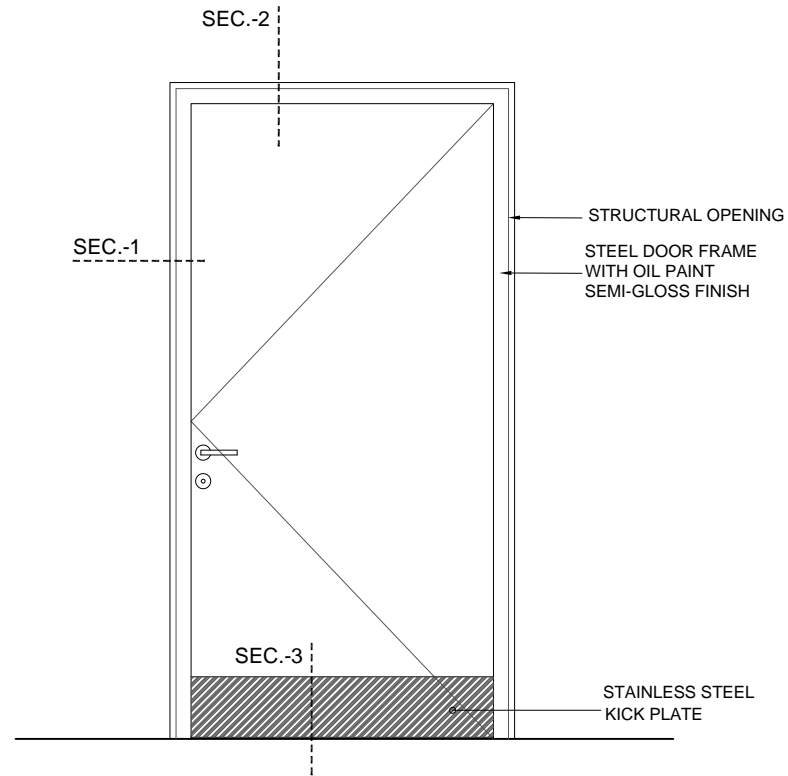
B STEEL DOOR / AT WATER TANK
SCALE 1 : 20

REV.	DATE	REMARKS

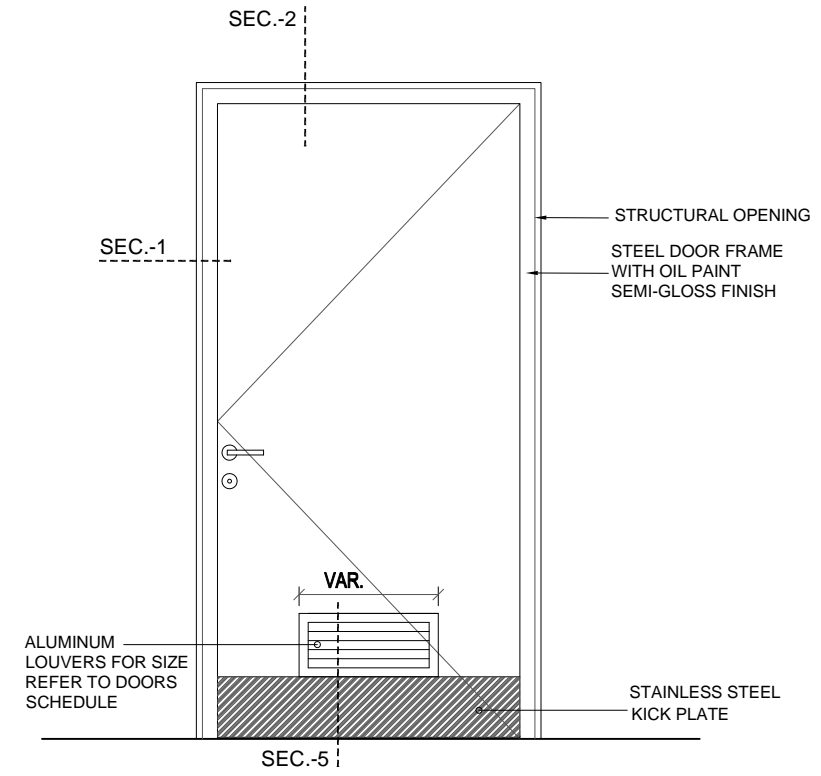


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

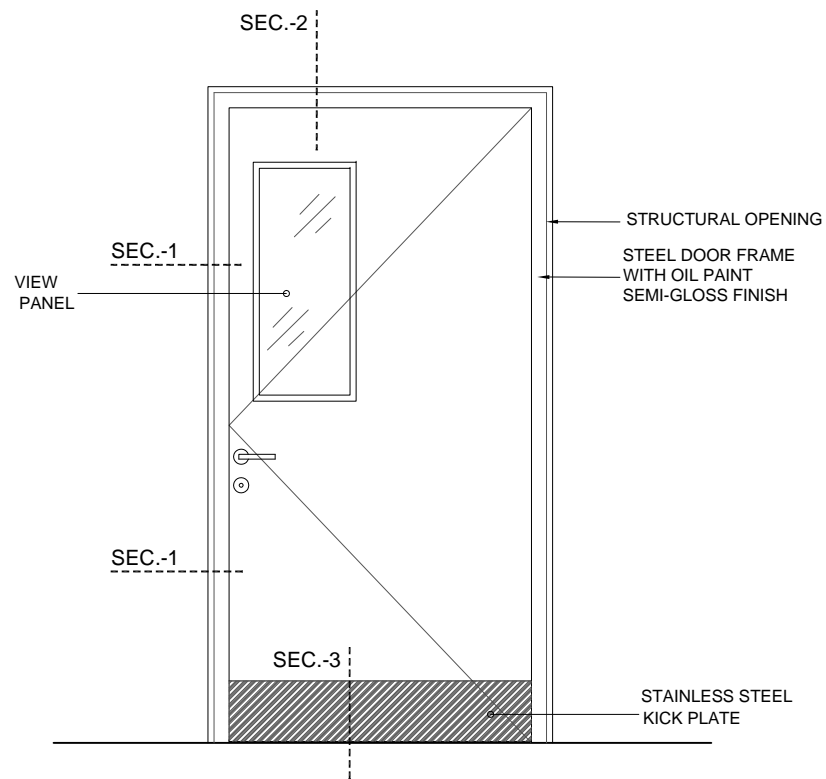
DRAWING NAME:		DESIGN:	DRAWN:	REVISION No. :
STEEL DOOR AT WATER TANK		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	
		Date:	SCALE :	DRD-12
		June 2020	AS SHOWN	



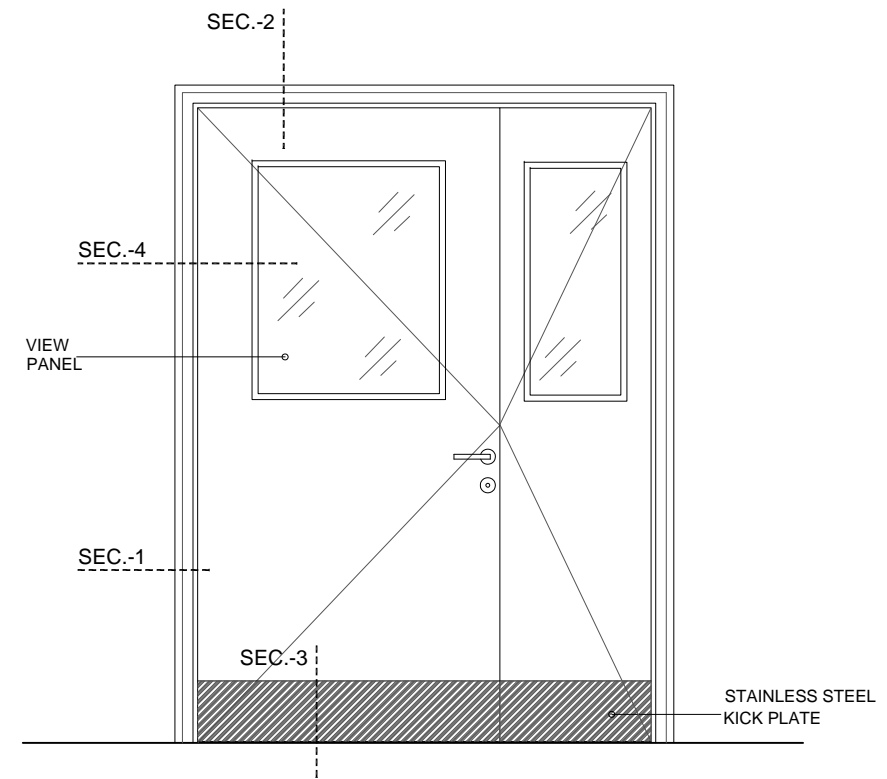
A WOODEN DOOR DETAIL
SCALE 1 : 25



B WOODEN DOOR DETAIL
SCALE 1 : 25



C WOODEN DOOR DETAIL
SCALE 1 : 25



D WOODEN DOOR DETAIL
SCALE 1 : 25

- FOR DOOR'S LEAF COLOR REFER TO DOOR SCHEDULE

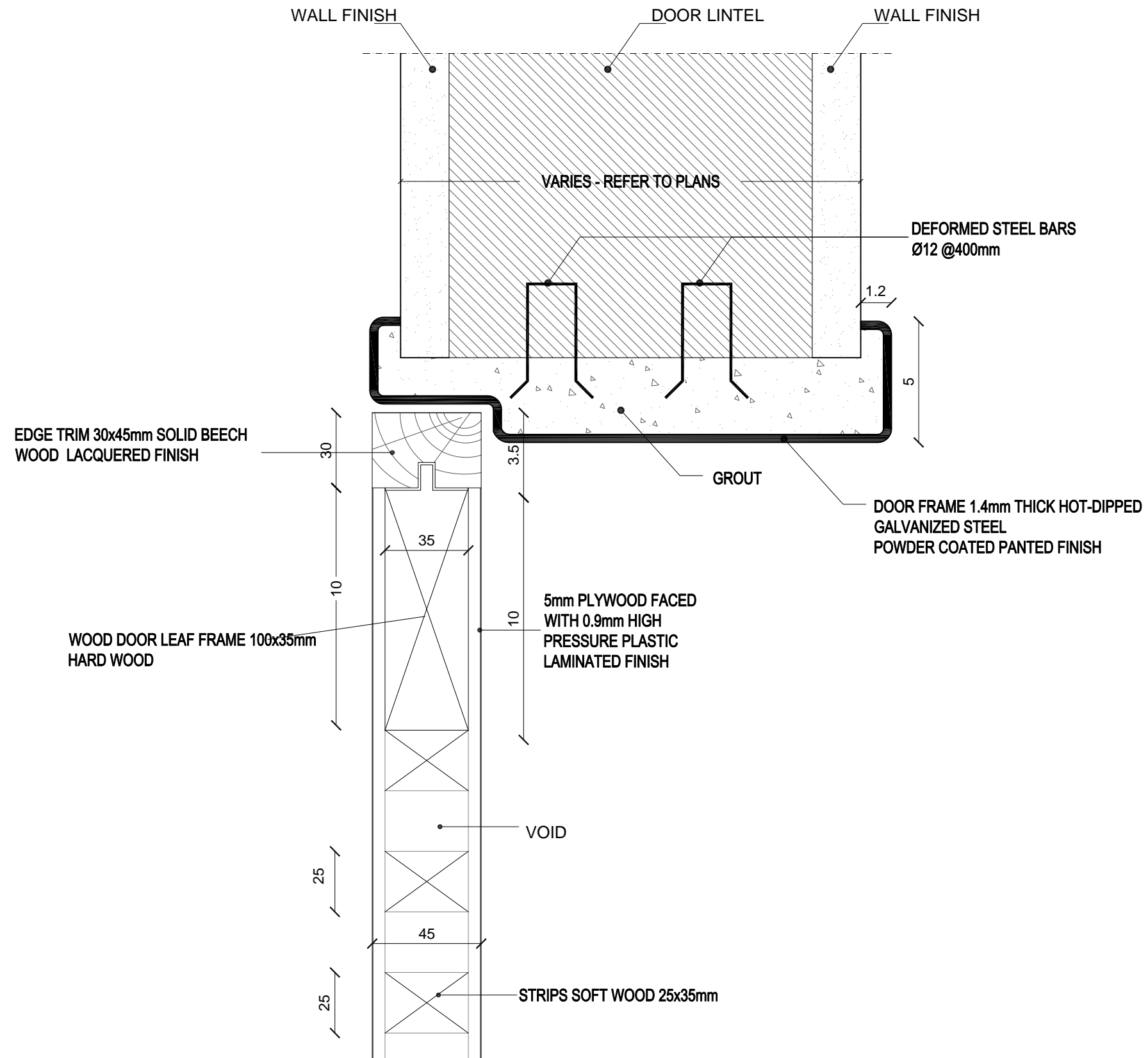
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
WOODEN DOOR DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: DRD-13
Date: June 2020	SCALE: AS SHOWN	



SECTION - 2
DOOR JAMB CONNECTION, WOOD DOOR FINISH
 SCALE 1:2

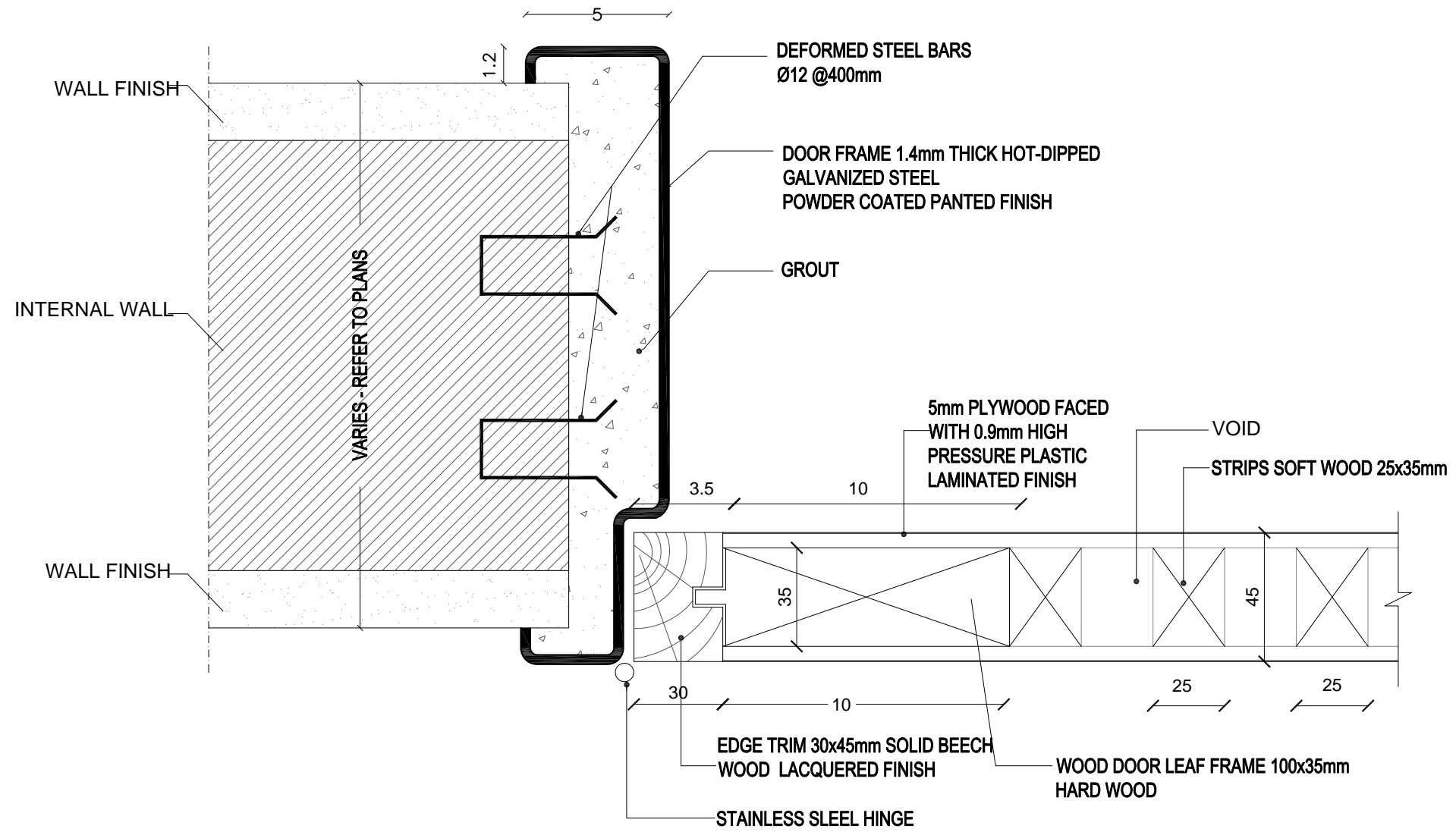
A

REV.	DATE	REMARKS



BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY
 PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	REVISION No.:
WOODEN DOOR DETAIL		H.B.	0
		Drawn: Engicon	
		Checked: M.Sh.	SHEET NUMBER:
		Approved: S.B.	DRD-14
		Date: June 2020	SCALE: AS SHOWN



SECTION - 1
DOOR JAMB CONNECTION, WOOD DOOR FINISH
 SCALE 1:2

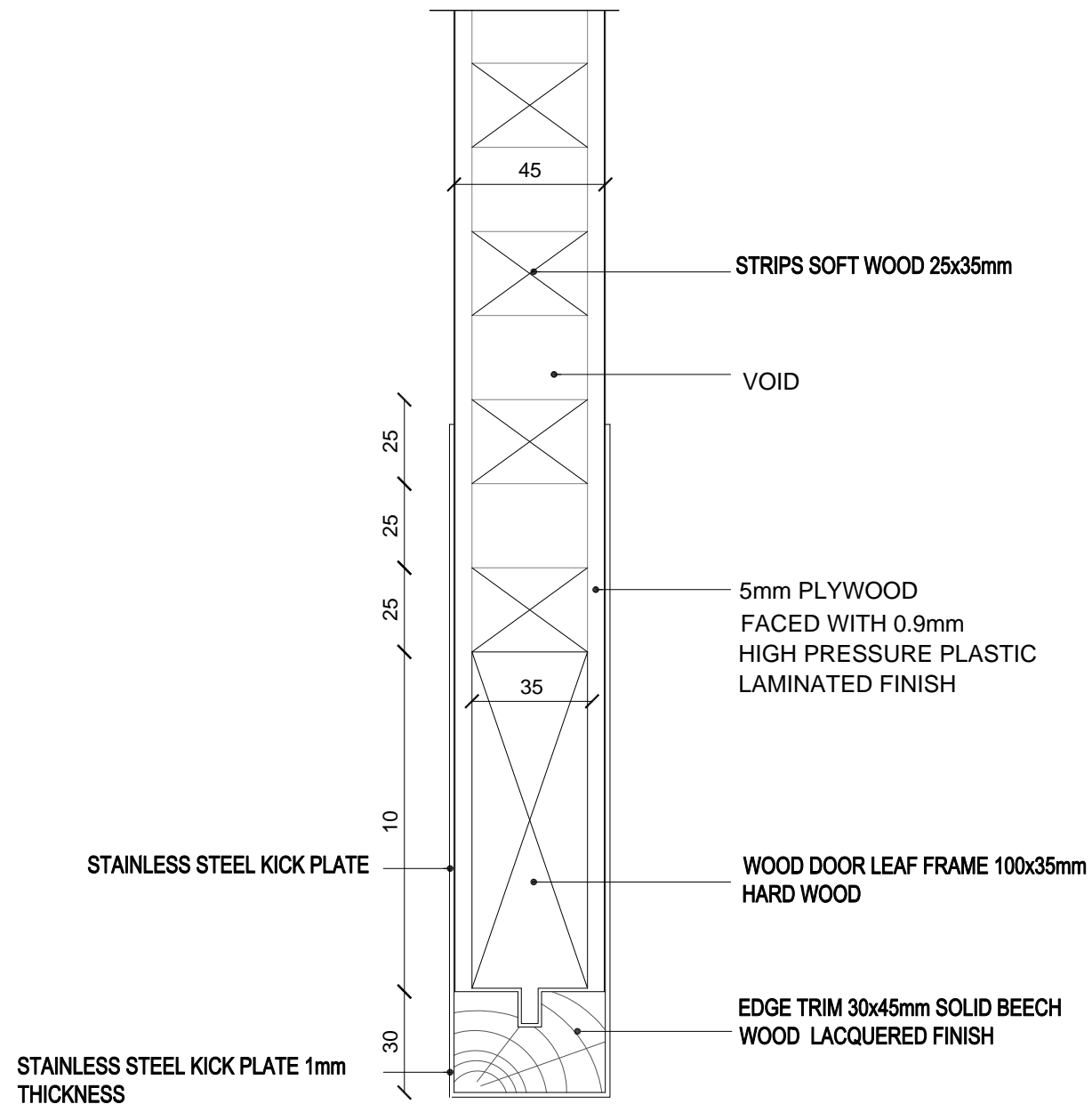
REV.	DATE	REMARKS



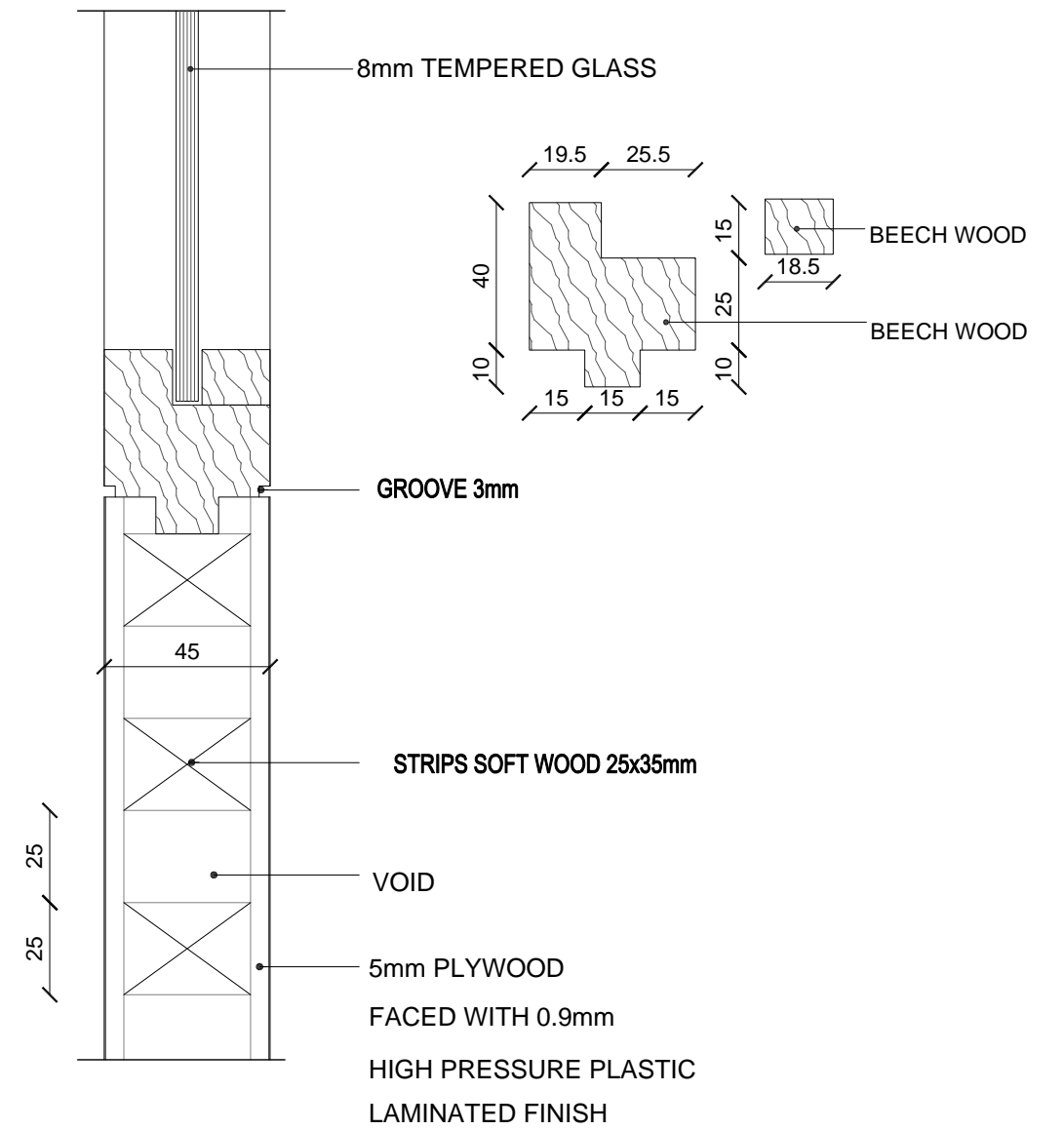
BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY
 PROJECT (USAID SKEP)

DRAWING NAME:
 WOODEN DOOR DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE : AS SHOWN	DRD-15



A SECTION - 3
SCALE 1:2



B SECTION - 4
SCALE 1:2

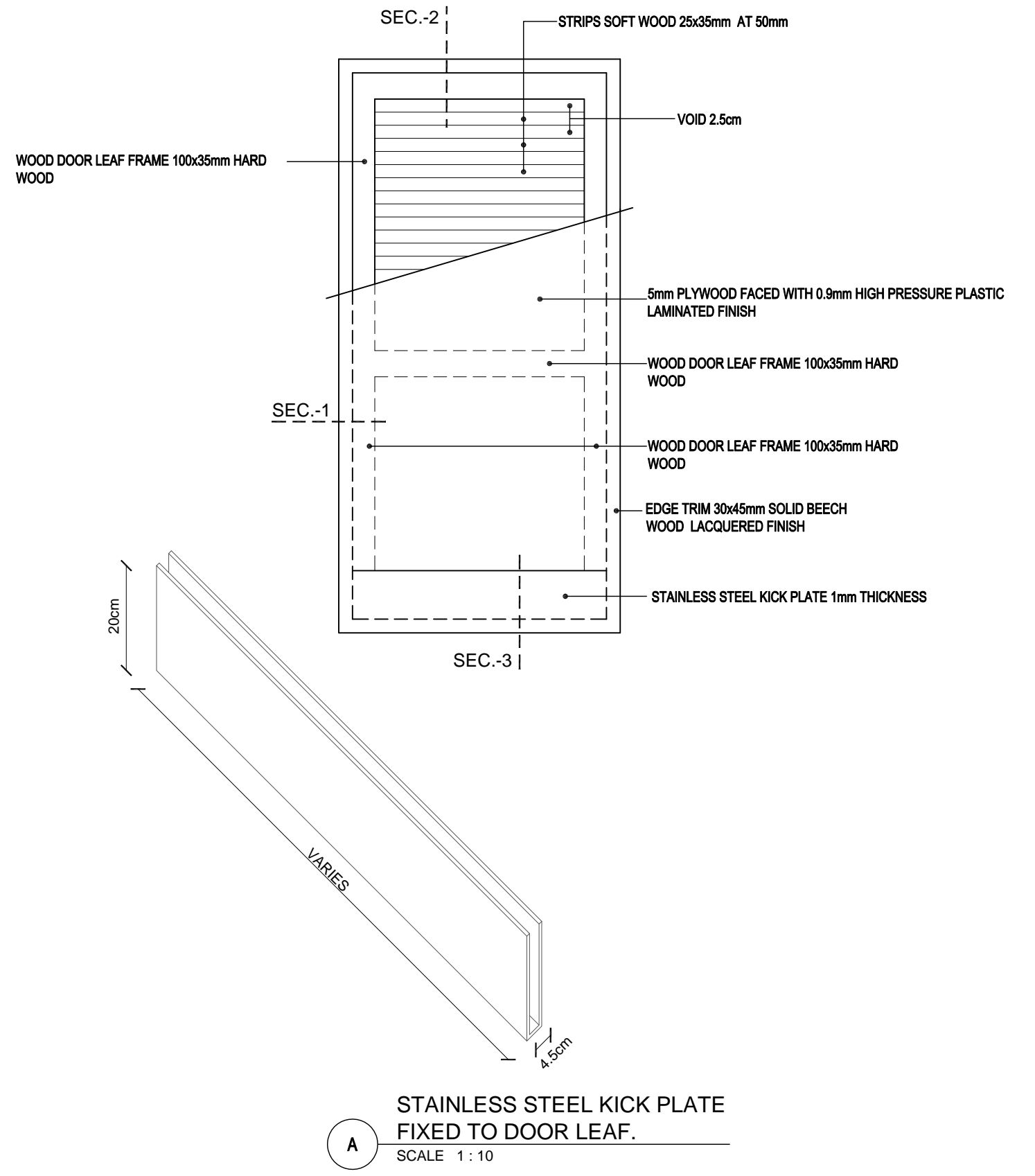
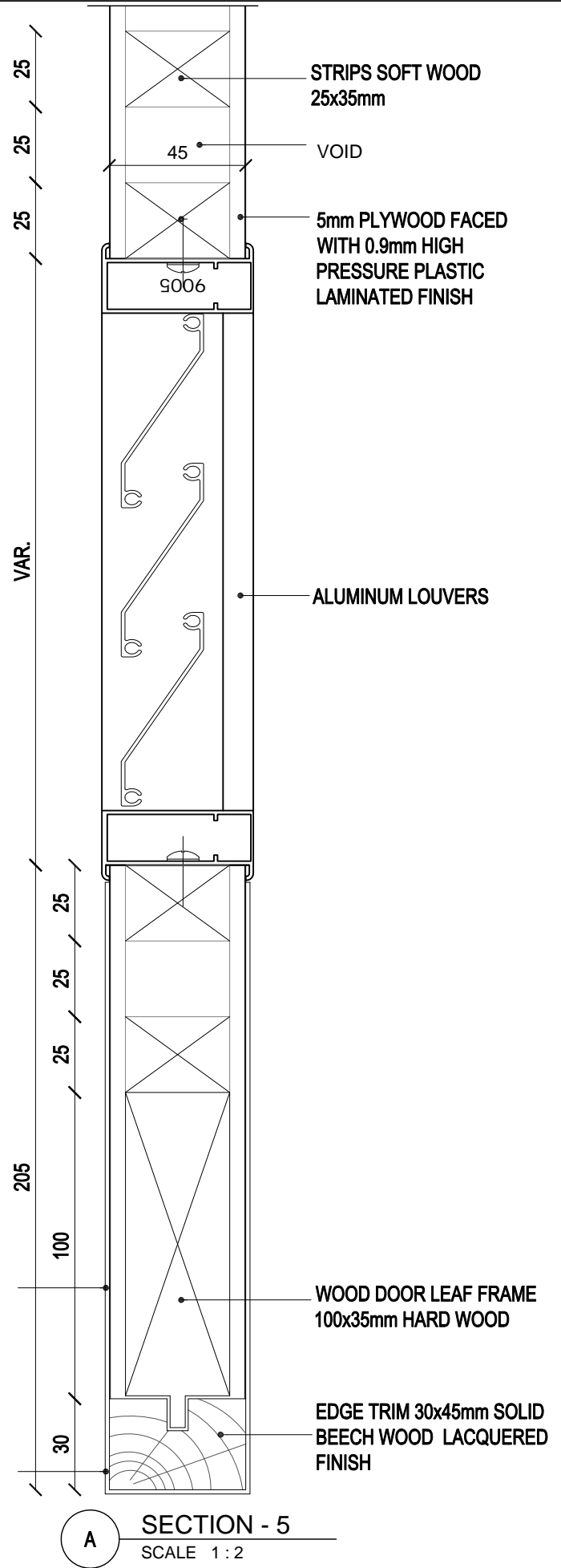
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
WOODEN DOOR DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE: AS SHOWN	DRD-16



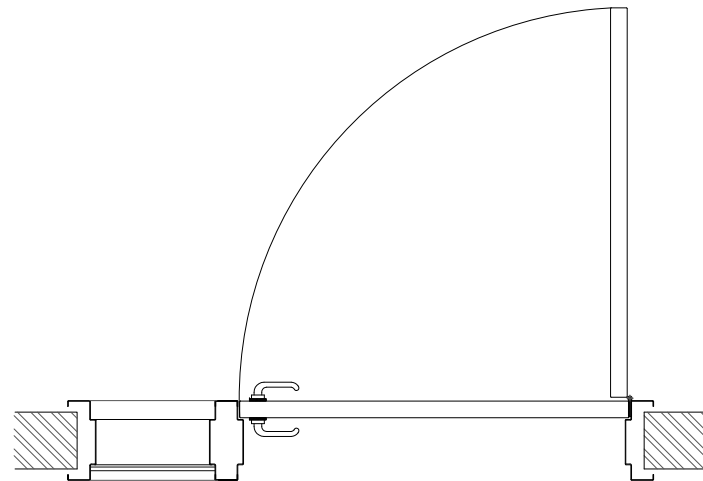
REV.	DATE	REMARKS



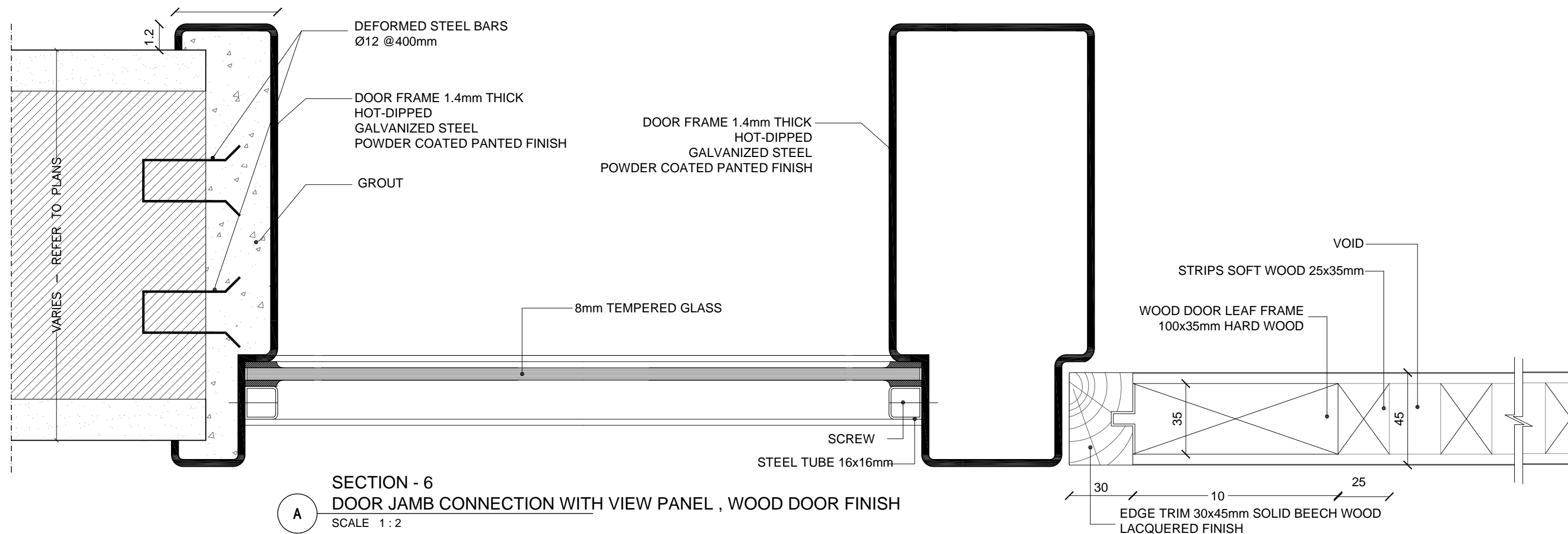
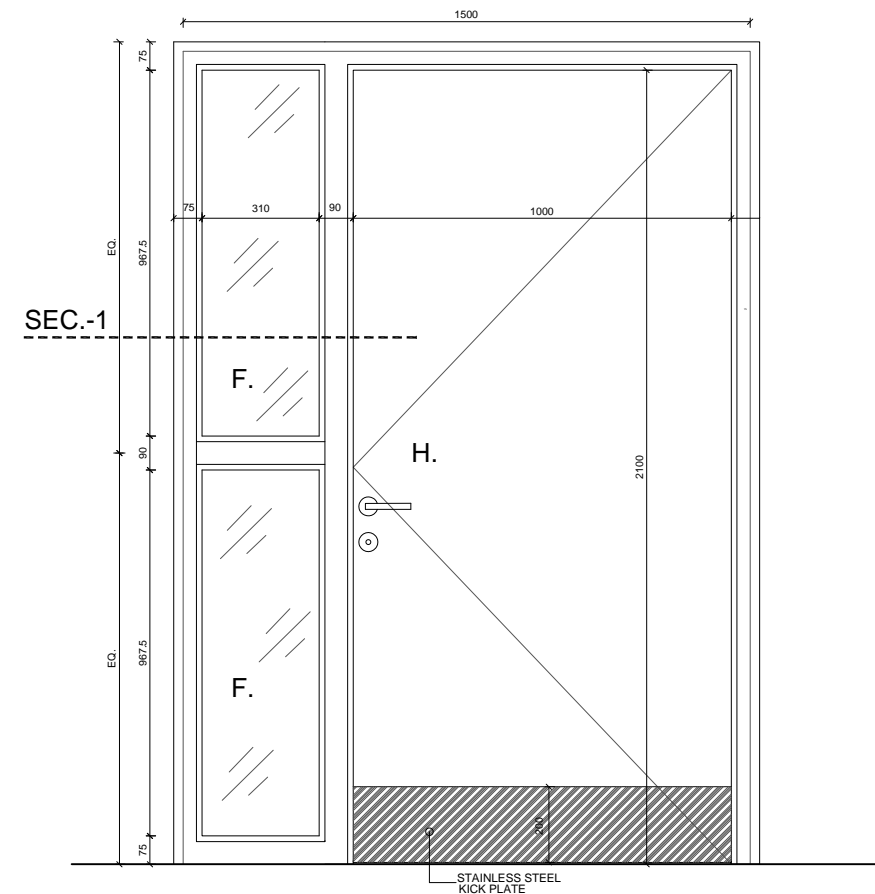
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
WOODEN DOOR DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE: AS SHOWN	DRD-17



A WOOD DOOR WITH VIEW PANEL
SCALE 1 : 20



A SECTION - 6
DOOR JAMB CONNECTION WITH VIEW PANEL , WOOD DOOR FINISH
SCALE 1 : 2

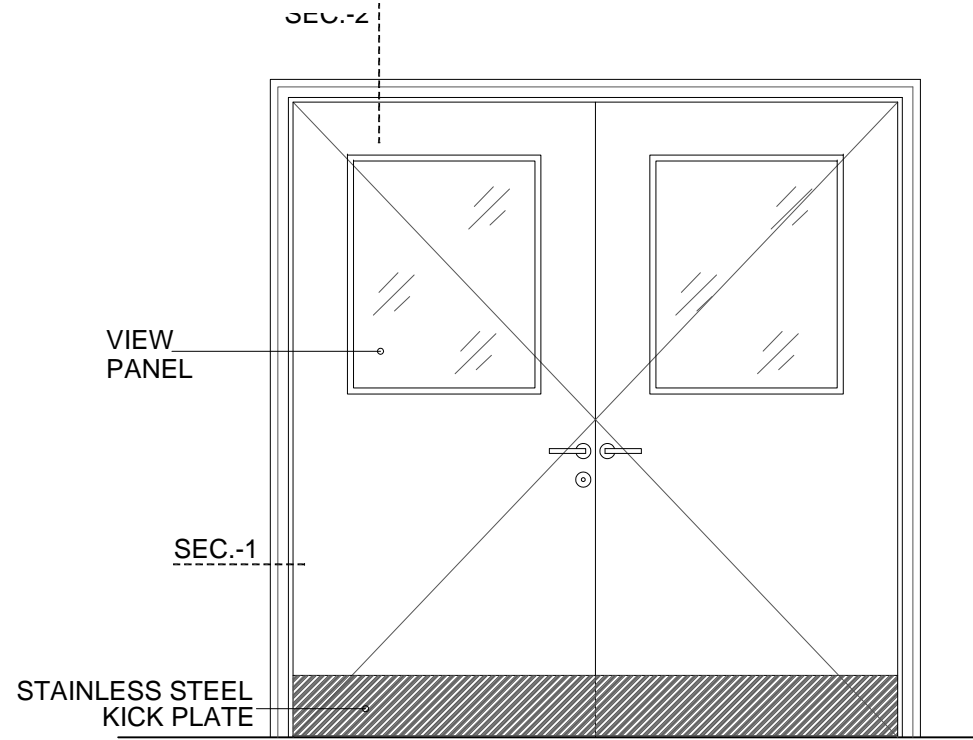
REV.	DATE	REMARKS



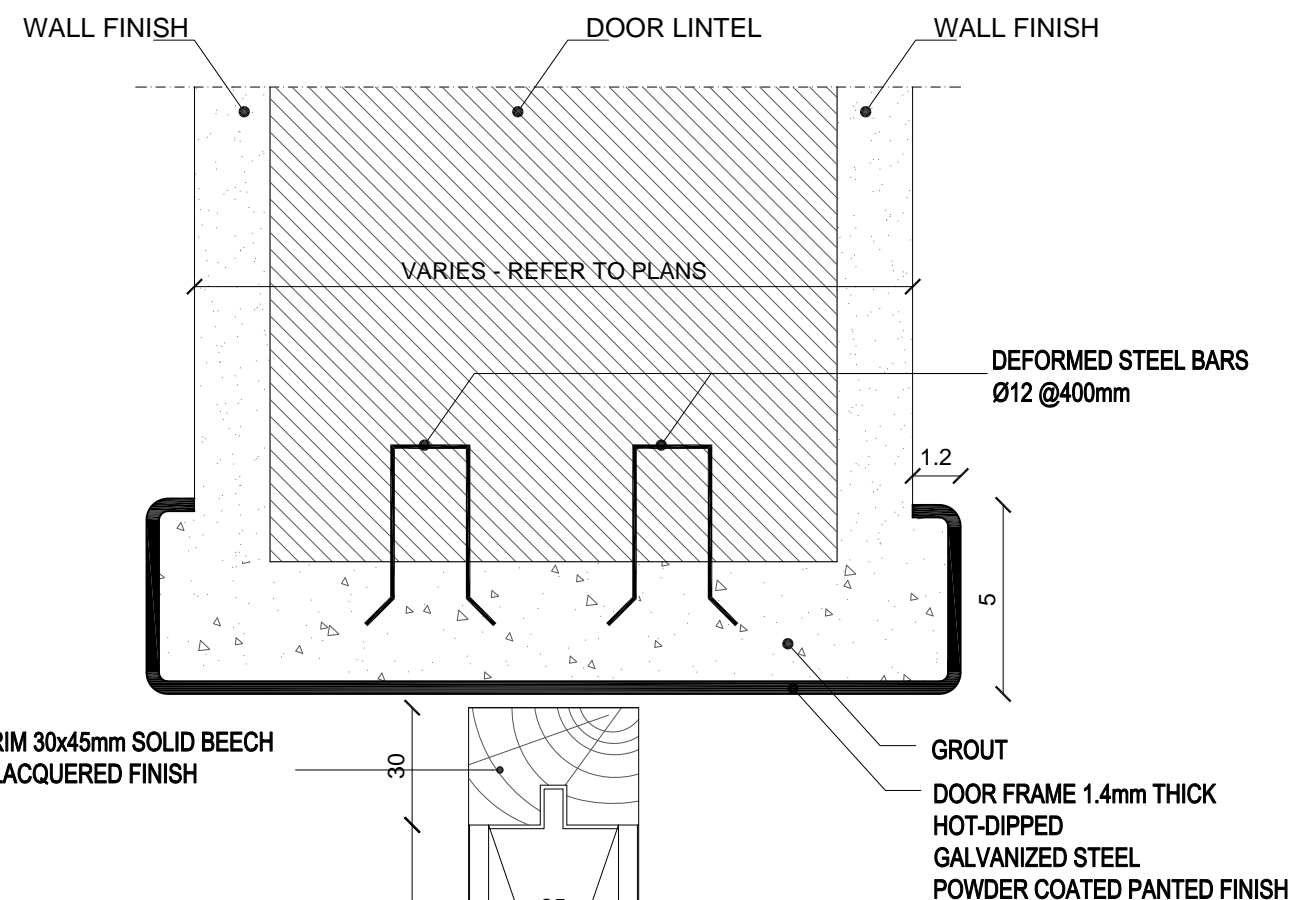
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
WOODEN DOOR DETAIL

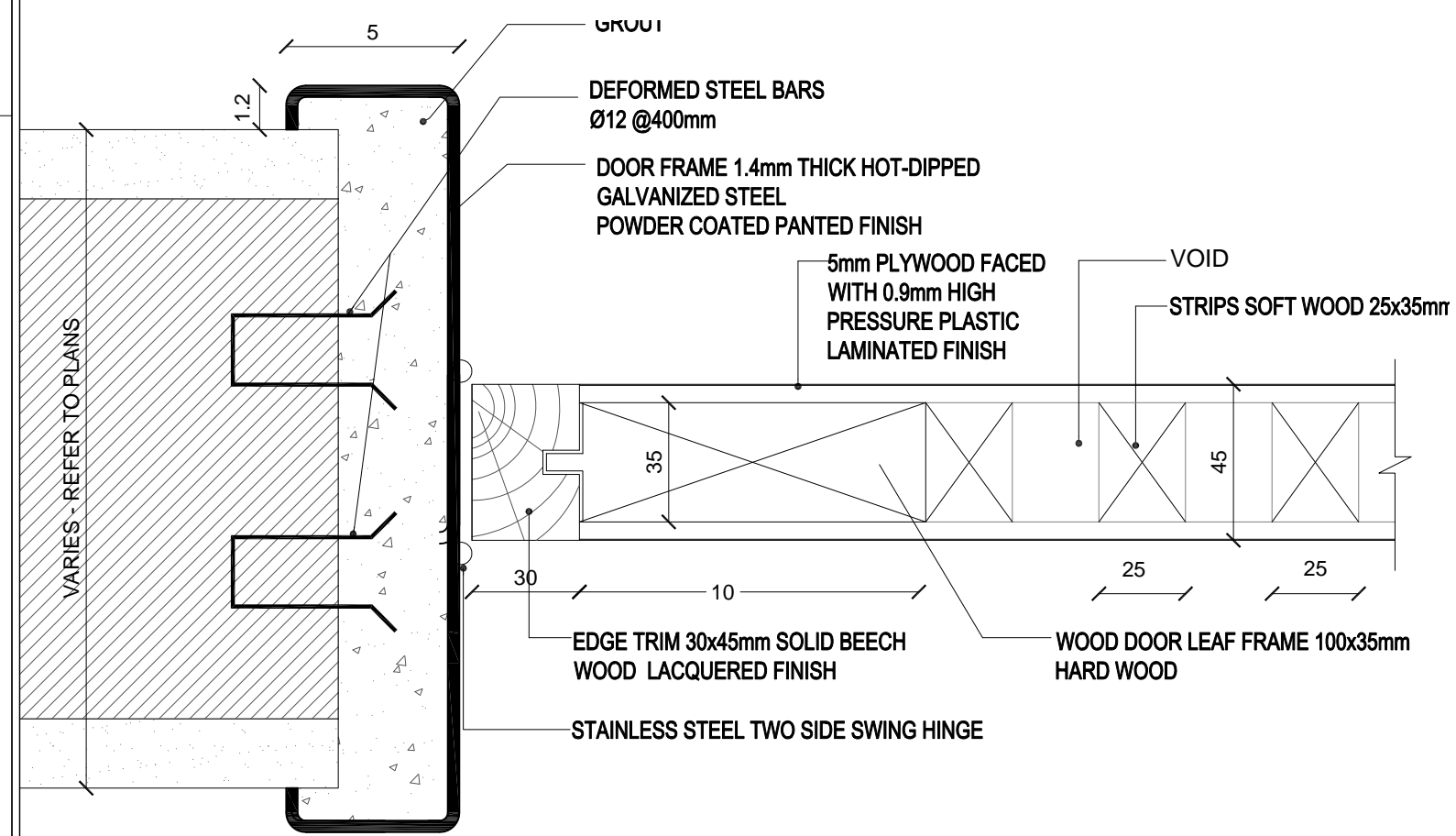
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: DRD-18
Date: June 2020	SCALE: AS SHOWN	



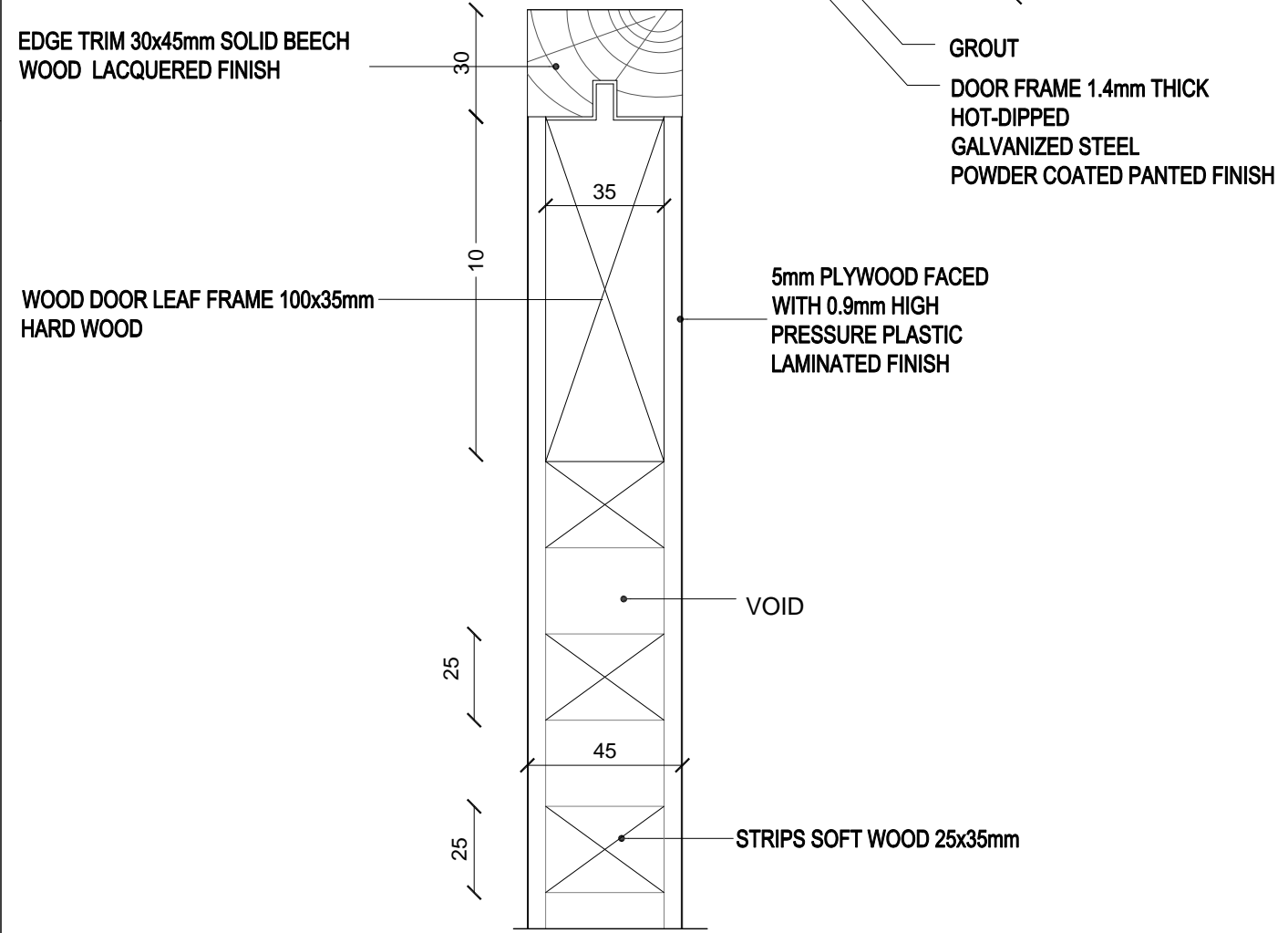
D WOODEN SWING DOOR DETAIL
SCALE 1 : 25



B SECTION - 2 DOOR JAMB CONNECTION, SWING WOOD DOOR
SCALE 1 : 2



A SECTION - 1 DOOR JAMB CONNECTION, SWING WOOD DOOR
SCALE 1 : 2



B SECTION - 2 DOOR JAMB CONNECTION, SWING WOOD DOOR
SCALE 1 : 2

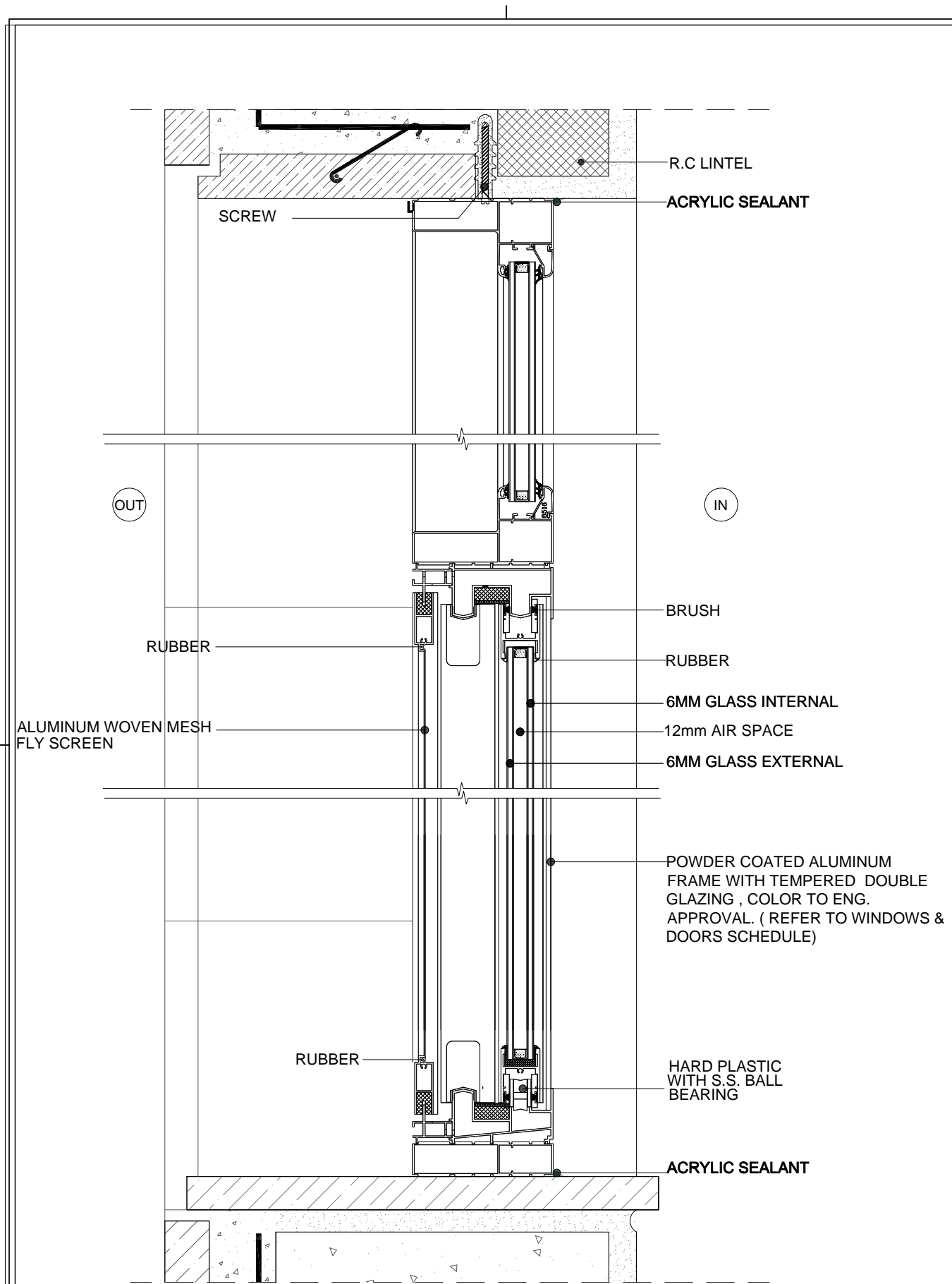
REV.	DATE	REMARKS



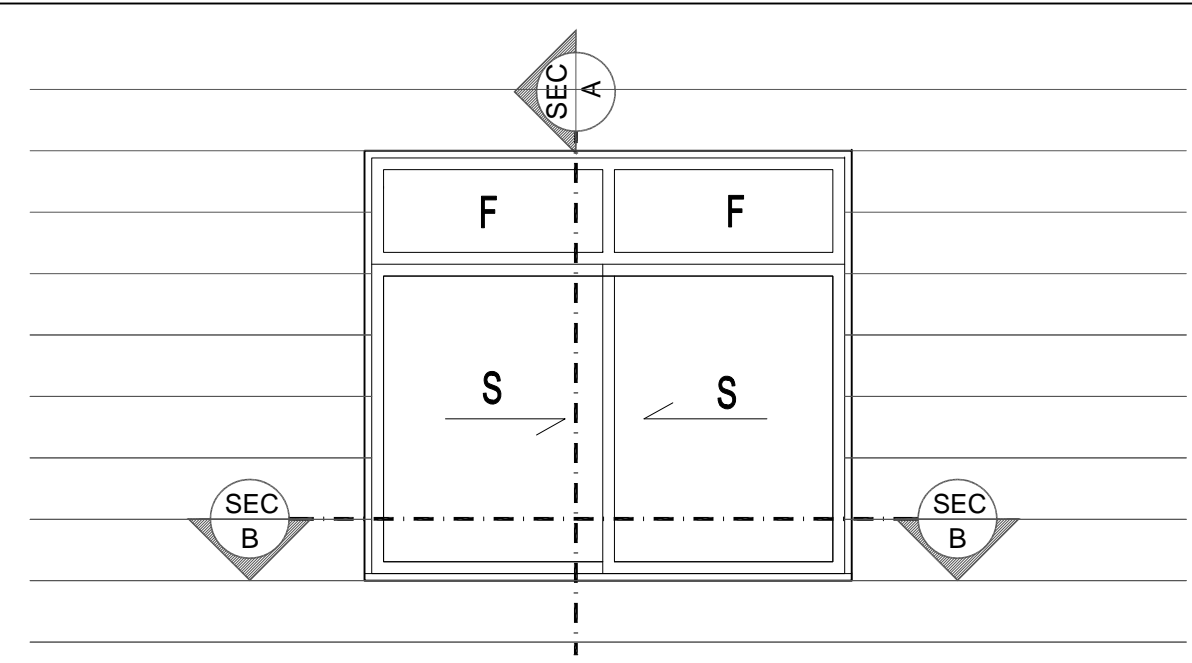
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME: WOODEN SWING DOOR JAMB DETAILS		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: AS SHOWN	DRD-19

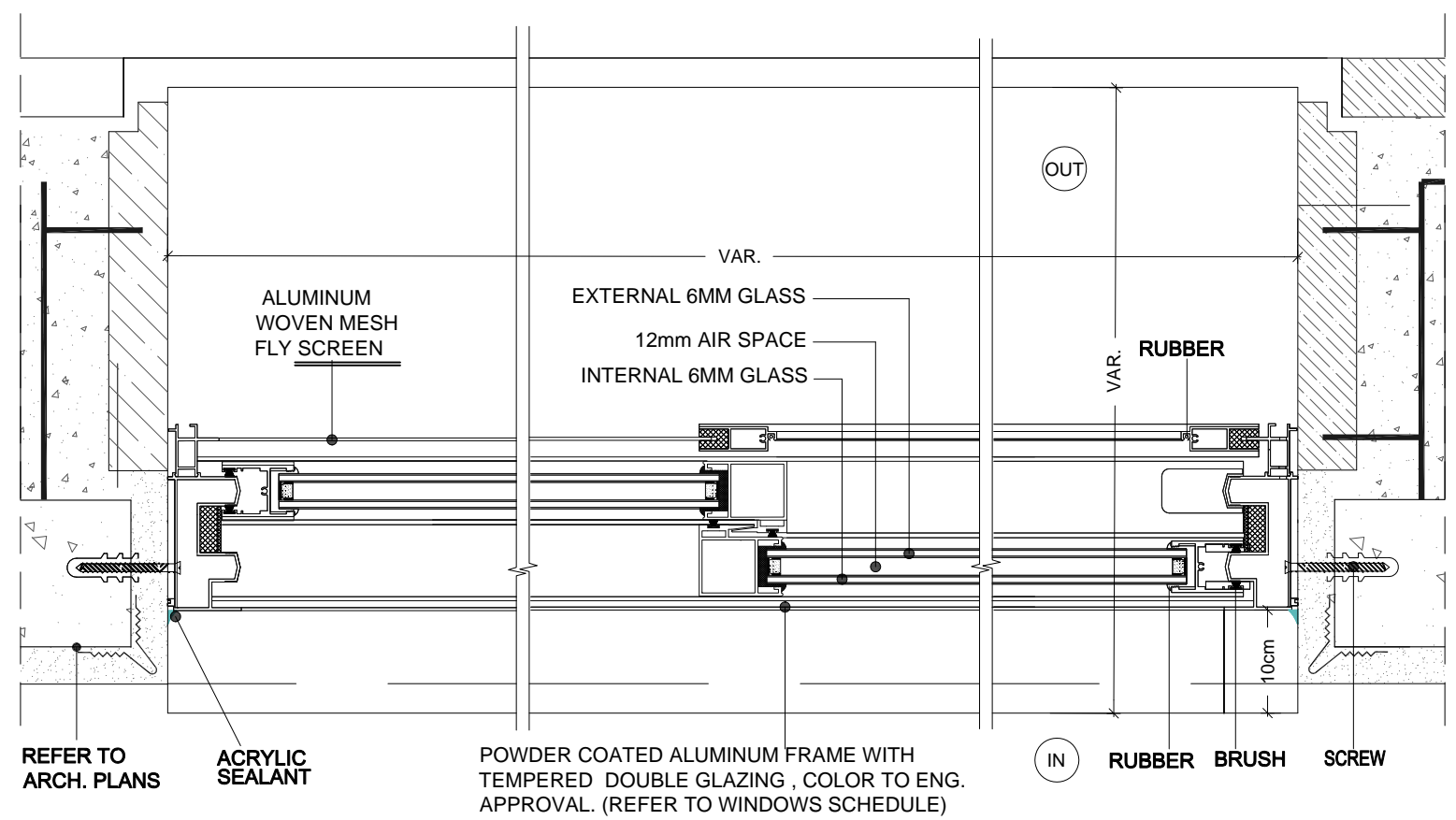
WINDOWS DETAILS



B SECTION A
SCALE 1:5



A EXTERNAL ALUMINUM SLIDING WINDOW WITH UPPER FIXED PANEL- ELEVATION
SCALE N.T.S



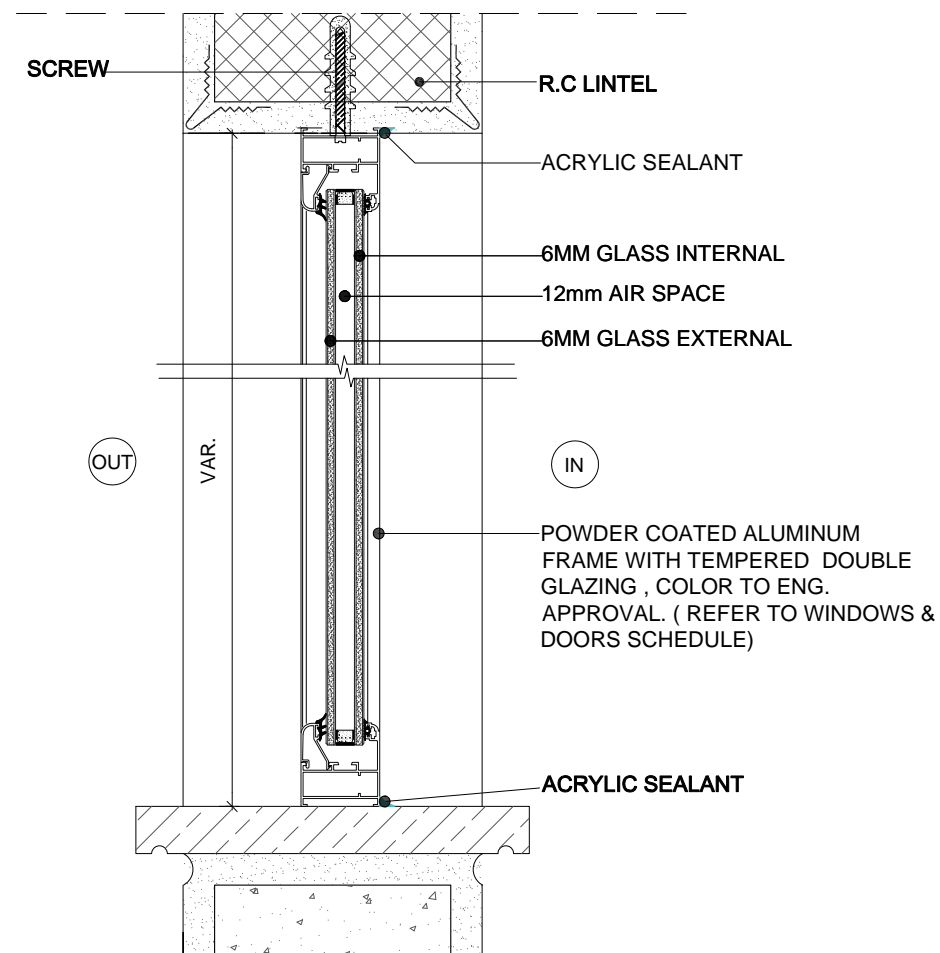
C SECTION B
SCALE 1:5

REV.	DATE	REMARKS

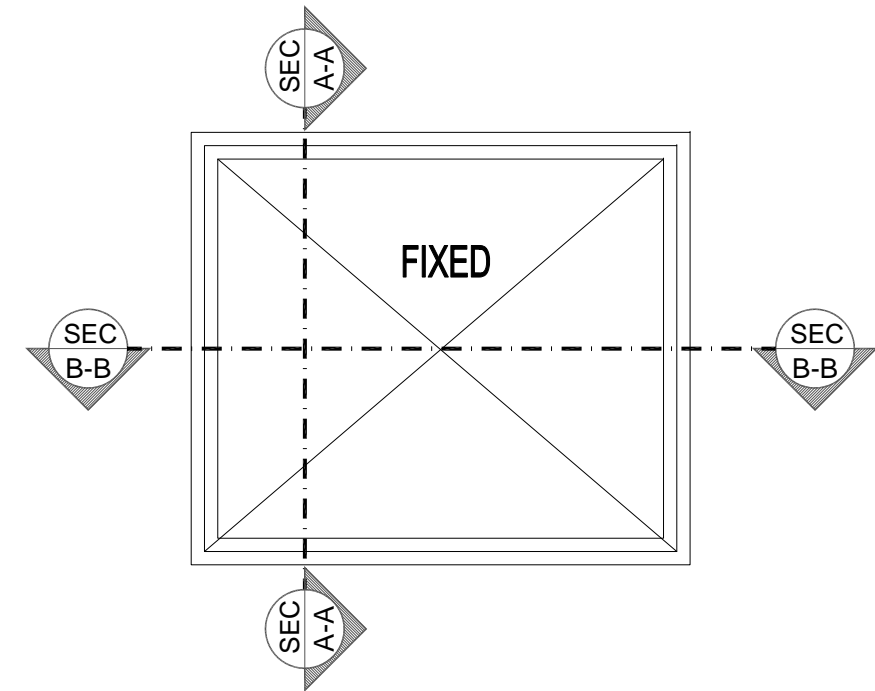


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

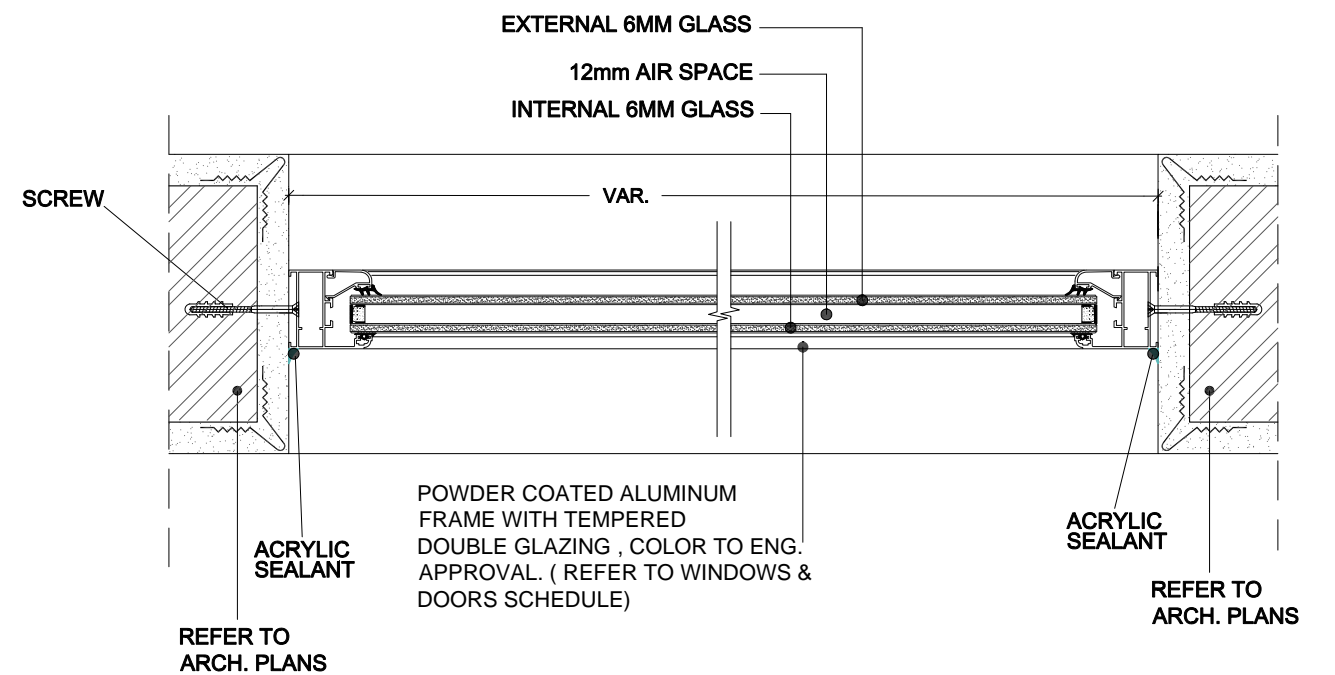
DRAWING NAME: ALUMINUM WINDOWS DETAIL		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: AS SHOWN	WD-02



B SECTION A-A
SCALE 1 : 5



A ALUMINUM FIXED WINDOW-ELEVATION
SCALE N.T.S



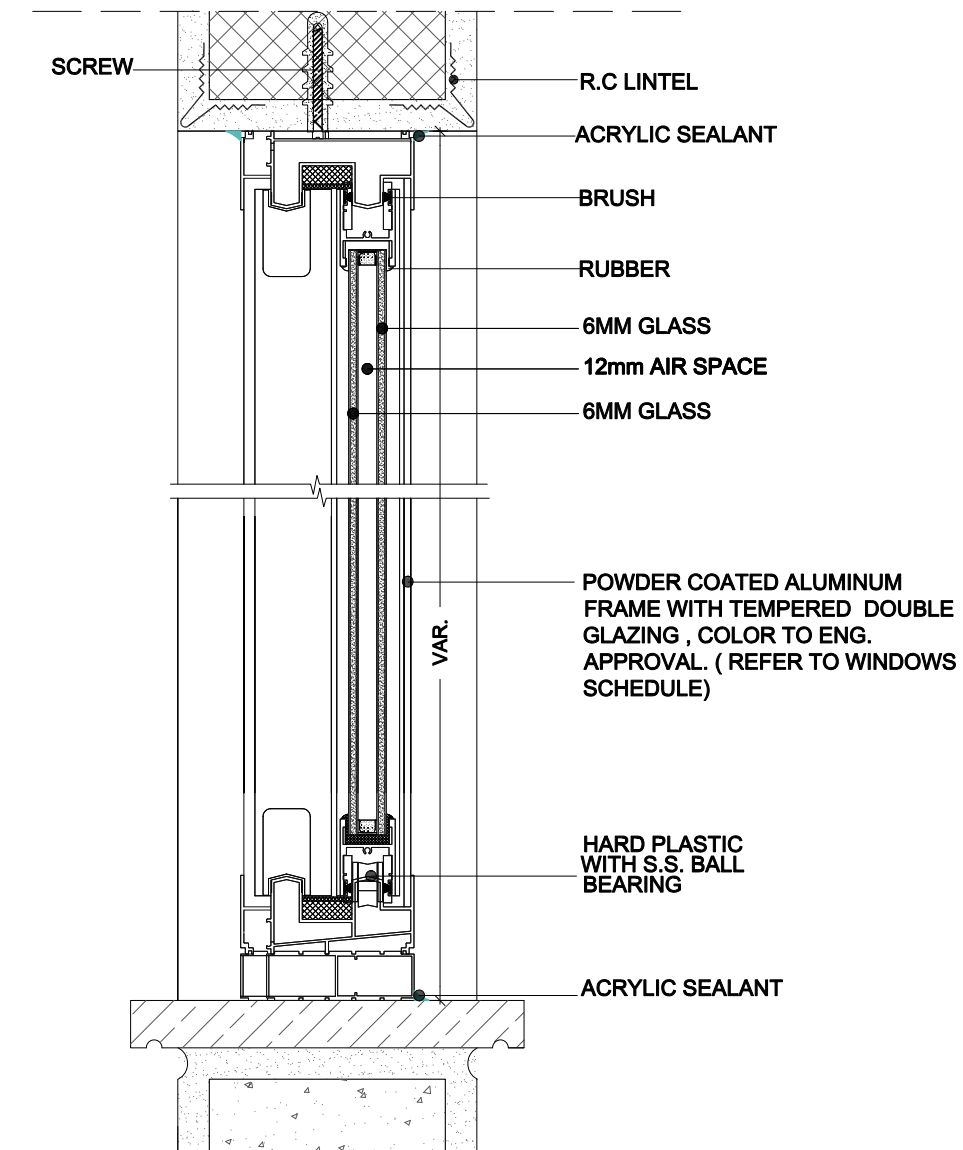
C SECTION B-B
SCALE 1 : 5

REV.	DATE	REMARKS

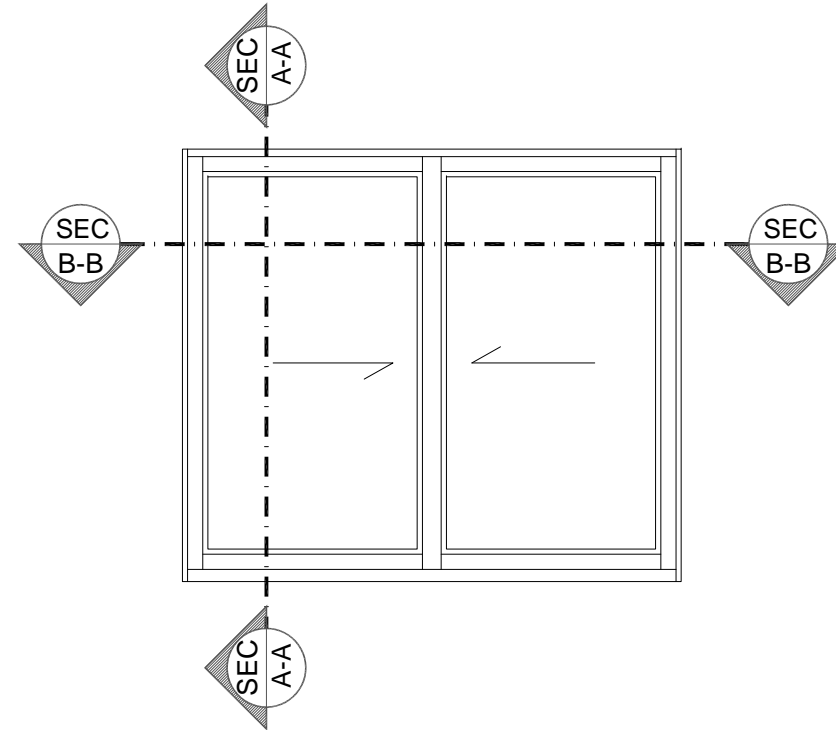


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

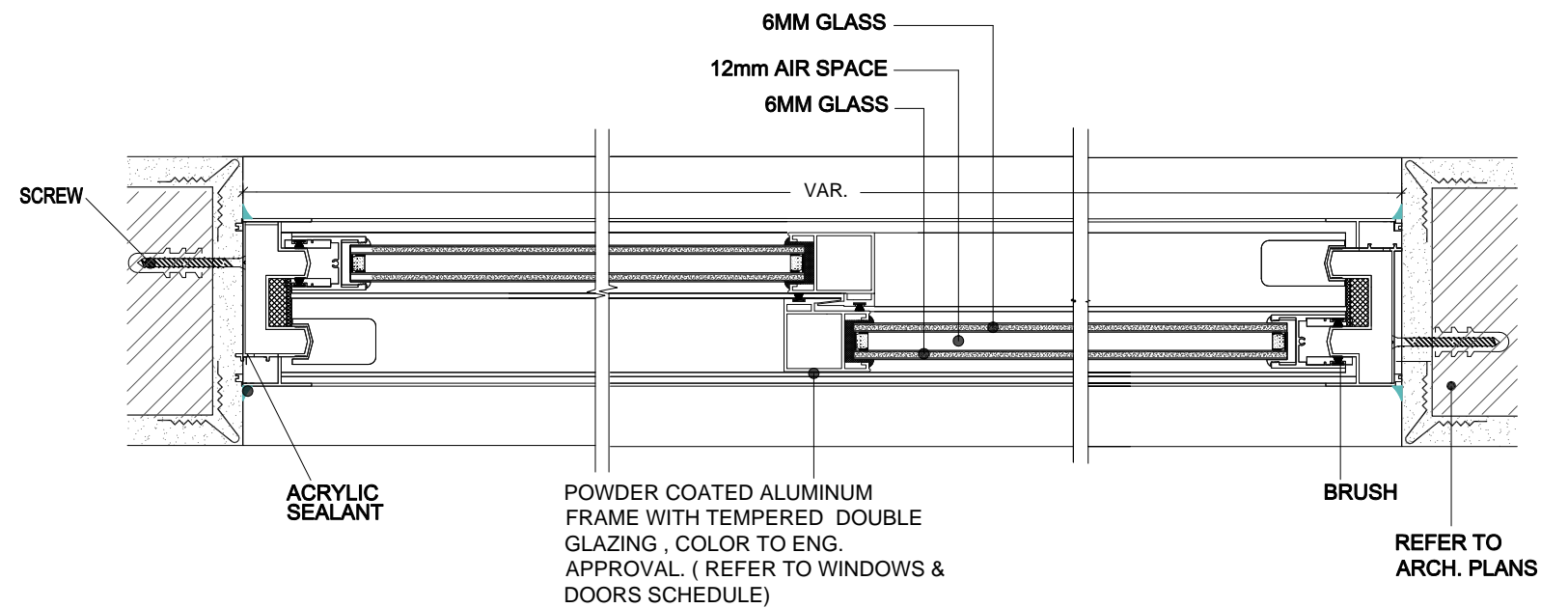
DRAWING NAME: ALUMINUM WINDOWS DETAIL		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: AS SHOWN	WD-03



B SECTION A-A
SCALE 1 : 5



A INTERNAL SLIDING WINDOW-ELEVATION
SCALE N.T.S



C SECTION B-B
SCALE 1 : 5

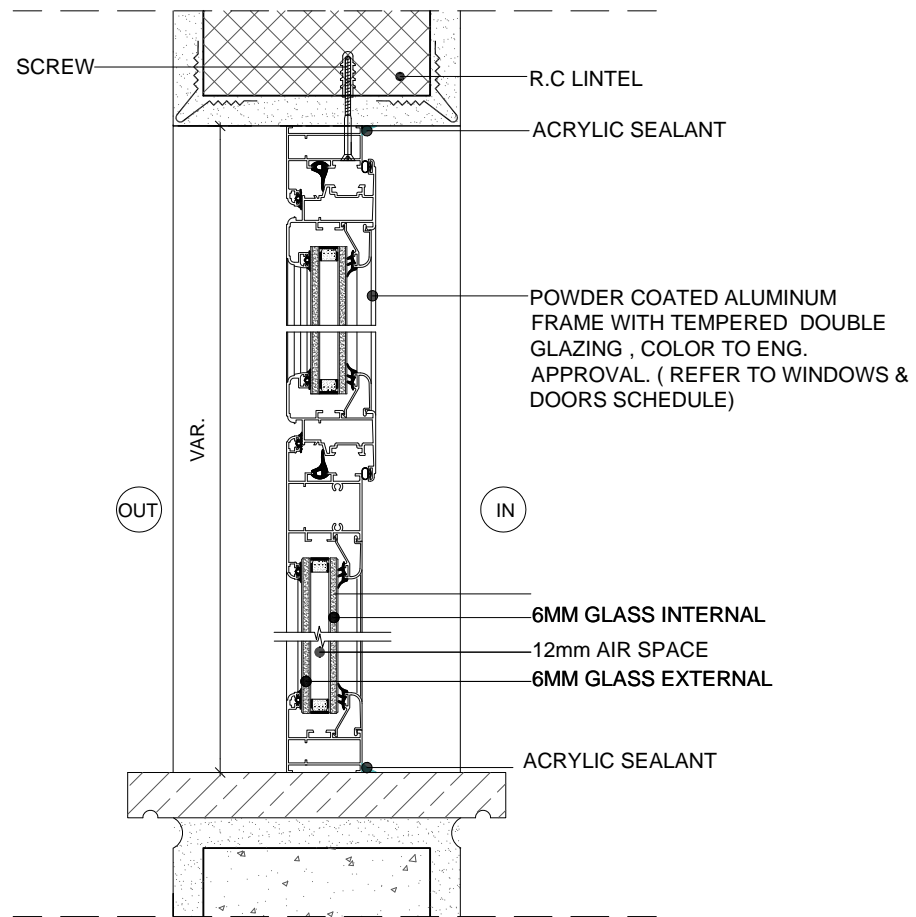
REV.	DATE	REMARKS



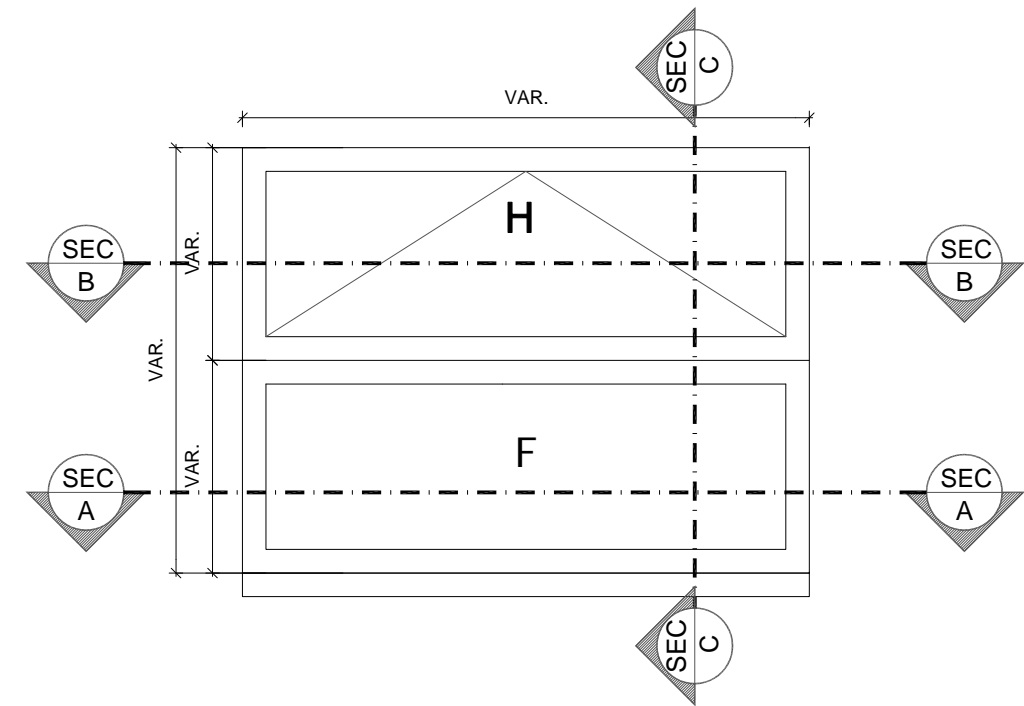
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
ALUMINUM WINDOWS DETAIL

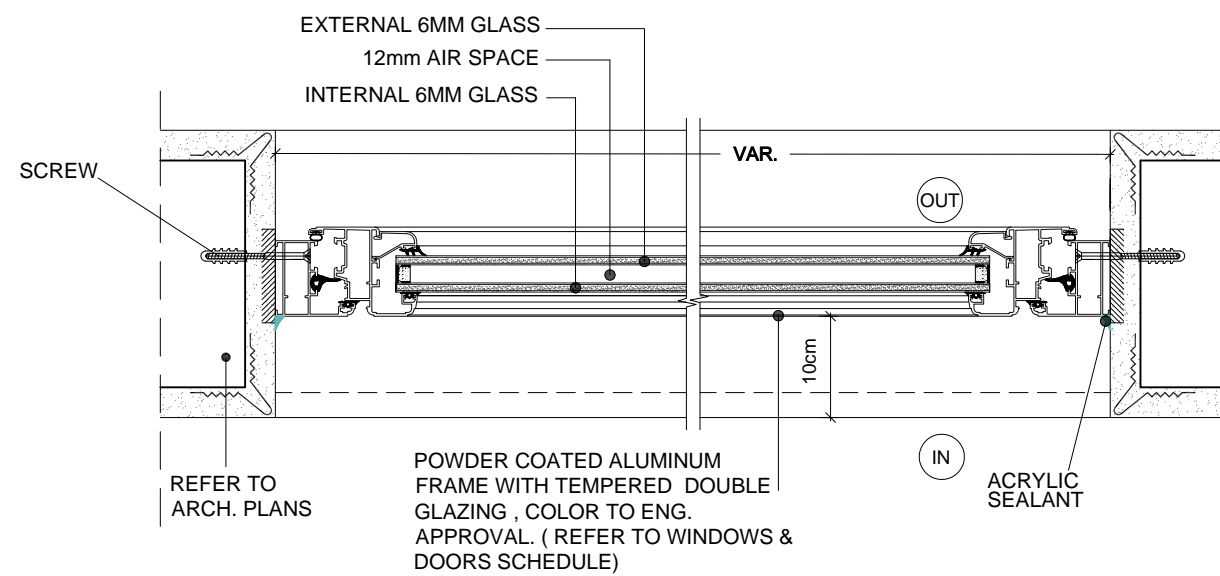
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE : AS SHOWN	WD-04



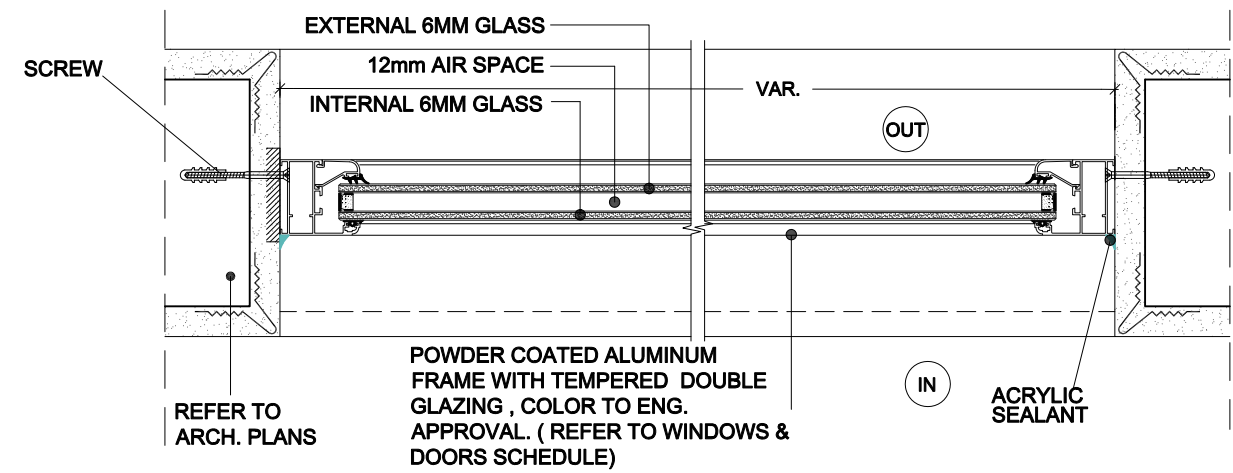
D SECTION C-C
SCALE 1:5



A INTERNAL ALUMINUM FIXED WINDOW WITH UPPER HINGED PANEL- ELEVATION
SCALE N.T.S



C SECTION B-B
SCALE 1:5



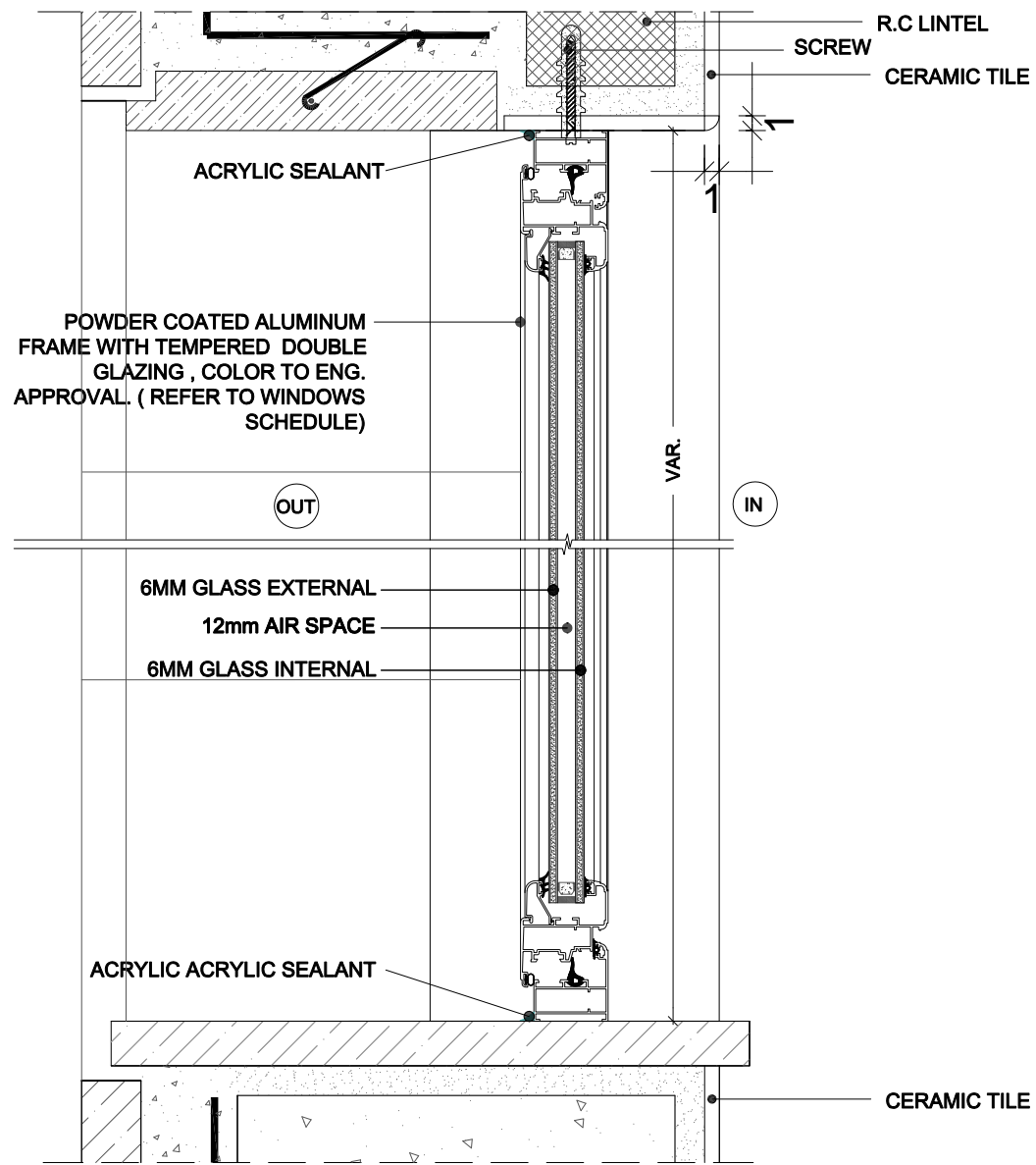
B SECTION A-A
SCALE 1:5

REV.	DATE	REMARKS

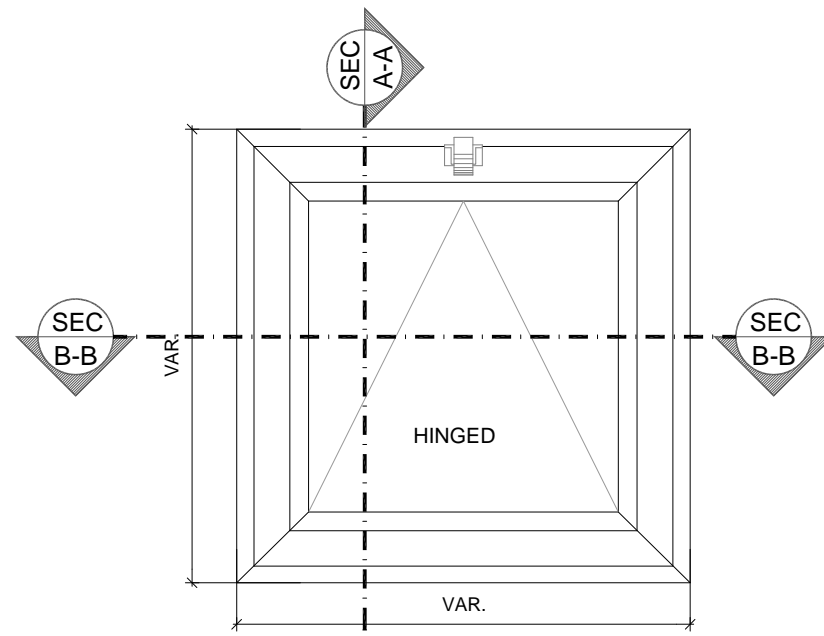


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

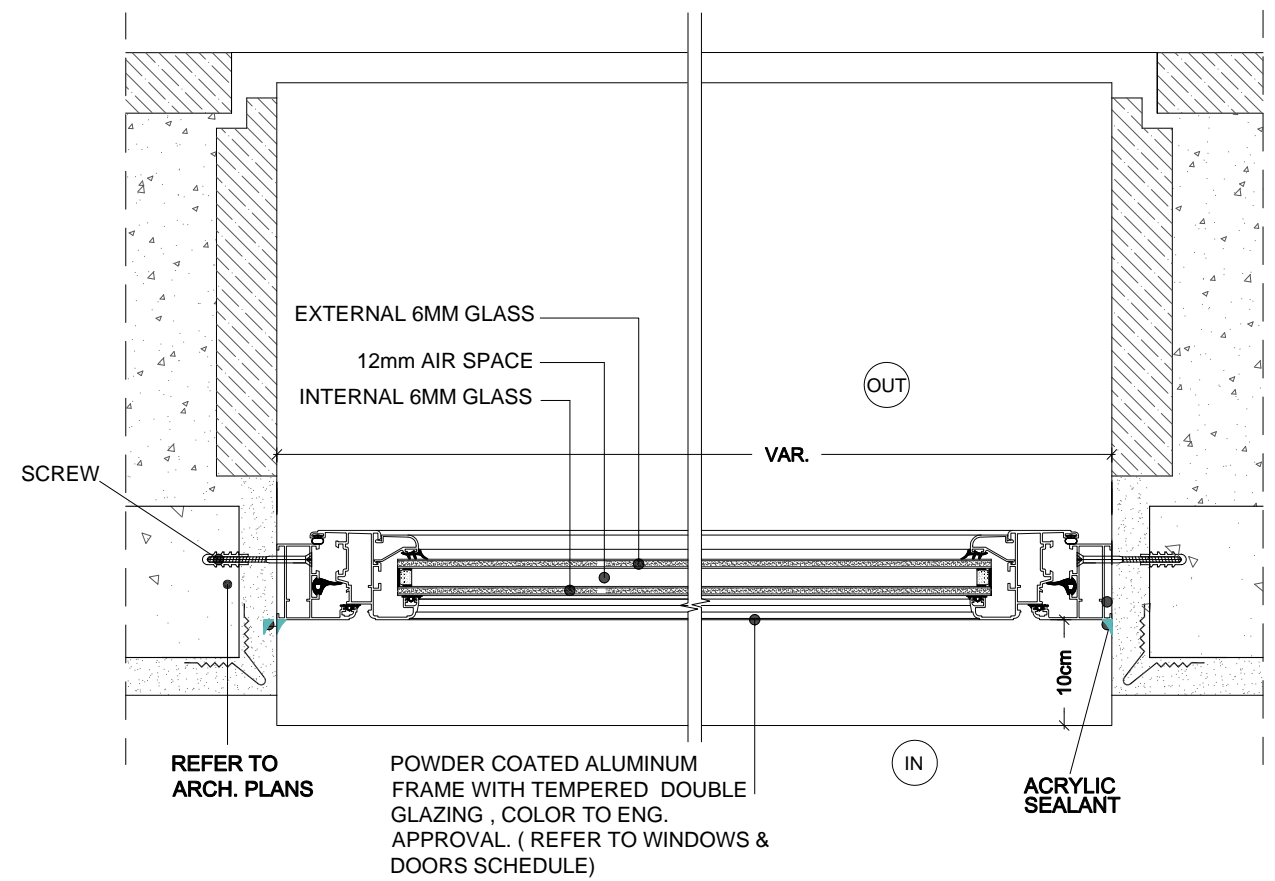
DRAWING NAME: ALUMINUM WINDOWS DETAIL		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: AS SHOWN	WD-05



B SECTION A-A
SCALE 1:5



A EXTERNAL ALUMINUM HINGED WINDOW
ELEVATION
SCALE N.T.S



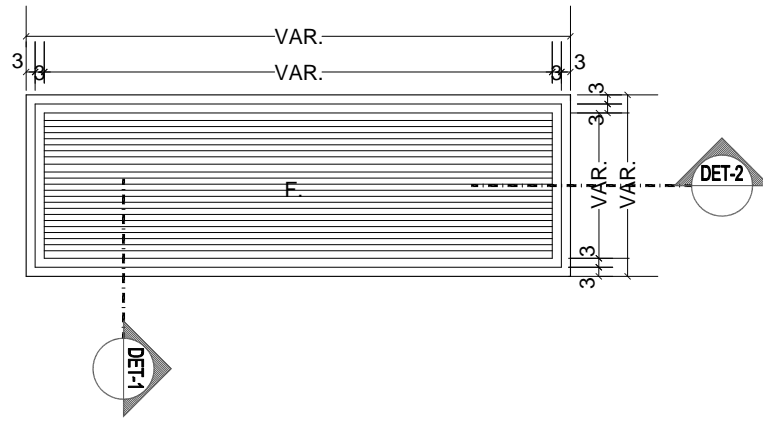
C SECTION B-B
SCALE 1:5

REV.	DATE	REMARKS

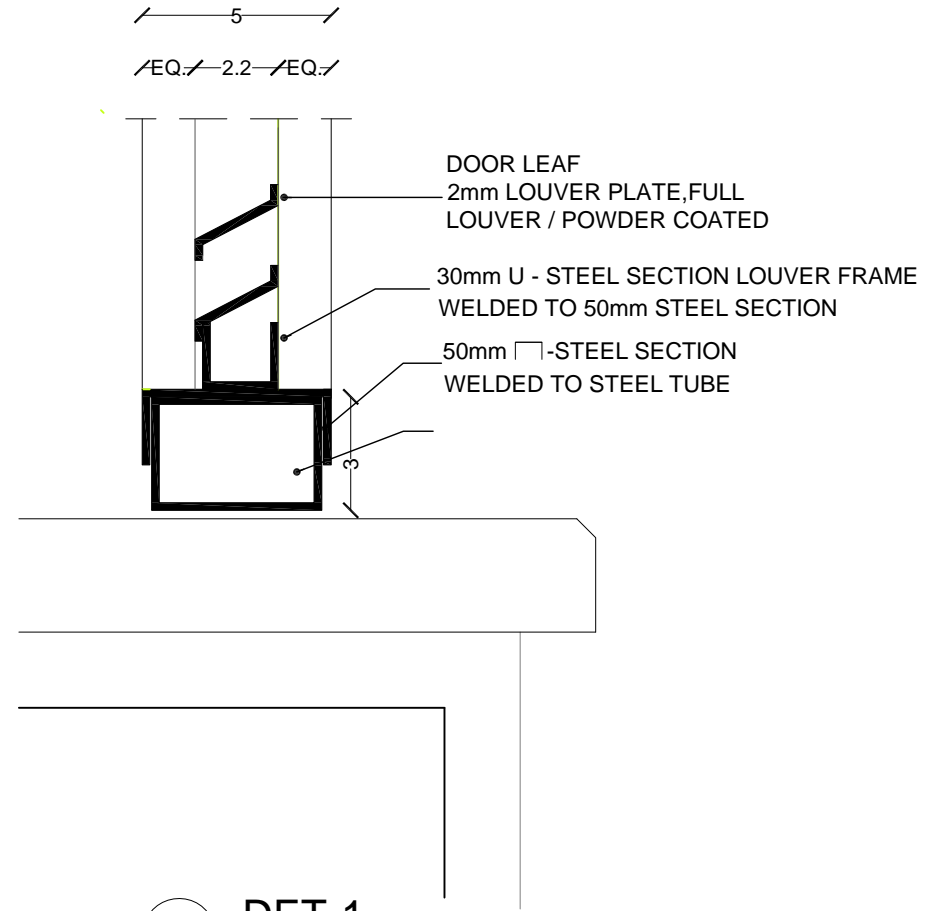


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

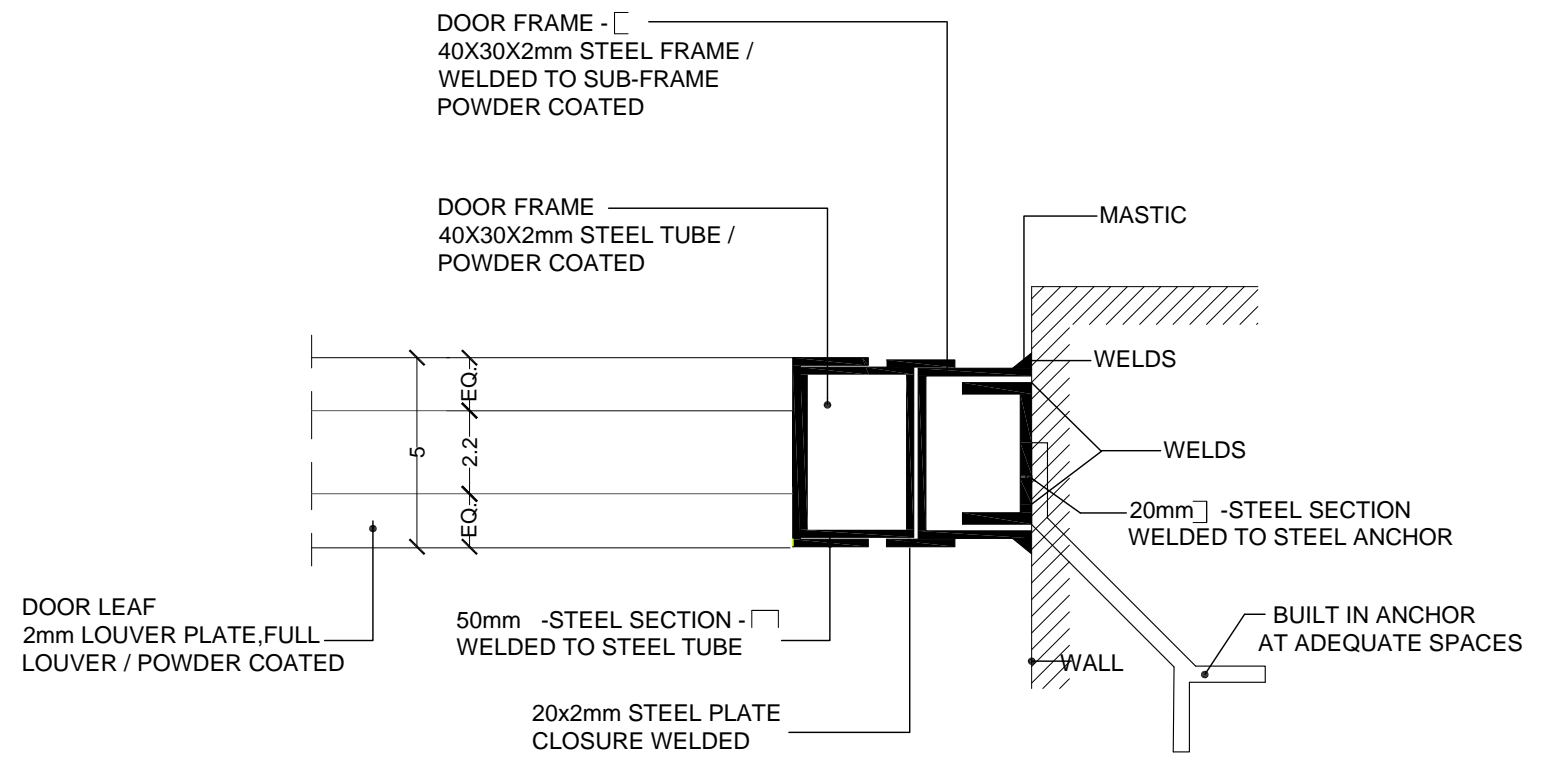
DRAWING NAME: ALUMINUM WINDOWS DETAIL		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE: AS SHOWN	WD-06



B **FIXED STEEL LOUVER WINDOW**
SCALE 1 : 25



B **DET-1**
SCALE 1 : 2



B **DET-2**
SCALE 1 : 2

DET-2

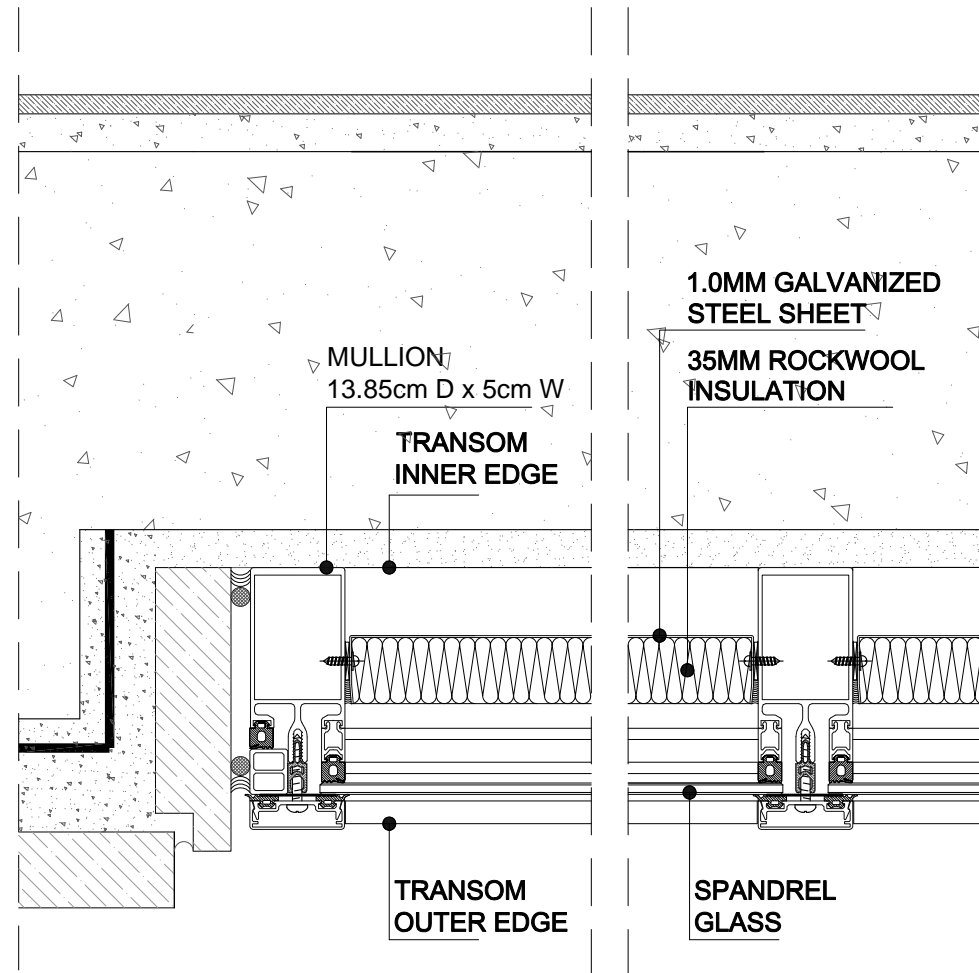
REV.	DATE	REMARKS



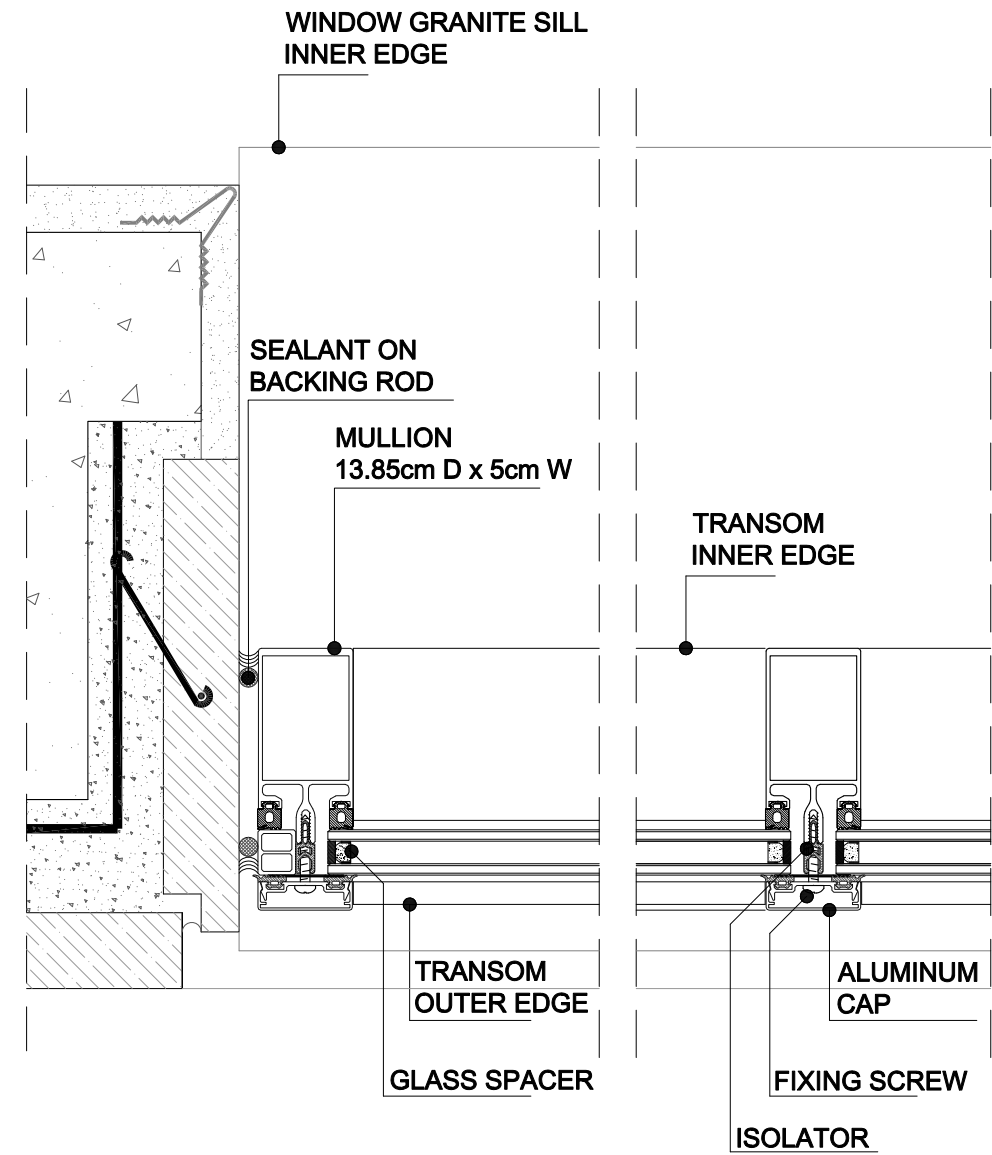
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
STEEL LOUVER WINDOWS DETAIL

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE: AS SHOWN	WD-07



A CURTAIN WALL AT CONSTRUCTION SLAB LEVEL
TYPICAL HORIZONTAL SECTION
SCALE 1:4



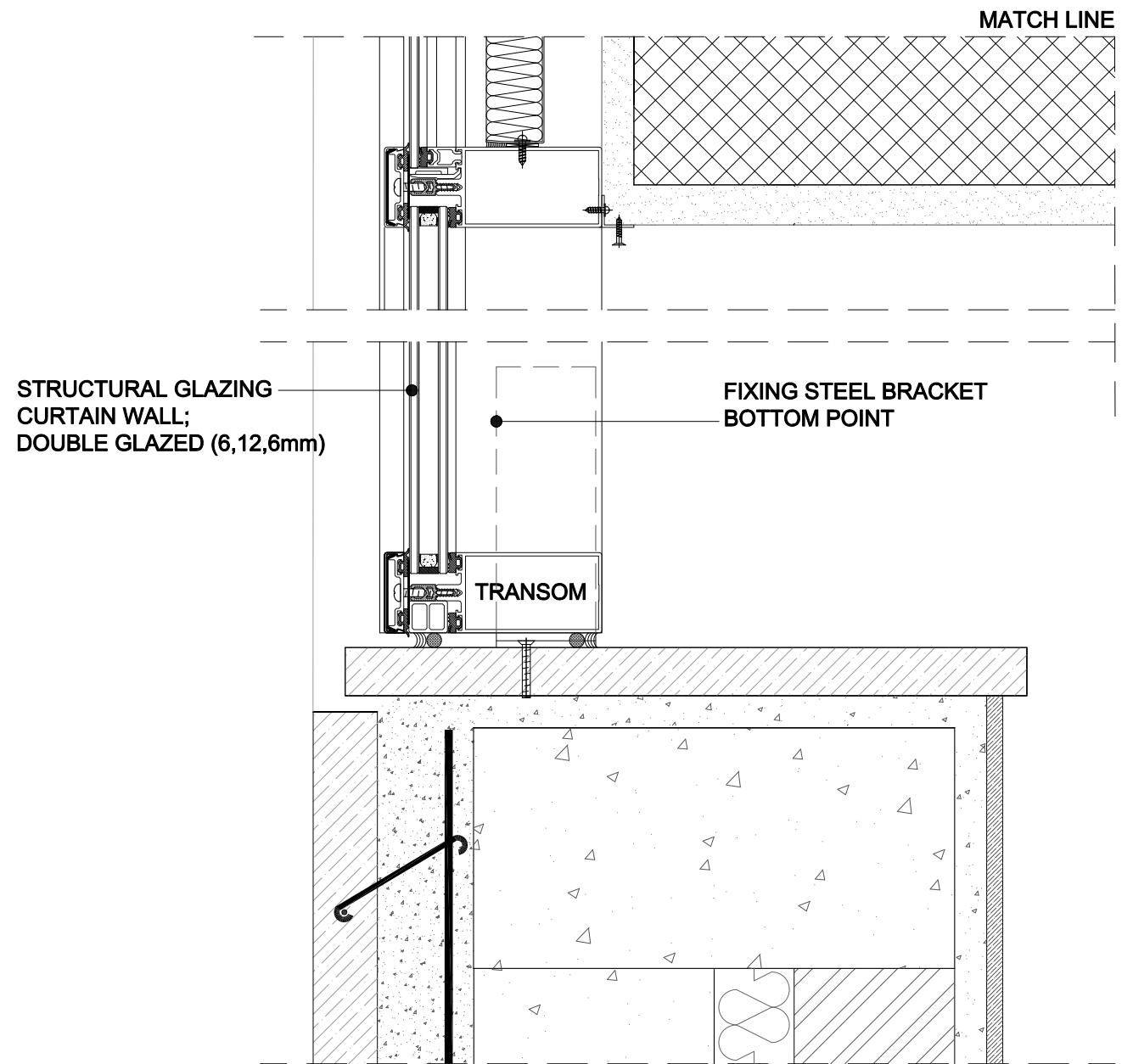
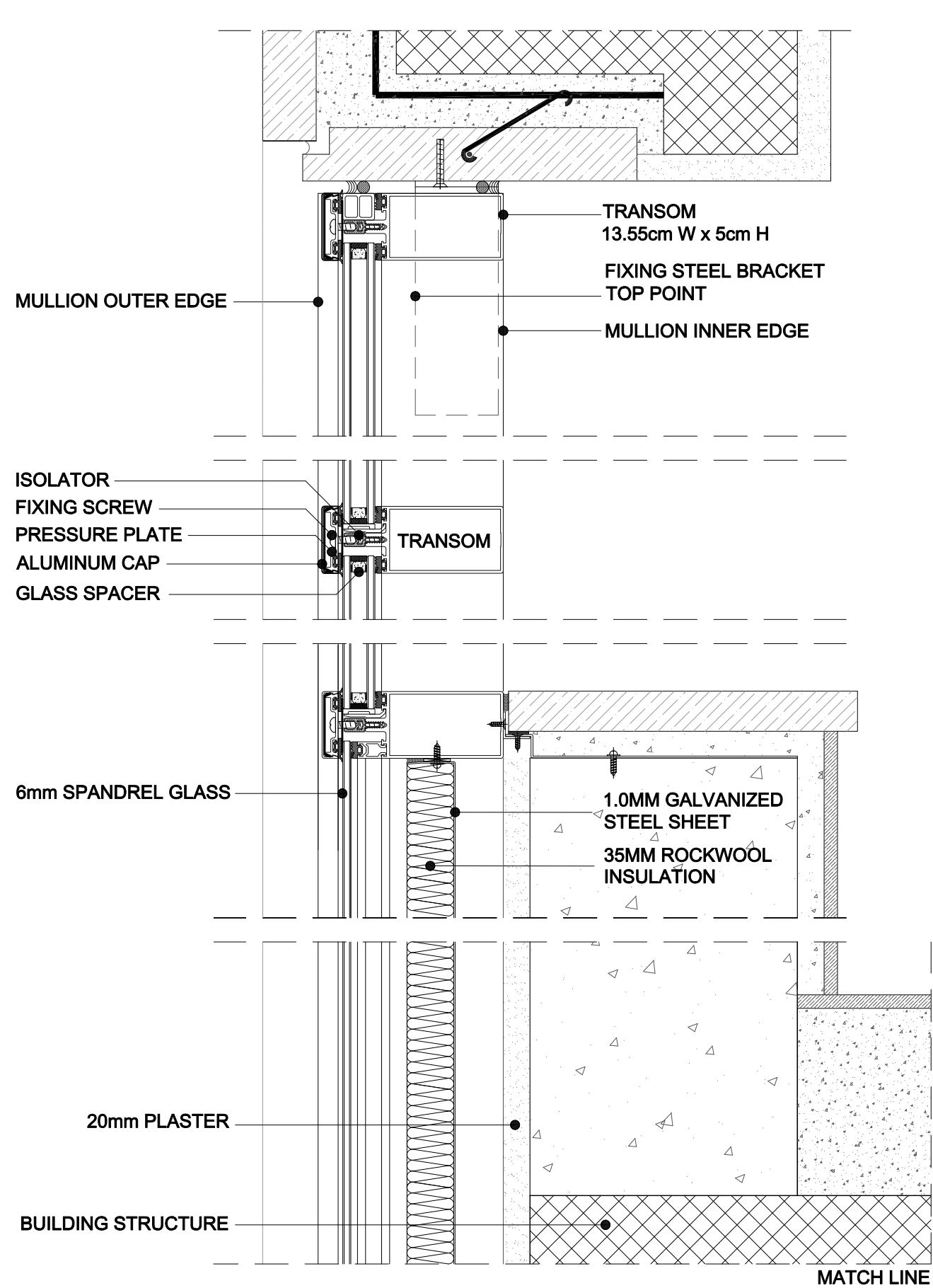
B CURTAIN WALL AT OPENING LEVEL-ABOVE F.F.I.
TYPICAL HORIZONTAL SECTION
SCALE 1:4

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
ALUMINUM WINDOWS DETAIL		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	WD-08
		Date:	SCALE:	
		June 2020	1:4	



A STRUCTURAL GLAZING CURTAIN WALL
TYPICAL VERTICAL SECTION
SCALE 1:4

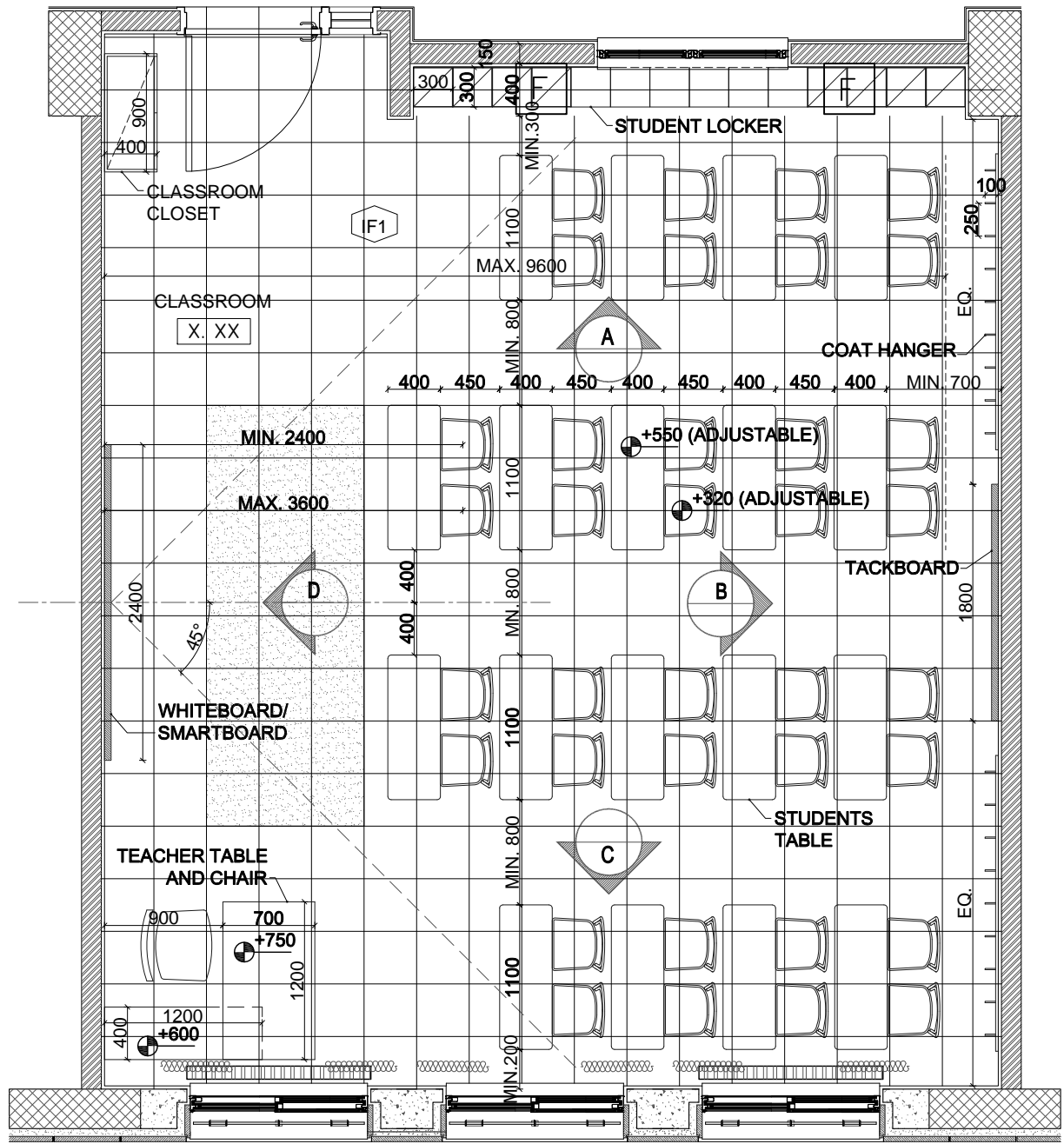
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
ALUMINUM WINDOWS DETAIL		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	WD-09
		Date:	SCALE:	
		June 2020	1:4	

**SCHOOL COMPONENTS
FIXED FURNITURE DETAILS**

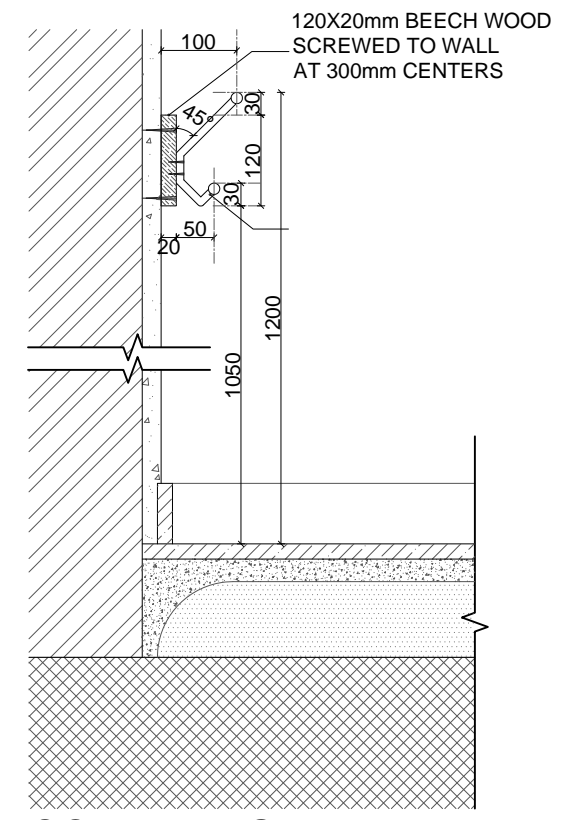


**CLASSROOM (GRADES 1-3)
ENLARGED PLAN**

01 SCALE 1 : 50

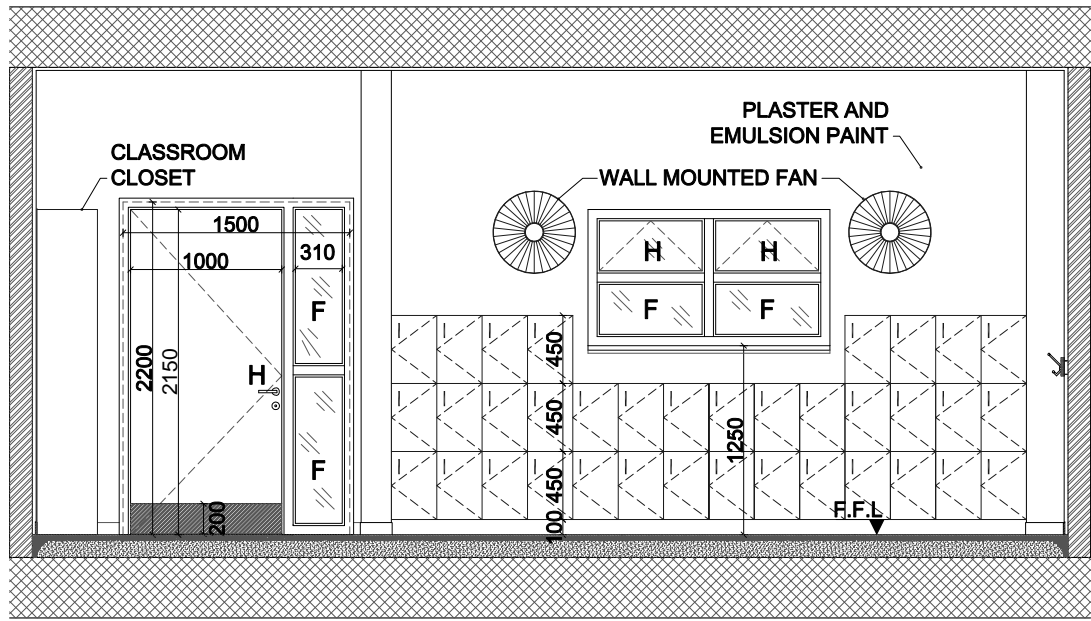
MOUNTING HEIGHTS FOR TACKBOARD AND MARKERBOARD (FLOOR TO BOTTOM OF FRAME/TRAY)	
GRADE LEVEL:	MOUNTING HEIGHT:
KINDERGARTEN, AND 1ST TO 3RD GRADE	60cm
3RD TO 5TH GRADE	70cm
6TH TO 12TH GRADE	90cm

TAG	TILING DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: <input type="checkbox"/> IF1: FULL BODY FULLY VITRIFIED PORCELAIN- POLISHED -SIZE 40X40cm- COLOR SHADE LIGHT BEIGE (TO APPROVAL OF THE ENGINEER) <input type="checkbox"/> IF2: FULL BODY FULLY VITRIFIED PORCELAIN- POLISHED- SIZE 40X40cm- COLOR SHADE LIGHT MAROON (TO APPROVAL OF THE ENGINEER) <input type="checkbox"/> IF3: GRANITE
IW#	INTERIOR WALL FINISH REF NUMBER: <input type="checkbox"/> IW4: FULL BODY FULLY VITRIFIED PORCELAIN- POLISHED- SIZE 40X40cm- UP TO 1.2m WITH 1.1cm ALUMINUM ANGLE TRIM TOPPED WITH PLASTER AND EMULSION PAINT <input type="checkbox"/> LIGHT BEIGE <input type="checkbox"/> OTHER COLOR SHADE (REF TO SCHOOL DRAWINGS)
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER



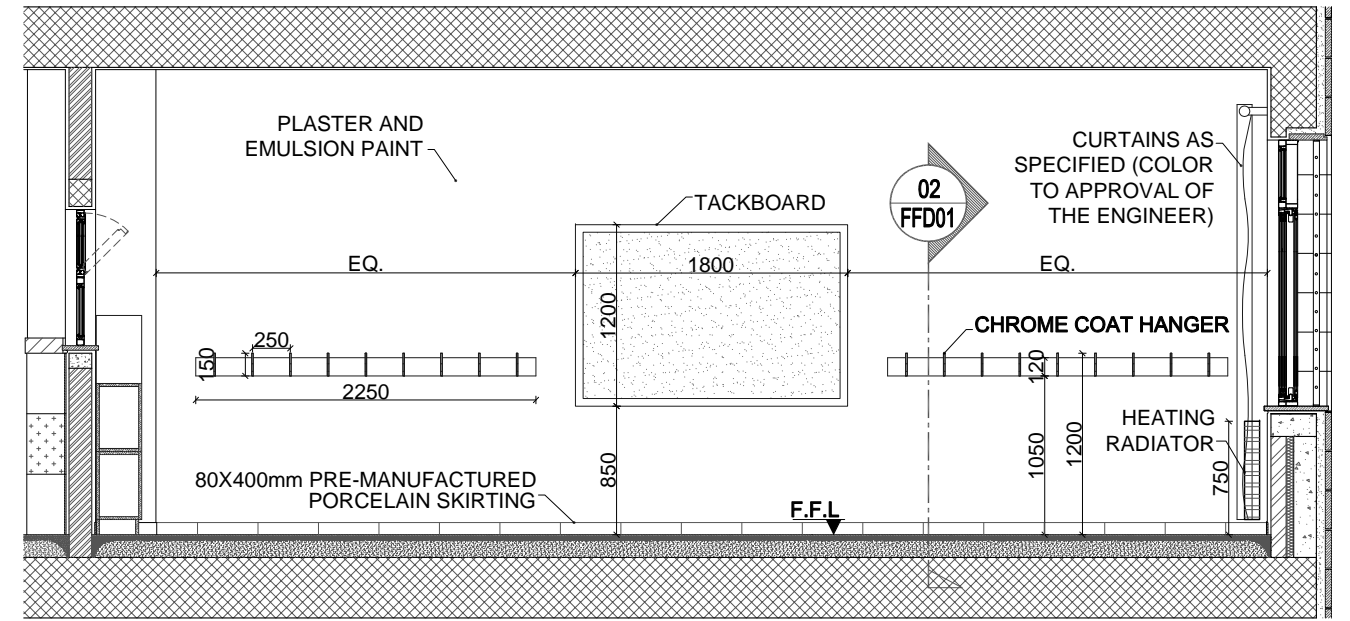
**COAT HANGER DETAIL
HANGING HEIGHT
GRADES 1-3**

02 SCALE 1 : 10



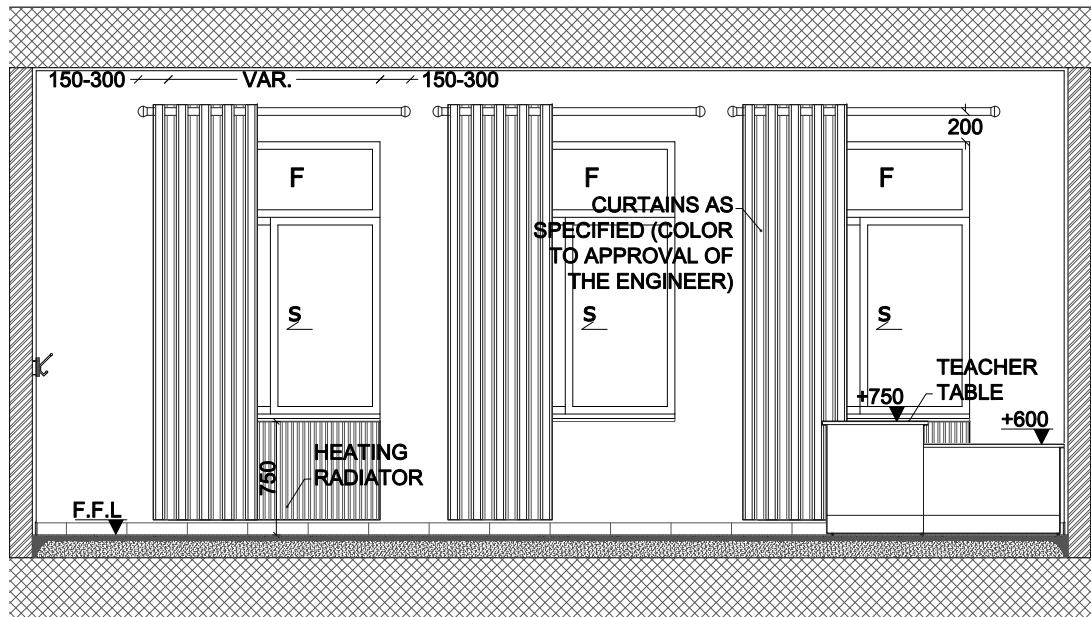
**CLASSROOM (GRADES 1-3)
ELEVATION A**

01
SCALE 1 : 50



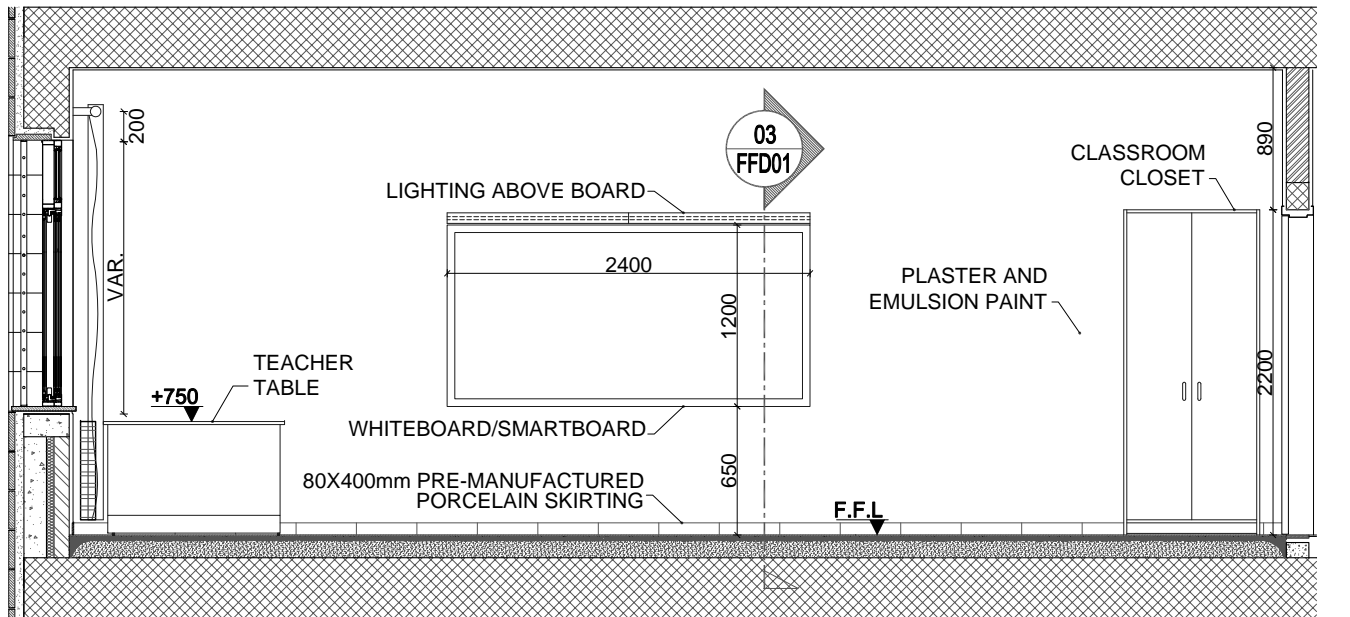
**CLASSROOM (GRADES 1-3)
ELEVATION B**

02
SCALE 1 : 50



**CLASSROOM (GRADES 1-3)
ELEVATION C**

03
SCALE 1 : 50



**CLASSROOM (GRADES 1-3)
ELEVATION D**

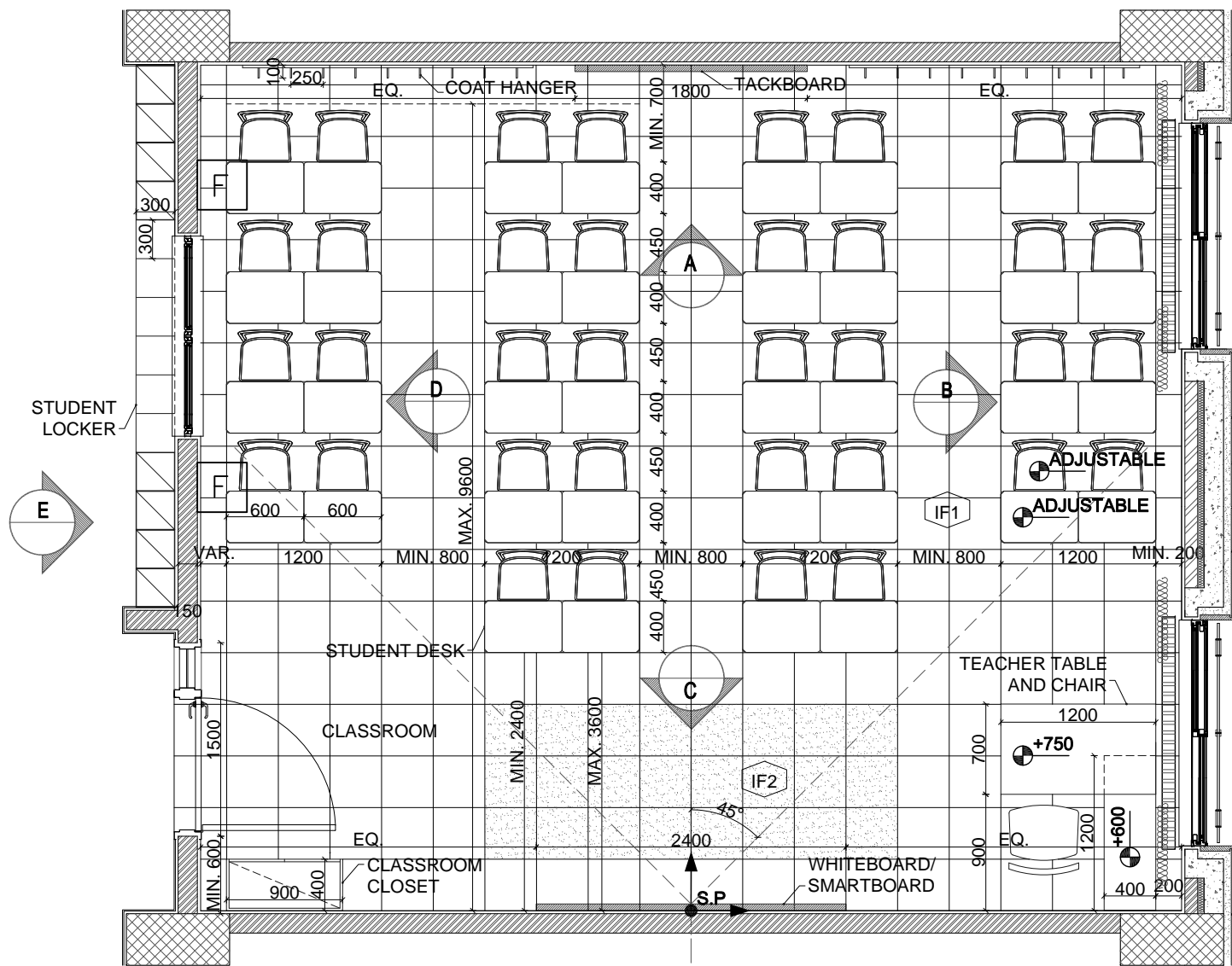
04
SCALE 1 : 50

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

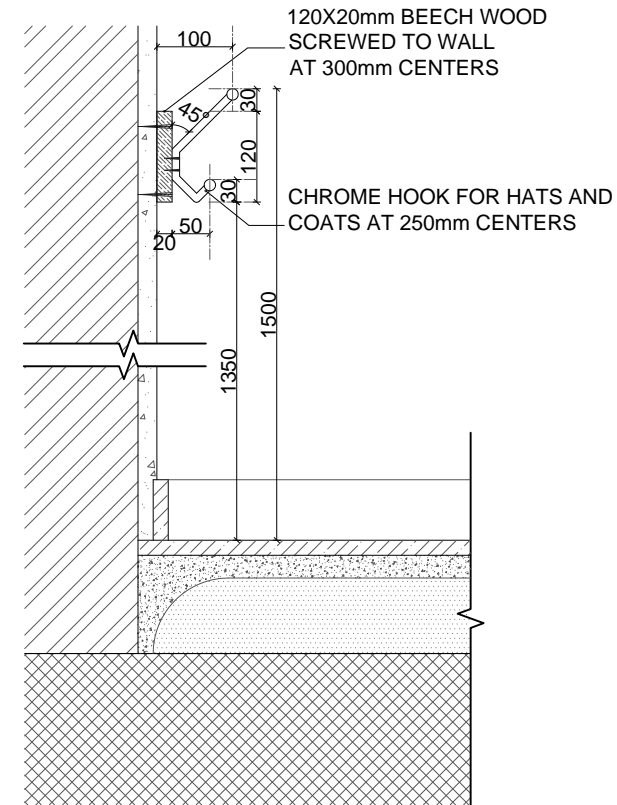
DRAWING NAME:		Design:	Drawn:	REVISION No. :
FIXED FURNITURE DETAILS TYPICAL CLASSROOM (GRADE 1-3)		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	FFD-02
		Date:	SCALE :	
		June 2020	1:50	



**CLASSROOM (GRADES 4-12)
ENLARGED PLAN**

01 SCALE 1:50

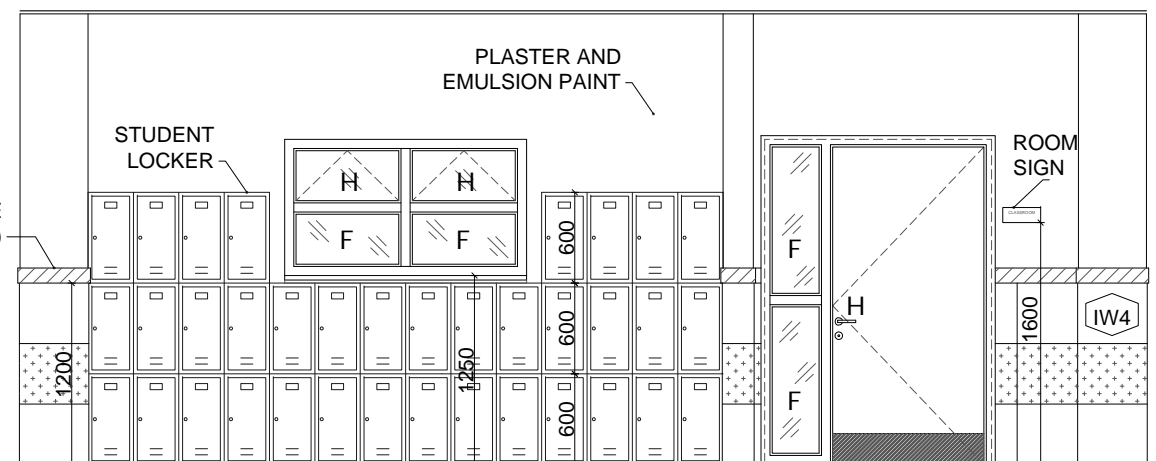
MOUNTING HEIGHTS FOR TACKBOARD AND MARKERBOARD (FLOOR TO BOTTOM OF FRAME/TRAY)	
GRADE LEVEL:	MOUNTING HEIGHT:
KINDERGARTEN, AND 1ST TO 3RD GRADE	60cm
3RD TO 5TH GRADE	70cm
6TH TO 12TH GRADE	90cm



**COAT HANGER DETAIL
HANGING HEIGHT
GRADES 4-12**

02 SCALE 1:10

TAG	TILING DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY FULLY VITRIFIED PORCELAIN- POLISHED -SIZE 40X40cm- COLOR SHADE LIGHT BEIGE (TO APPROVAL OF THE ENGINEER) IF2: FULL BODY FULLY VITRIFIED PORCELAIN- POLISHED- SIZE 40X40cm- COLOR SHADE LIGHT MAROON (TO APPROVAL OF THE ENGINEER) IF3: GRANITE
IW#	INTERIOR WALL FINISH REF NUMBER: IW4: FULL BODY FULLY VITRIFIED PORCELAIN- POLISHED- SIZE 40X40cm- UP TO 1.2m WITH 1.1cm ALUMINUM ANGLE TRIM TOPPED WITH PLASTER AND EMULSION PAINT LIGHT BEIGE OTHER COLOR SHADE (REF TO SCHOOL DRAWINGS)
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER



**CLASSROOM (GRADES 4-12)
ELEVATION E**

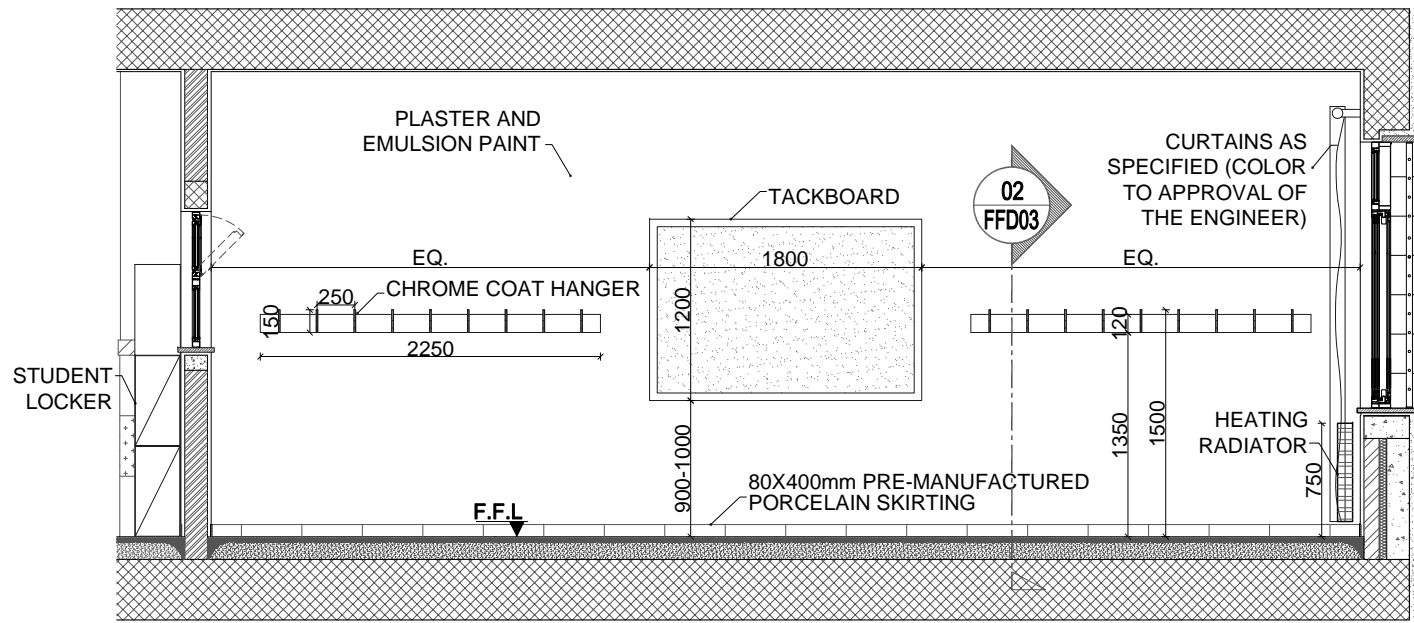
04 SCALE 1:50

REV.	DATE	REMARKS



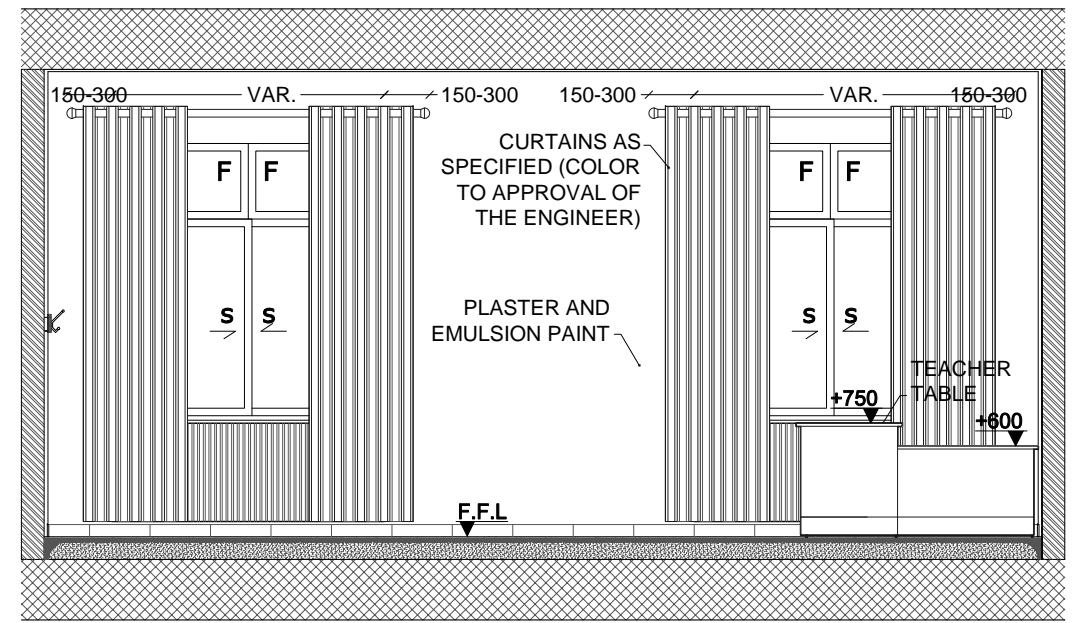
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
FIXED FURNITURE DETAILS TYPICAL CLASSROOM (GRADE 4-12)		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	FFD-03
		Date:	SCALE:	
		June 2020	AS SHOWN	



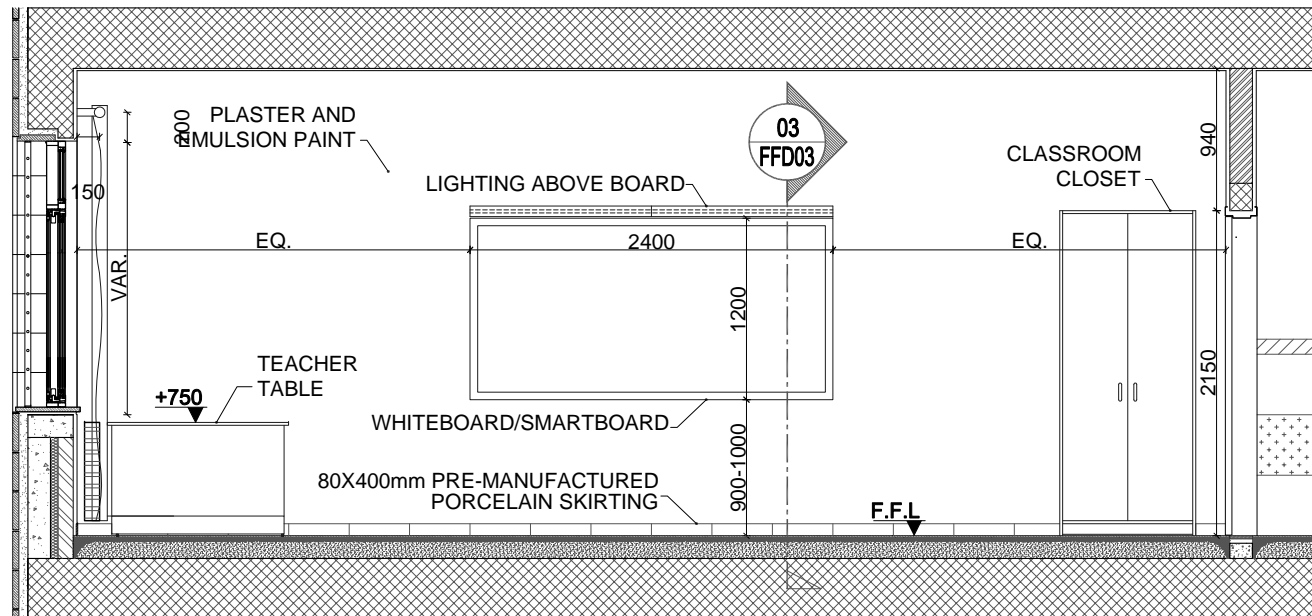
**CLASSROOM (GRADES 4-12)
ELEVATION A**

01
SCALE 1 : 50



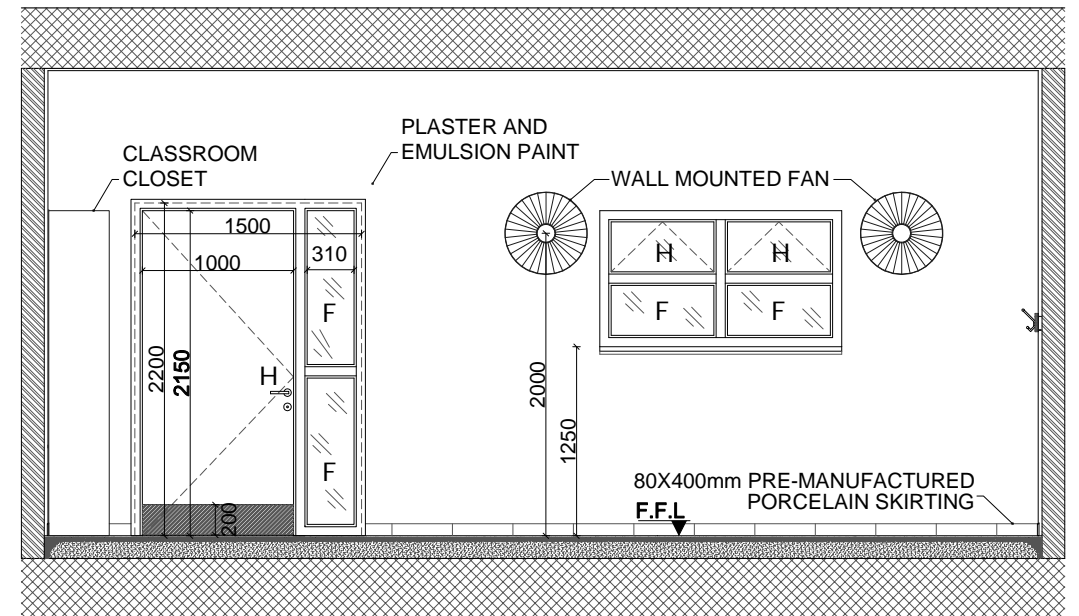
**CLASSROOM (GRADES 4-12)
ELEVATION B**

02
SCALE 1 : 50



**CLASSROOM (GRADES 4-12)
ELEVATION C**

03
SCALE 1 : 50



**CLASSROOM (GRADES 4-12)
ELEVATION D**

04
SCALE 1 : 50

REV.	DATE	REMARKS

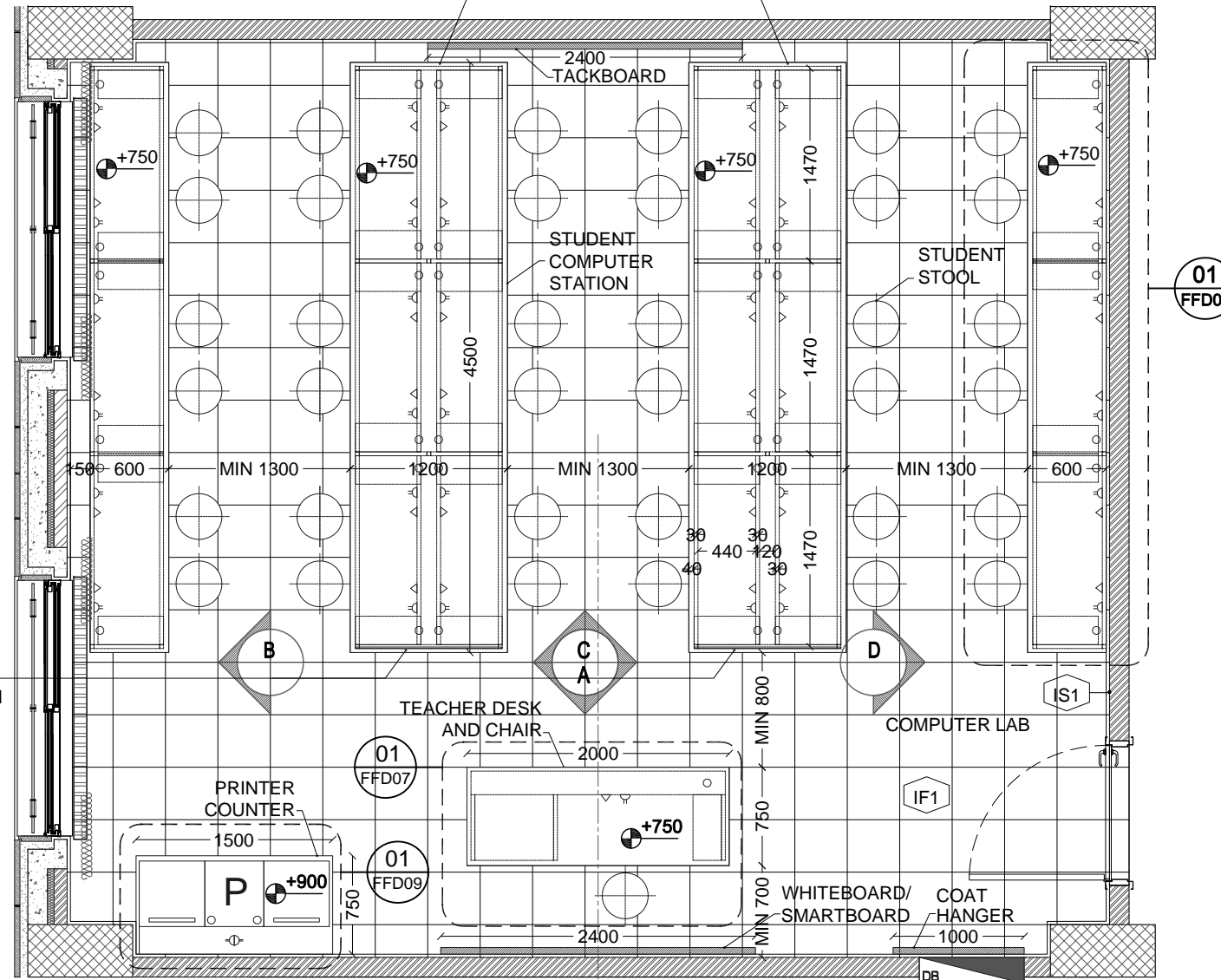


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
FIXED FURNITURE DETAILS TYPICAL CLASSROOM (GRADE 4-12)		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	FFD-04
		Date:	SCALE:	
		June 2020	1:50	

SERVICE AREA COVER MADE OF 12mm PLYWOOD PANELS WITH 0.8mm THICK. HPL ON BOTH SIDES AND 0.8mm THICK. PVC EDGING

SERVICE AREA COVER MADE OF 12mm PLYWOOD PANELS WITH 0.8mm THICK. HPL ON BOTH SIDES AND 0.8mm THICK. PVC EDGING



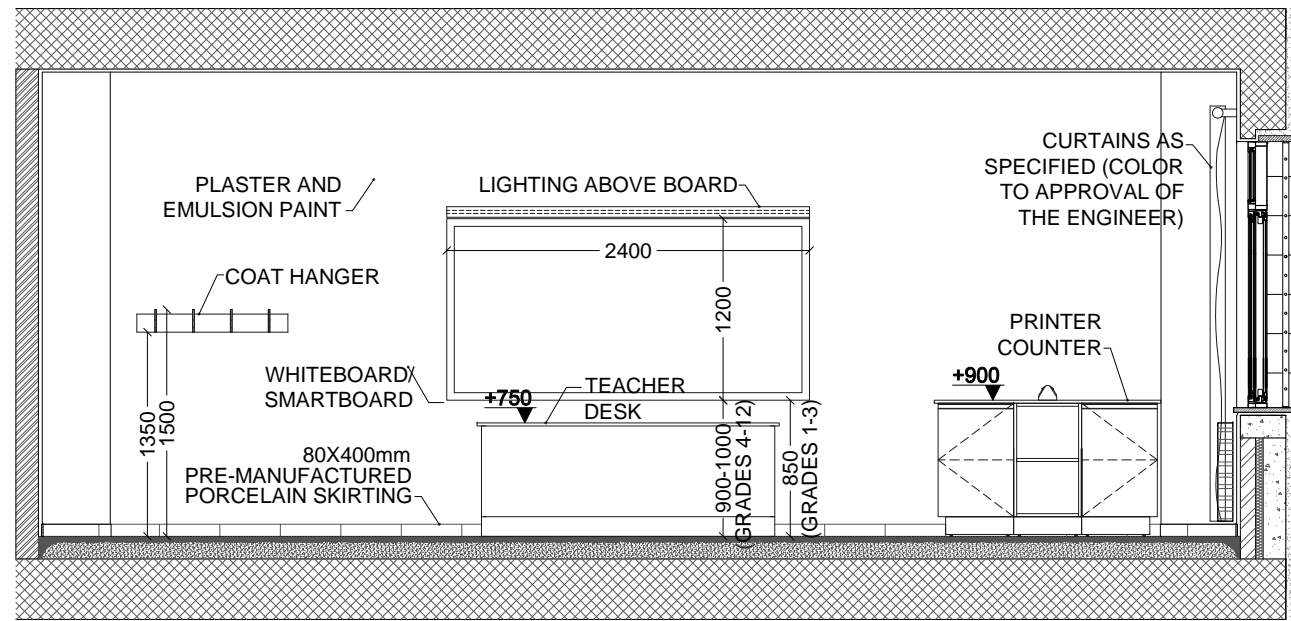
01 COMPUTER LAB ENLARGED PLAN
SCALE 1 : 50

REV.	DATE	REMARKS

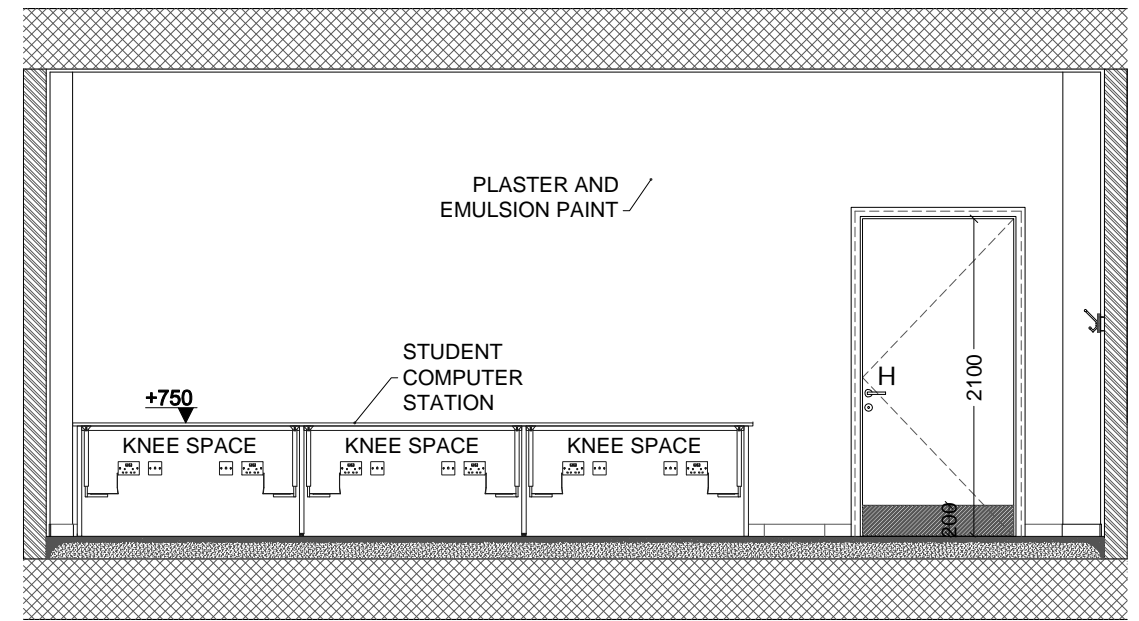


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

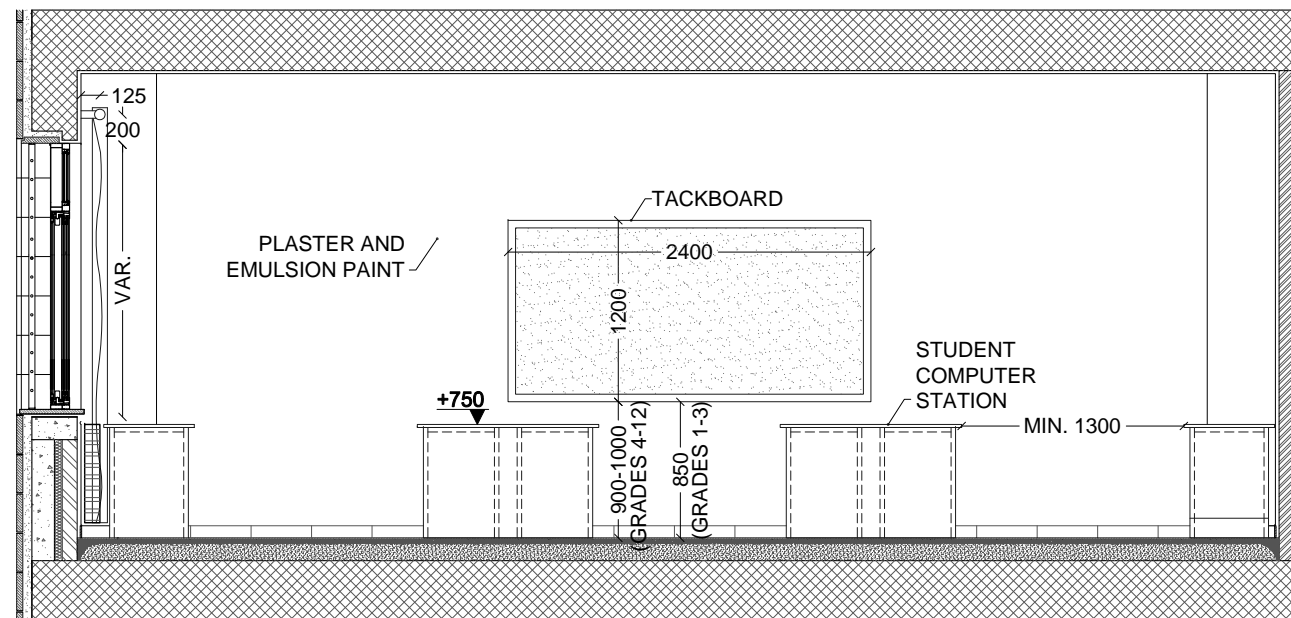
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FIXED FURNITURE DETAILS TYPICAL COMPUTER LAB ENLARGED PLAN		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	FFD-05
		Date:	SCALE:	
		June 2020	1:50	



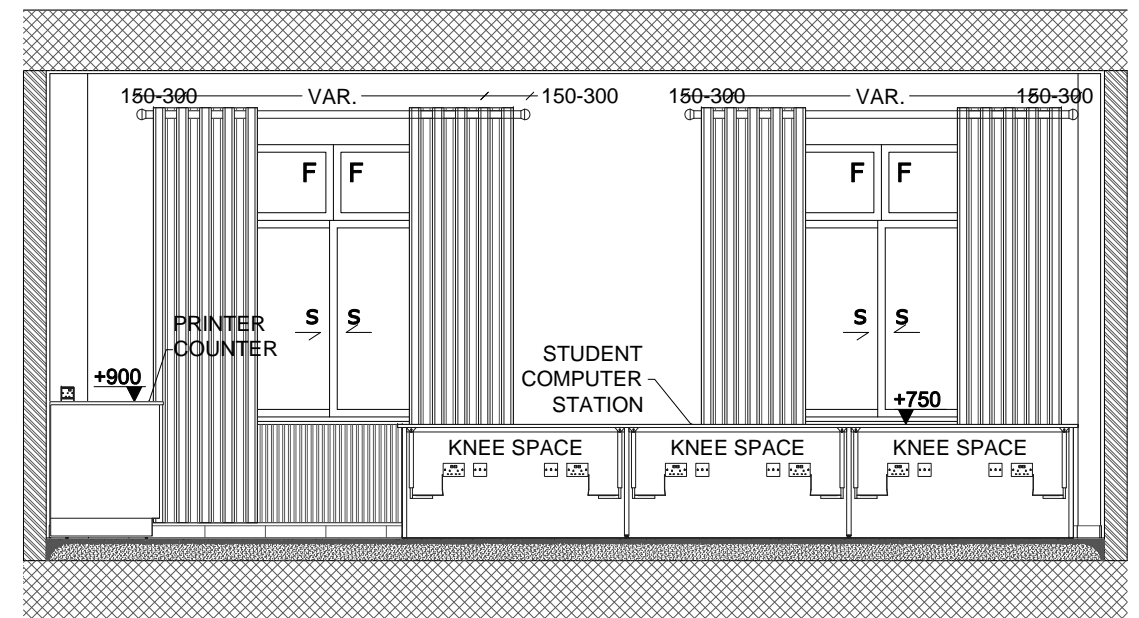
01 **COMPUTER LAB ELEVATION A**
SCALE 1:50



02 **COMPUTER LAB ELEVATION B**
SCALE 1:50



03 **COMPUTER LAB ELEVATION C**
SCALE 1:50



04 **COMPUTER LAB ELEVATION D**
SCALE 1:50

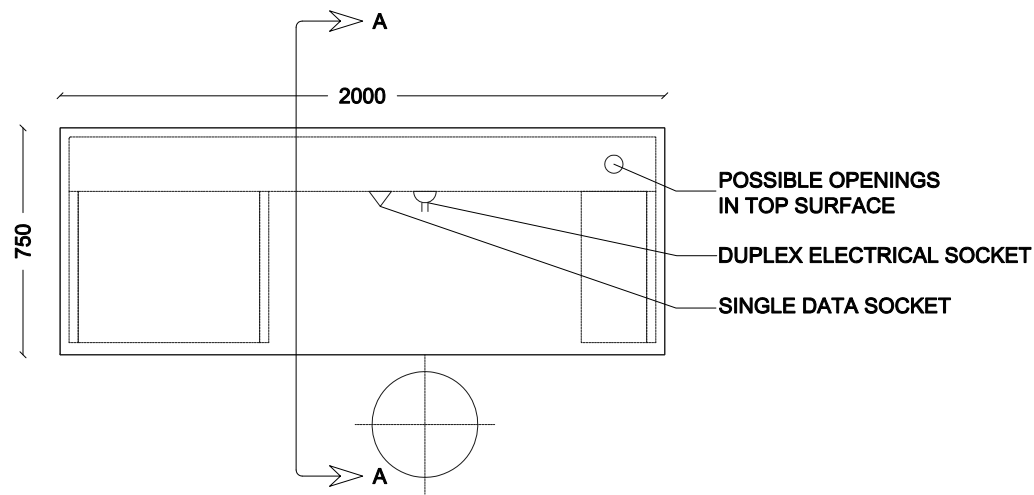
REV.	DATE	REMARKS



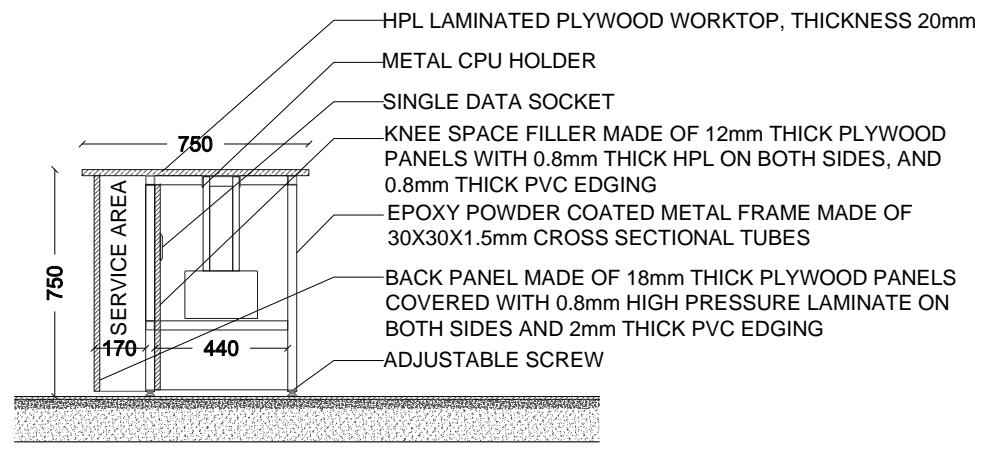
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
FIXED FURNITURE DETAILS
TYPICAL COMPUTER LAB
INTERNAL ELEVATIONS

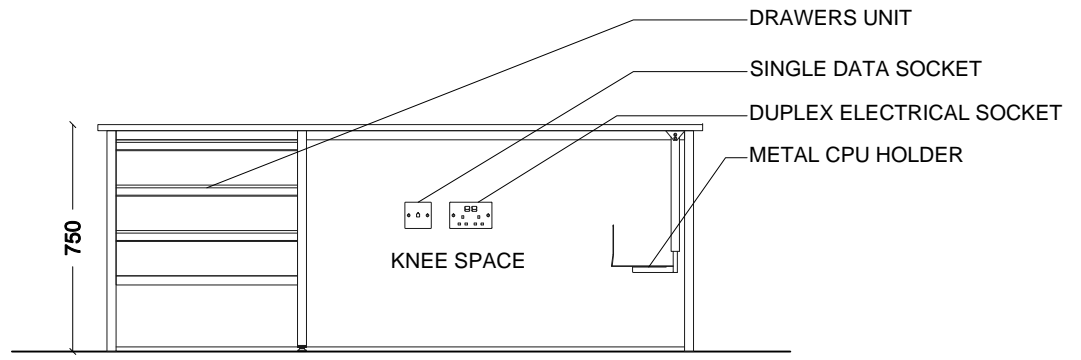
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: FFD-06
Date: June 2020	SCALE: 1:50	



01 **TEACHER DESK PLAN**
SCALE 1:25



02 **TEACHER DESK SECTION A-A**
SCALE 1:25



03 **TEACHER DESK FRONT ELEVATION**
SCALE 1:25

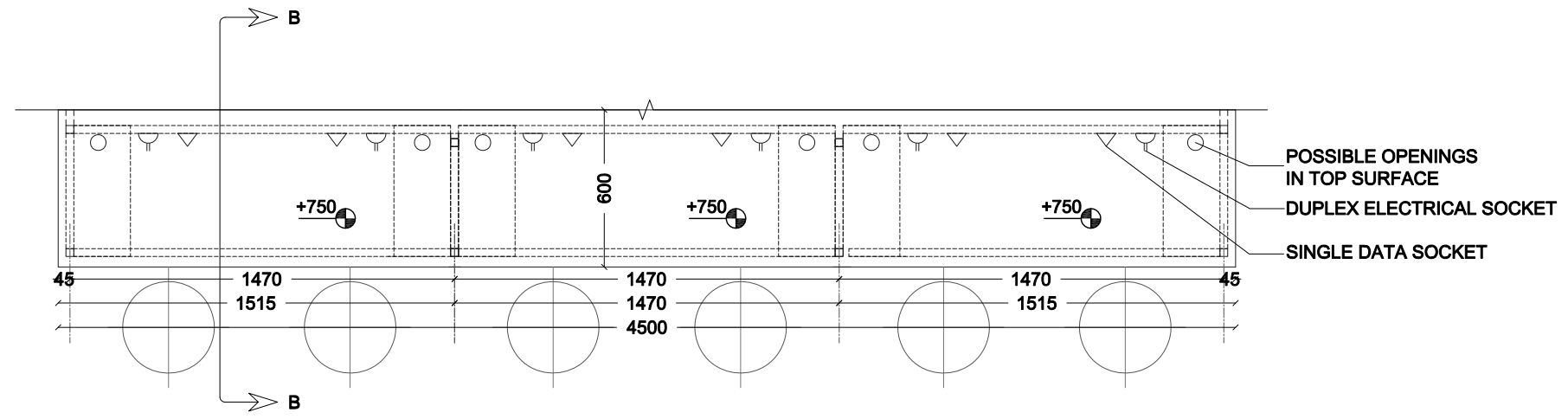
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
FIXED FURNITURE DETAILS
TYPICAL COMPUTER LAB
TEACHER DESK

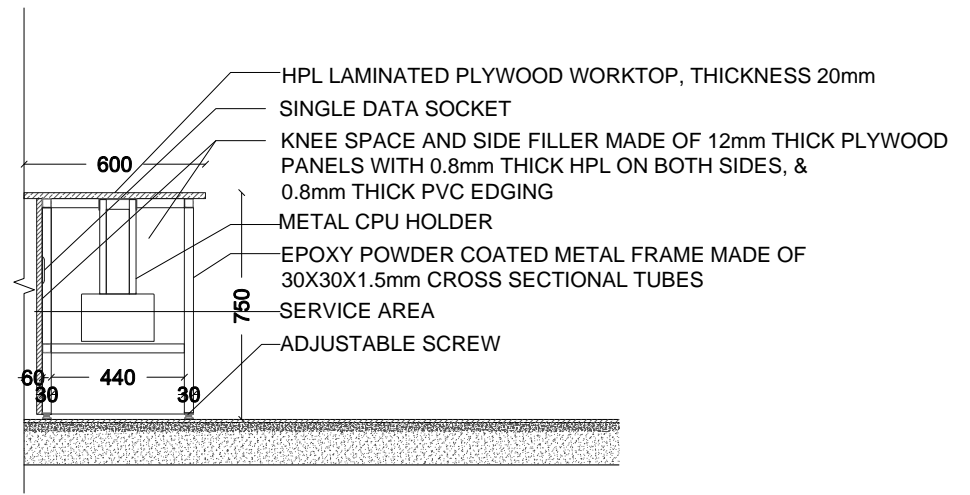
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: FFD-07
Date: June 2020	SCALE : 1:25	



POSSIBLE OPENINGS
IN TOP SURFACE
DUPLEX ELECTRICAL SOCKET
SINGLE DATA SOCKET

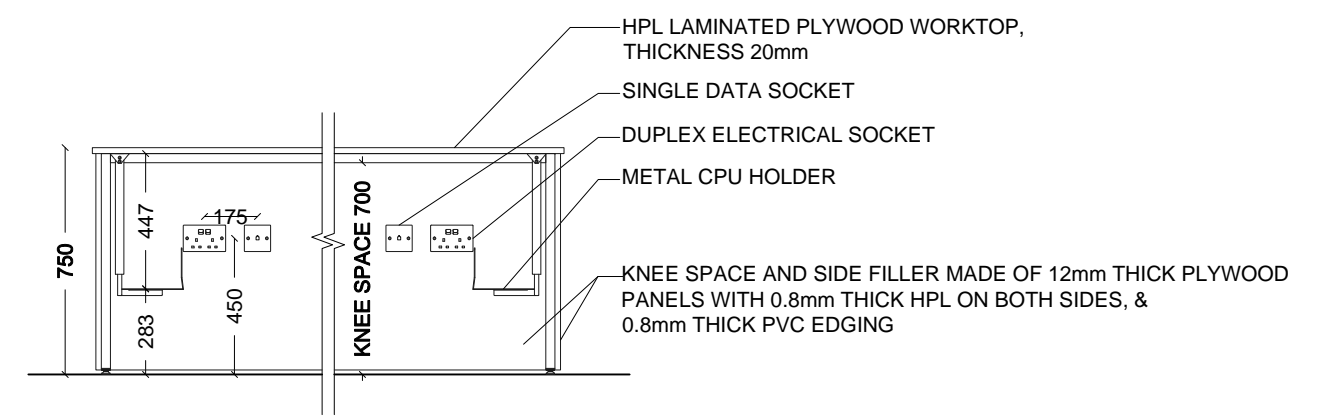
**STUDENT COMPUTER STATION
PLAN**

01 SCALE 1:25



**STUDENT COMPUTER STATION
SECTION B-B**

02 SCALE 1:25



**STUDENT COMPUTER STATION
FRONT ELEVATION**

03 SCALE 1:25

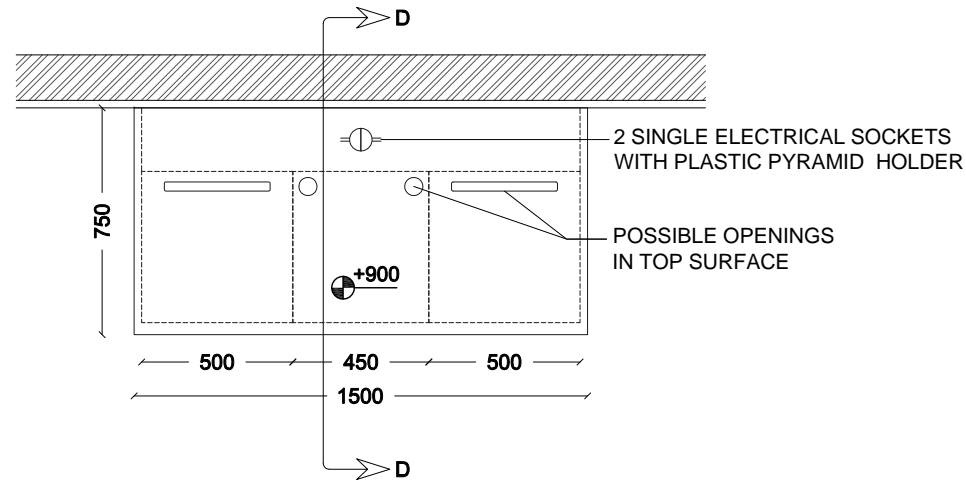
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

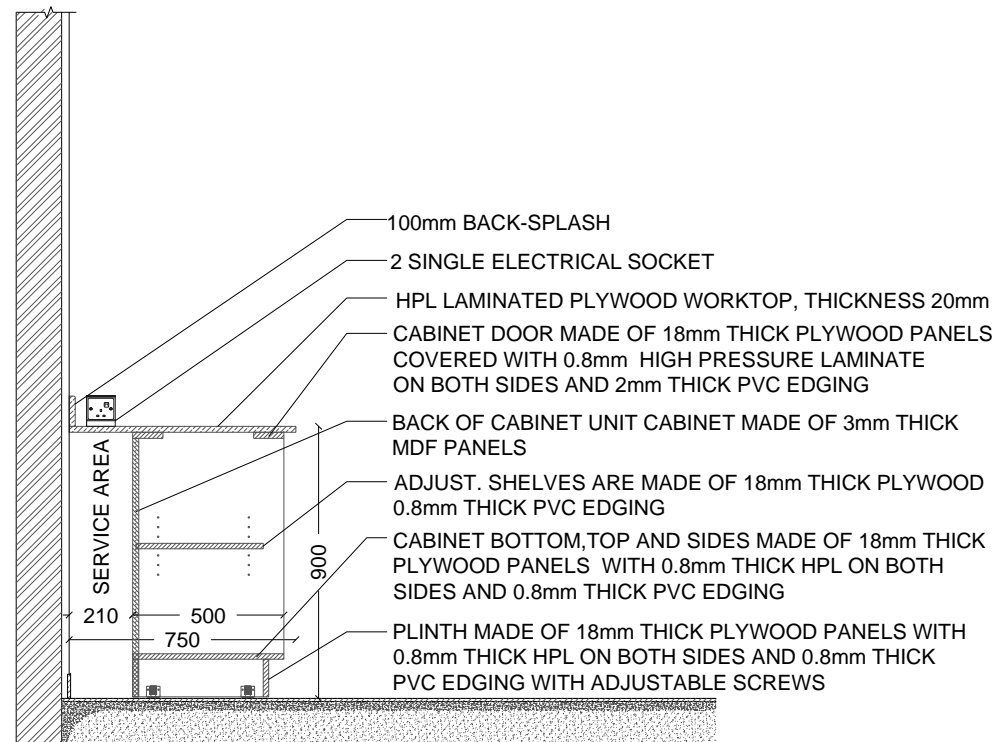
DRAWING NAME:
FIXED FURNITURE DETAILS
TYPICAL COMPUTER LAB
STUDENT COMPUTER STATION

Design: H.B.	Drawn: Engicon	REVISION No. : 01
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: FFD-08
Date: June 2020	SCALE : 1:25	



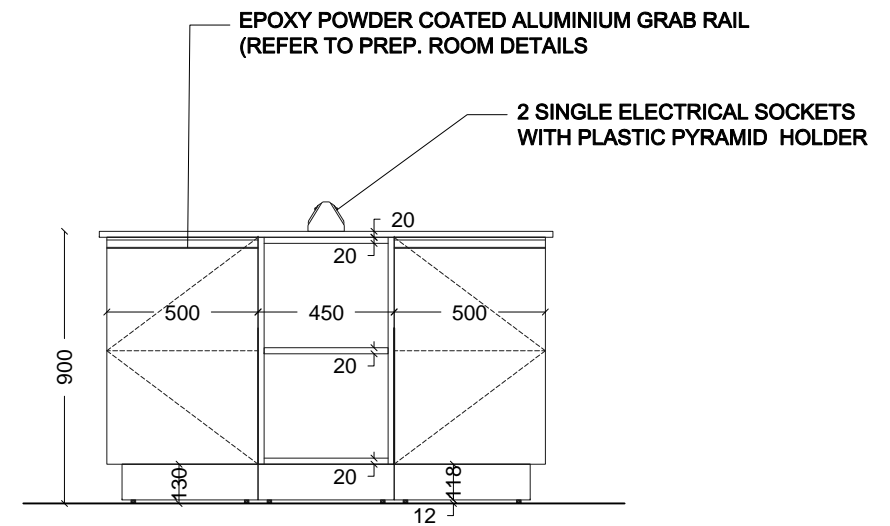
01 PRINTER COUNTER PLAN

SCALE 1 : 25



02 PRINTER COUNTER SECTION D-D

SCALE 1 : 25



03 PRINTER COUNTER FRONT ELEVATION

SCALE 1 : 25

REV.	DATE	REMARKS



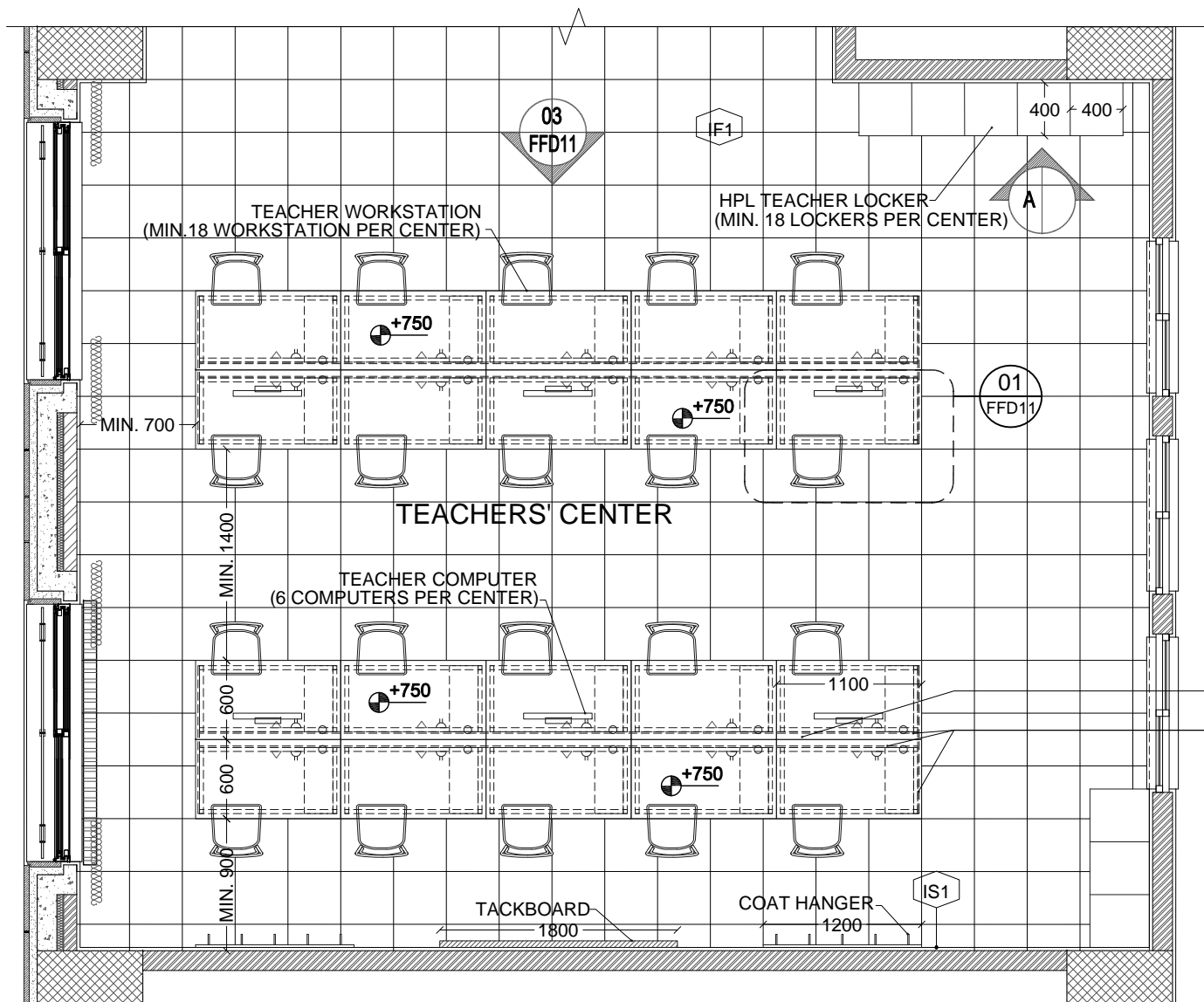
BOOK OF DETAILS

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:

FIXED FURNITURE DETAILS
TYPICAL COMPUTER LAB
PRINTER COUNTER

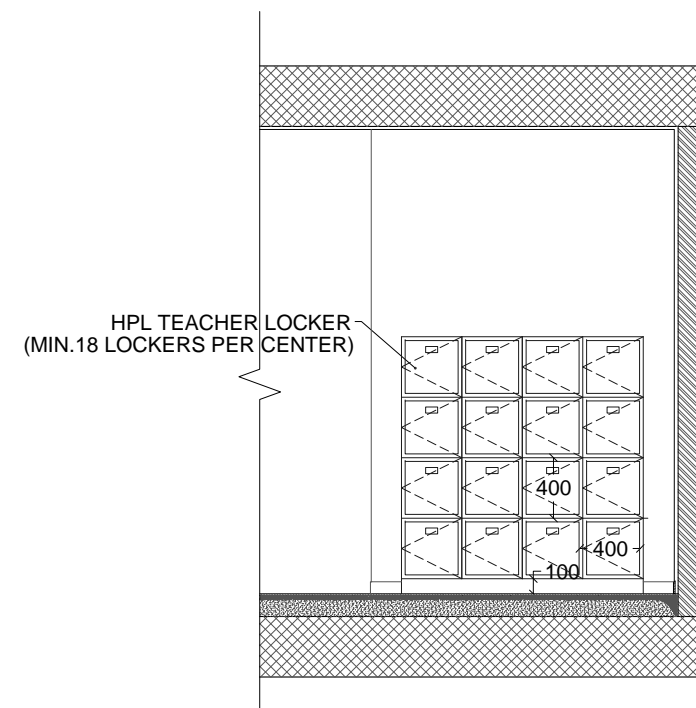
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H.B.	Engicon	0
Checked:	Approved:	SHEET NUMBER:
M.Sh.	S.B.	FFD-09
Date:	SCALE :	
June 2020	1:25	



01 TEACHERS' CENTER ENLARGED PLAN SCALE 1 : 50

SERVICE AREA ALONG BACK OF ATTACHED DESKS

SERVICE AREA COVER AND SIDE FILLER MADE OF 12mm THK. PLYWOOD PANELS WITH 0.8mm THK. HPL ON BOTH SIDES AND 0.8mm THK PVC EDGING



02 TEACHERS' CENTER ELEV. A- TEACHERS' LOCKERS SCALE 1 : 50

REV.	DATE	REMARKS



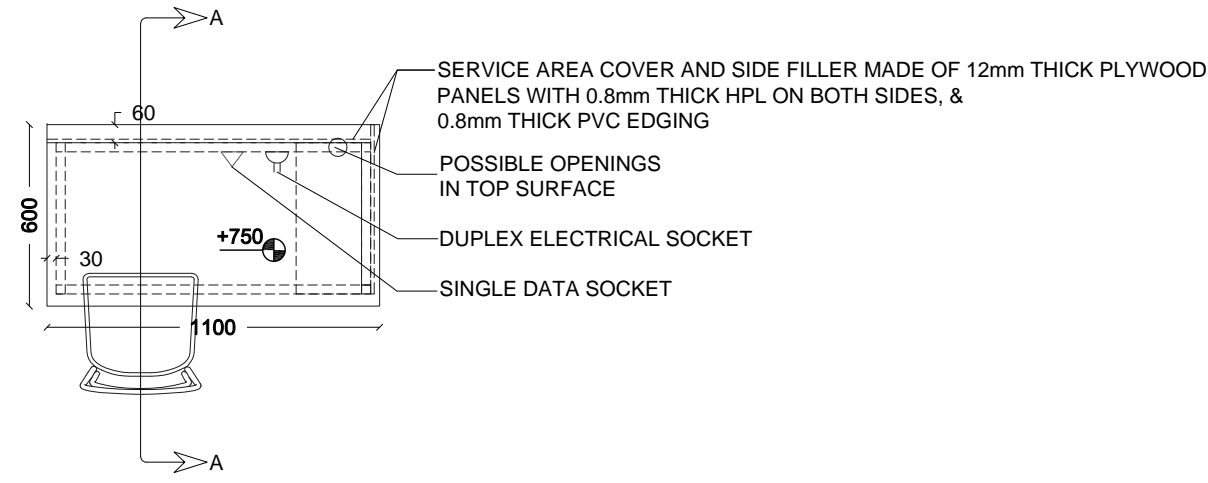
BOOK OF DETAILS

SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

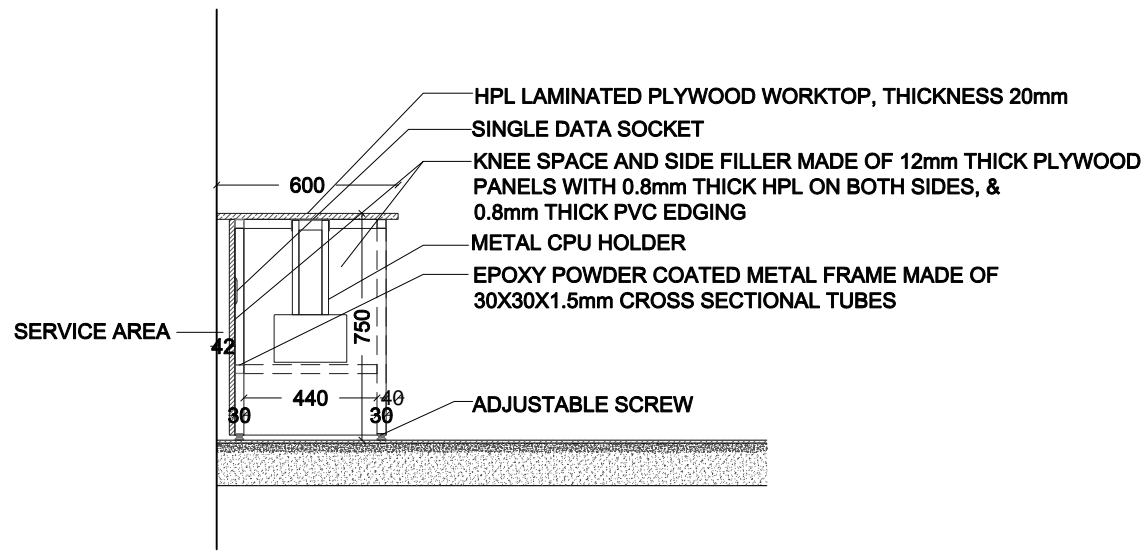
DRAWING NAME:

FIXED FURNITURE DETAILS
TYPICAL TEACHERS' CENTER
ENLARGED PLAN

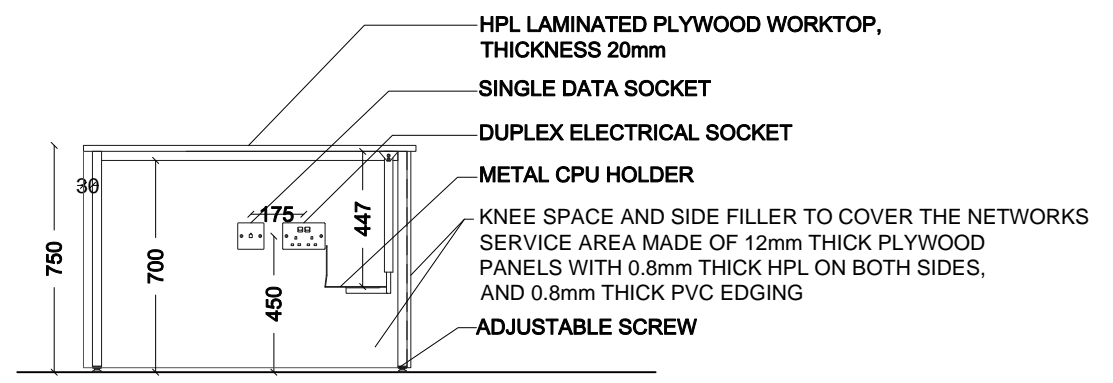
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Checked:	M.Sh.	Approved:	S.B.	SHEET NUMBER:	FFD-10
Date:	June 2020	SCALE:	1:50		



TEACHER WORKSTATION PLAN
 01 SCALE 1 : 25



TEACHER WORKSTATION SECTION A-A
 02 SCALE 1 : 25



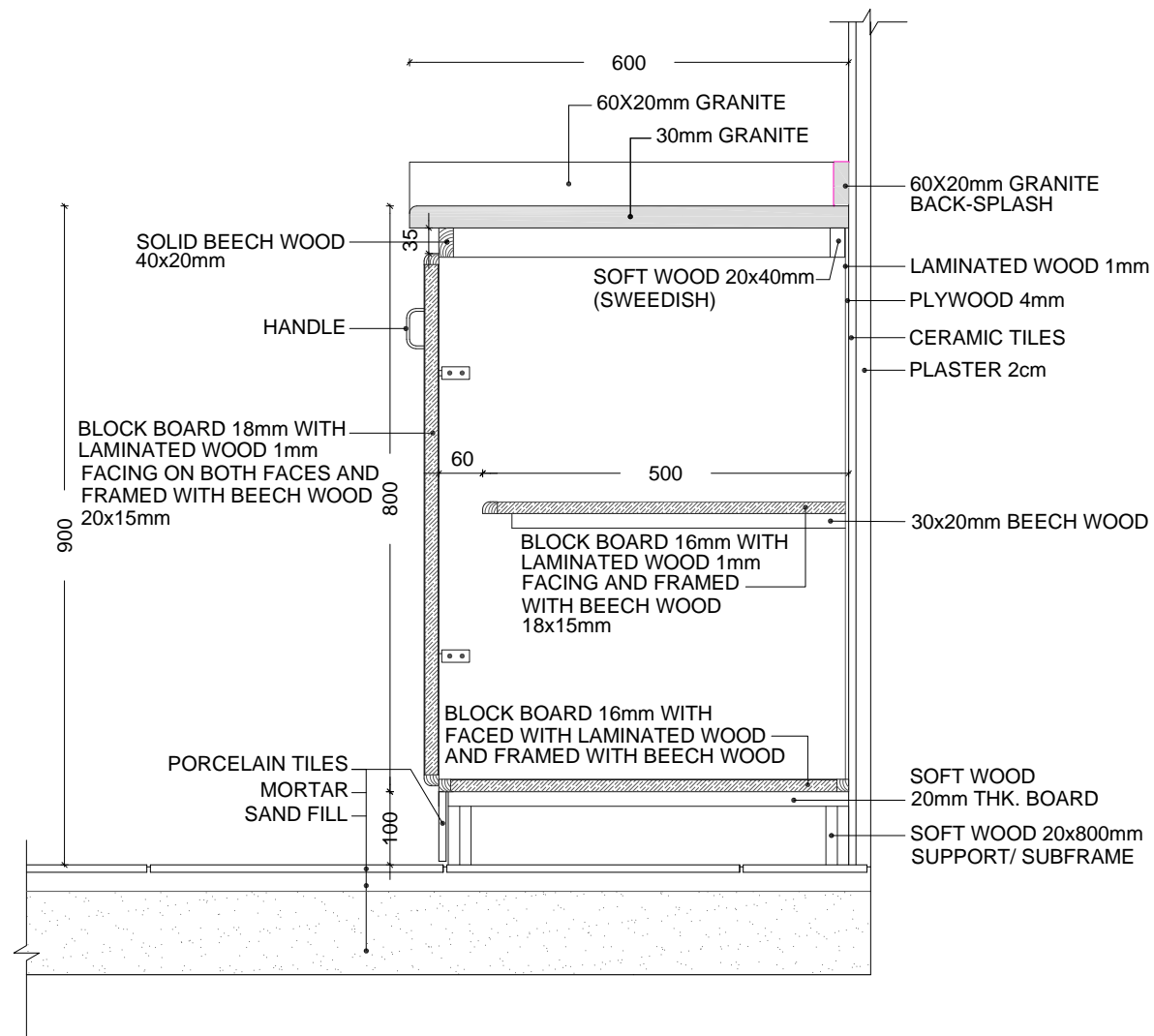
TEACHER WORKSTATION FRONT ELEVATION
 03 SCALE 1 : 25

REV.	DATE	REMARKS



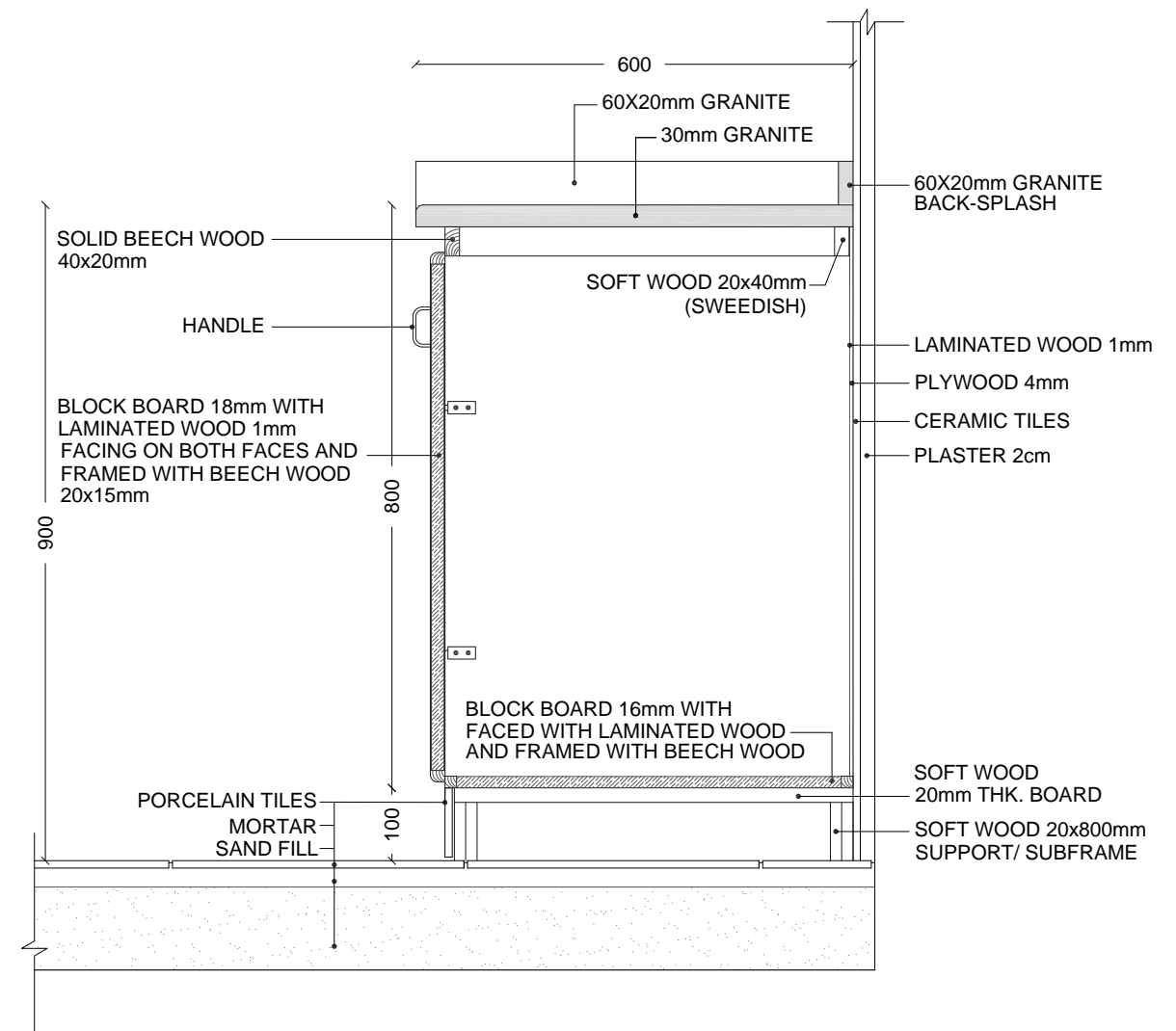
BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	REVISION No. :
FIXED FURNITURE DETAILS TYPICAL TEACHERS' CENTER TEACHER WORKSTATION		H.B.	0
		Checked: M.Sh.	Approved: S.B.
		Date: June 2020	SCALE: 1:25
			SHEET NUMBER: FFD-11



KITCHENETTE LOWER CABINET DETAIL 1

01 SCALE 1 : 10



KITCHENETTE LOWER CABINET DETAIL 2

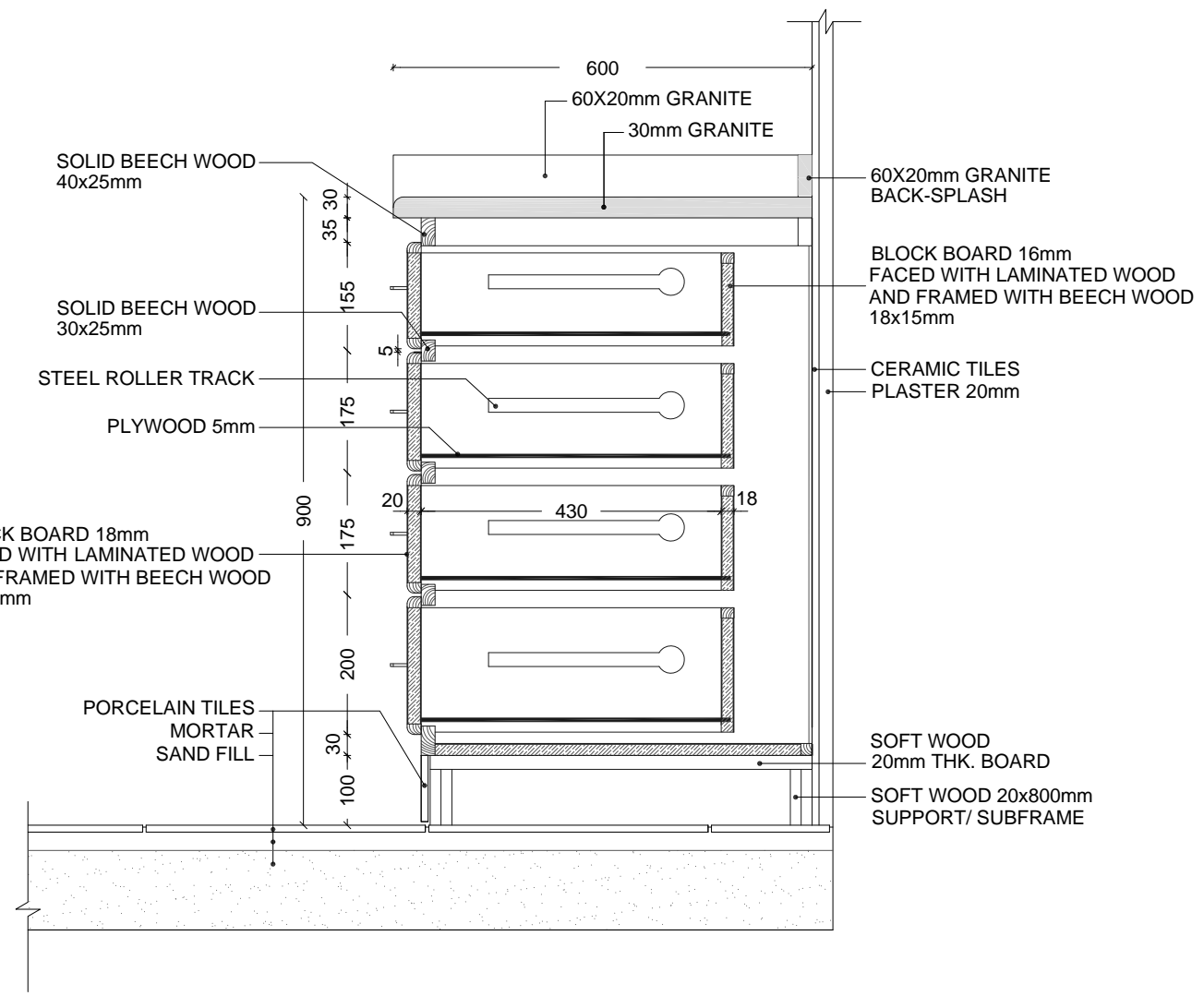
02 SCALE 1 : 10

REV.	DATE	REMARKS

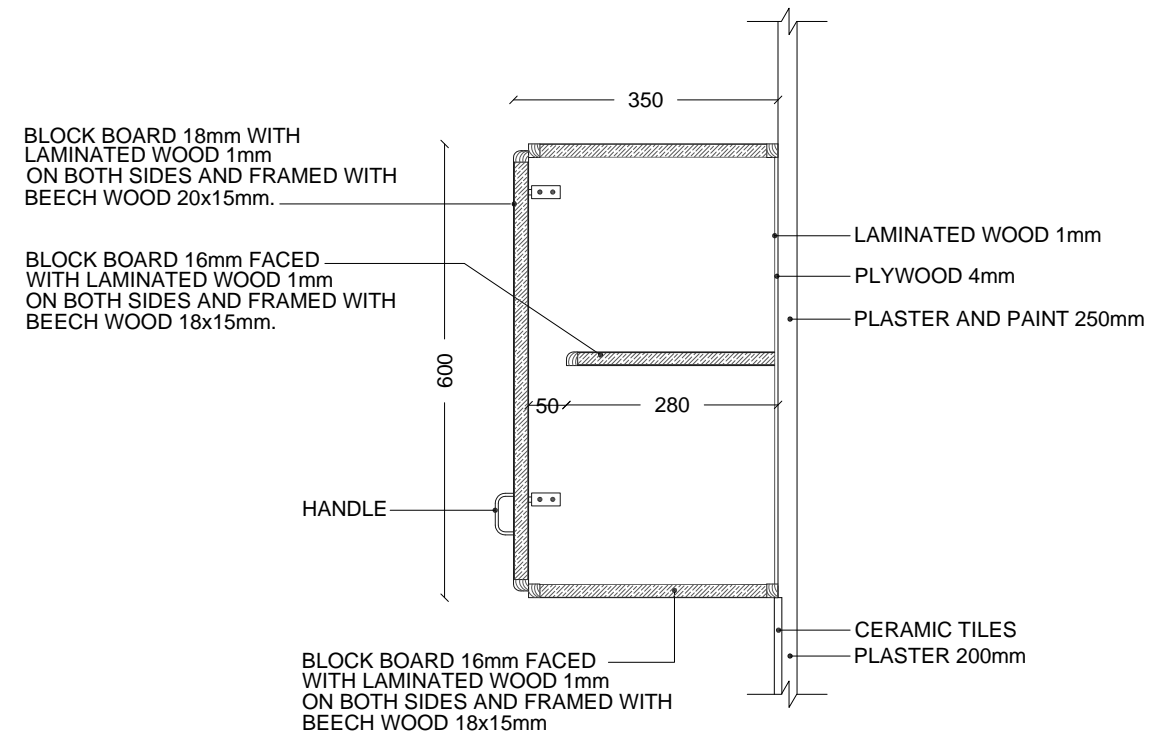


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

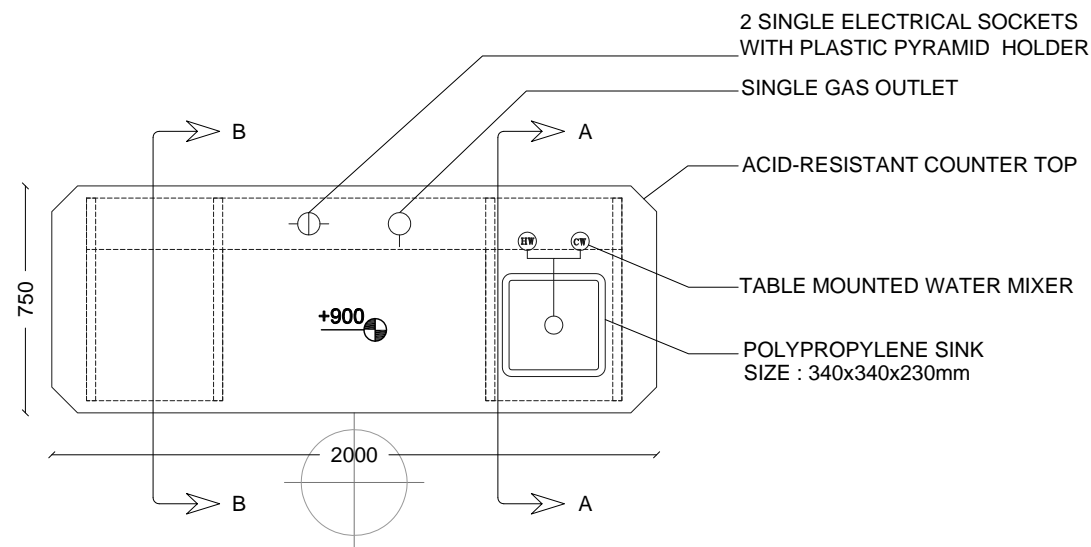
DRAWING NAME:		DESIGN:	REVISION No. :
TYPICAL KITCHENETTE CABINETS DETAILS		H.B.	0
		Drawn: Engicon	
		Checked: M.Sh.	Approved: S.B.
		Date: June 2020	SCALE: 1:10
			SHEET NUMBER: FFD-12



01 **KITCHENETTE DRAWERS UNIT DETAIL**
SCALE 1 : 10

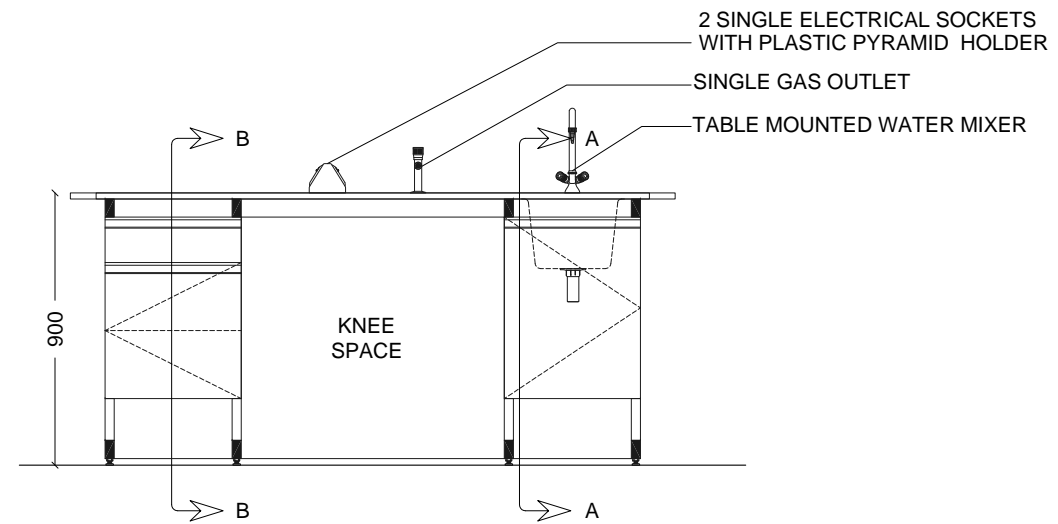


02 **KITCHENETTE UPPER CABINET DETAIL**
SCALE 1 : 10



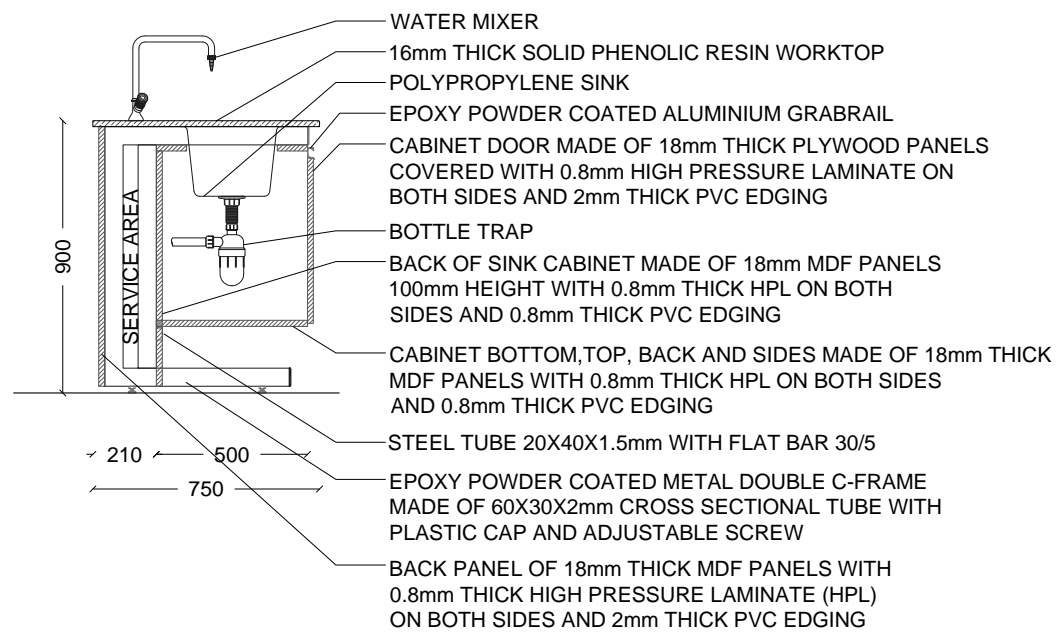
LAB TEACHER DEMO. TABLE PLAN

01 SCALE 1:25



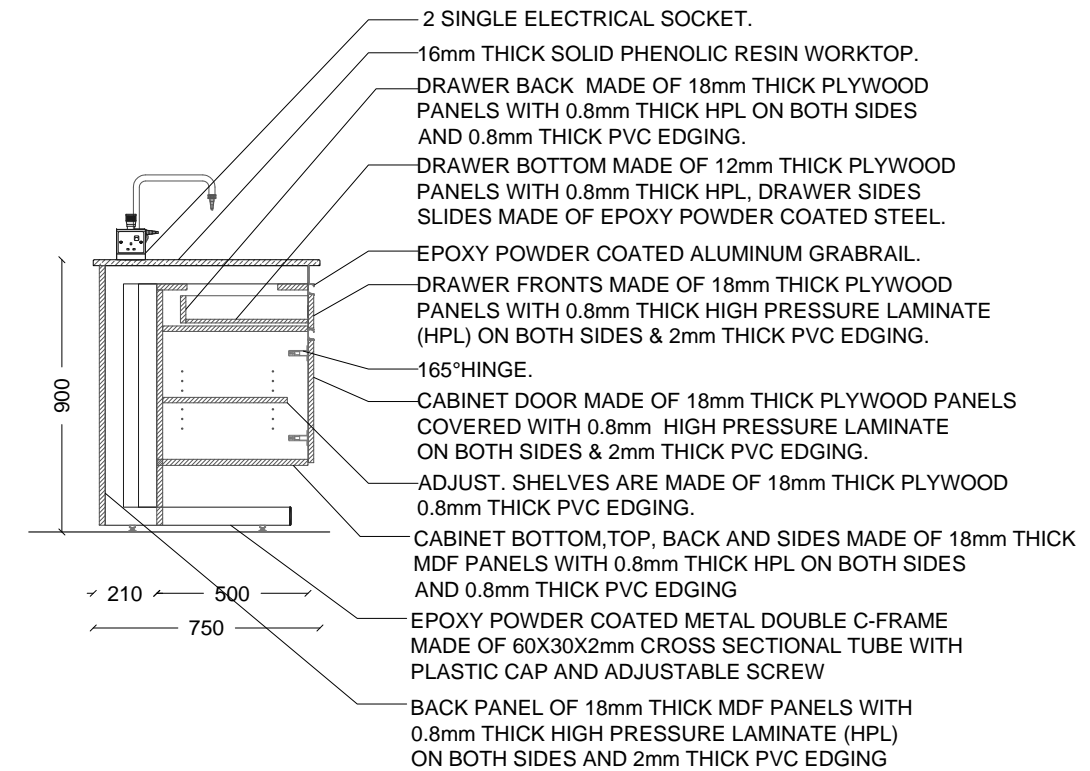
LAB TEACHER DEMO. TABLE FRONT ELEVATION

02 SCALE 1:25



LAB TEACHER DEMO. TABLE SECTION A-A

03 SCALE 1:25



LAB TEACHER DEMO. TABLE SECTION B-B

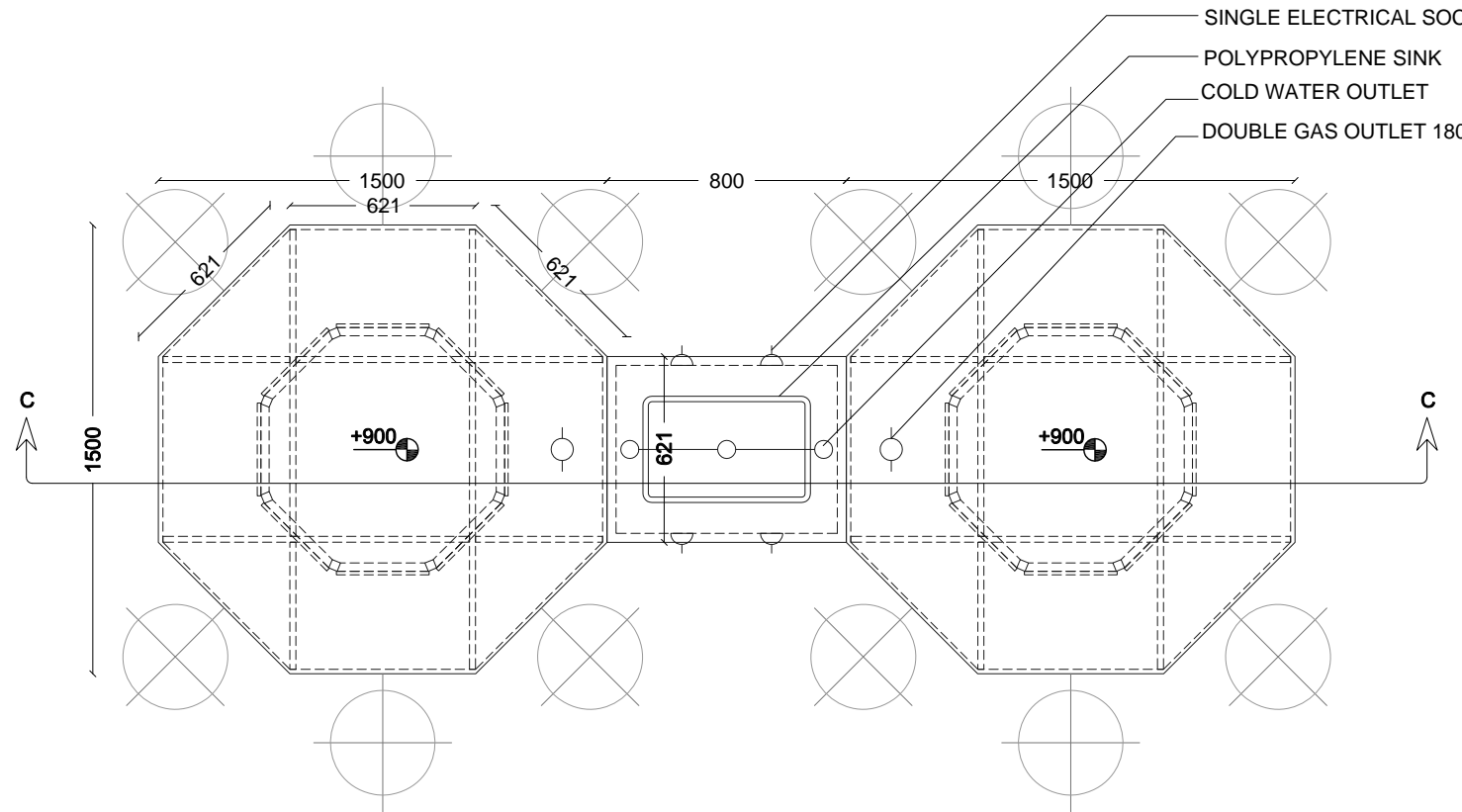
04 SCALE 1:25

REV.	DATE	REMARKS



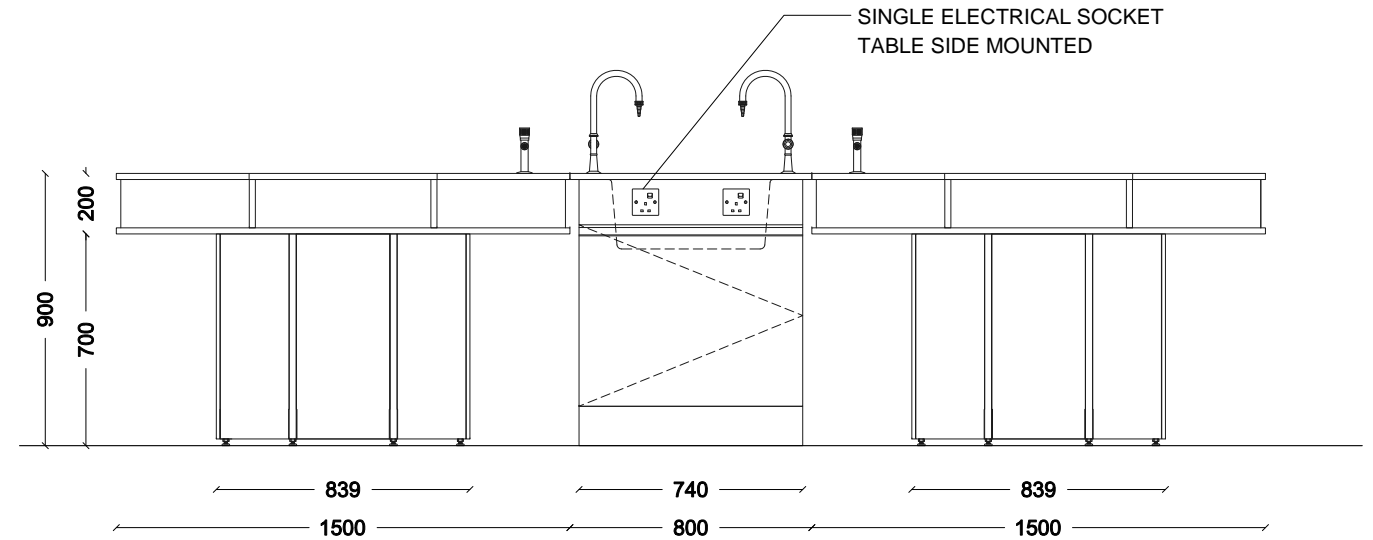
BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:		DESIGN:	REVISION No.:
TYPICAL SCIENCE LAB TEACHER DEMO. TABLE		H.B.	0
		Checked: M.Sh.	SHEET NUMBER:
		Approved: S.B.	FFD-14
		Date: June 2020	SCALE: 1:25



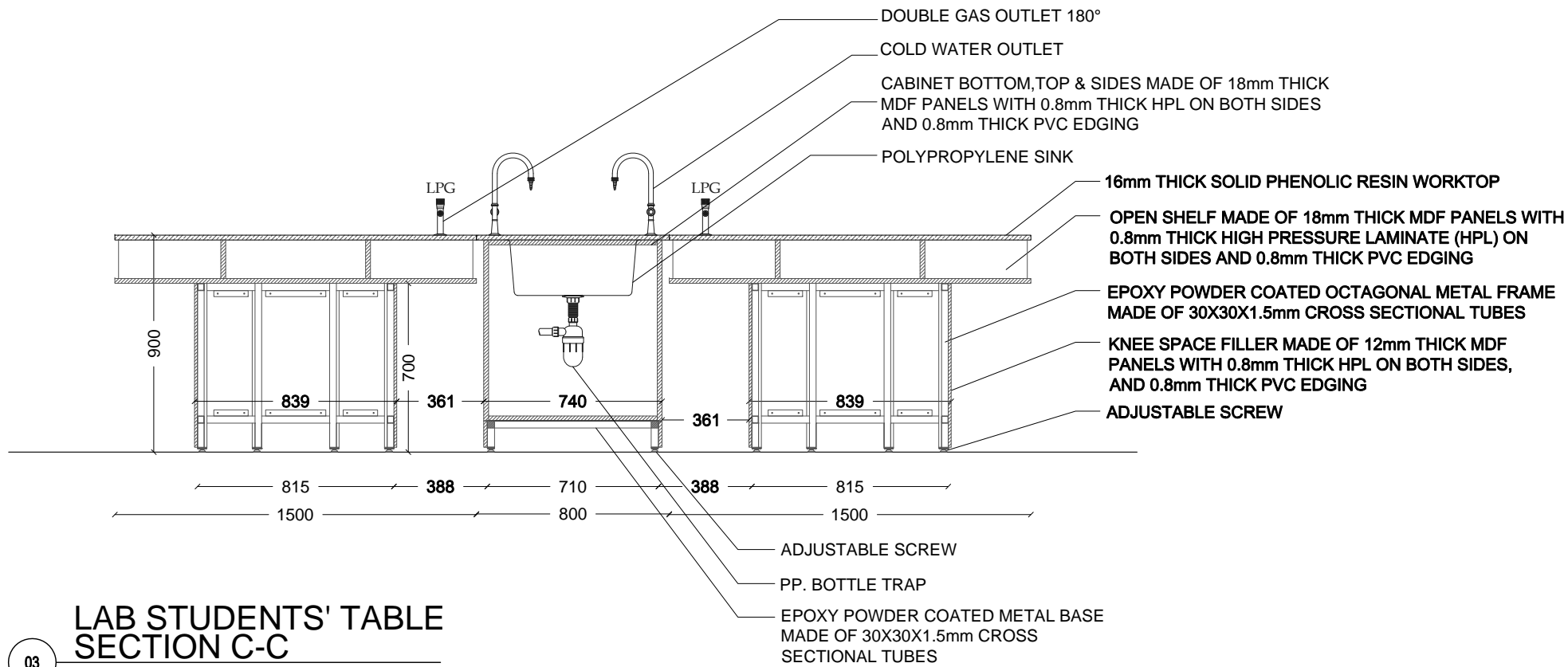
LAB STUDENTS' TABLE PLAN

01 SCALE 1 : 25



LAB STUDENTS' TABLE FRONT ELEVATION

02 SCALE 1 : 25



LAB STUDENTS' TABLE SECTION C-C

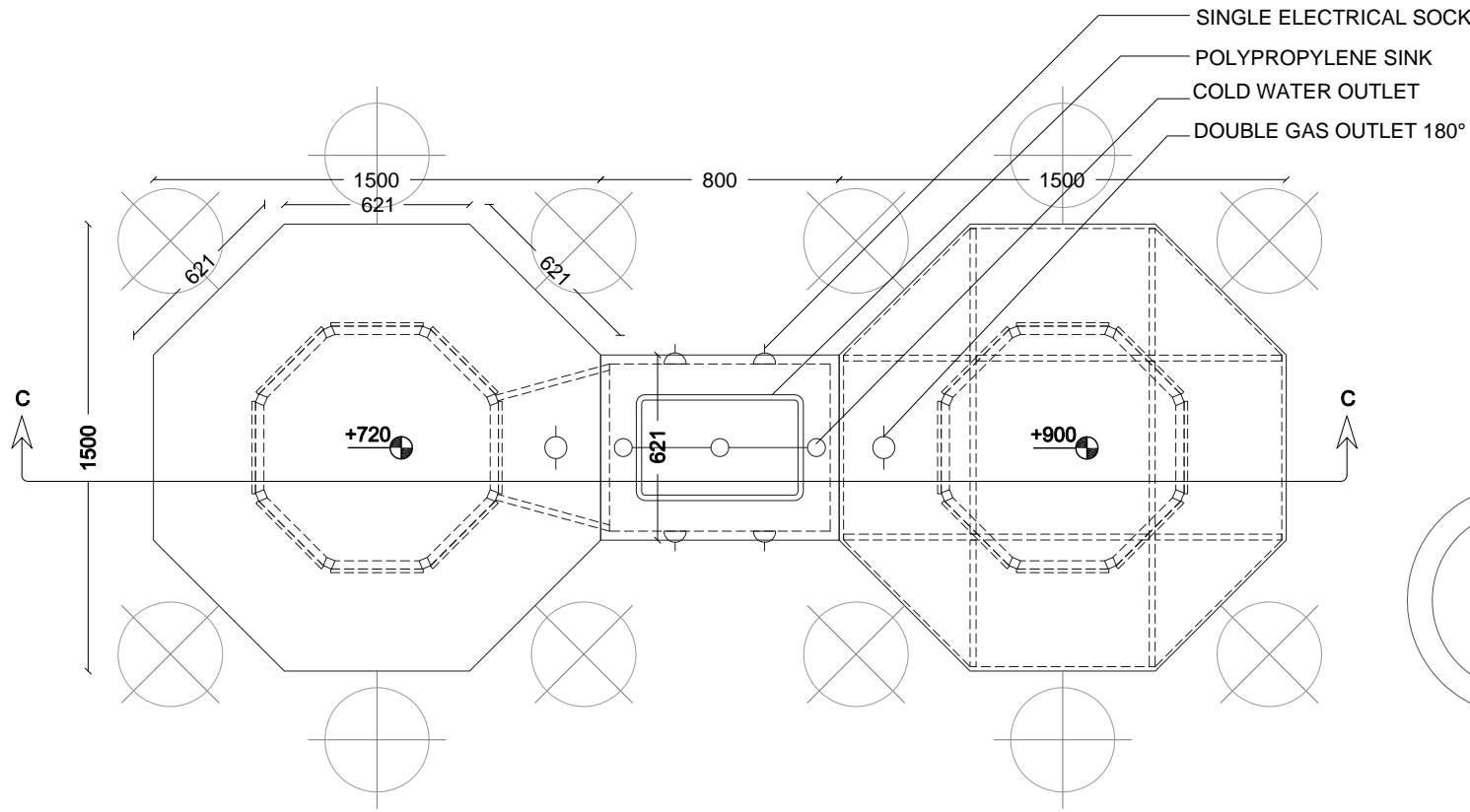
03 SCALE 1 : 25

REV.	DATE	REMARKS



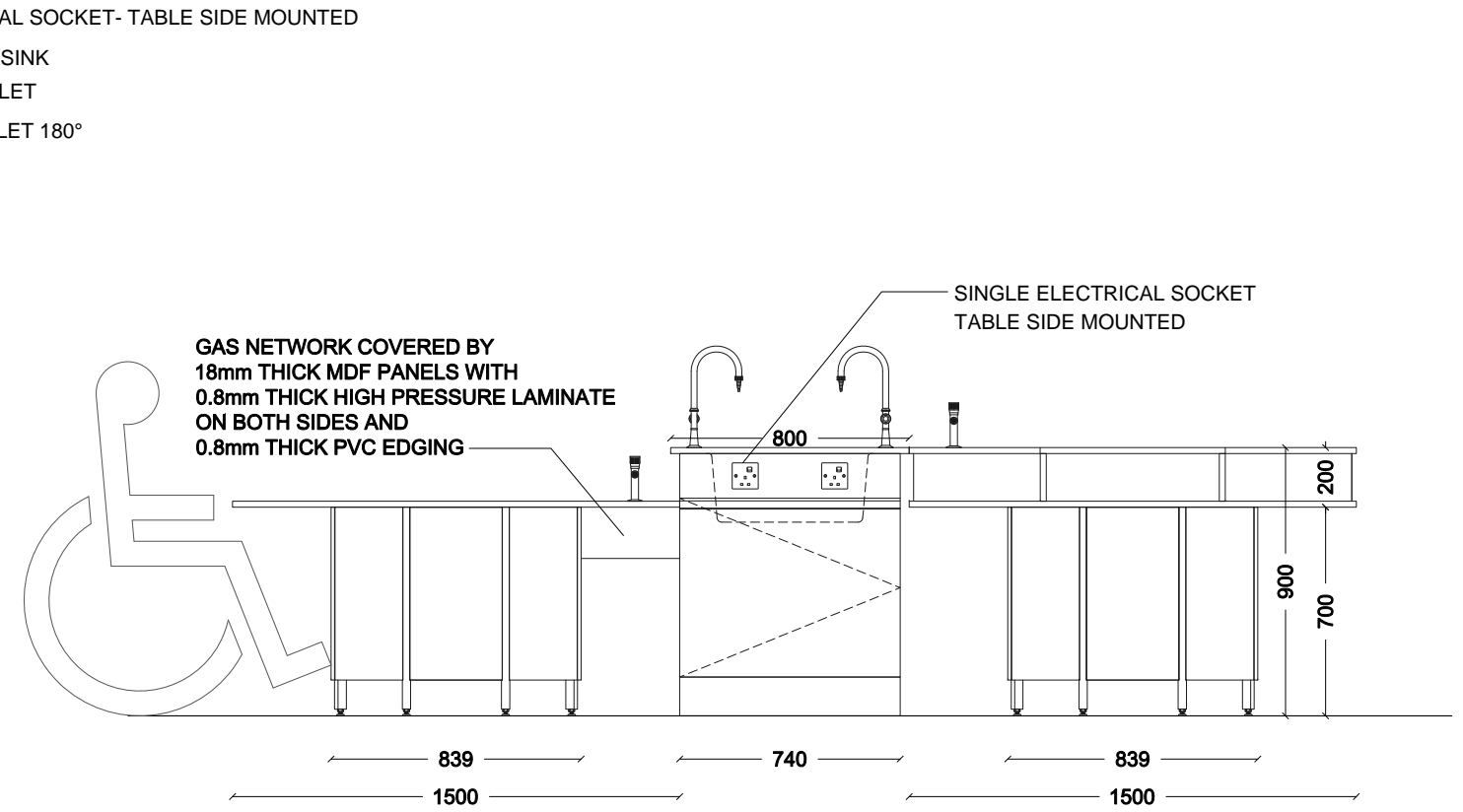
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
TYPICAL SCIENCE LAB STUDENTS' TABLE		H.B.	Engicon	0
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		M.Sh.	S.B.	FFD-15
		Date:	SCALE:	
		June 2020	1:25	



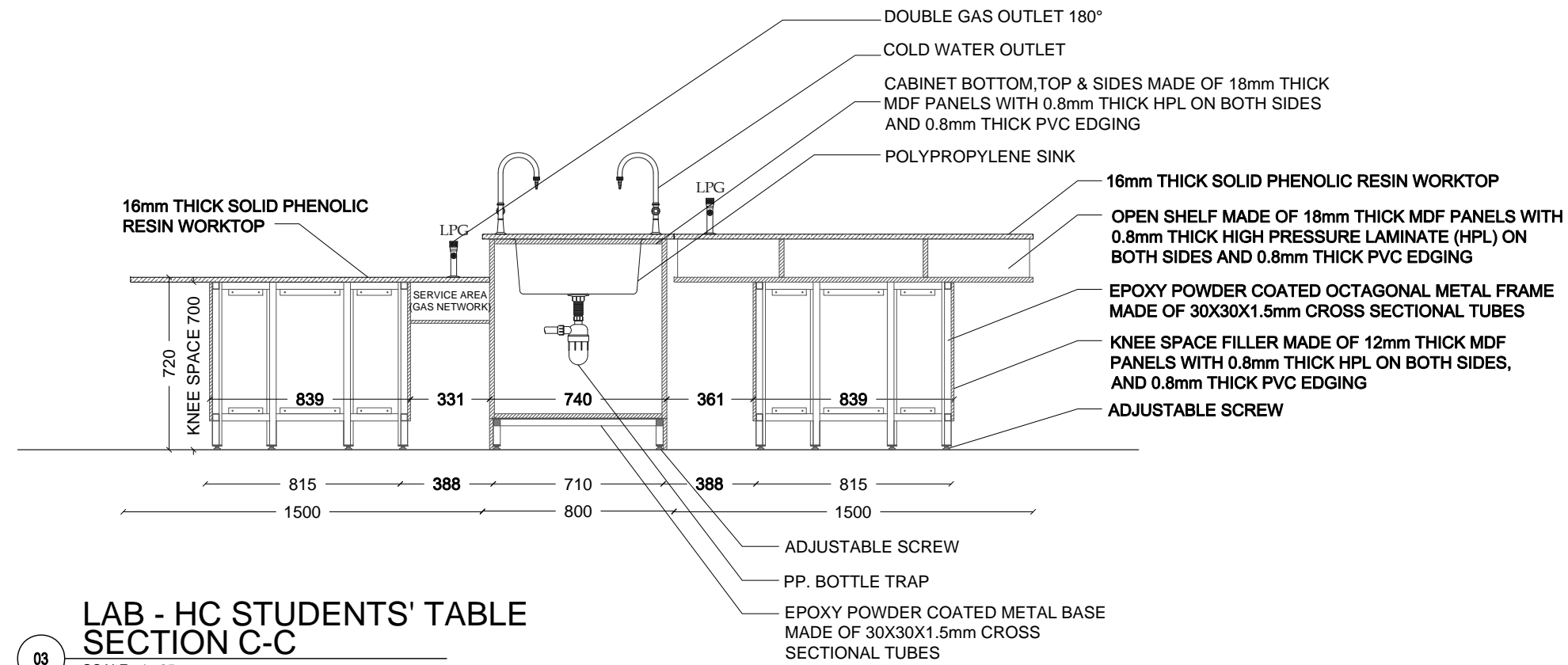
LAB - HC STUDENTS' TABLE PLAN

01 SCALE 1 : 25



LAB - HC STUDENTS' TABLE FRONT ELEVATION

02 SCALE 1 : 25



LAB - HC STUDENTS' TABLE SECTION C-C

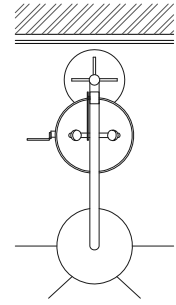
03 SCALE 1 : 25

REV.	DATE	REMARKS



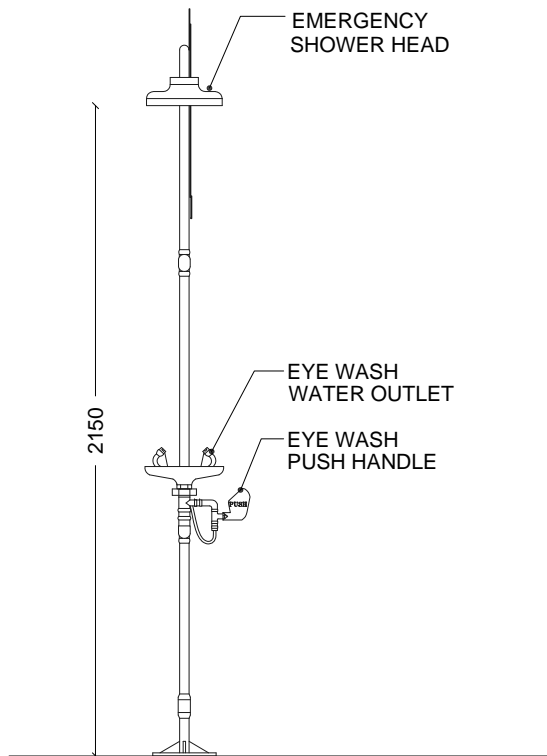
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No. :
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		M.Sh.	S.B.	FFD-15A
		Date:	SCALE :	
		June 2020	1:25	



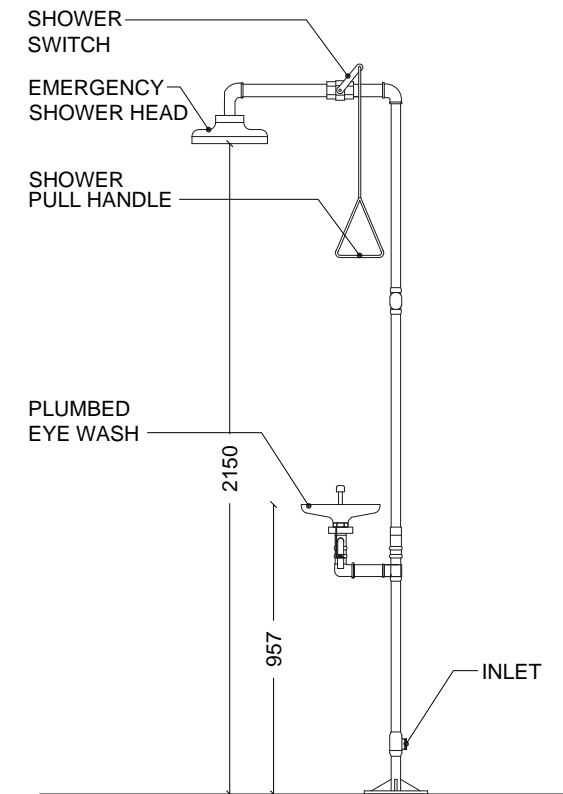
EMERGENCY SHOWER PLAN

01 SCALE 1 : 25



EMERGENCY SHOWER SECTION C-C

03 SCALE 1 : 25



EMERGENCY SHOWER FRONT ELEVATION

02 SCALE 1 : 25

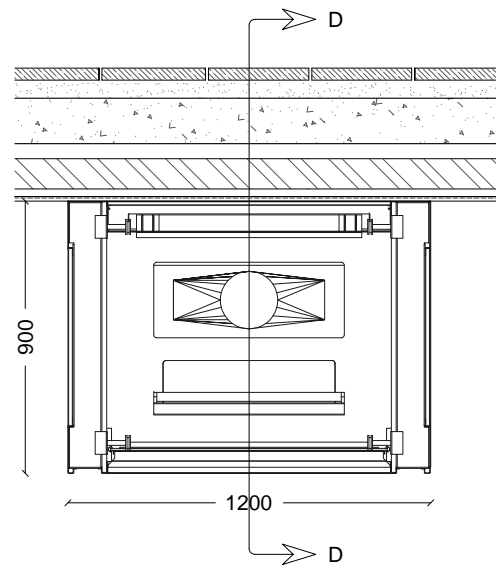
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL SCIENCE LAB
EMERGENCY SHOWER

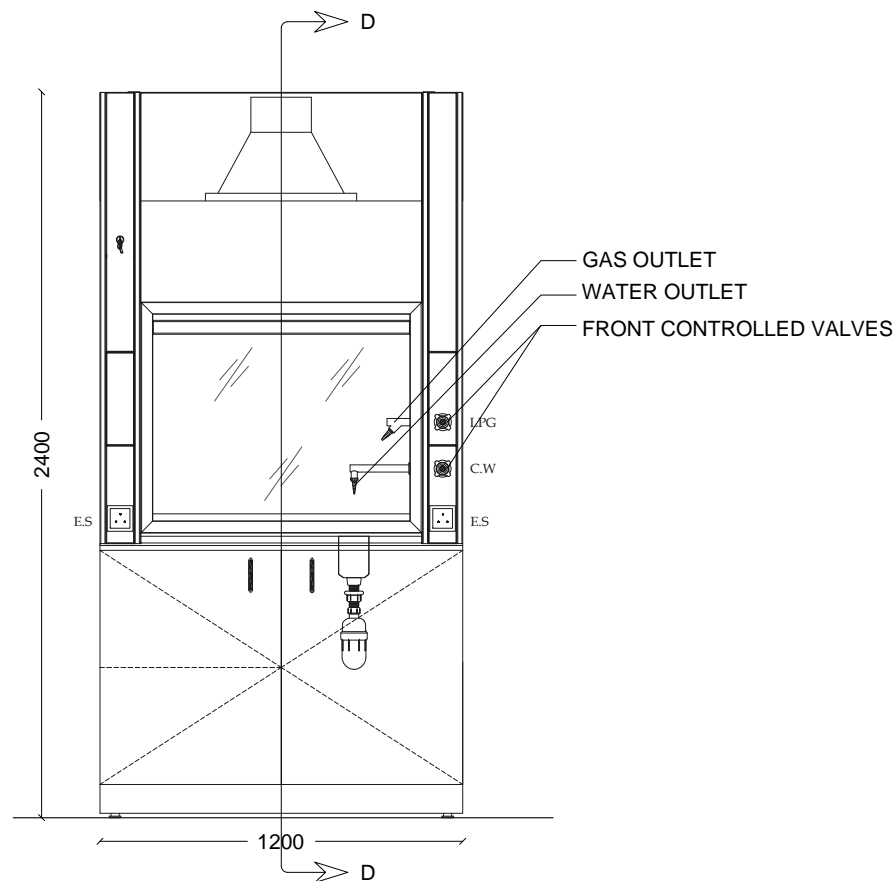
Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: FFD-16
Date: June 2020	SCALE : 1:25	



FUME HOOD PLAN

01

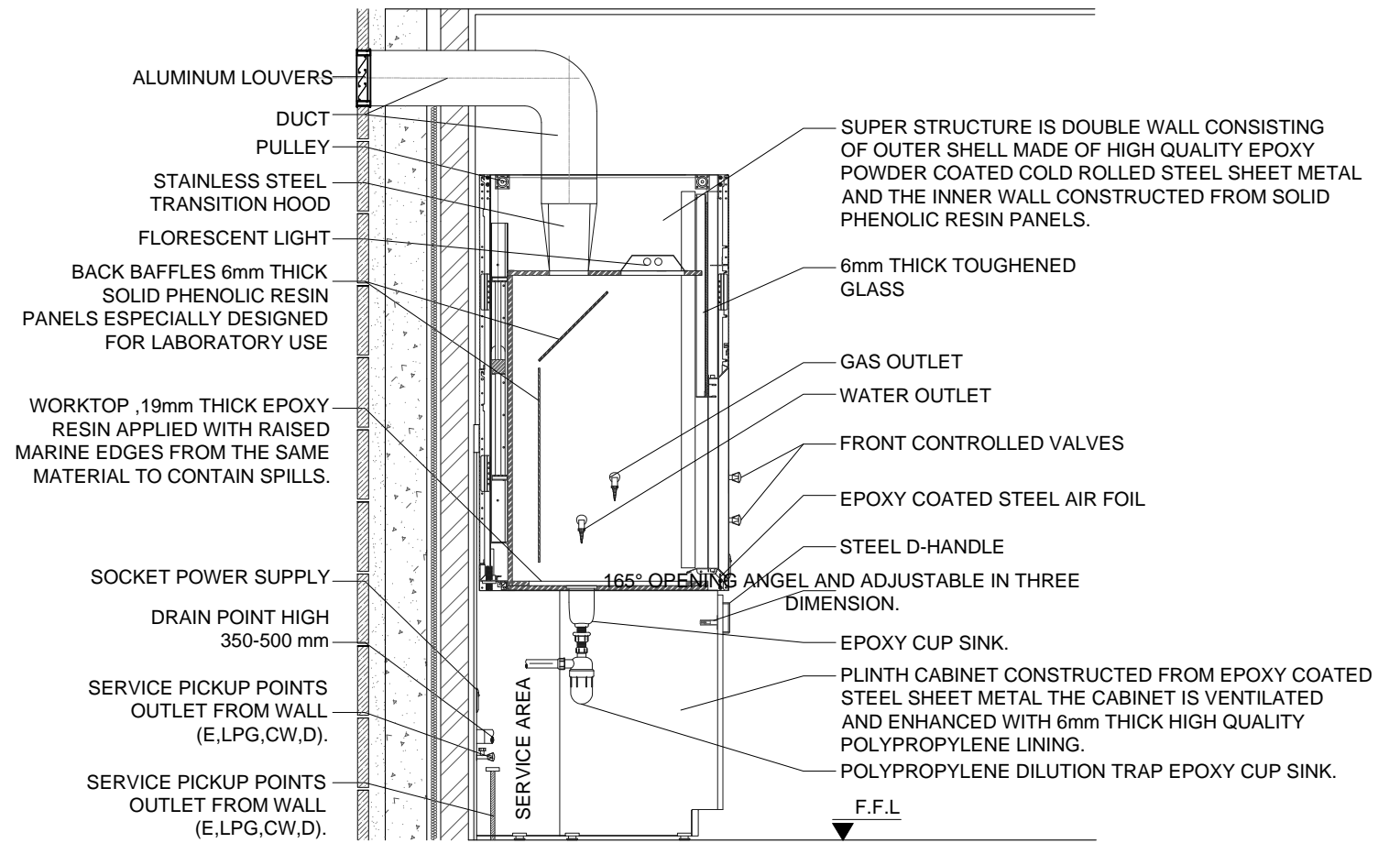
SCALE 1 : 25



FUME HOOD FRONT ELEVATION

02

SCALE 1 : 25



FUME HOOD SECTION D-D

03

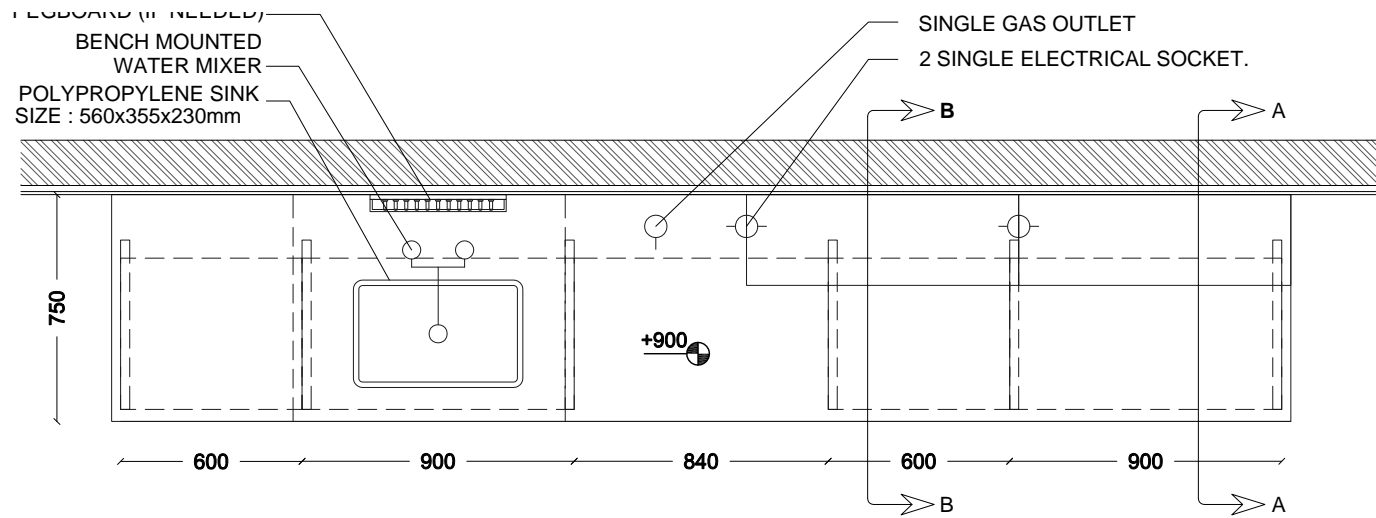
SCALE 1 : 25

REV.	DATE	REMARKS



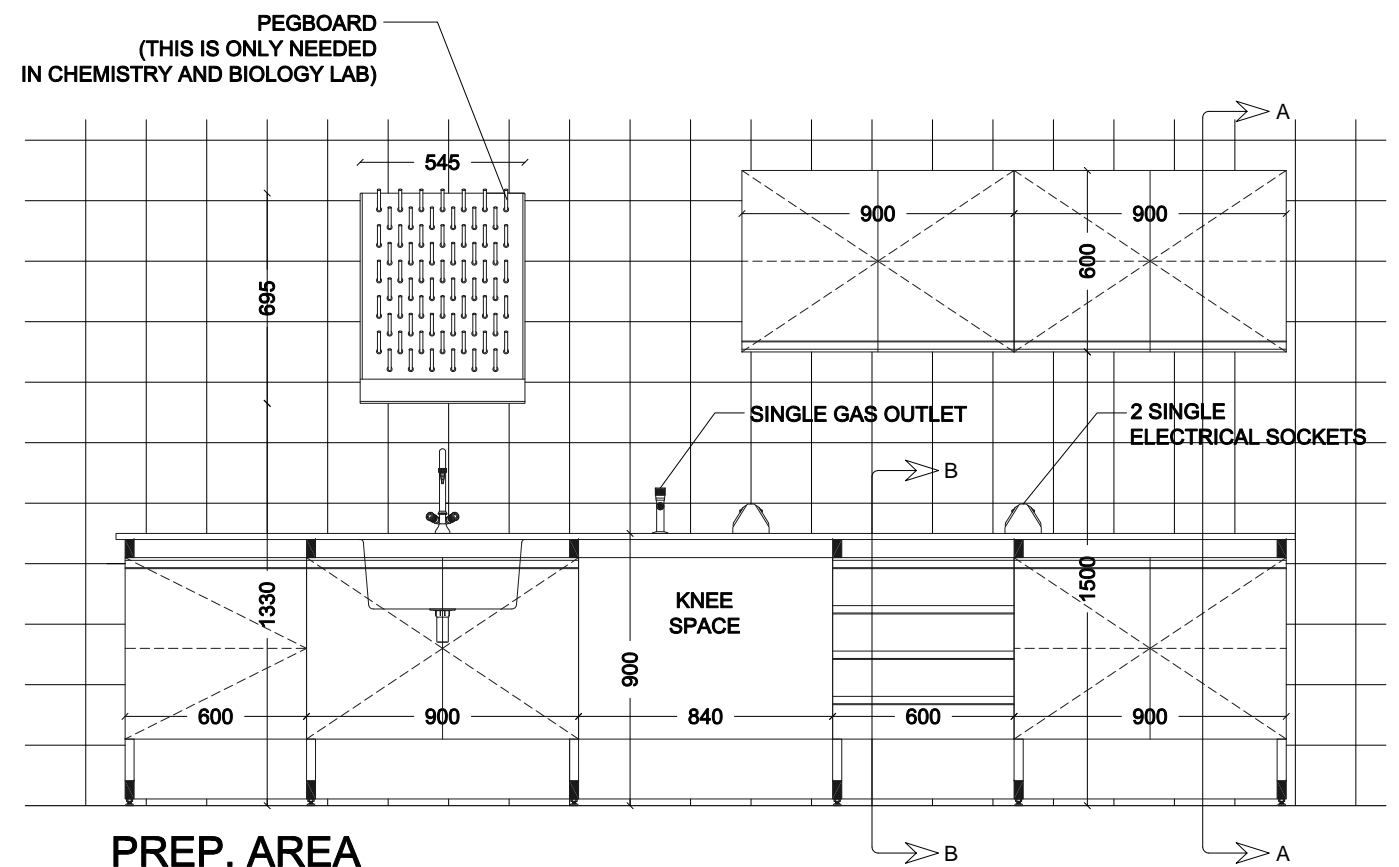
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:		Design: H.B.	Drawn: Engicon	REVISION No. : 0
TYPICAL SCIENCE LAB FUME HOOD		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
		Date: June 2020	SCALE : 1:25	FFD-17



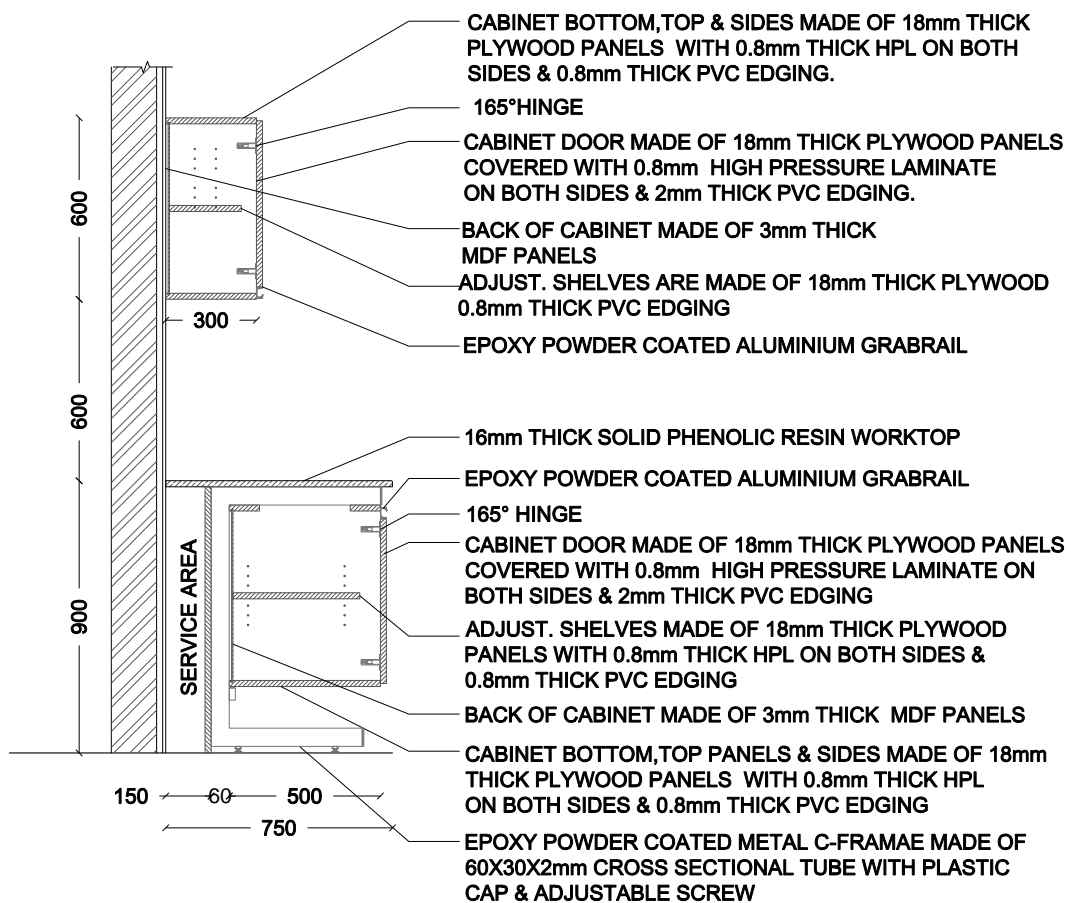
PREP. AREA PLAN

SCALE 1:25



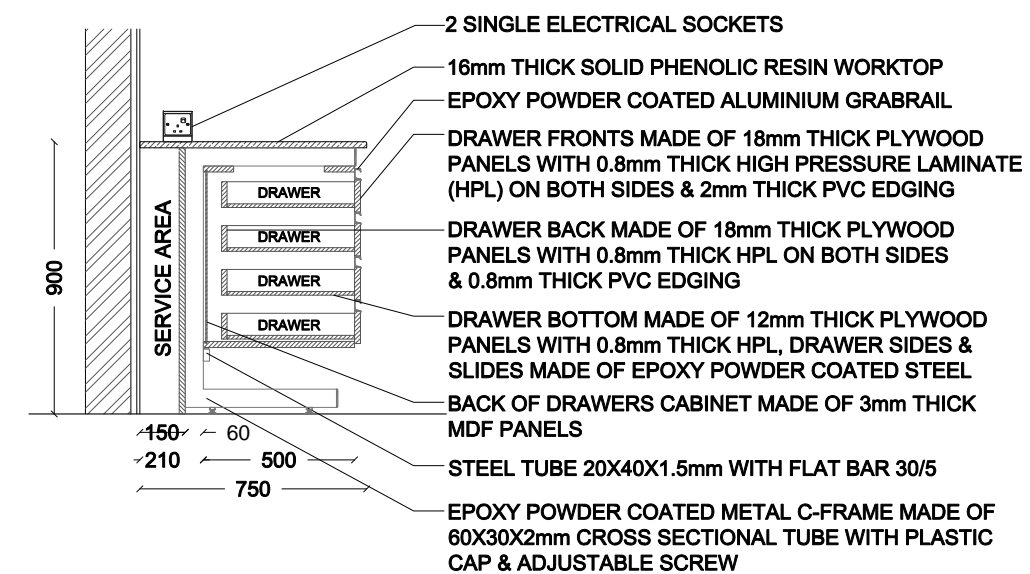
PREP. AREA FRONT ELEVATION

SCALE 1:25



PREP. AREA SECTION A-A

SCALE 1:25



PREP. AREA SECTION B-B

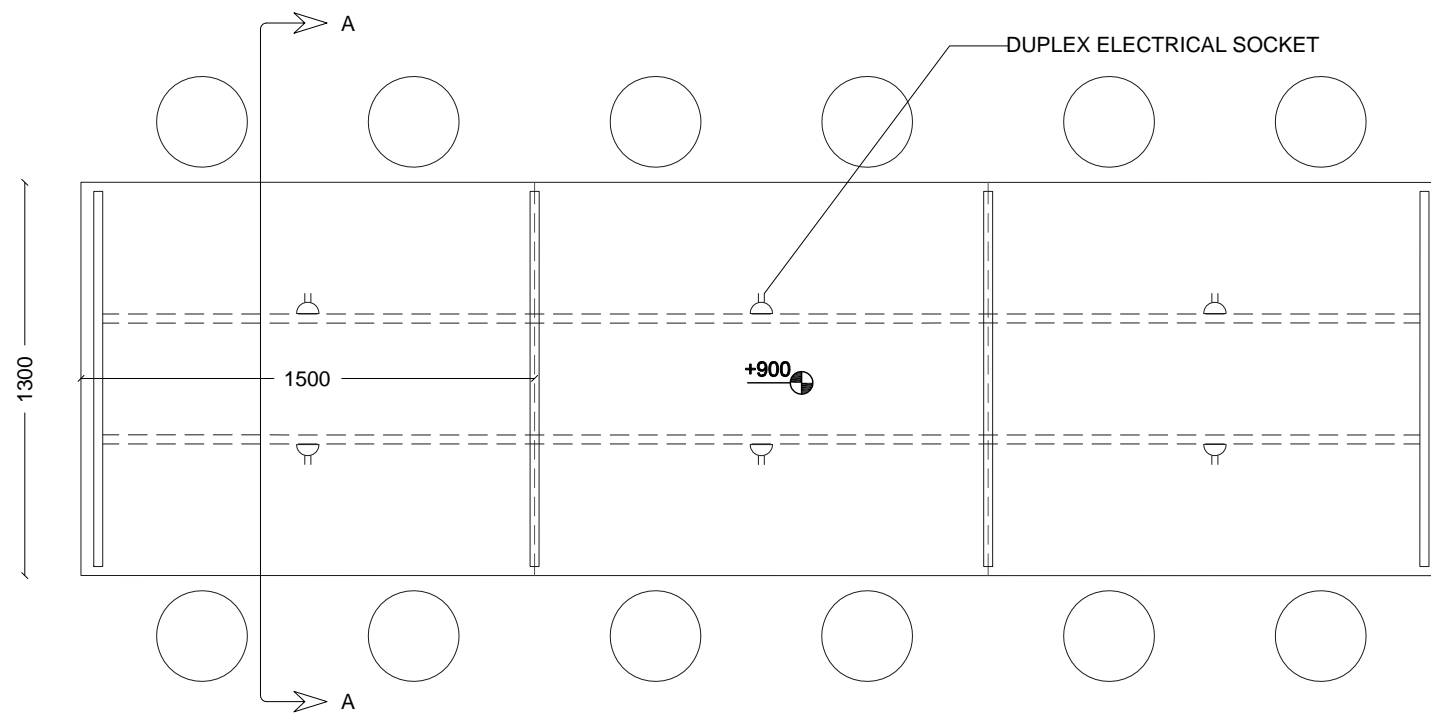
SCALE 1:25

REV.	DATE	REMARKS

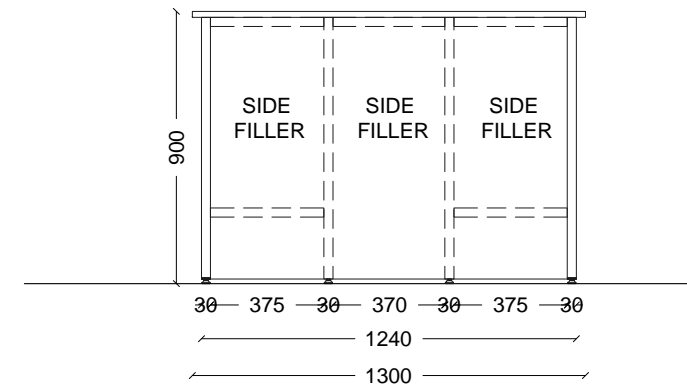


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

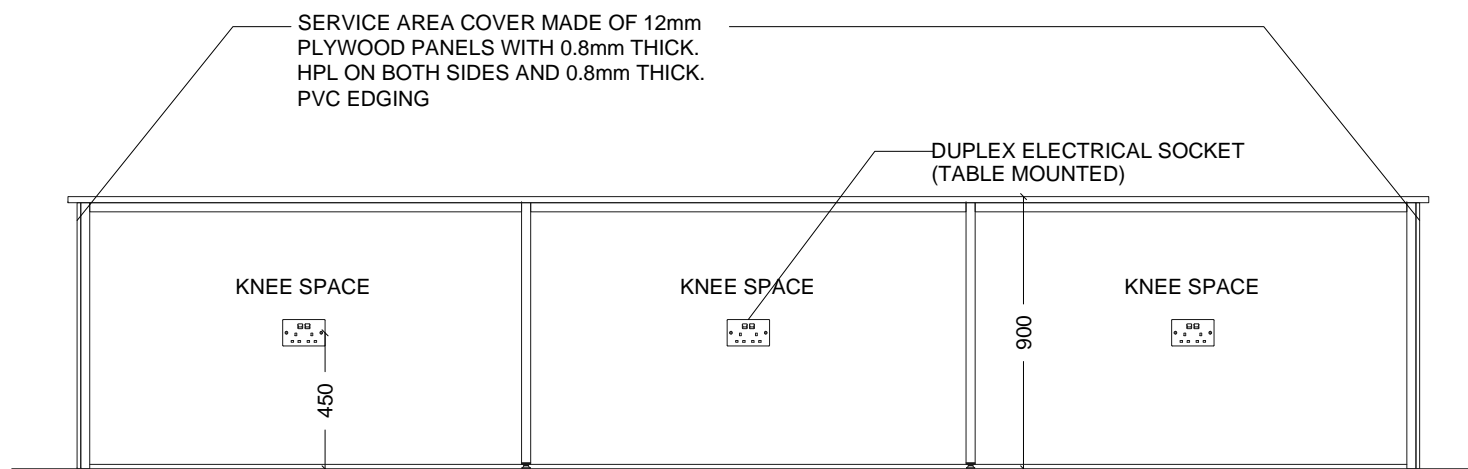
DRAWING NAME: TYPICAL SCIENCE LAB PREP. AREA		Design: H.B.	Drawn: Engicon	REVISION No. : 0
		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: FFD-18
		Date: June 2020	SCALE: 1:25	



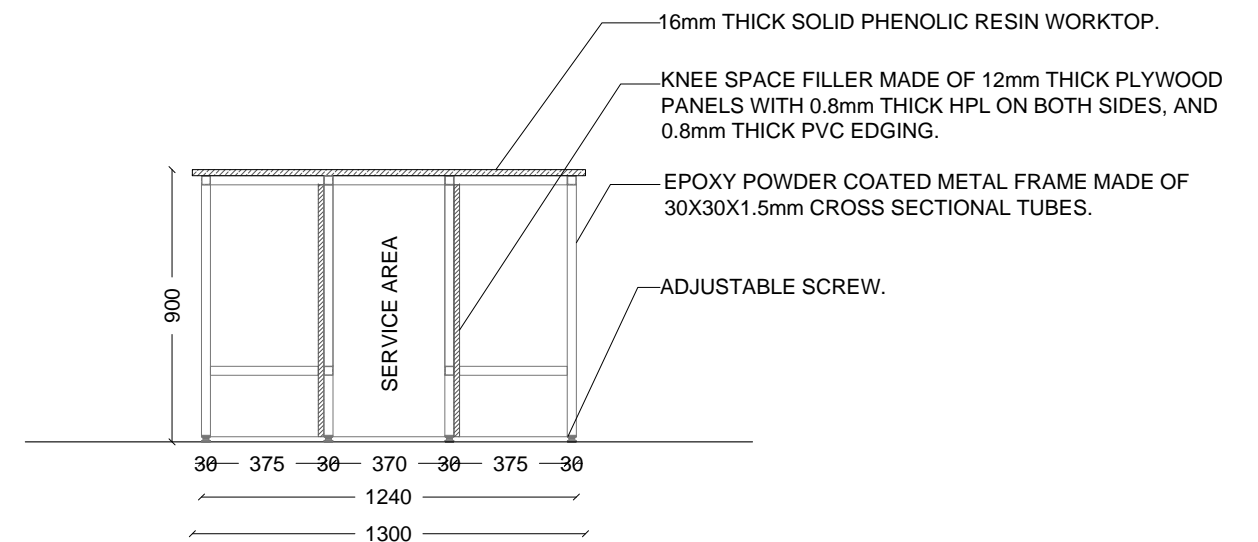
01 VOCATIONAL WORKSHOP:
STUDENT WORK TABLE- PLAN
SCALE 1 : 25



02 VOCATIONAL WORKSHOP:
STUDENT WORK TABLE- SIDE ELEVATION
SCALE 1 : 25



03 VOCATIONAL WORKSHOP:
STUDENT WORK TABLE- FRONT ELEVATION
SCALE 1 : 25



04 VOCATIONAL WORKSHOP:
STUDENT WORK TABLE- SECTION A-A
SCALE 1 : 25

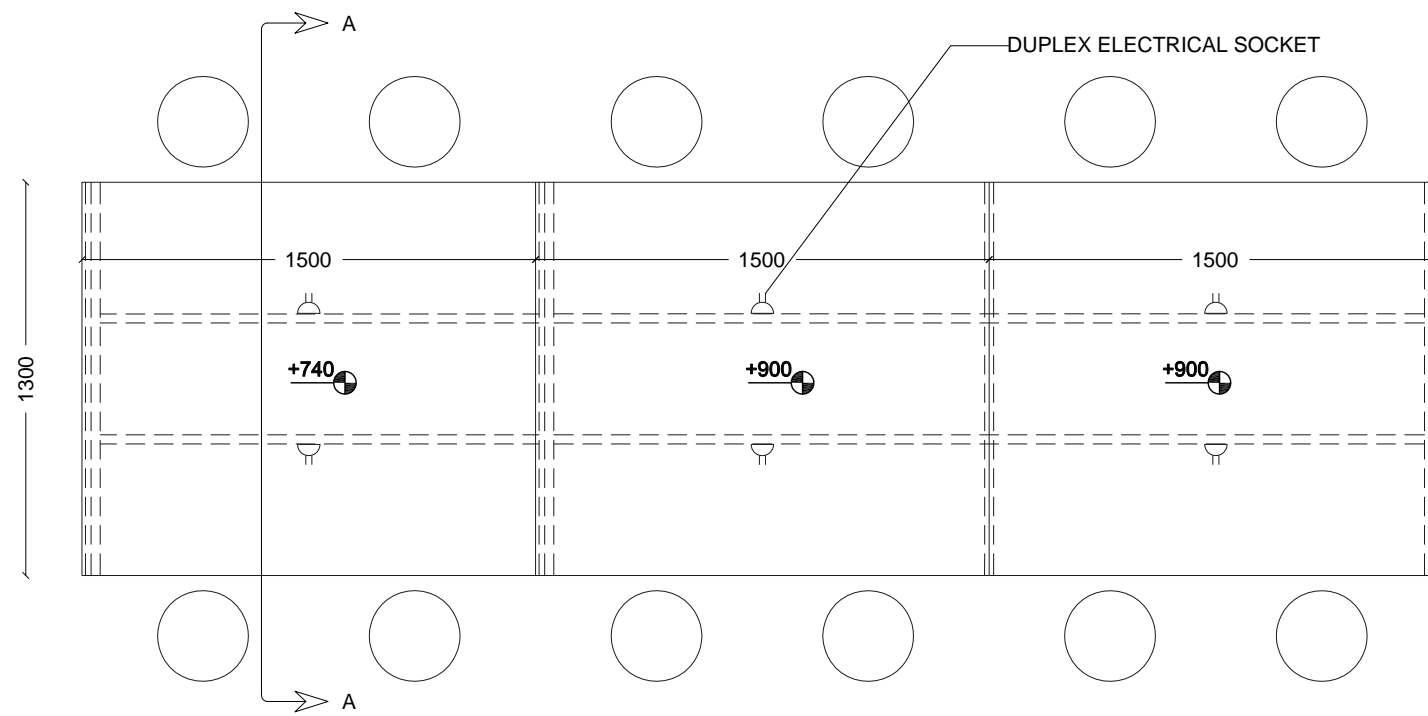
REV.	DATE	REMARKS



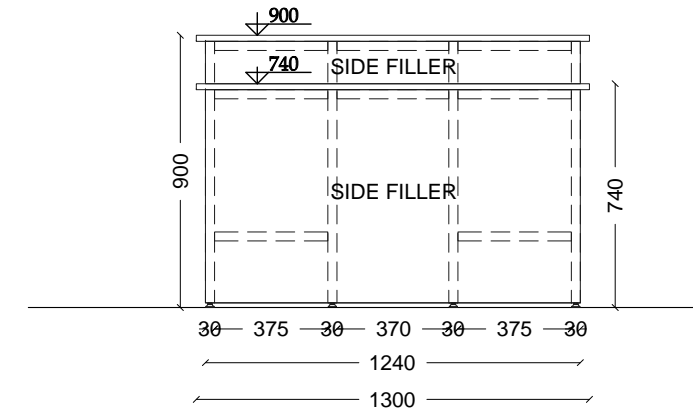
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
VOCATIONAL LAB
STUDENT WORK TABLE

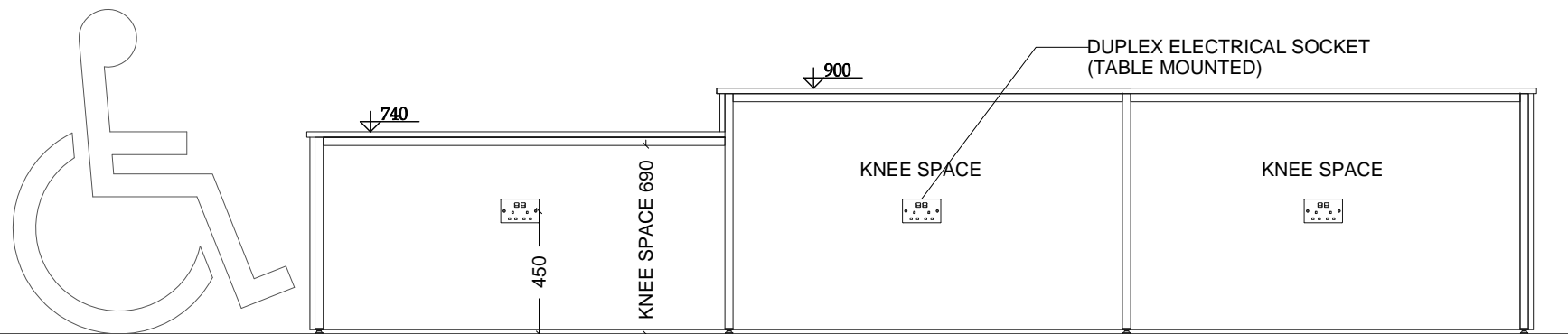
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Date: June 2020	SCALE : 1:25	



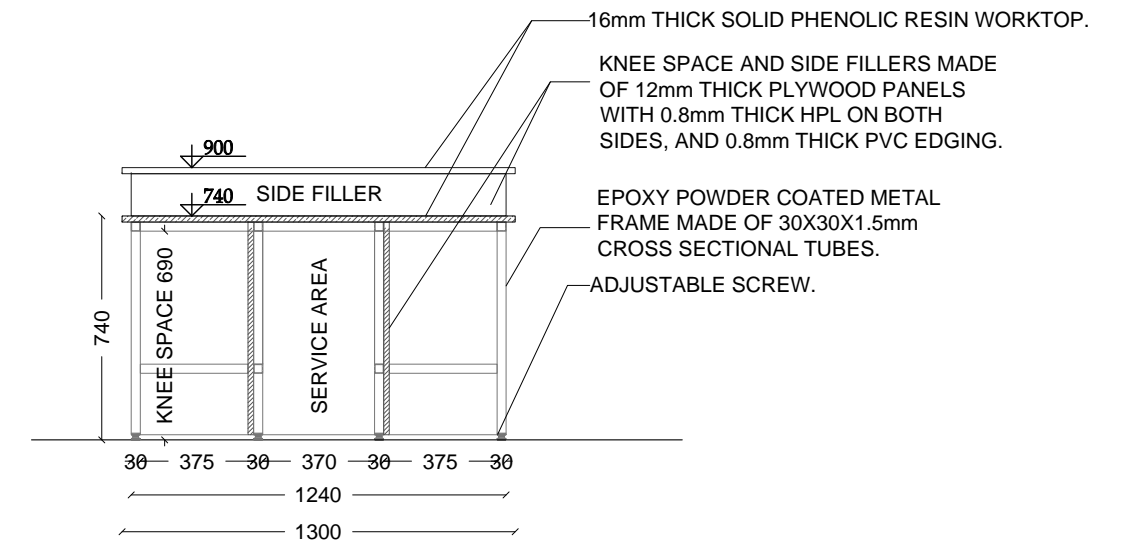
01 VOCATIONAL WORKSHOP:
HC STUDENT WORK TABLE- PLAN
SCALE 1 : 25



02 VOCATIONAL WORKSHOP:
HC STUDENT WORK TABLE- SIDE ELEVATION
SCALE 1 : 25



03 VOCATIONAL WORKSHOP:
HC STUDENT WORK TABLE- FRONT ELEVATION
SCALE 1 : 25



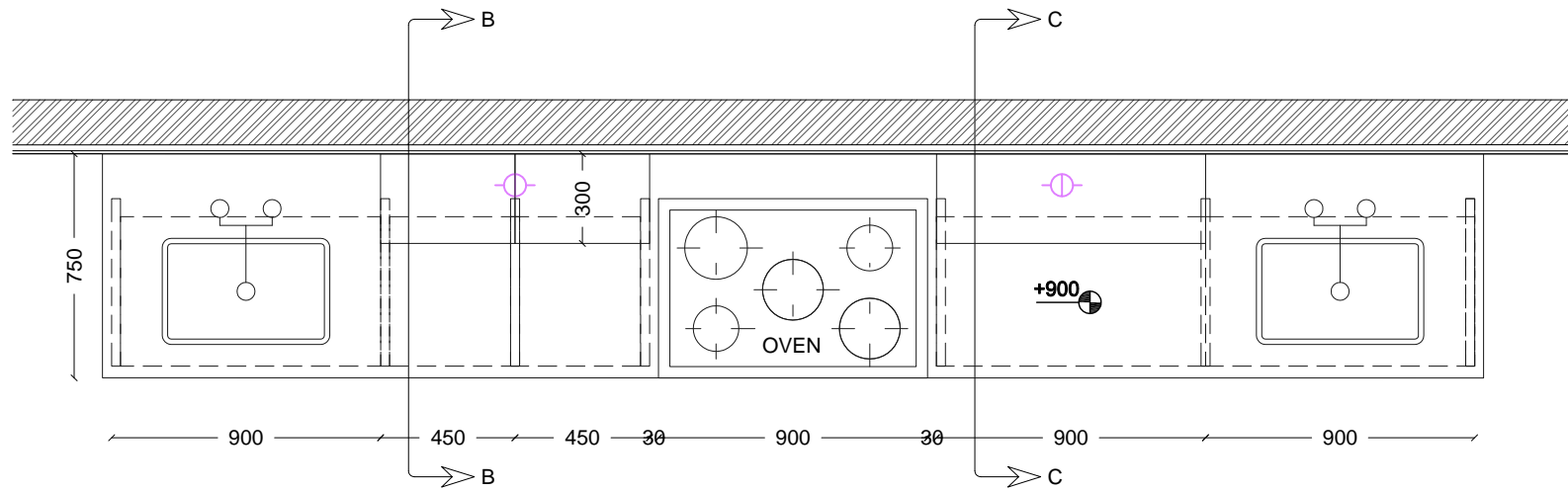
04 VOCATIONAL WORKSHOP:
HC STUDENT WORK TABLE- SECTION A-A
SCALE 1 : 25

REV.	DATE	REMARKS



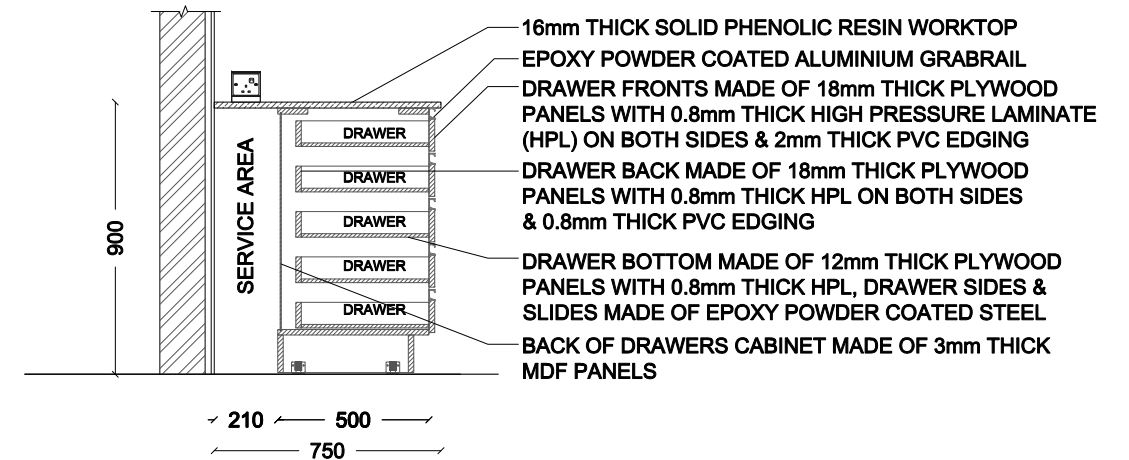
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:		Design:	Drawn:	REVISION No.:
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		Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
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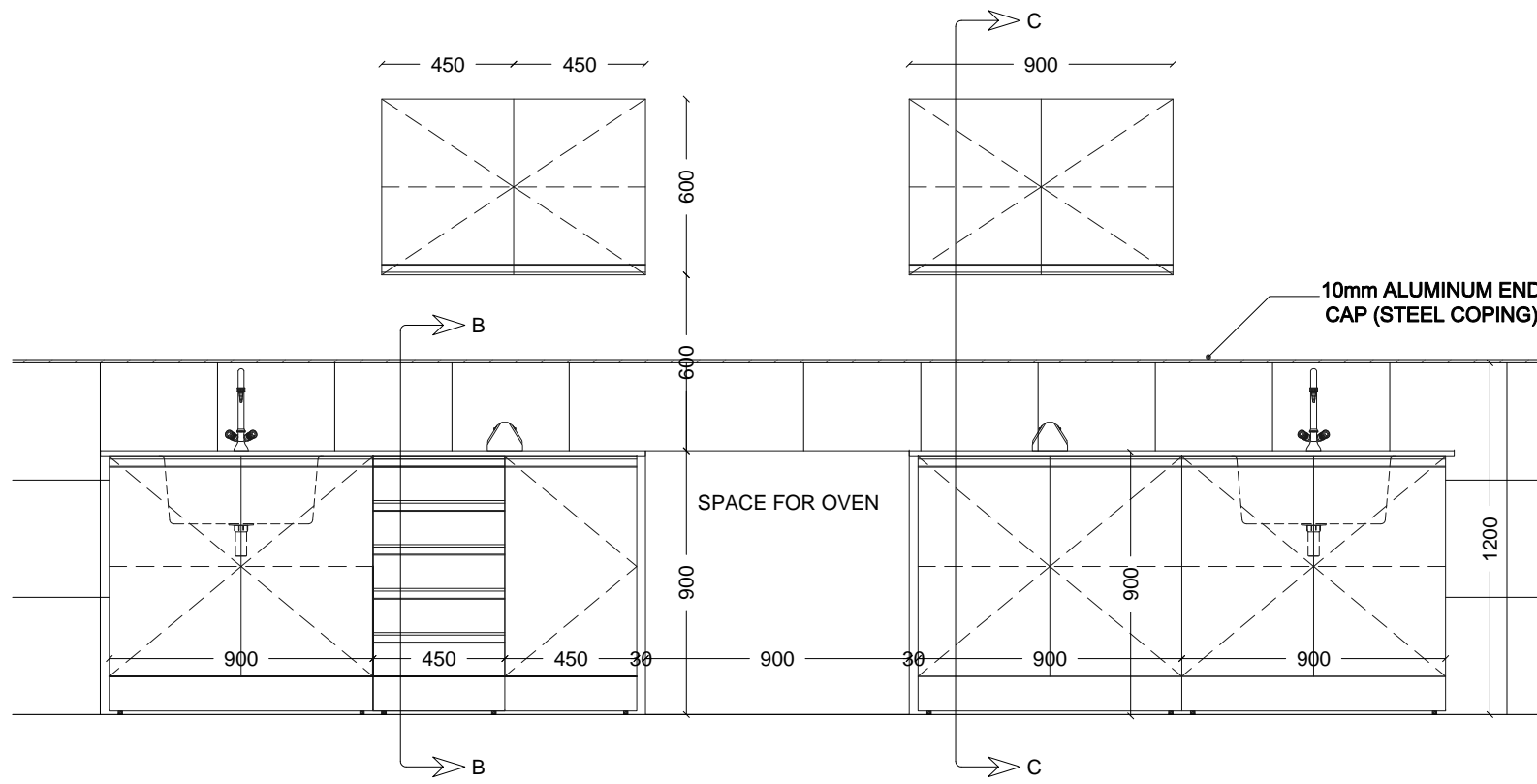
**VOCATIONAL WORKSHOP:
COUNTER/CABINETS- PLAN**

01 SCALE 1 : 25



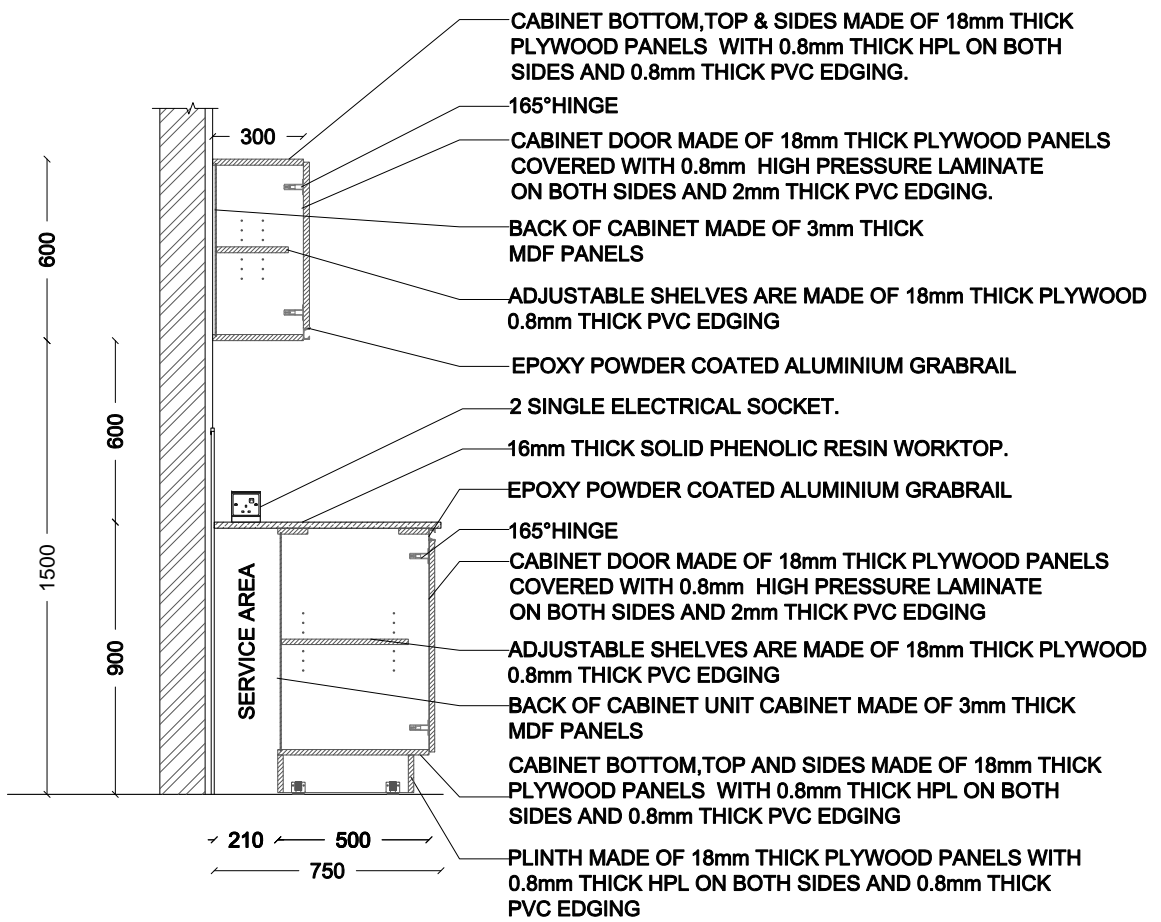
**VOCATIONAL WORKSHOP:
COUNTER/CABINETS- SECTION B-B**

03 SCALE 1 : 25



**VOCATIONAL WORKSHOP:
COUNTER/CABINETS- FRONT ELEVATION**

02 SCALE 1 : 25



**VOCATIONAL WORKSHOP:
COUNTER/CABINETS- SECTION C-C**

04 SCALE 1 : 25

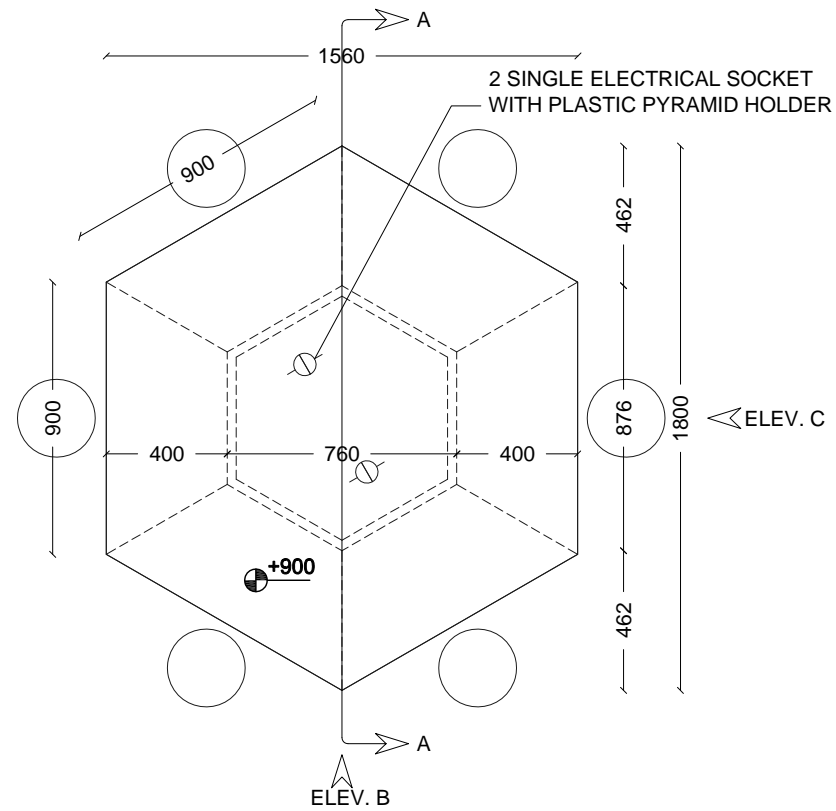
REV.	DATE	REMARKS



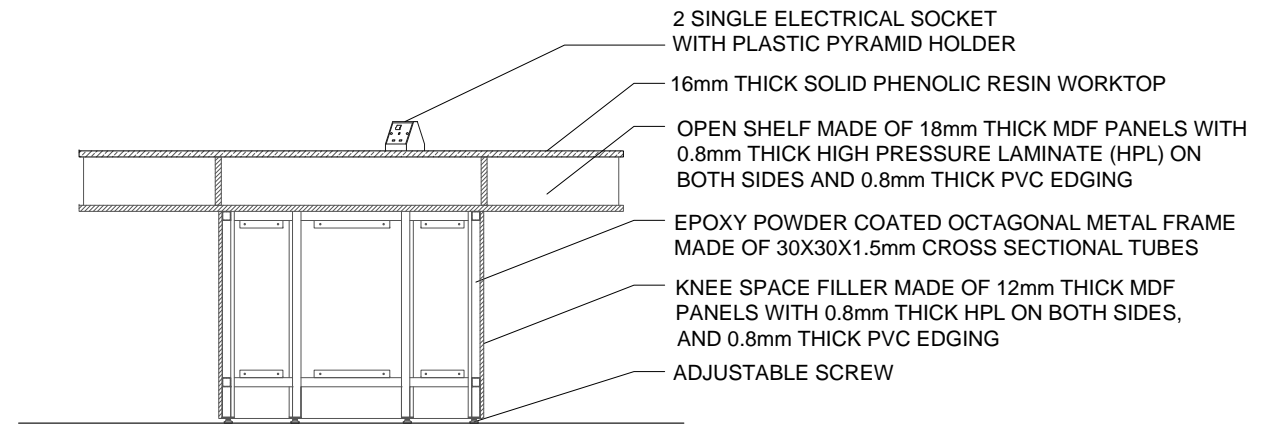
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
VOCATIONAL LAB
COUNTER/CABINETS

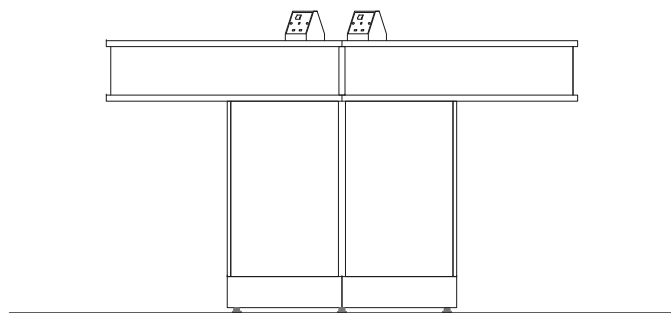
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Date: June 2020	SCALE: 1:25	



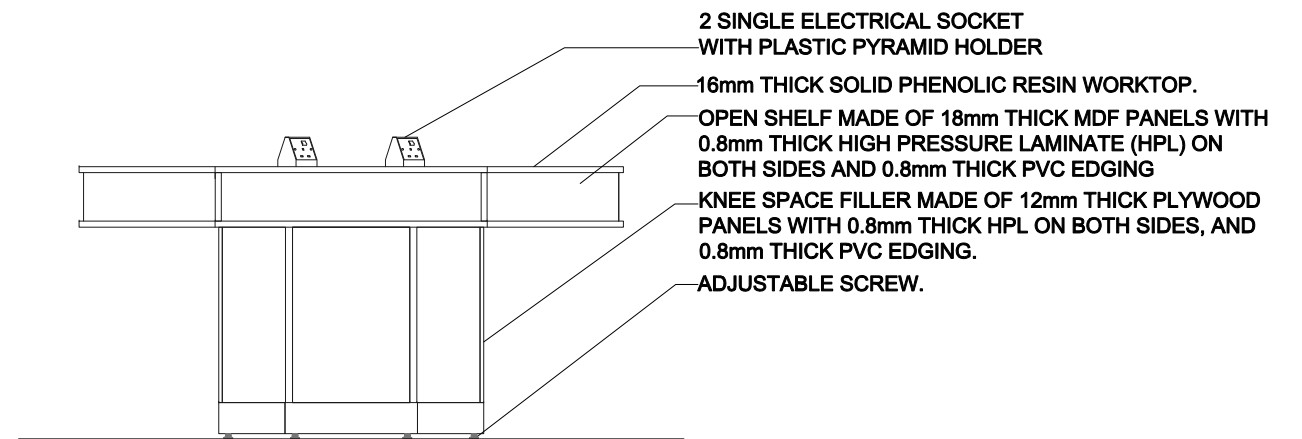
01 ART ROOM:
STUDENT WORK TABLE- PLAN
SCALE 1 : 25



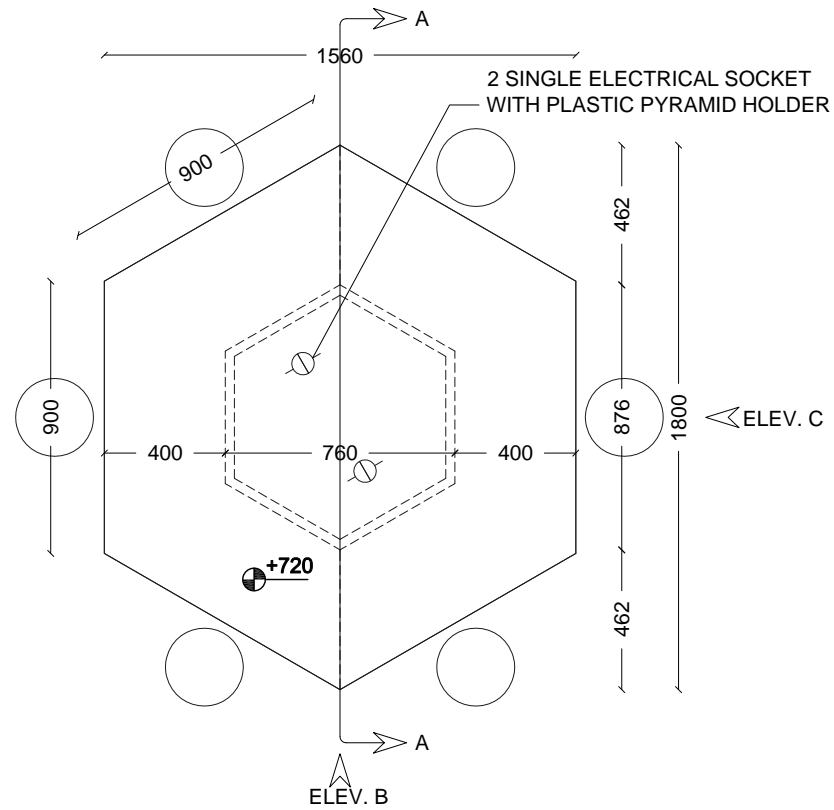
02 ART ROOM:
STUDENT WORK TABLE- SECTION A-A
SCALE 1 : 25



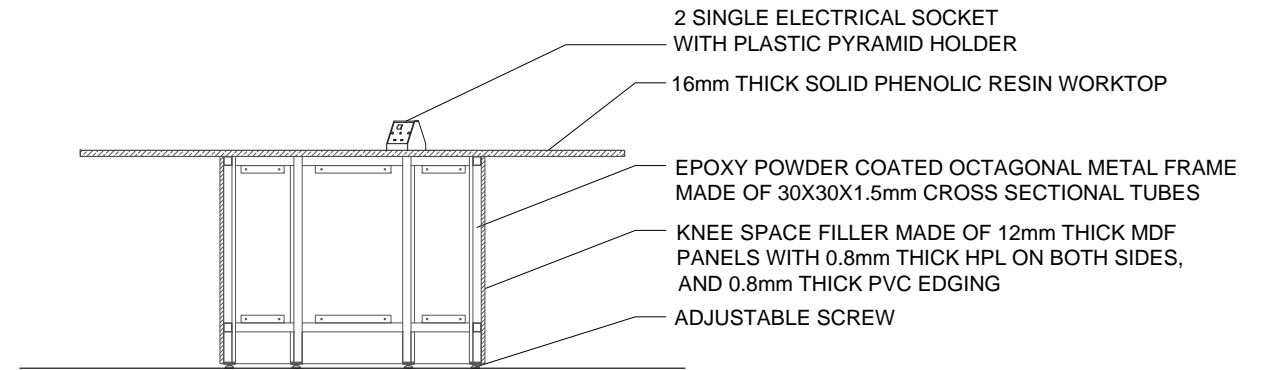
03 ART ROOM:
STUDENT WORK TABLE- ELEVATION B
SCALE 1 : 25



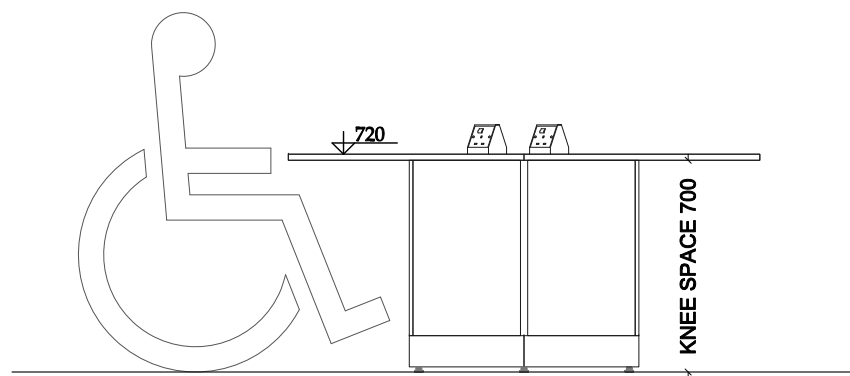
04 ART ROOM:
STUDENT WORK TABLE- ELEVATION C
SCALE 1 : 25



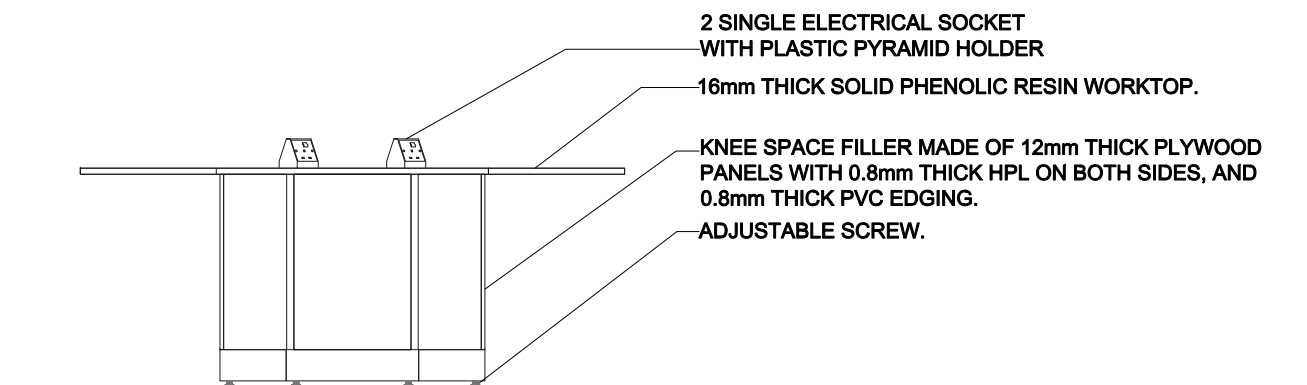
01 ART ROOM:
HC STUDENT WORK TABLE- PLAN
SCALE 1:25



02 ART ROOM:
HC STUDENT WORK TABLE- SECTION A-A
SCALE 1:25



03 ART ROOM:
HC STUDENT WORK TABLE- ELEVATION B
SCALE 1:25



04 ART ROOM:
HC STUDENT WORK TABLE- ELEVATION C
SCALE 1:25

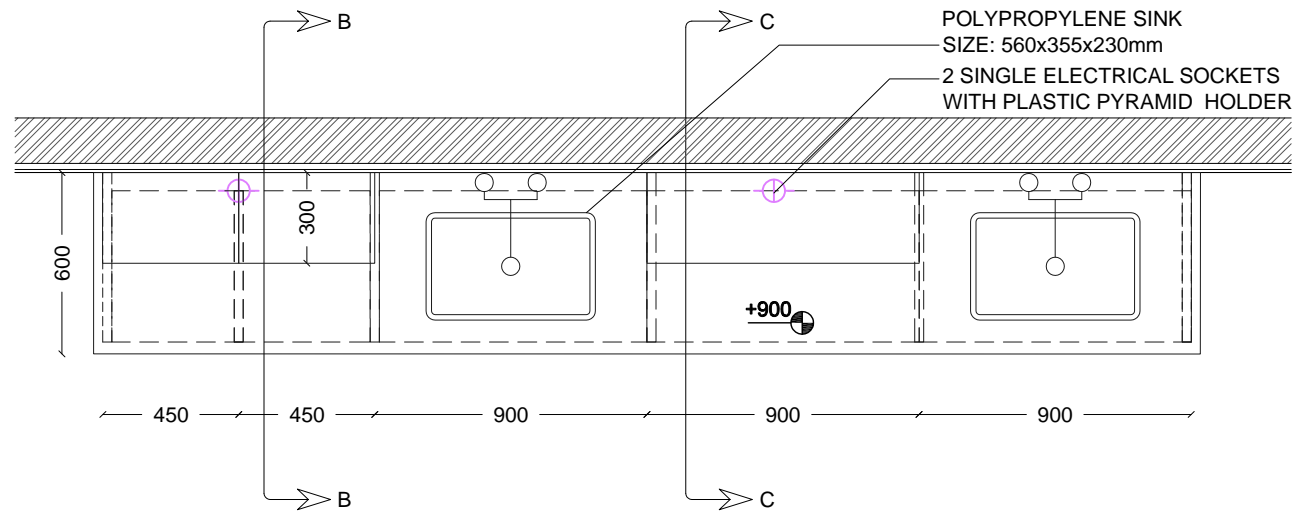
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

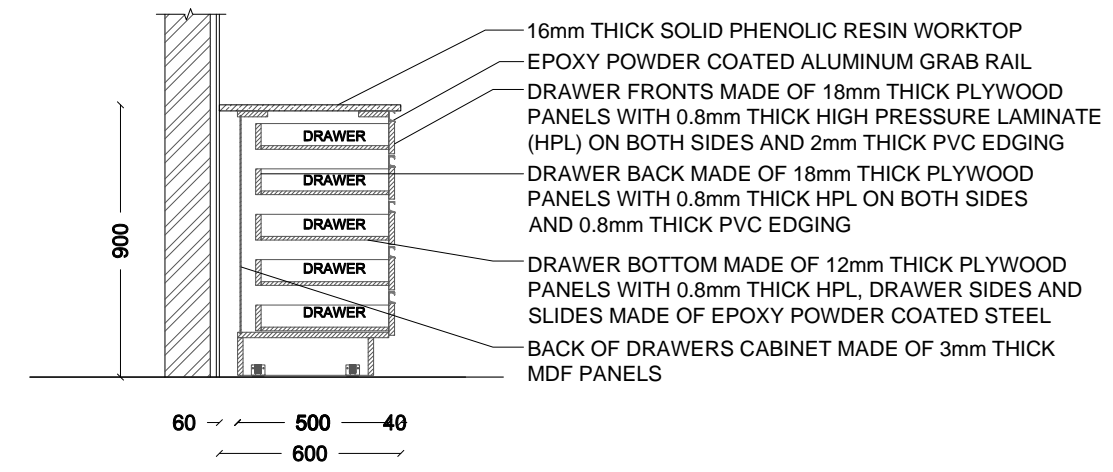
DRAWING NAME:
TYPICAL ART ROOM
HC STUDENT WORK TABLE

Design:	Drawn:	REVISION No.:
H.B.	Engicon	0
Checked:	Approved:	SHEET NUMBER:
M.Sh.	S.B.	FFD-21A
Date:	SCALE:	
June 2020	1:25	



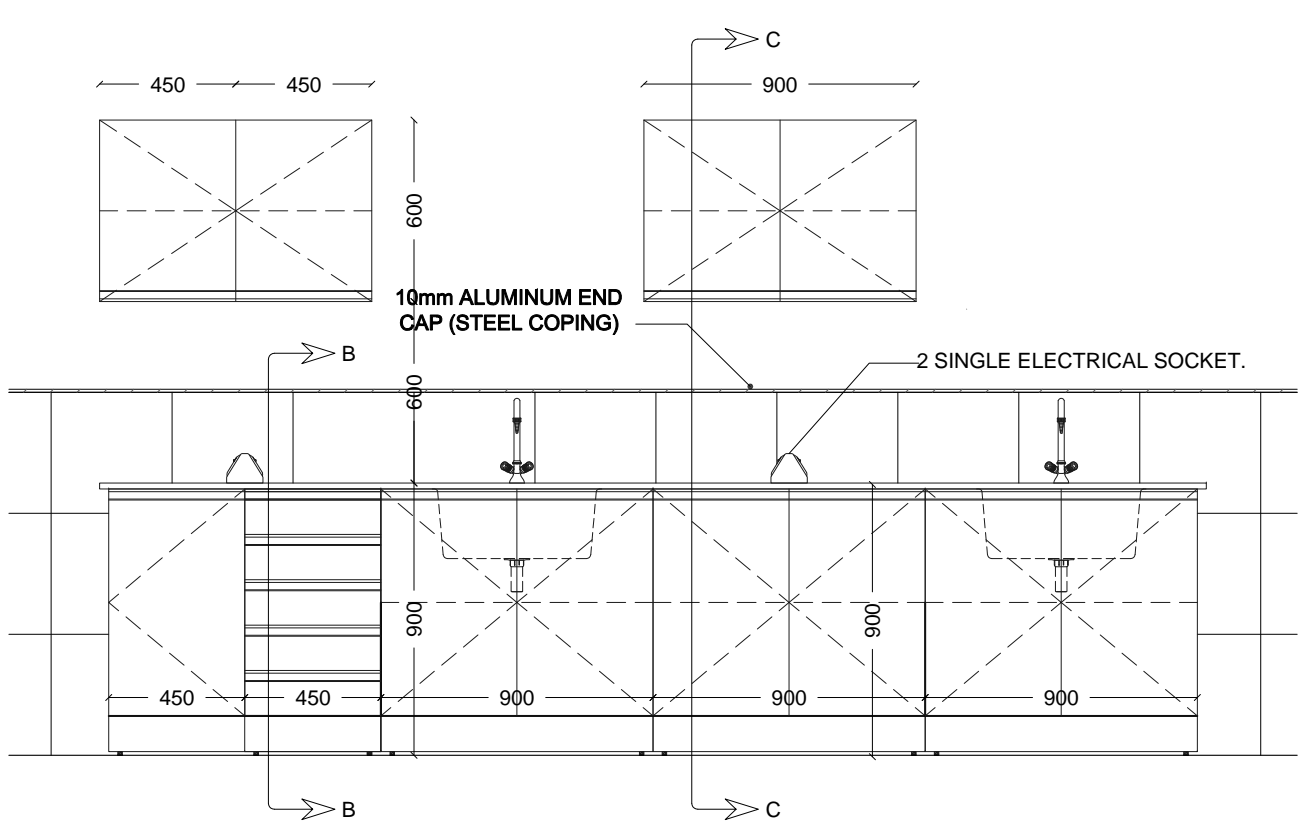
**ART ROOM:
COUNTER/CABINETS- PLAN**

01 SCALE 1:25



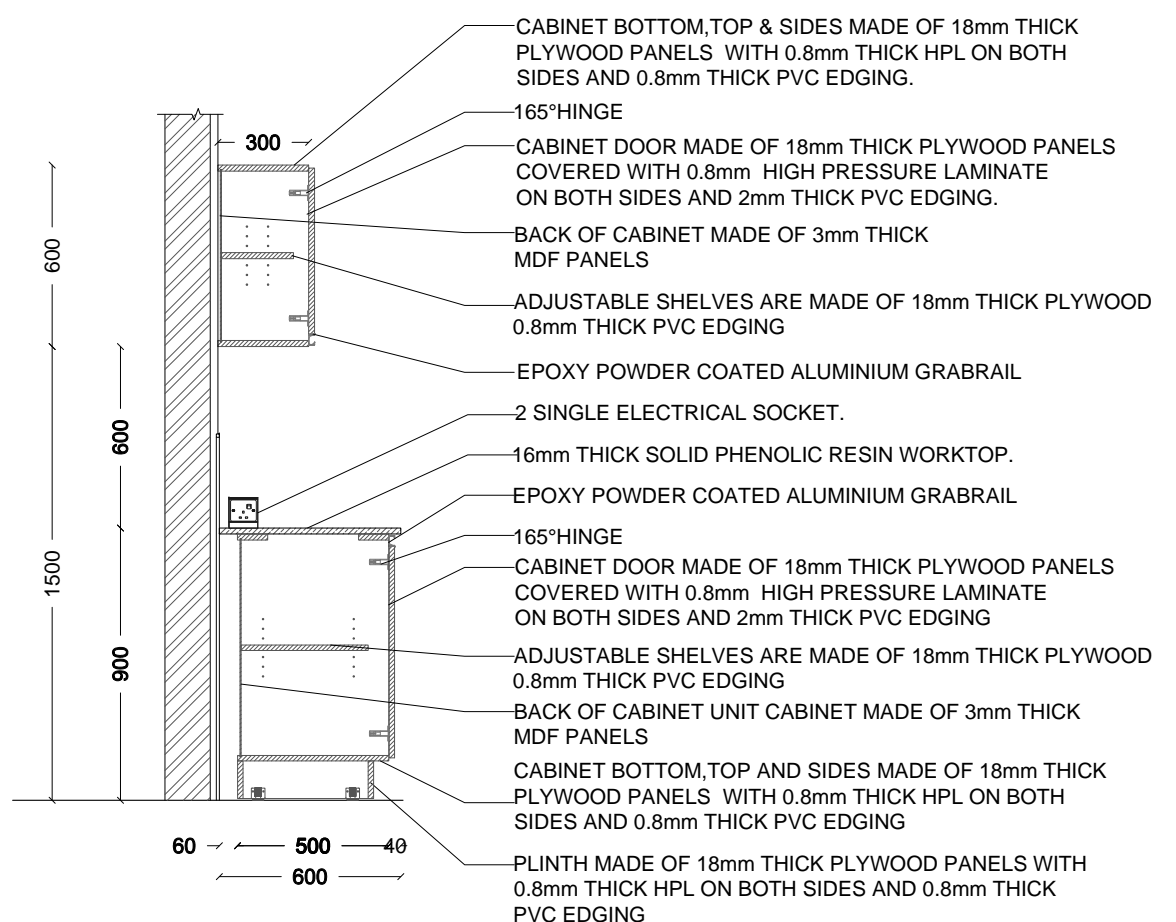
**ART ROOM:
COUNTER/CABINETS- SECTION B-B**

03 SCALE 1:25



**ART ROOM:
COUNTER/CABINETS- FRONT ELEVATION**

02 SCALE 1:25



**ART ROOM:
COUNTER/CABINETS- SECTION C-C**

04 SCALE 1:25

REV.	DATE	REMARKS

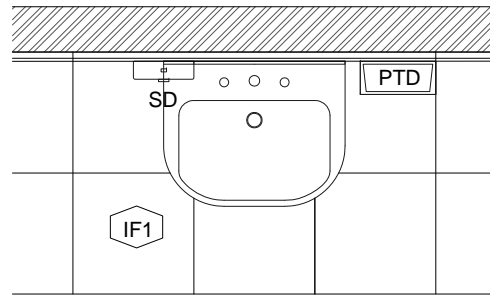


BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL ART ROOM
COUNTER/CABINETS

Design: H.B.	Drawn: Engicon	REVISION No. : 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: FFD-22
Date: June 2020	SCALE: 1:25	

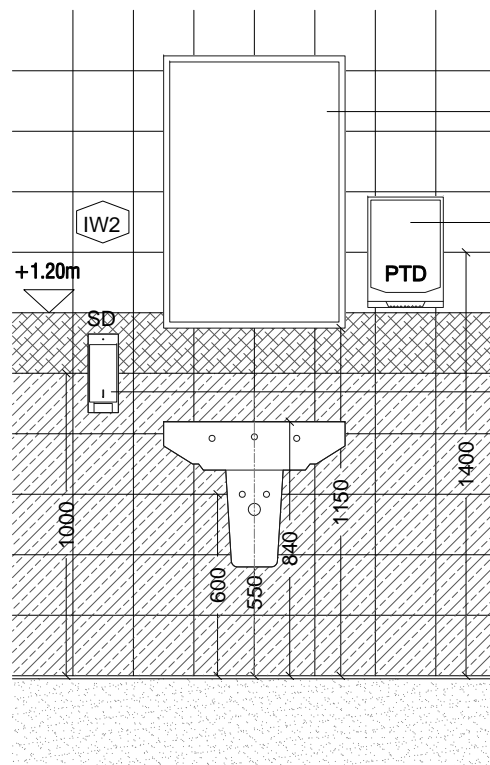
**SCHOOL COMPONENTS
WET AREAS DETAILS**



01 STAFF/PUBLIC TOILET WASH BASIN - PLAN
SCALE 1 : 25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm <input type="checkbox"/> BASE COLOR - WHITE <input checked="" type="checkbox"/> SECONDARY BASE COLOR - GREY <input checked="" type="checkbox"/> DARK BLUE AT TEACHES' CENTER TOILET <input checked="" type="checkbox"/> LIGHT BLUE AT STAFF AND PUBLIC TOILETS
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER

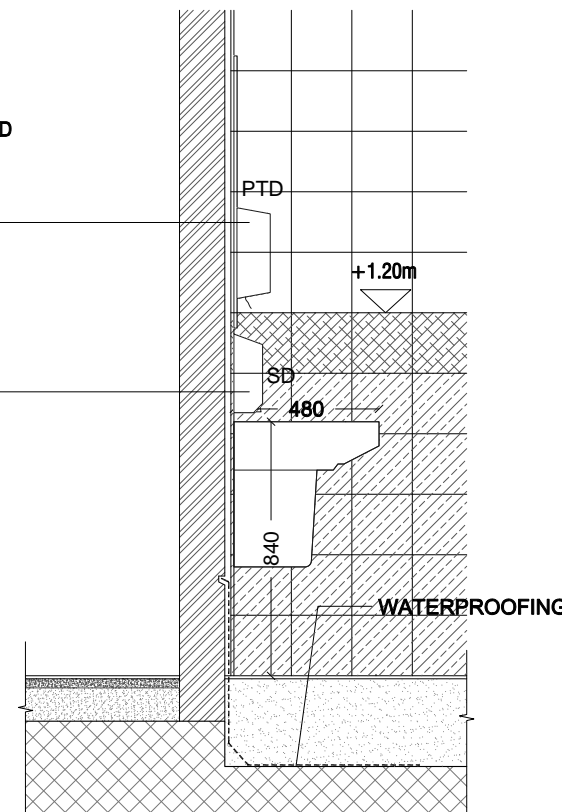


02 STAFF/PUBLIC TOILET WASH BASIN - FRONT ELEVATION
SCALE 1 : 25

900mmX600mmX6mm MIRROR WITH STAINLESS STEEL FRAME NOT EXCEED 2mm THICKNESS.

365mmX250mmX110mm STAINLESS STEEL PAPER TOWEL DISPENSER

260mmX100mmX95mm STAINLESS STEEL SOAP DISPENSER LOCKABLE WITH REFILLABLE ONE LITER RESERVOIR.



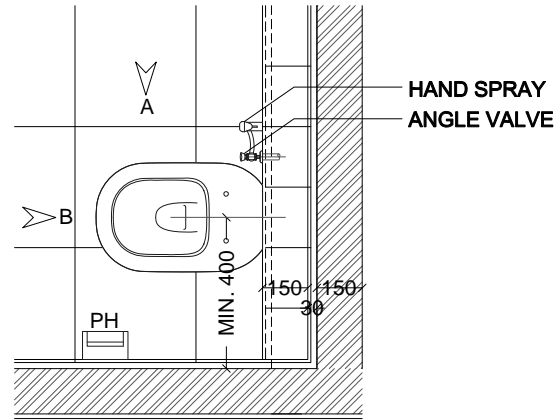
03 STAFF/PUBLIC TOILET WASH BASIN - SIDE ELEVATION
SCALE 1 : 25

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

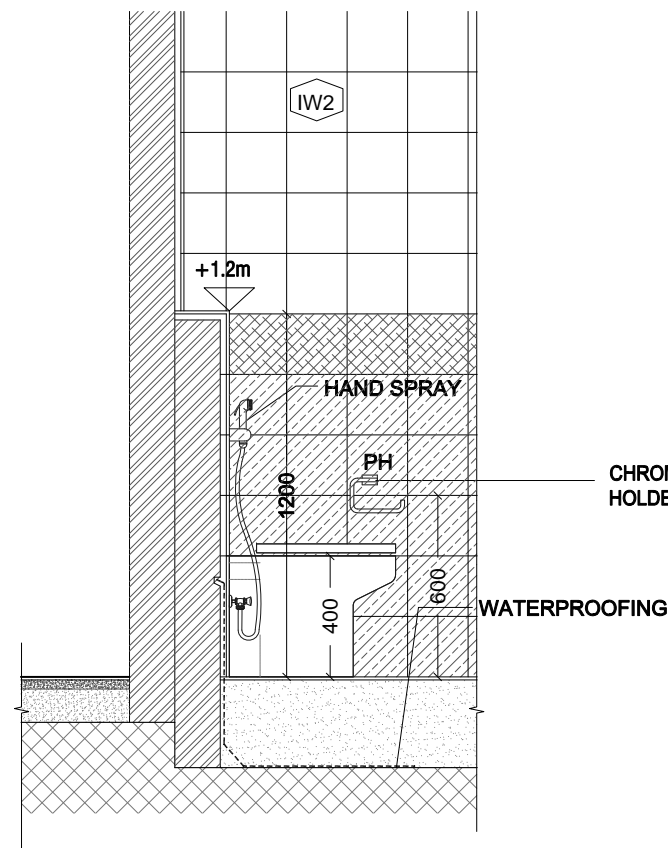
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		M.Sh.	S.B.	WAD-01
		Date:	SCALE:	
		June 2020	1:25	



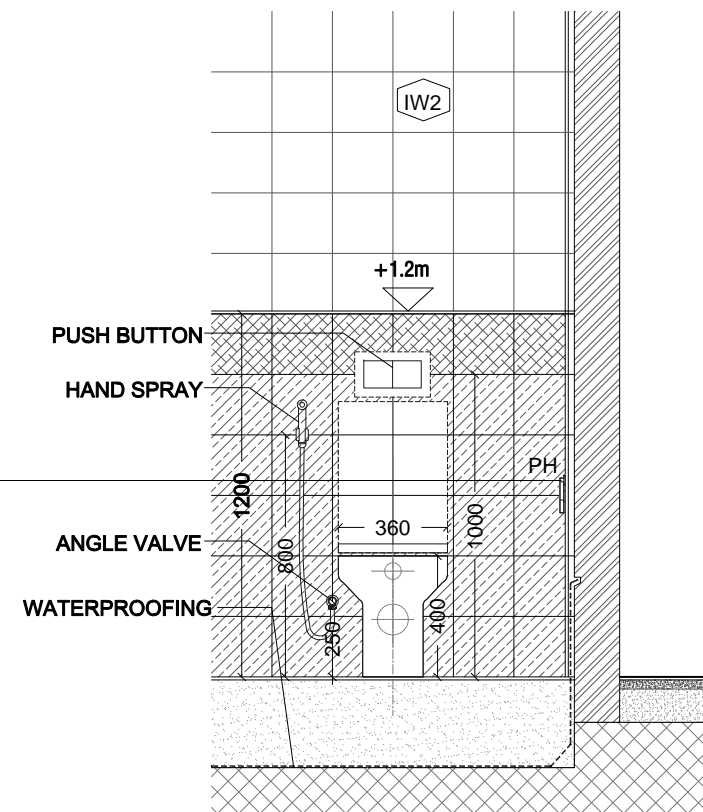
01 **STAFF/PUBLIC TOILET WESTERN WC - PLAN**
SCALE 1:25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm □ BASE COLOR - WHITE ▨ SECONDARY BASE COLOR - GREY ▩ DARK BLUE AT TEACHES' CENTER TOILET ▧ LIGHT BLUE AT STAFF AND PUBLIC TOILETS
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



02 **STAFF/PUBLIC TOILET WESTERN WC - ELEVATION A**
SCALE 1:25



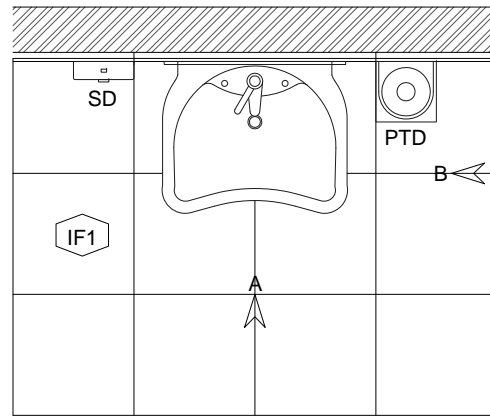
03 **STAFF/PUBLIC TOILET WESTERN WC - ELEVATION B**
SCALE 1:25

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

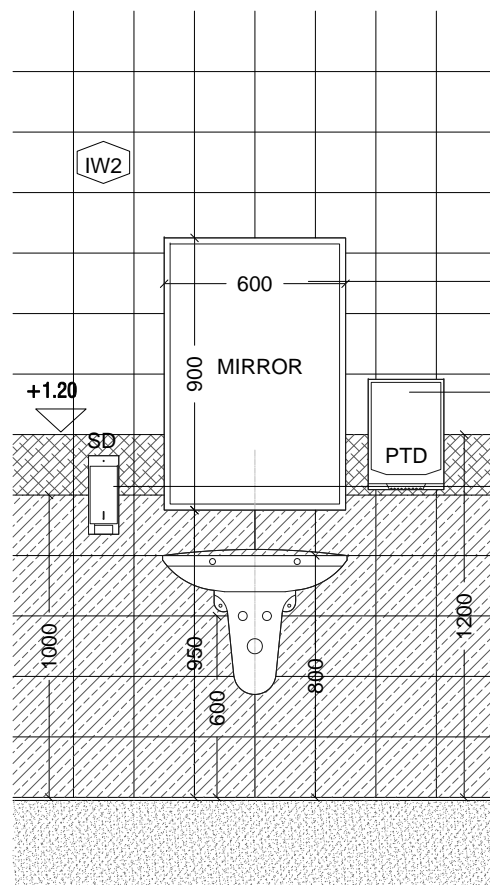
Design: H.B.	Drawn: Engicon	REVISION No.: 0
Checked: M.Sh.	Approved: S.B.	SHEET NUMBER:
Date: June 2020	SCALE: 1:25	WAD-02



01 **HC TOILET WASH BASIN - PLAN**
SCALE 1 : 25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm <div style="display: flex; flex-direction: column; gap: 5px;"> <div> BASE COLOR - WHITE</div> <div> SECONDARY BASE COLOR - GREY</div> <div> DARK BLUE AT FIRST AID TOILET</div> <div> LIGHT BLUE AT HC PUBLIC TOILET</div> <div> MINT GREEN AT HC STUDENTS' TOILET (GRADES 1-3)</div> <div> YELLOW AT HC STUDENTS' TOILET (GRADES 4-12)</div> </div>
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER

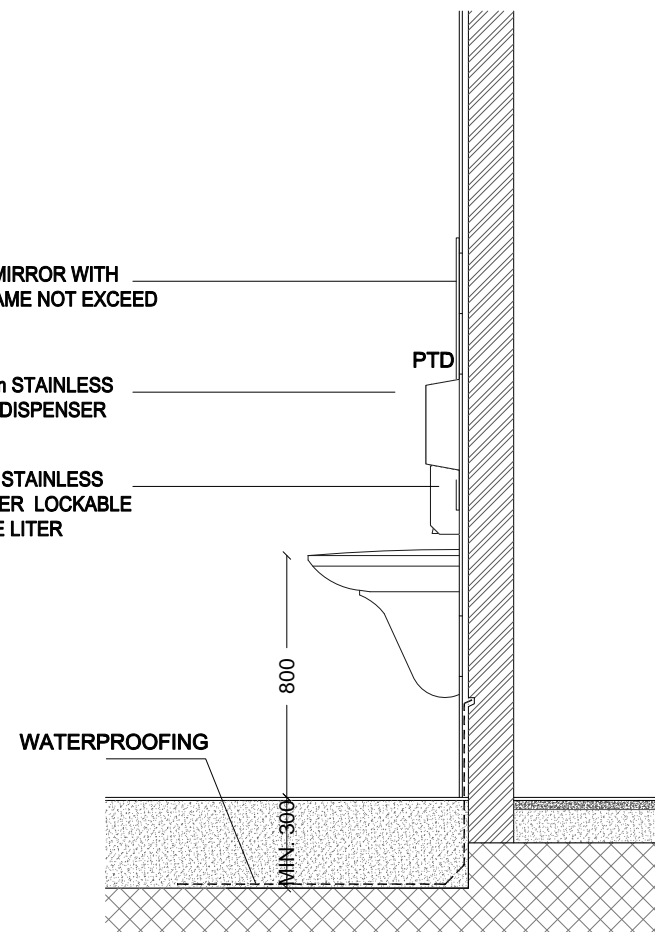


02 **HC TOILET WASH BASIN - ELEVATION A**
SCALE 1 : 25

900mmX600mmX6mm MIRROR WITH STAINLESS STEEL FRAME NOT EXCEED 2mm THICKNESS.

365mmX250mmX110mm STAINLESS STEEL PAPER TOWEL DISPENSER

260mmX100mmX95mm STAINLESS STEEL SOAP DISPENSER LOCKABLE WITH REFILLABLE ONE LITER RESERVOIR.



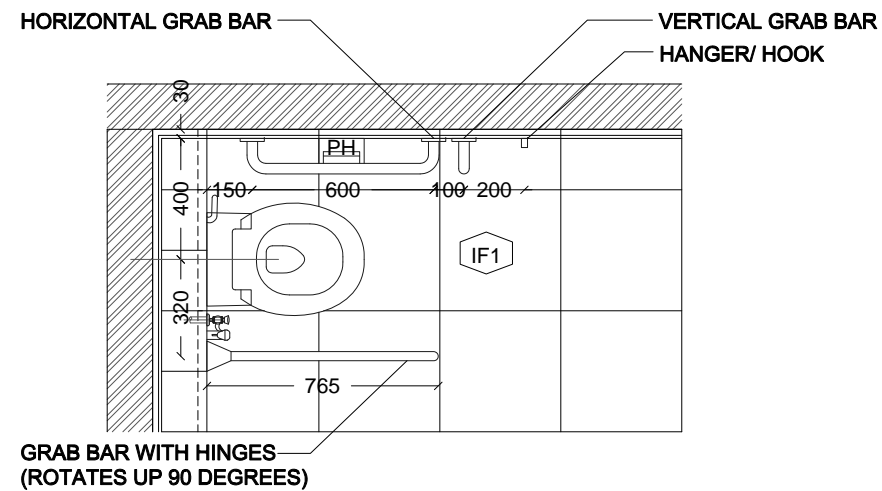
03 **HC TOILET WASH BASIN - ELEVATION B**
SCALE 1 : 25

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

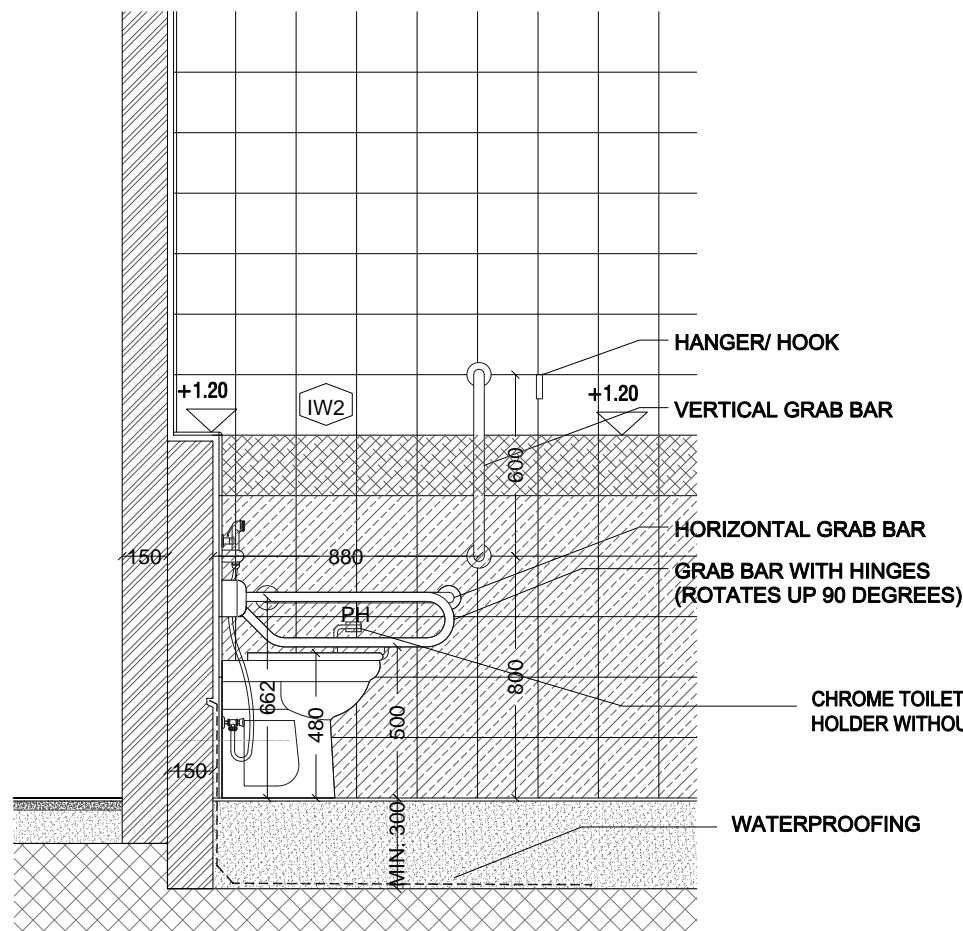
DRAWING NAME:		Design:	Drawn:	REVISION No.:
TYPICAL HC TOILET WASH BASIN DETAILS		H.B.	Engicon	0
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		M.Sh.	S.B.	WAD-03
		Date:	SCALE:	
		June 2020	1:25	



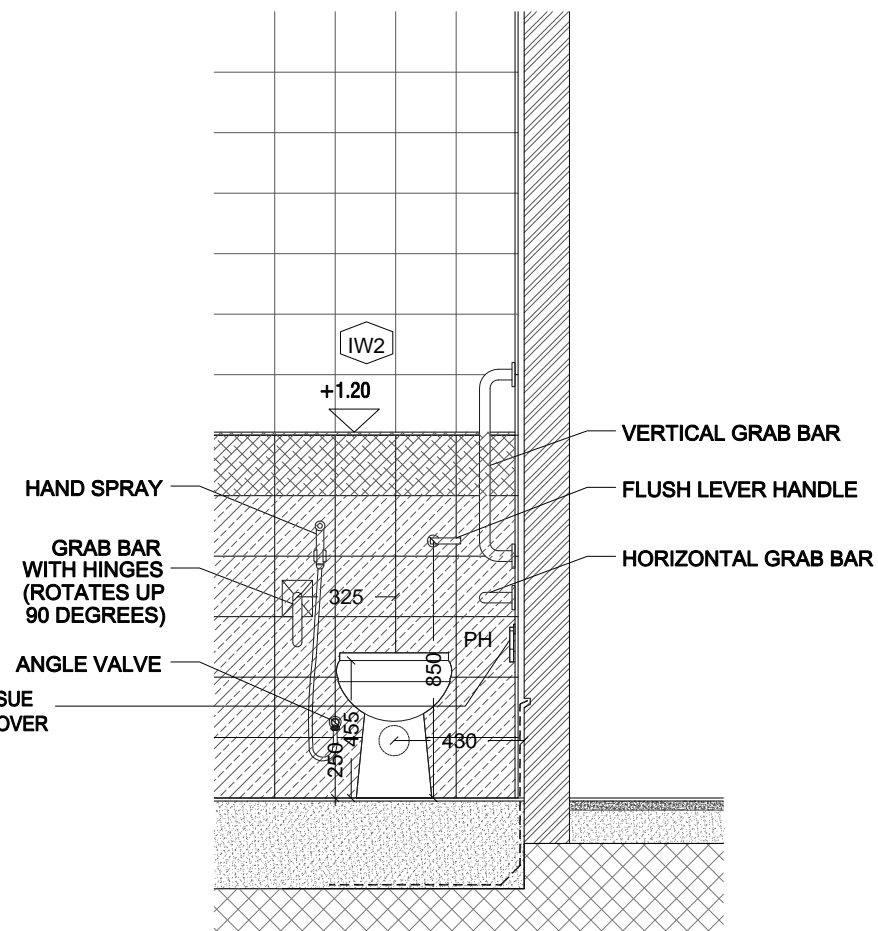
01 **HC TOILET WESTERN WC - PLAN**
SCALE 1 : 25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm □ BASE COLOR - WHITE ▨ SECONDARY BASE COLOR - GREY ▩ DARK BLUE AT FIRST AID TOILET ▧ LIGHT BLUE AT HC PUBLIC TOILET ▦ MINT GREEN AT HC STUDENTS' TOILET (GRADES 1-3) ▤ YELLOW AT HC STUDENTS' TOILET (GRADES 4-12)
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



02 **HC TOILET WESTERN WC - ELEVATION A**
SCALE 1 : 25



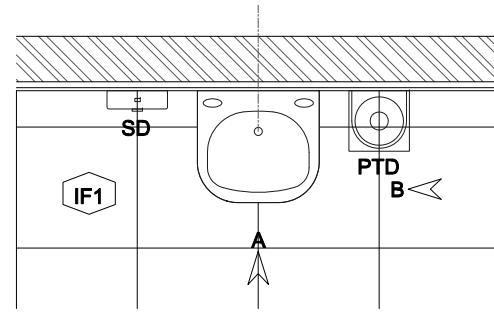
03 **HC TOILET WESTERN WC - ELEVATION B**
SCALE 1 : 25

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

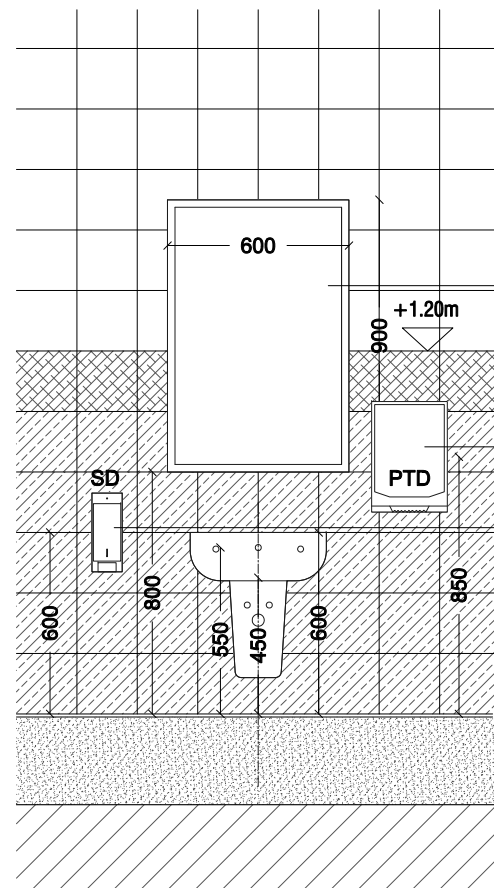
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TYPICAL HC TOILET WC DETAILS		H.B.	Engicon	0
		Checked:	Approved:	SHEET NUMBER:
		M.Sh.	S.B.	WAD-04
		Date:	SCALE :	
		June 2020	1:25	



01 **KG TOILET WASH BASINS- PLAN**
SCALE 1:25

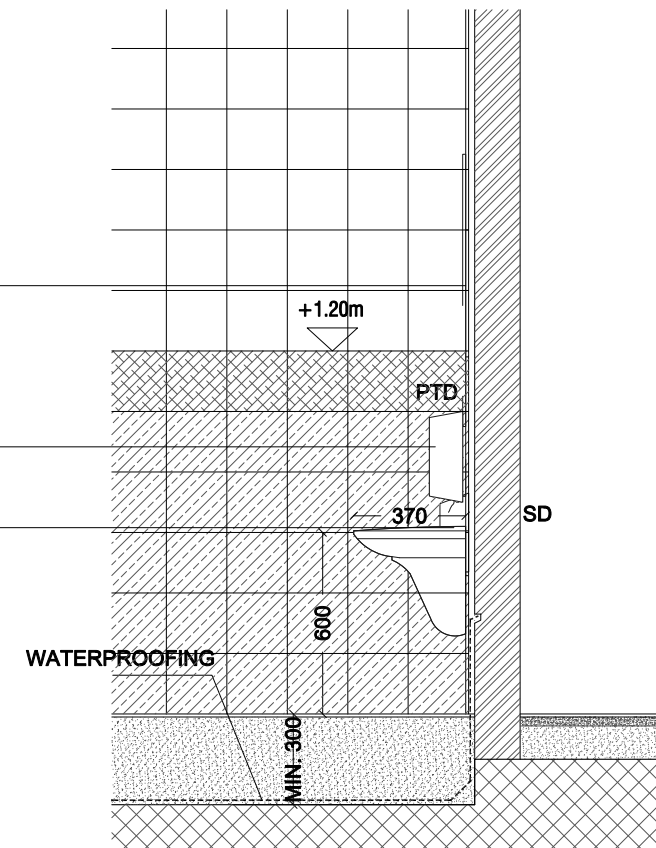
TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm <div style="display: flex; gap: 10px;"> <div style="width: 15px; height: 15px; border: 1px solid black; background-color: white;"></div> BASE COLOR - WHITE <div style="width: 15px; height: 15px; border: 1px solid black; background: repeating-linear-gradient(45deg, transparent, transparent 2px, grey 2px, grey 4px);"></div> SECONDARY BASE COLOR - GREY <div style="width: 15px; height: 15px; border: 1px solid black; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, grey 2px, grey 4px);"></div> PISTACHIO </div>
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



02 **KG TOILET WASH BASIN - ELEVATION A**
SCALE 1:25

- 900mmX600mmX6mm MIRROR WITH STAINLESS STEEL FRAME NOT EXCEED 2mm THICKNESS.
- 365mmX250mmX110mm STAINLESS STEEL PAPER TOWEL DISPENSER
- 260mmX100mmX95mm STAINLESS STEEL SOAP DISPENSER LOCKABLE WITH REFILLABLE ONE LITER RESERVOIR.



03 **KG TOILET WASH BASIN - ELEVATION B**
SCALE 1:25

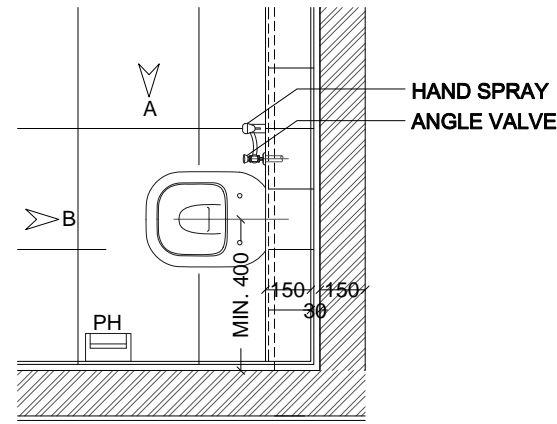
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL KG TOILETS WASH BASIN DETAILS

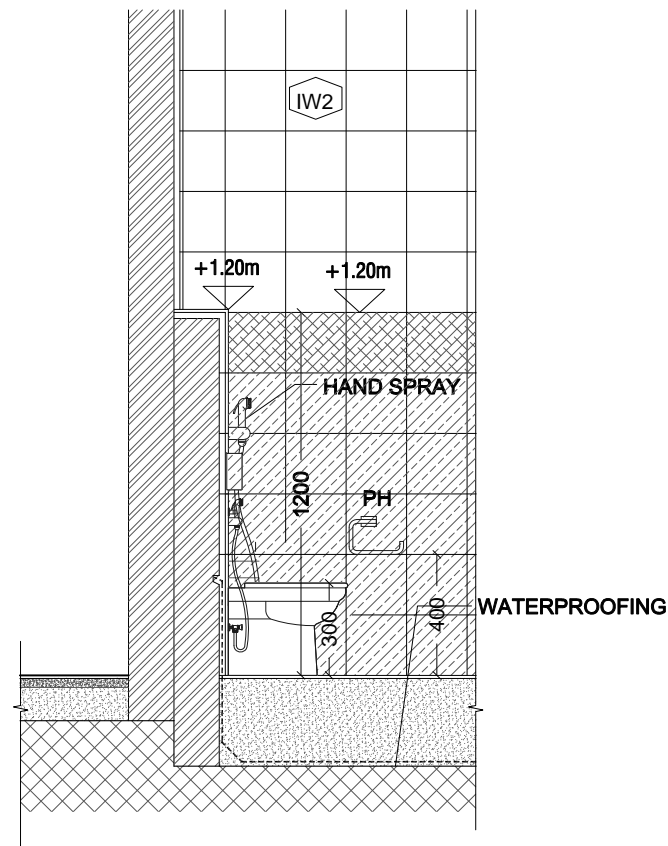
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Date: June 2020	SCALE: 1:25	



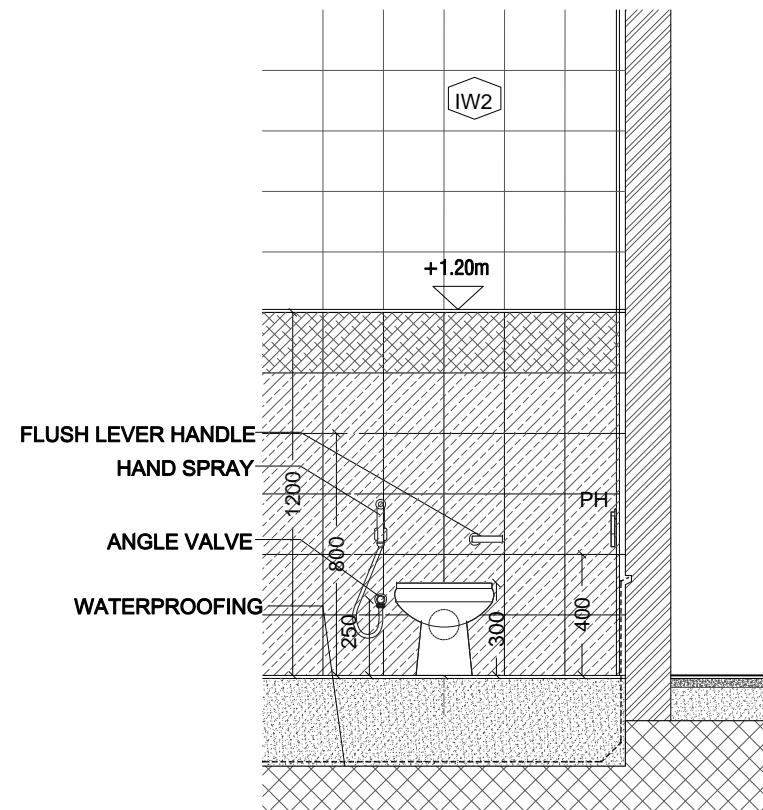
01 KG TOILET
WESTERN WC - PLAN
SCALE 1:25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm □ BASE COLOR - WHITE ▨ SECONDARY BASE COLOR - GREY ▩ PISTACHIO
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



02 KG TOILET
WESTERN WC - ELEVATION A
SCALE 1:25



03 KG TOILET
WESTERN WC- ELEVATION B
SCALE 1:25

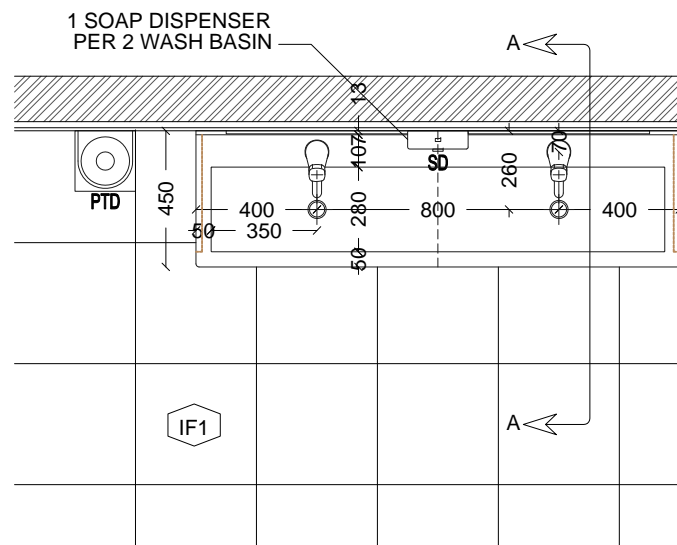
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL KG TOILETS
WESTERN WC DETAILS

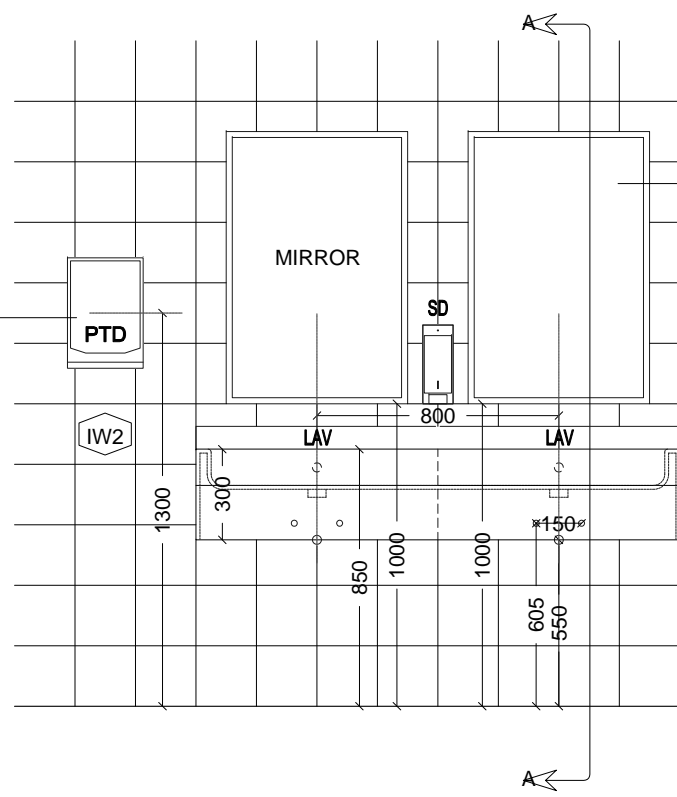
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Date:	SCALE:	
June 2020	1:25	



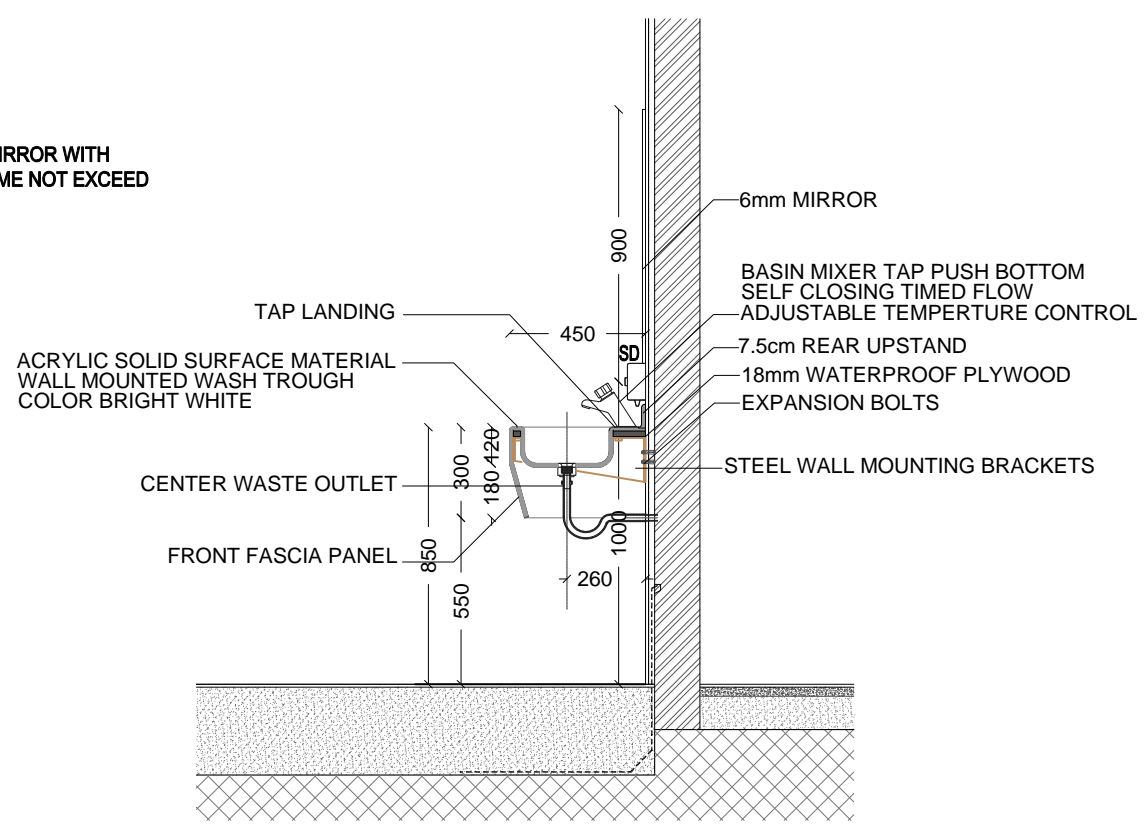
STUDENTS TOILETS WASH BASINS- PLAN
 01 SCALE 1 : 25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm □ BASE COLOR - WHITE ▨ SECONDARY BASE COLOR - GREY ▩ MINT GREEN AT STUDENTS' TOILET (GRADES: 1-3) ▪ YELLOW AT STUDENTS' TOILET (GRADES: 4-12)
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



STUDENTS TOILETS WASH BASINS- ELEVATION
 02 SCALE 1 : 25



STUDENTS TOILETS WASH BASINS- SECTION A-A
 03 SCALE 1 : 25

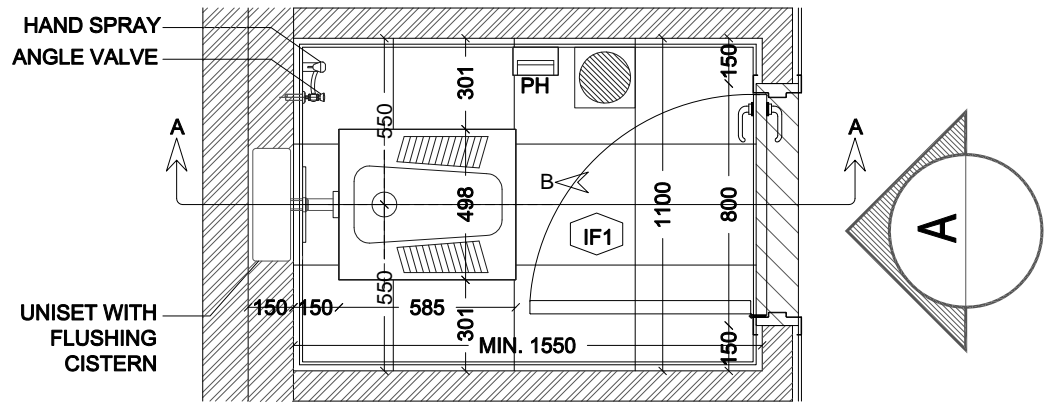
REV.	DATE	REMARKS



BOOK OF DETAILS
 SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:
 TYPICAL STUDENTS' TOILETS WASH BASIN DETAILS

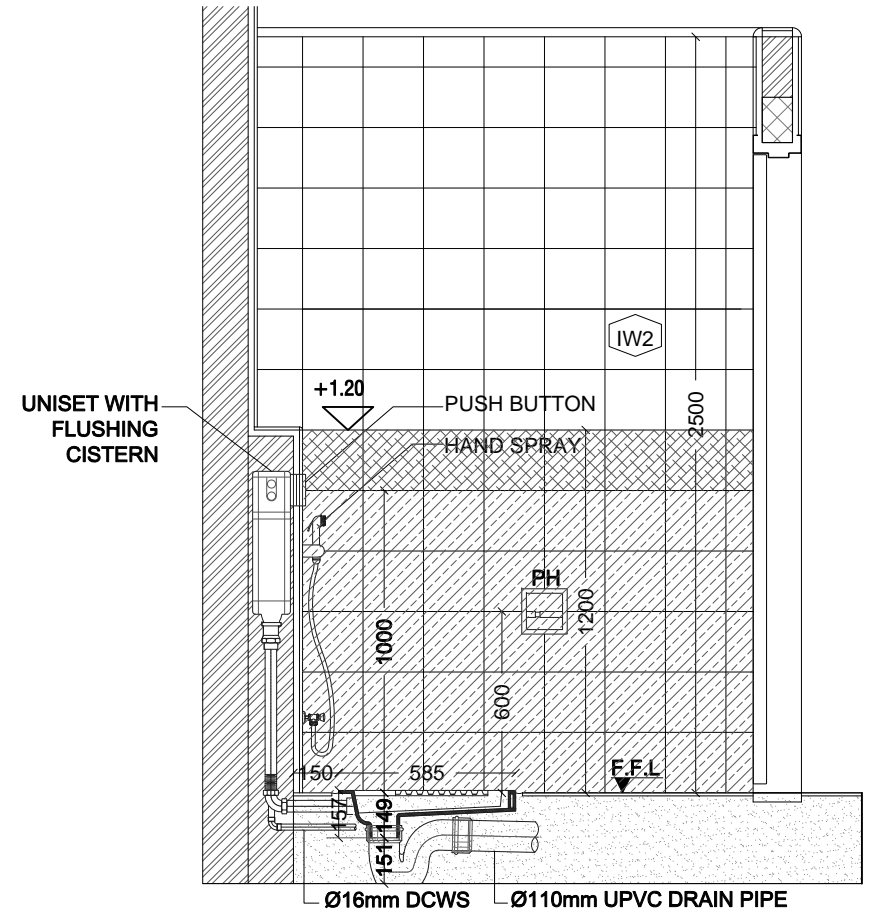
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Date: June 2020	SCALE: 1:25	



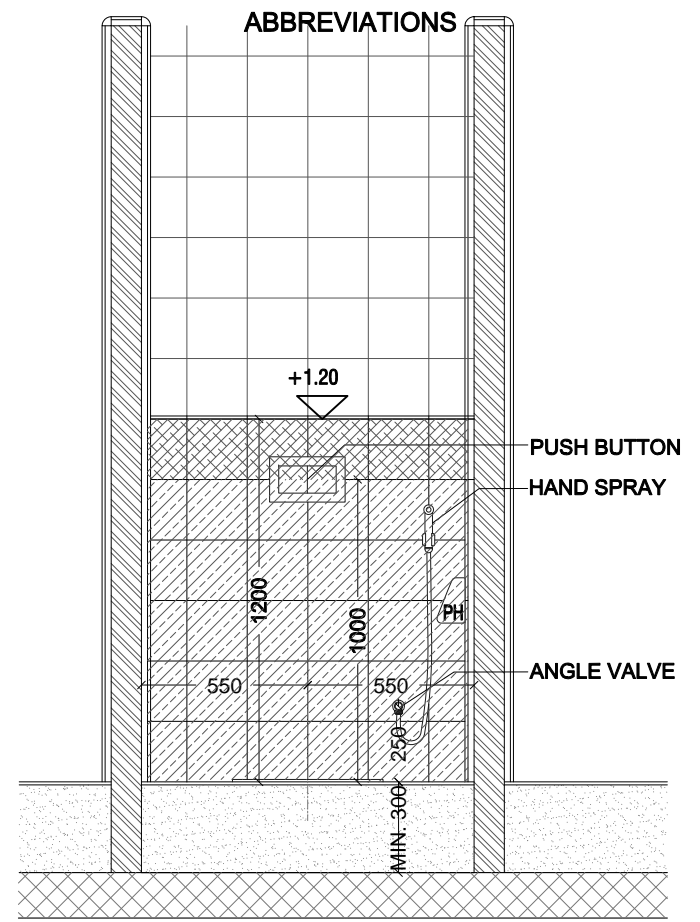
01 **STUDENTS TOILETS EASTERN WC- PLAN**
SCALE 1 : 25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm <div style="display: flex; flex-direction: column; gap: 5px;"> <div> BASE COLOR - WHITE</div> <div> SECONDARY BASE COLOR - GREY</div> <div> MINT GREEN AT STUDENTS' TOILET (GRADES: 1-3)</div> <div> YELLOW AT STUDENTS' TOILET (GRADES: 4-12)</div> </div>
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



02 **STUDENTS TOILETS EASTERN WC- SECTION A-A**
SCALE 1 : 25



03 **STUDENTS TOILETS EASTERN WC- ELEVATION B**
SCALE 1 : 25

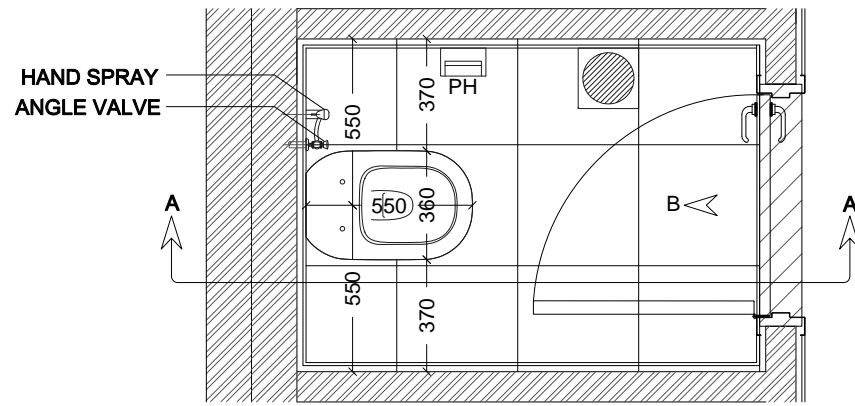
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY PROJECT (USAID SKEP)

DRAWING NAME:	TYPICAL STUDENTS' TOILETS EASTERN WC DETAILS
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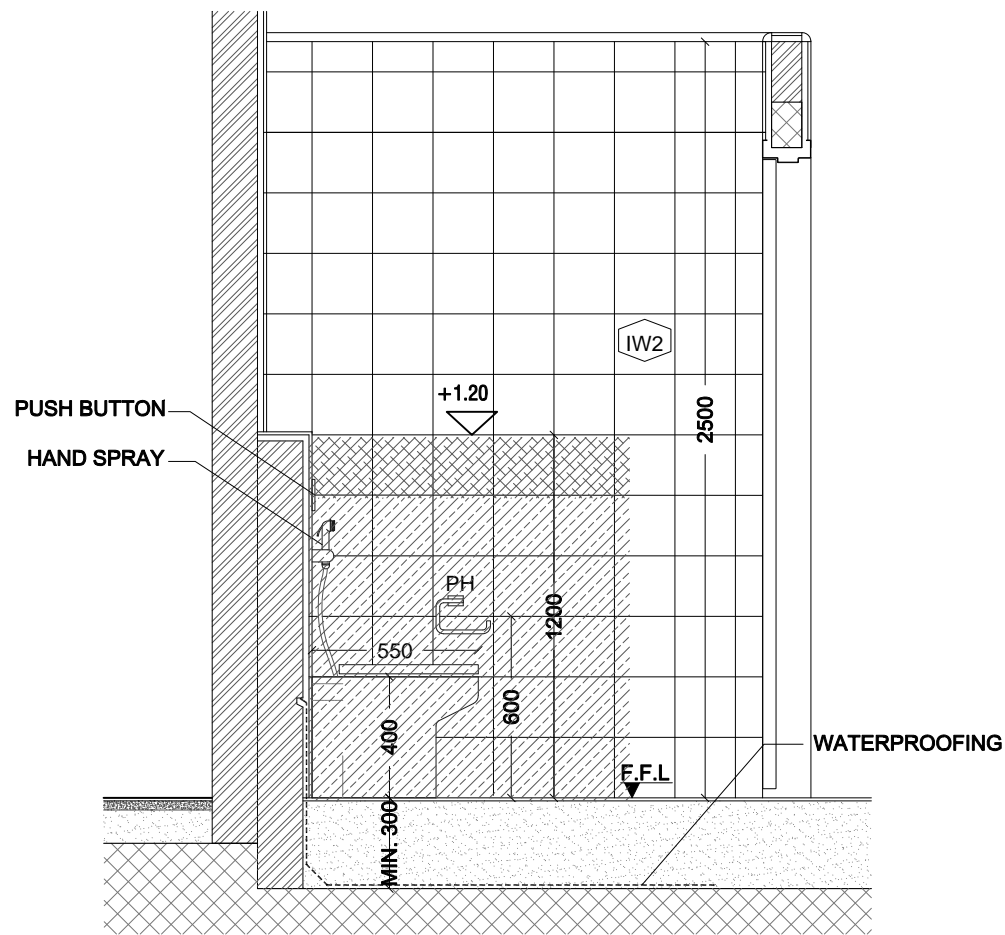
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Date: June 2020	SCALE: 1:25	WAD-08



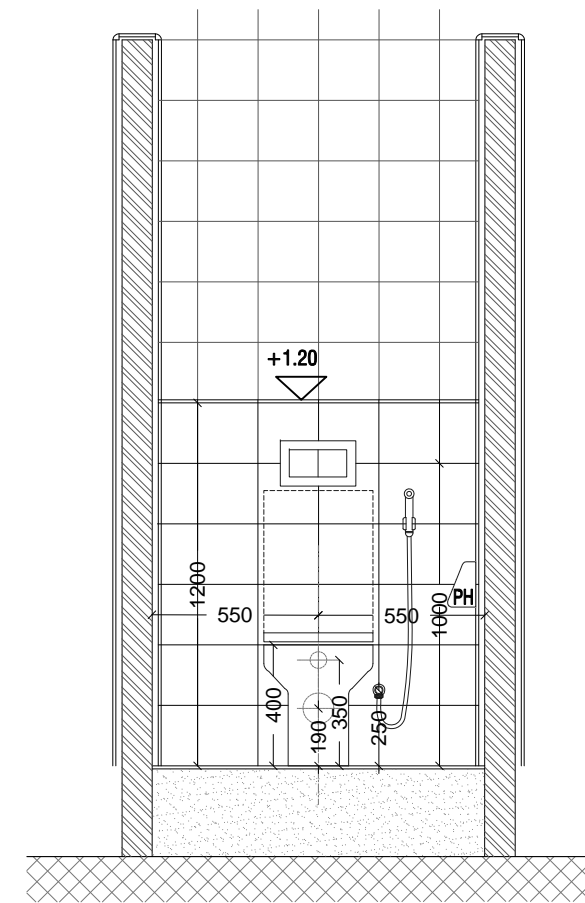
01 STUDENTS TOILETS
WESTERN WC- PLAN
SCALE 1 : 25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm <ul style="list-style-type: none"> BASE COLOR - WHITE SECONDARY BASE COLOR - GREY MINT GREEN AT STUDENTS' TOILET (GRADES: 1-3) YELLOW AT STUDENTS' TOILET (GRADES: 4-12)
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



02 STUDENTS TOILETS
WESTERN WC- SECTION A-A
SCALE 1 : 25



03 STUDENTS TOILETS
WESTERN WC- ELEVATION B
SCALE 1 : 25

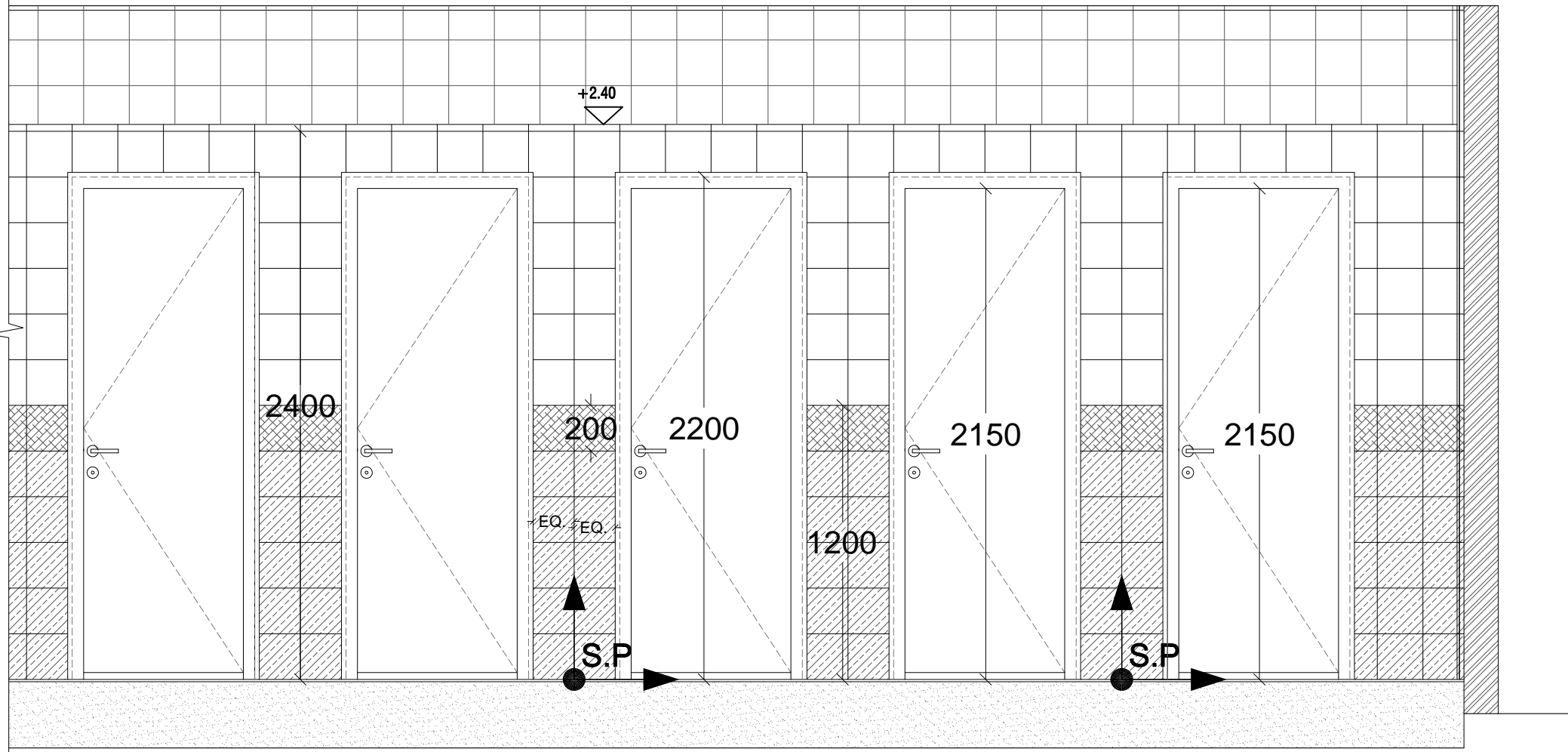
REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:
TYPICAL STUDENTS' TOILETS
WESTERN WC DETAILS

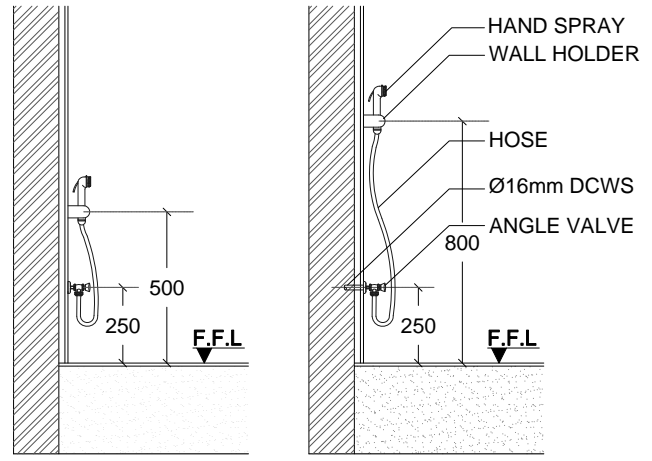
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Checked: M.Sh.	Approved: S.B.	SHEET NUMBER: WAD-09
Date: June 2020	SCALE : 1:25	



03 STUDENTS TOILETS
ELEVATION A
SCALE 1 : 25

TAG	DESCRIPTION
IF#	INTERIOR FLOOR TILES REFERENCE NUMBER: IF1: FULL BODY, FULLY VITRIFIED PORCELAIN SEALER GLAZE - SIZE 40X40cm - REF TO SCHOOL DRAWINGS FOR COLOR SHADE
IW#	INTERIOR WALL FINISH REF NUMBER: IW2: CERAMIC TILES 20X20cm □ BASE COLOR - WHITE ▨ SECONDARY BASE COLOR - GREY ▩ MINT GREEN AT STUDENTS' TOILET (GRADES: 1-3) ▪ YELLOW AT STUDENTS' TOILET (GRADES: 4-12)
NOTE:	ALL COLOR SHADES TO APPROVAL OF THE ENGINEER

ABBREVIATIONS	
SD	SOAP DISPENSER
PTD	PAPER TOWEL DISPENSER



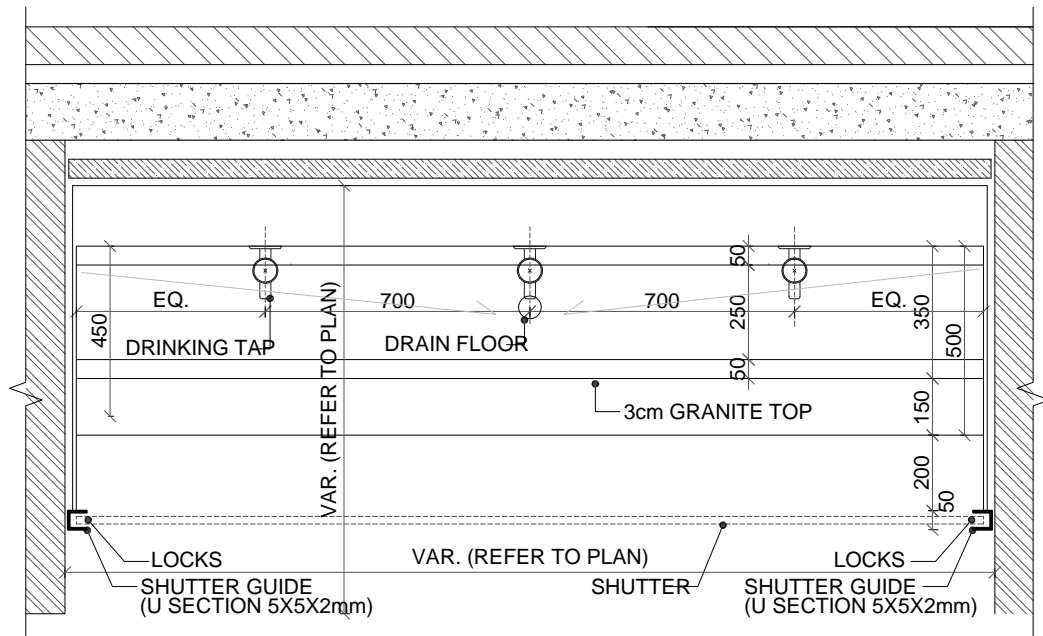
02 HAND SPRAY
SIDE ELEVATION
SCALE 1 : 25

REV.	DATE	REMARKS



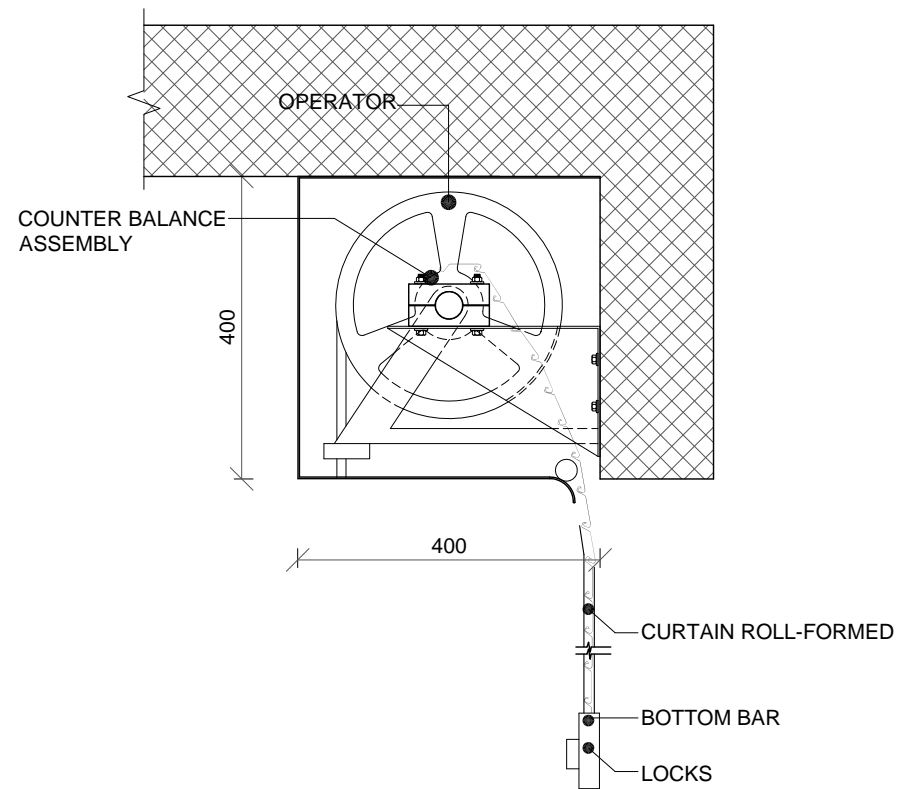
BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DRAWING NAME:	Design:	Drawn:	REVISION No.:
TYPICAL STUDENTS' TOILETS	H.B.	Engicon	0
	Checked:	Approved:	SHEET NUMBER:
	M.Sh.	S.B.	WAD-10
	Date:	SCALE:	
	June 2020	1:25	



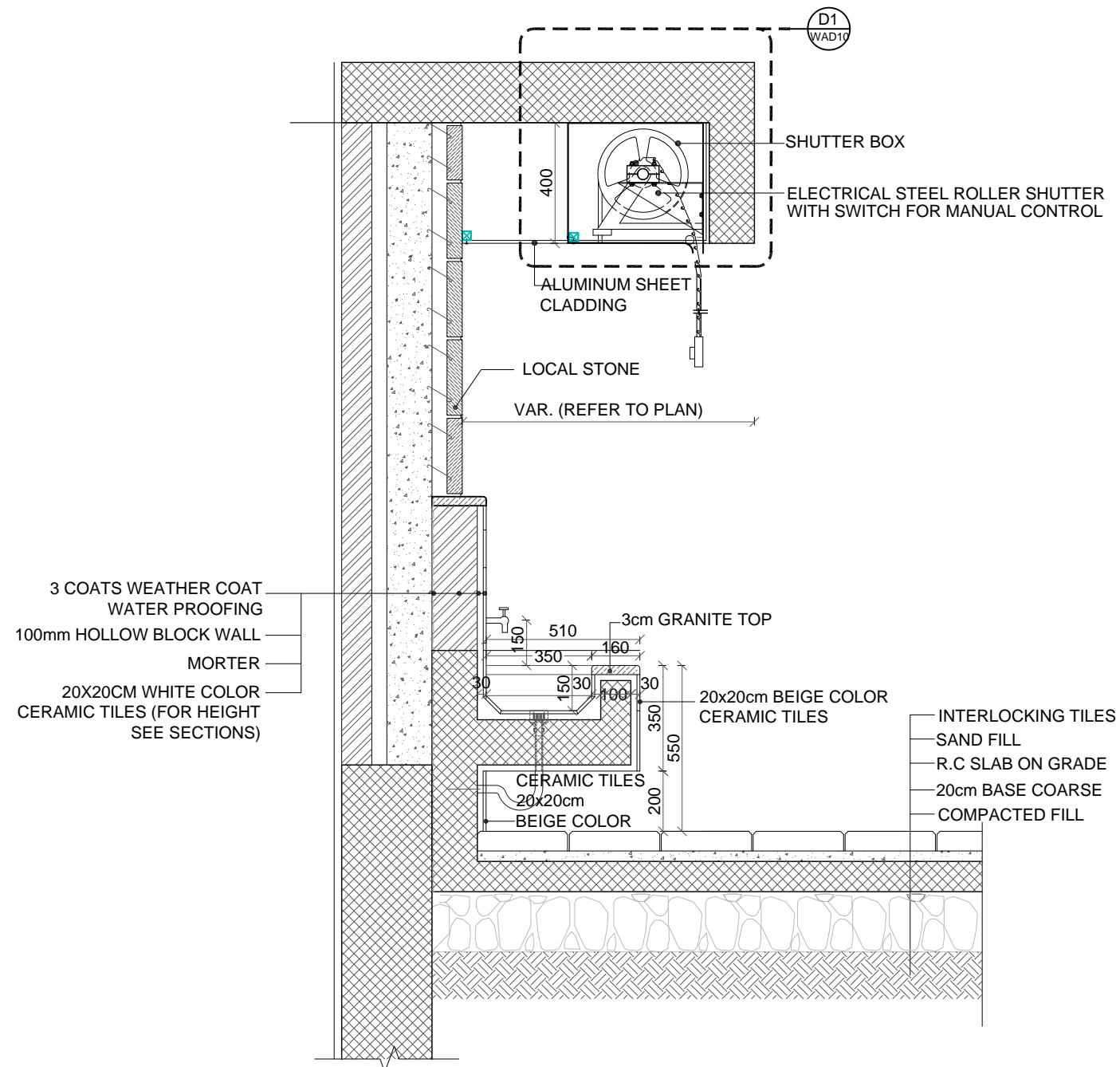
OUTDOOR DRINKING FOUNTAIN / PLAN

SCALE 1 : 20



STEEL ROLLING SHUTTER

SCALE 1 : 20



SECTION A-A

SCALE 1 : 20

REV.	DATE	REMARKS



BOOK OF DETAILS
SCHOOLS FOR A KNOWLEDGE ECONOMY
PROJECT (USAID SKEP)

DESIGN NAME:	DESIGN:	REVISION No.:
OUTDOOR DRINKING FOUNTAIN DETAIL	H.B. Engicon	0
	CHECKED:	SHEET NUMBER:
	M.Sh. S.B.	WAD-11
	DATE:	SCALE:
	June 2020	AS SHOWN