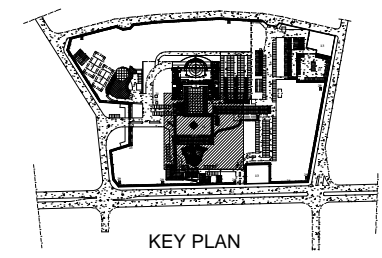
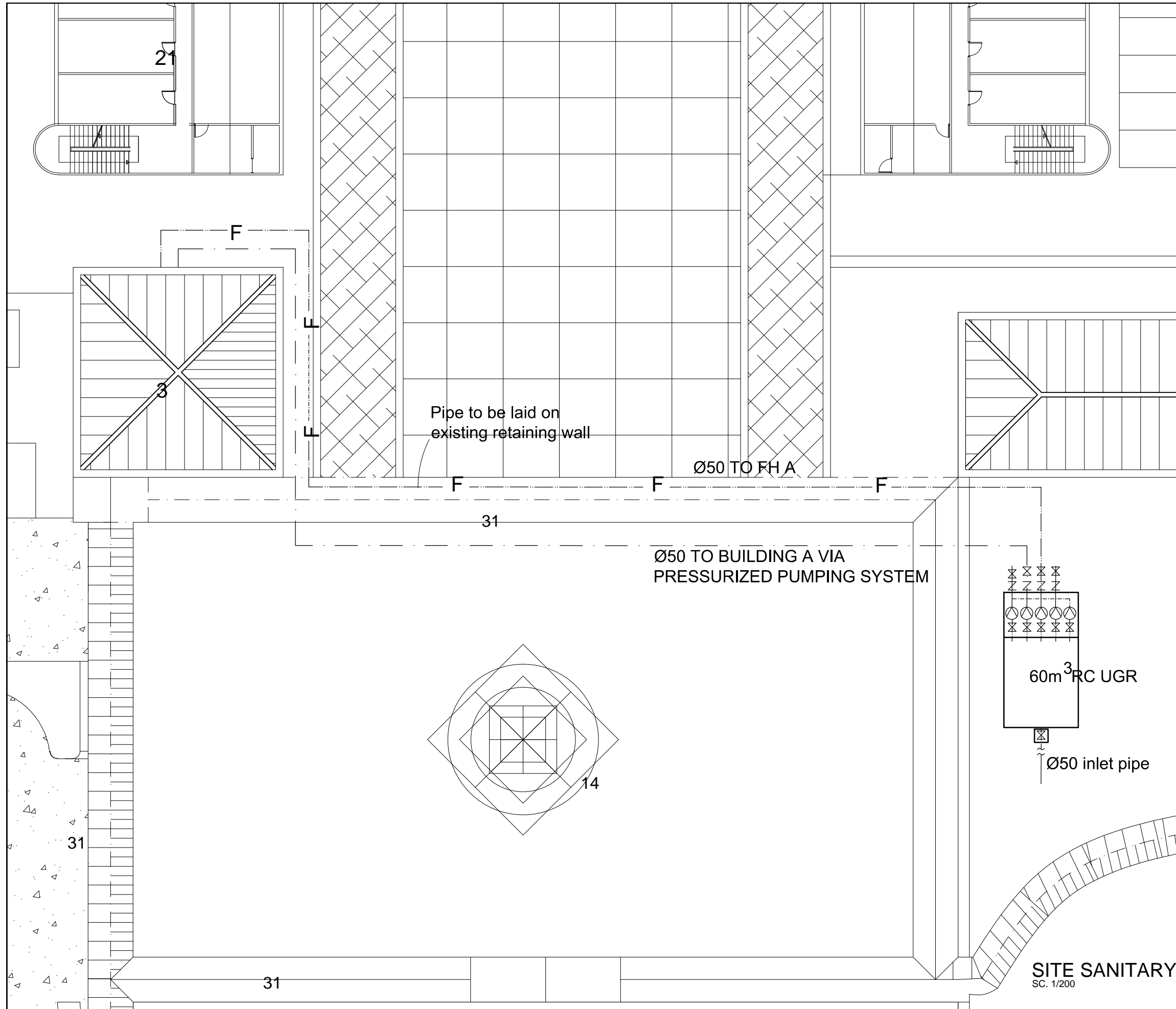
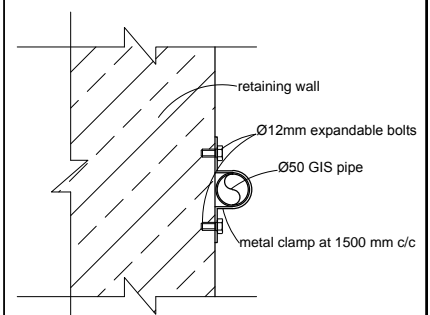


SANITARY DRAWINGS



LEGEND

- · — COLD WATER PIPE(GSP)
- · · — HOT WATER PIPE(GSP)
- > — WASTE WATER DRAINAGE PIPE
- F — PIPE LINE TO FIRE HYDRANTS
- > — GATE VALVE
- HWB HAND WASH BASIN
- WC WATER CLOSET
- SH SHOWER
- FD FLOOR DRAIN
- MH MANHOLE
- EWT ELEVATED WATER TANK
- UGR UNDER GROUND RESERVOIR
- FH FIRE HYDRANT
- FE FIRE EXTINGUISHER
- CP CEMENT PIPE



PIPE FIXING DETAIL
SCALE 1:5

No.	CORRECTION	DATE	SIGN.

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Consulting Architects and Engineers

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PROJECT
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LOCATION
ADDIS ABABA

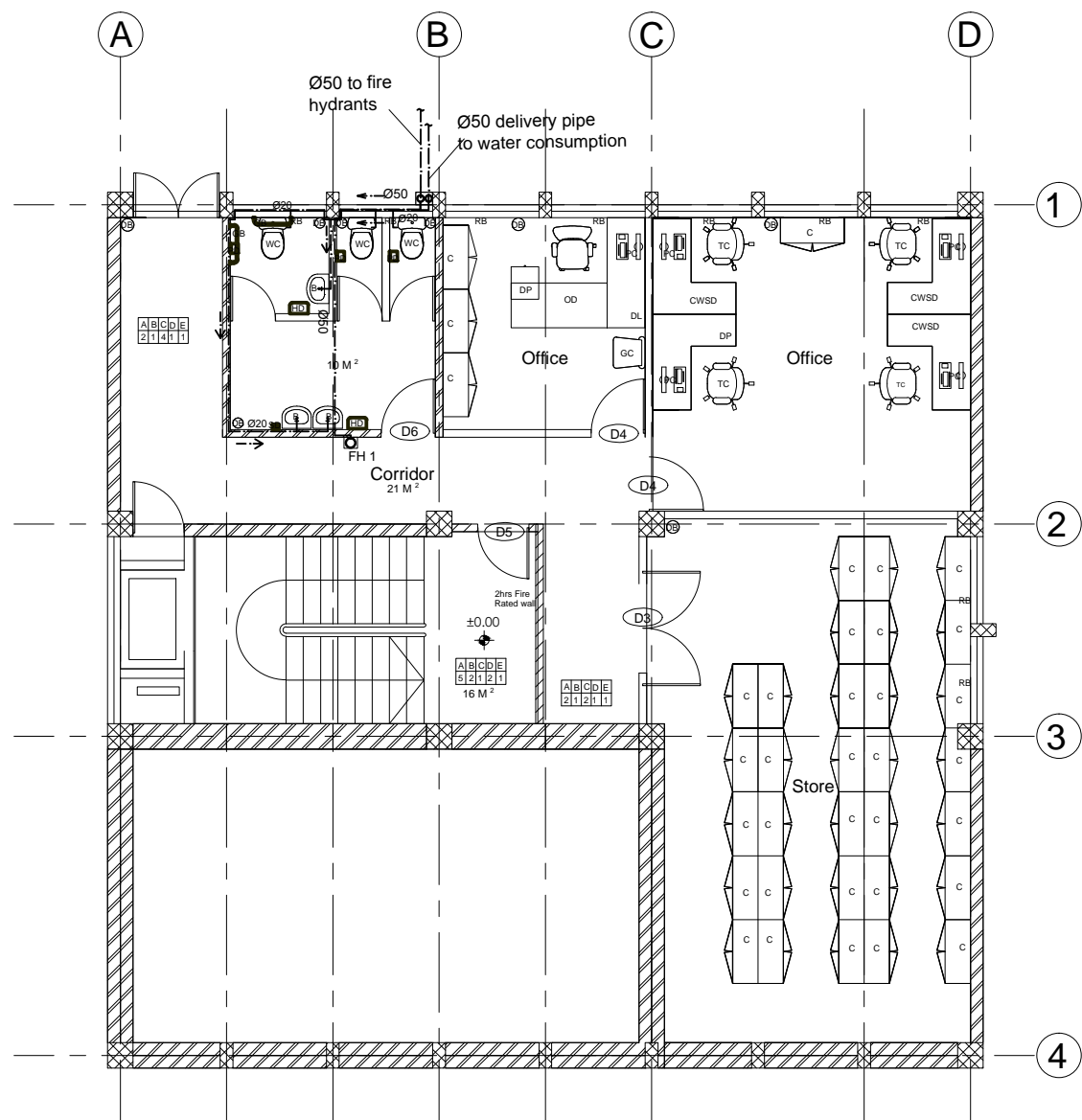
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CHECKED BY		01/01
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SITE SANITARY
SC. 1/200

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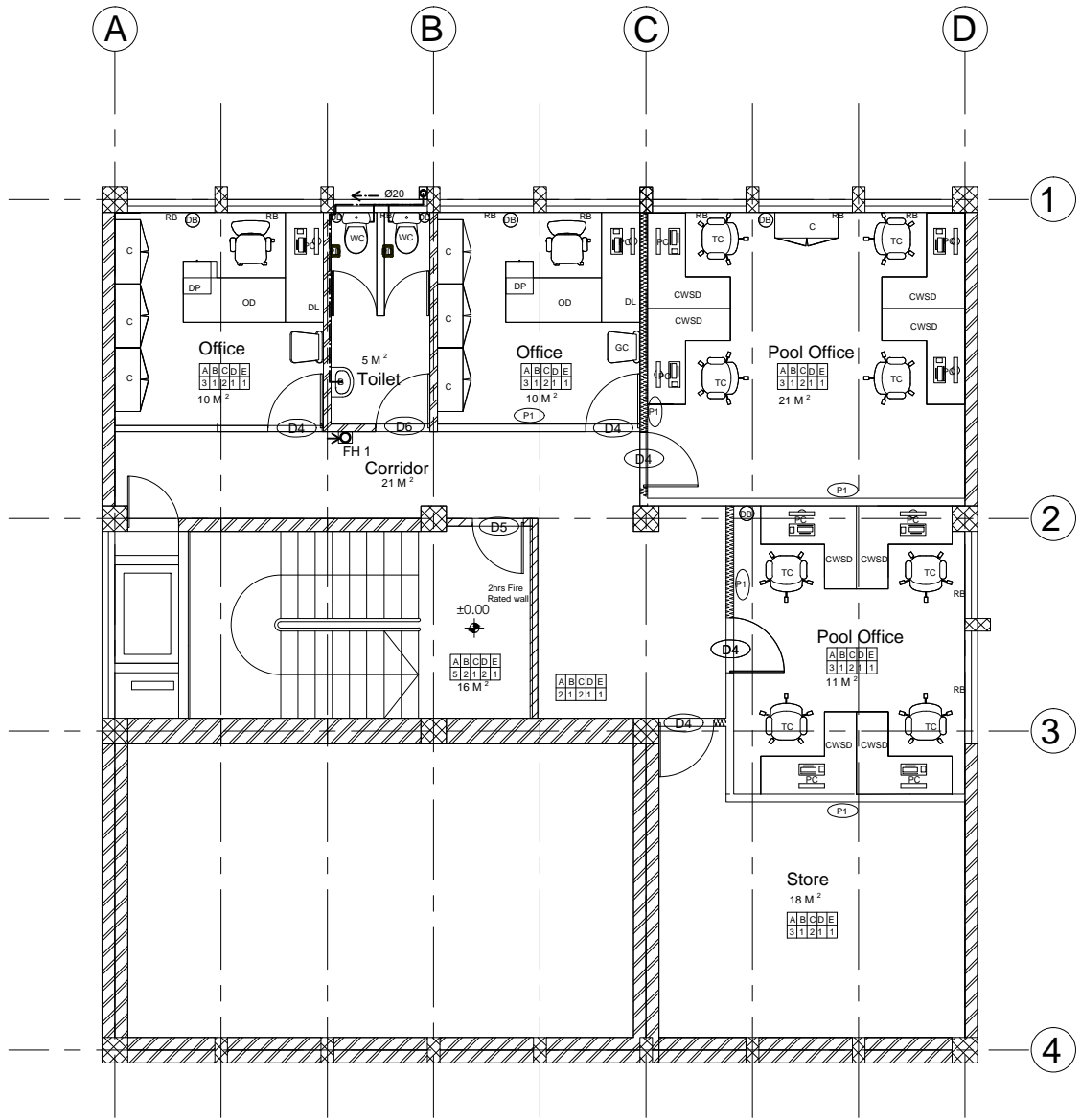
LEGEND

- PPR pipe for cold water Supply for Internal use, PN-20
- HDPE pipe for cold water Supply for External use, PN-10
- PPR pipe for hot water Supply for Internal use, PN-20
- Gate valve
- One way valve
- uPVC waste pipe, PN-6
- H.W. - Hand wash basin
- W.C. - Low flush water closet
- K.S. - Kitchen sink
- SH. - Shower
- F.D. - Floor drain
- M.H. - Manhole
- E.W.H. - Electric Water Heater
- D/P - Down Pipe
- CP. - Concrete Pipe
- EWT - Elevated water tank
- W.M. - Water Meter
- G.T. - Garden tap
- B.T. - Bath Tab
- JAC - Jacuzzi
- H/L - Higher level
- L/L - Lower level
- T/A - To above
- F/B - From below
- F/A - From above
- T/B - To below
- RD - Roof drain
- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser



THIRD BASEMENT FLOOR PLAN (REGISTRY ROOM)

SC 1/100



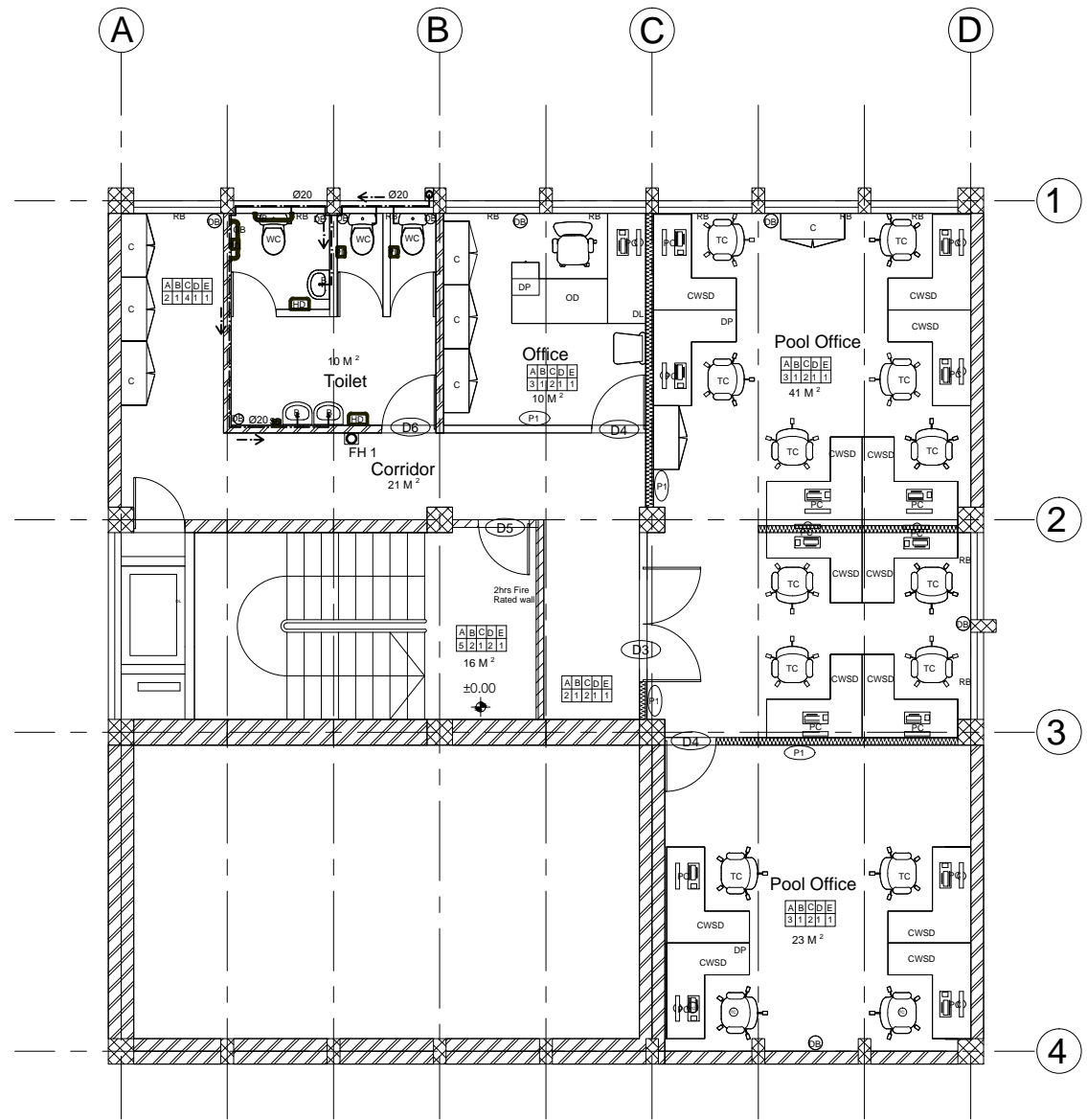
SECOND BASEMENT FLOOR PLAN (SWITCH ROOM)

SC 1/100

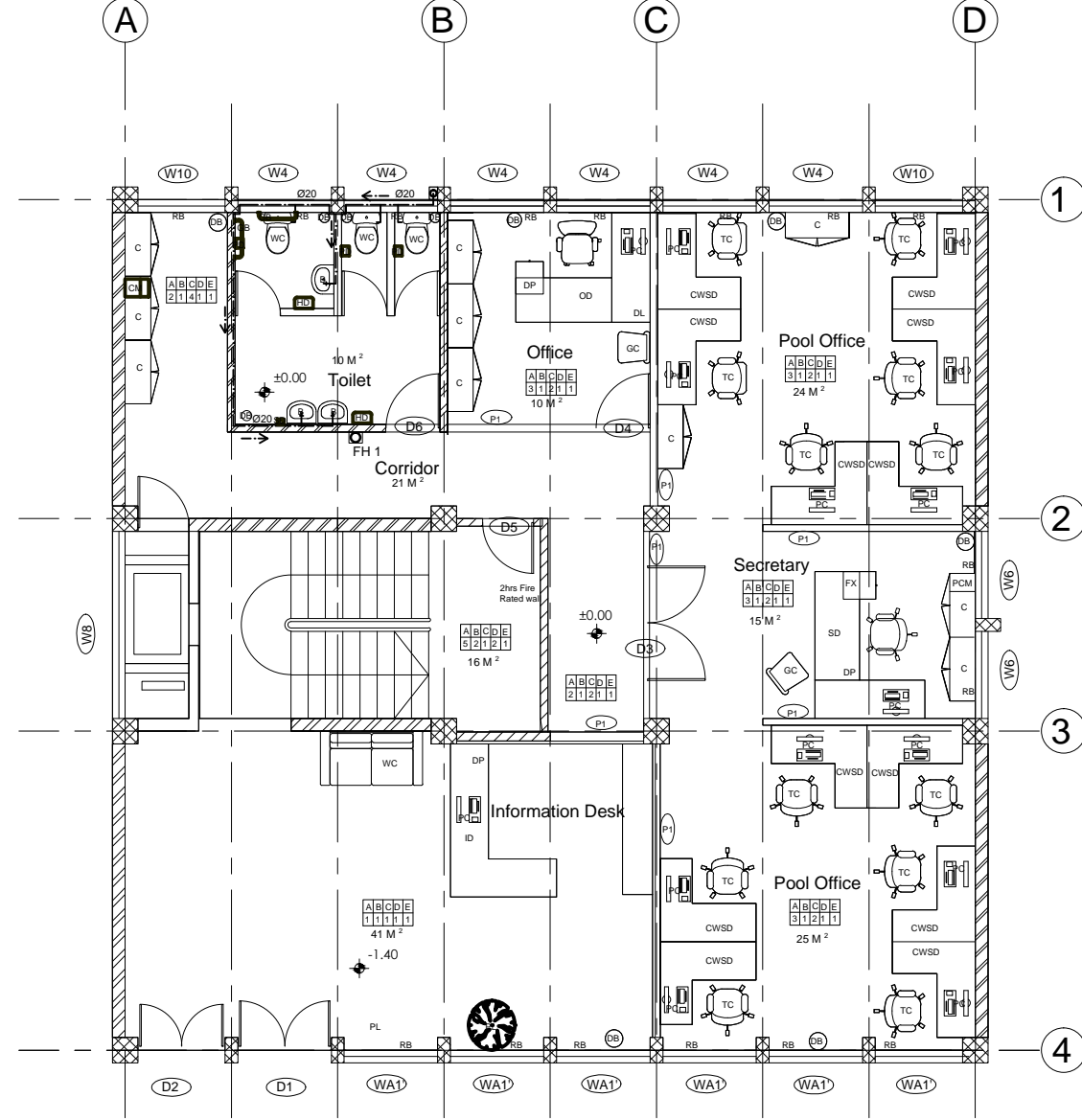
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PROJECT			
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LOCATION			
ADDIS ABABA			
DRAWING TITLE			SCALE
SANITARY INSTALLATION			1:50
			DATE
			FEB. 2019
			DR NO.
DESIGNED BY	REG. NO	SIGN	SN FIN
DRAWN BY			01/13
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- LEGEND**
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 - HDPE pipe for cold water Supply for External use, PN-10
 - PPR pipe for hot water Supply for Internal use, PN-20
 - Gate valve
 - One way valve
 - uPVC waste pipe, PN-6
 - H.W. - Hand wash basin
 - W.C. - Low flush water closet
 - K.S. - Kitchen sink
 - SH. - Shower
 - F.D. - Floor drain
 - M.H. - Manhole
 - E.W.H. - Electric Water Heater
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 - W.M. - Water Meter
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 - H/L - Higher level
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 - F/A - From above
 - T/B - To below
 - RD - Roof drain
 - F.H. - Fire hydrant
 - FCO - Floor clean out
 - CO - Clean out
 - (W1) - Water Supply Riser
 - (S1) - Waste Water Riser



FIRST BASEMENT FLOOR PLAN (COORDINATORS)
SC 1/100



GROUND FLOOR PLAN
SC 1/100

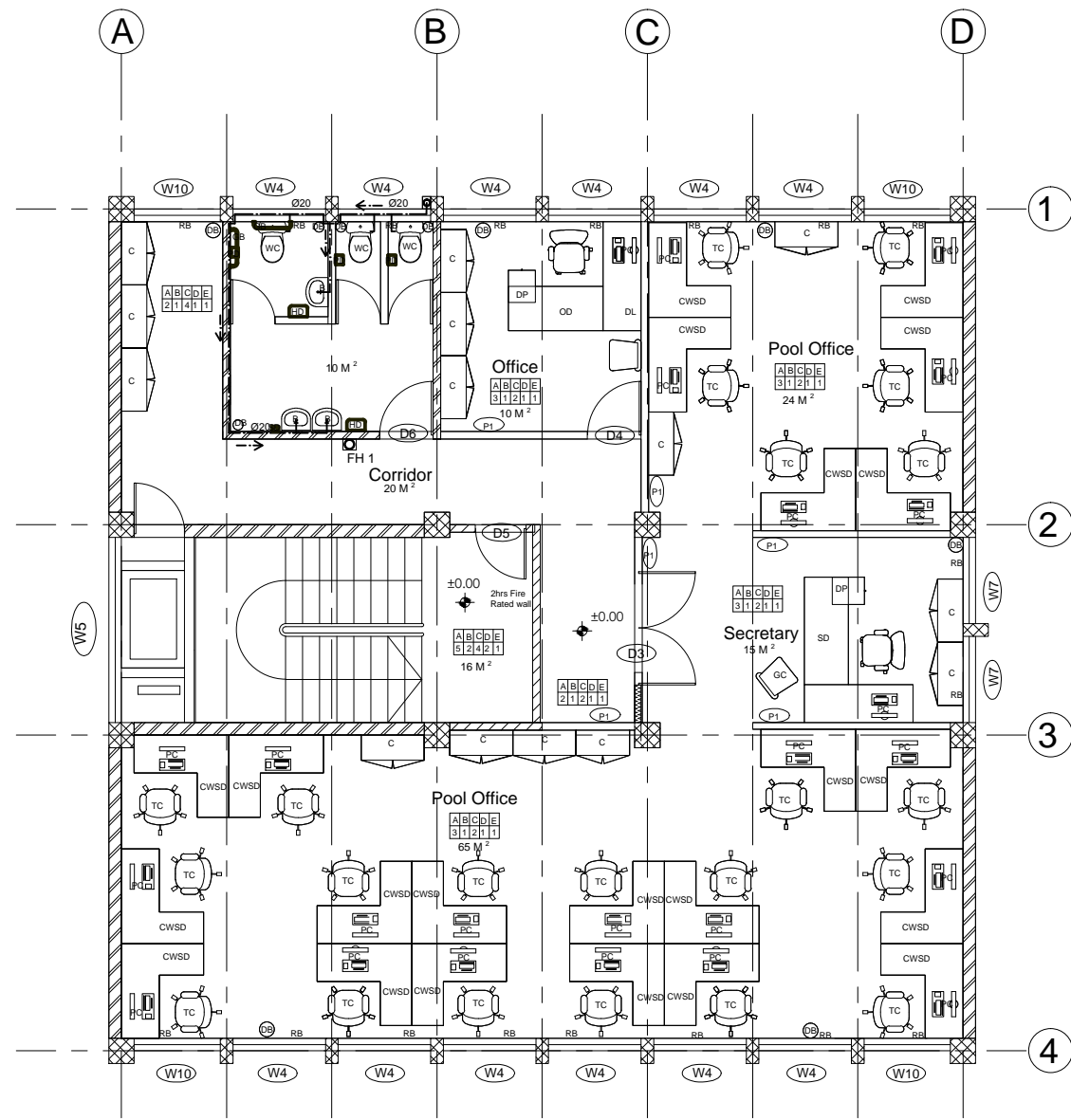
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LOCATION			
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CHECKED BY			SN FIN
APPROVED BY			02/13

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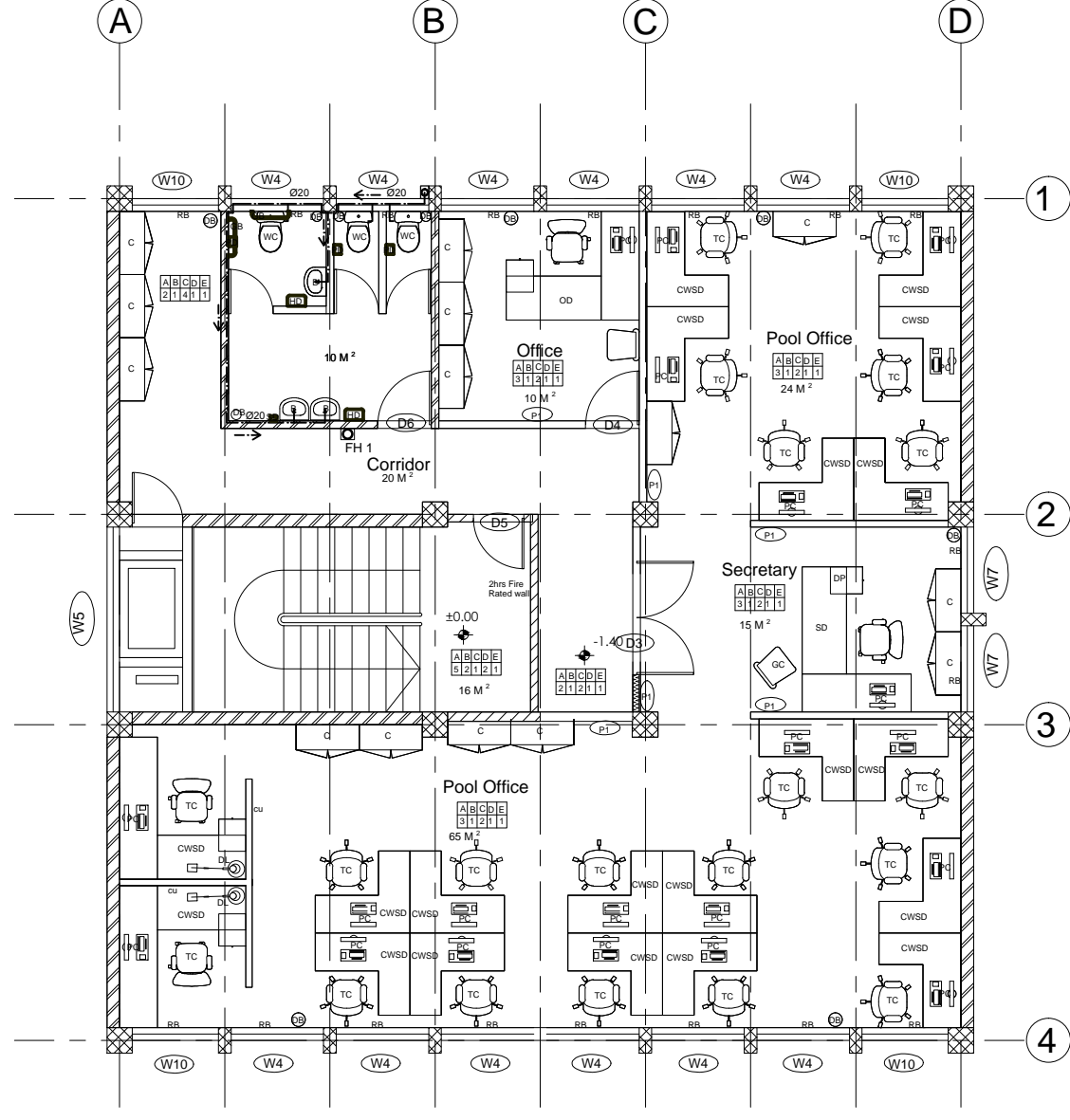
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- HDPE pipe for cold water
Supply for External use, PN-10
- PPR pipe for hot water
Supply for Internal use, PN-20
- Gate valve
- One way valve
- uPVC waste pipe, PN-6
- H.W. - Hand wash basin
- W.C. - Low flush water closet
- K.S. - Kitchen sink
- SH. - Shower
- F.D. - Floor drain
- M.H. - Manhole
- E.W.H. - Electric Water Heater
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- F/B - From below
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- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser



FIRST FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100



SECOND FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100

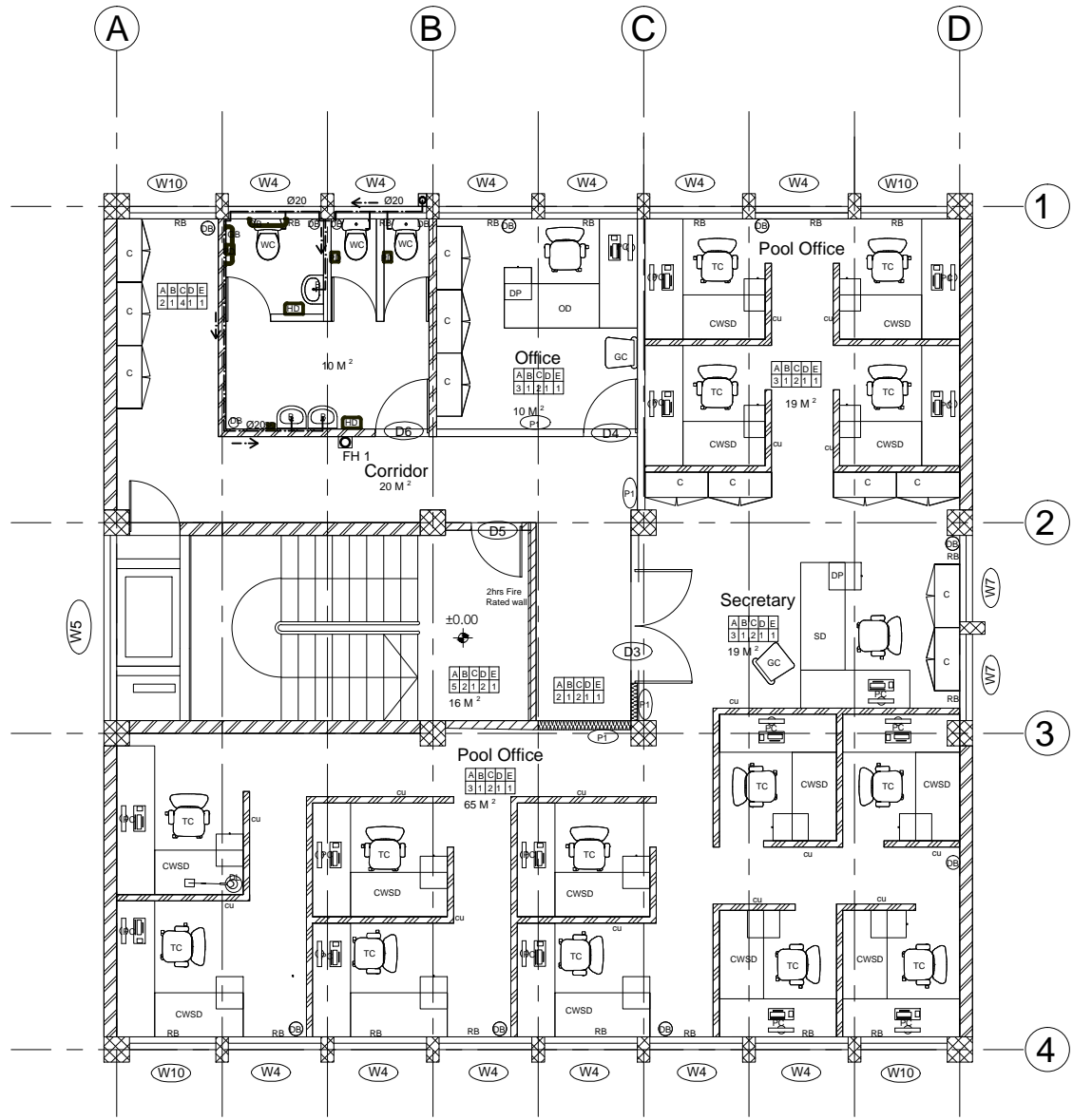
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LOCATION ADDIS ABABA			
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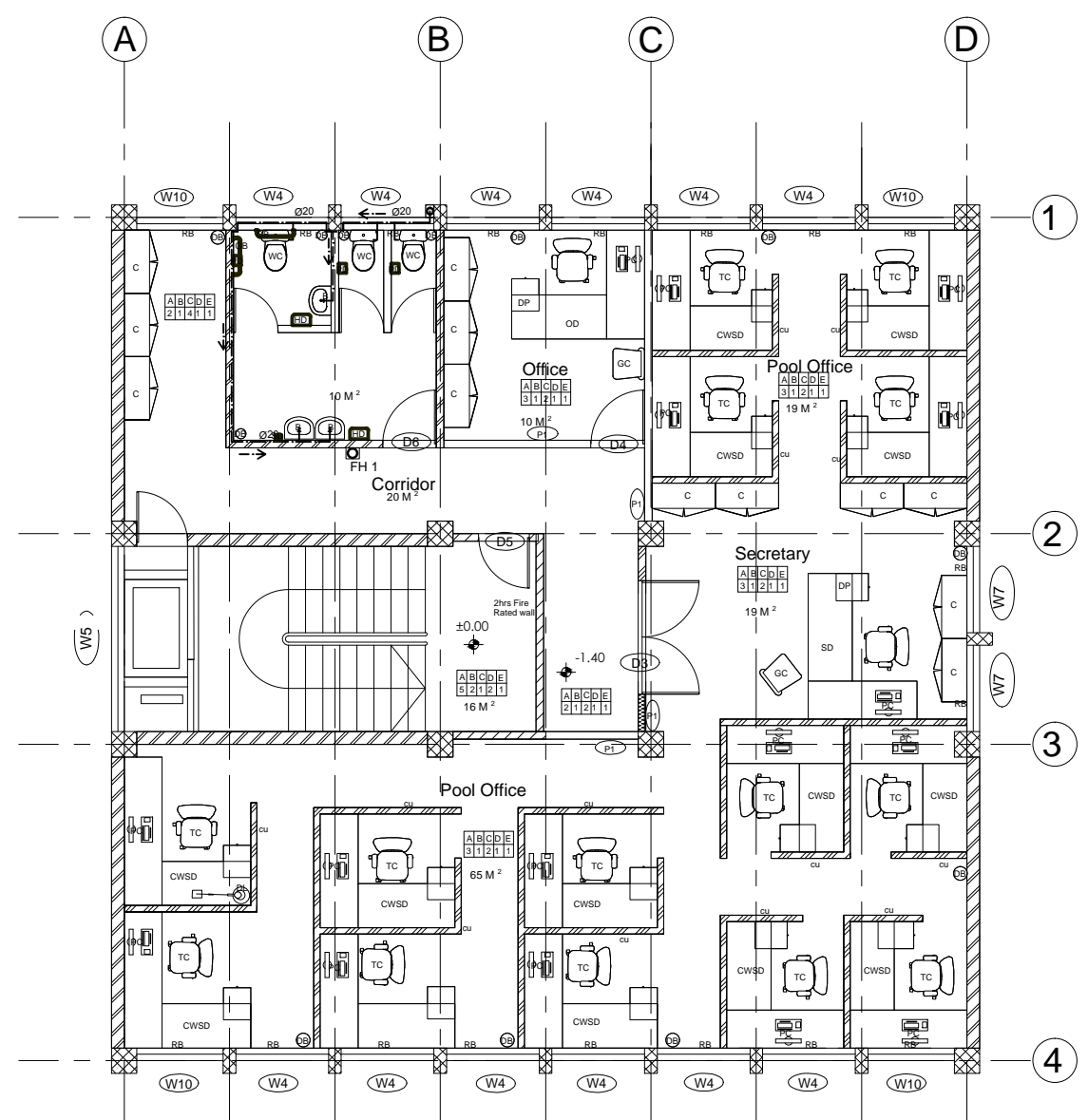
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Supply for External use, PN-10
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Supply for Internal use, PN-20
- Gate valve
- One way valve
- uPVC waste pipe, PN-6
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- F/B - From below
- F/A - From above
- T/B - To below
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- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser



THIRD FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100



FOURTH FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100

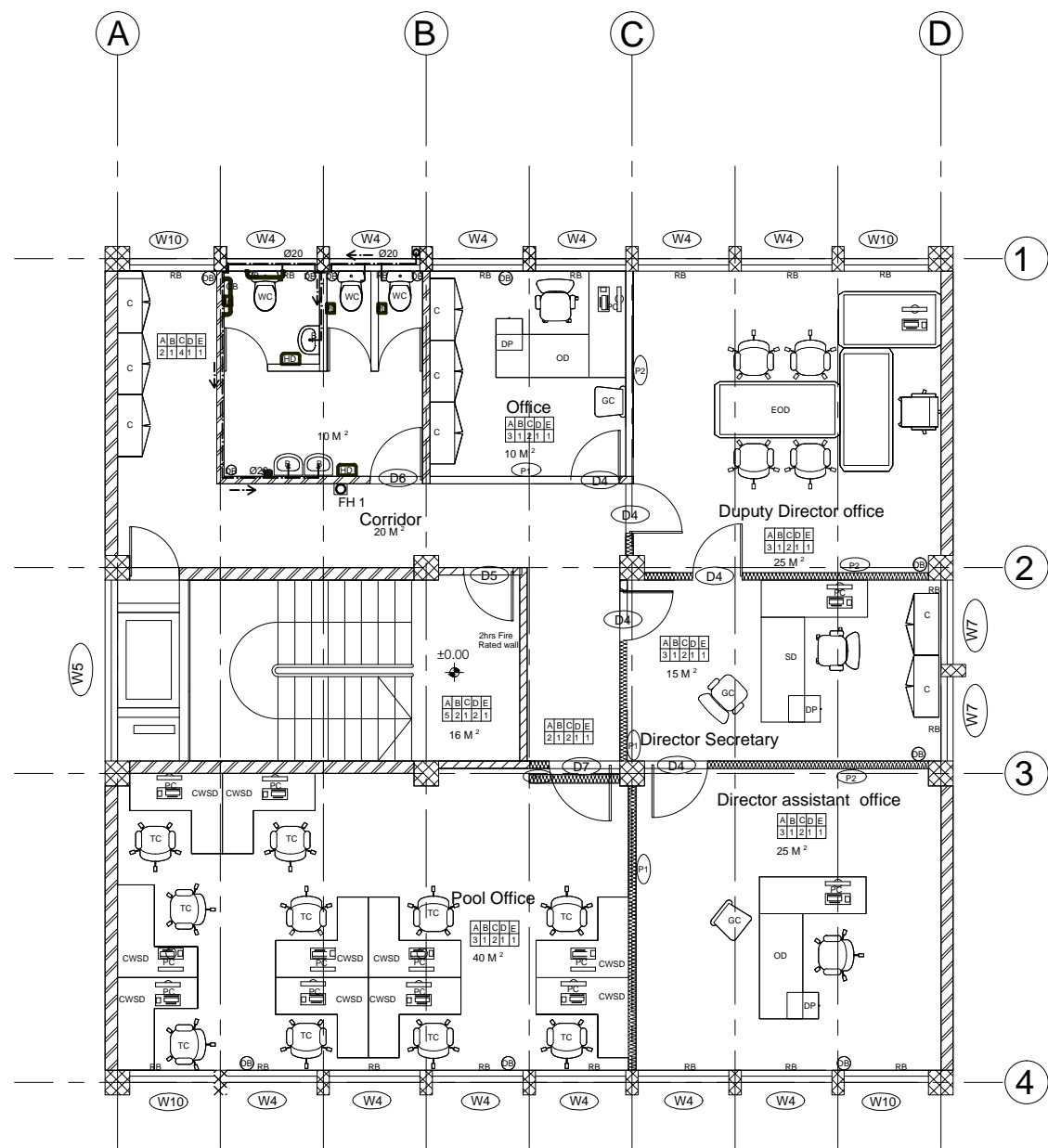
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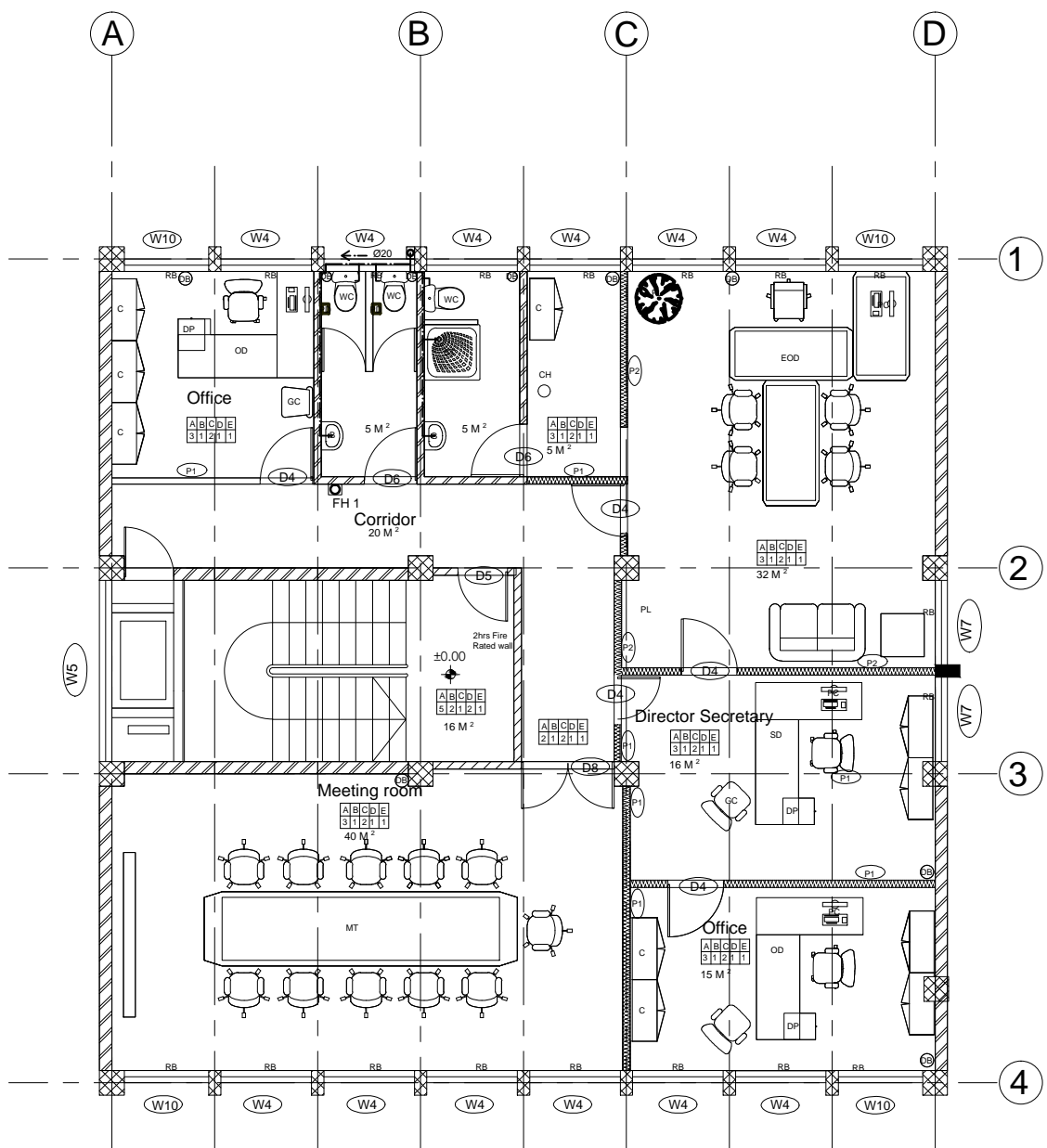
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- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser



FIFTH FLOOR PLAN
SC 1/100
(DEPUTY DIRECTOR OFFICE)



SIXTH FLOOR PLAN
SC 1/100
(DIRECTOR OFFICE)

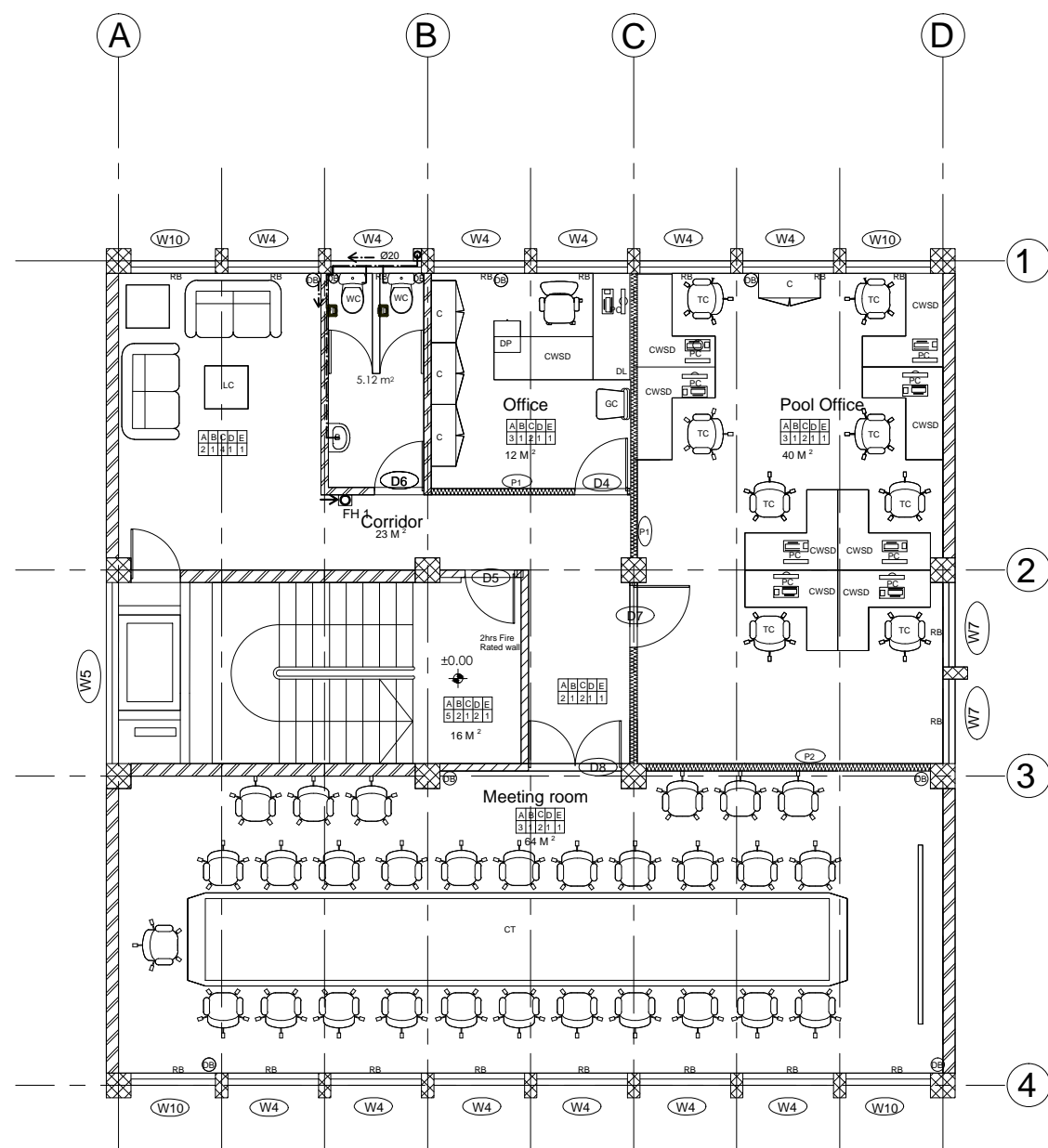
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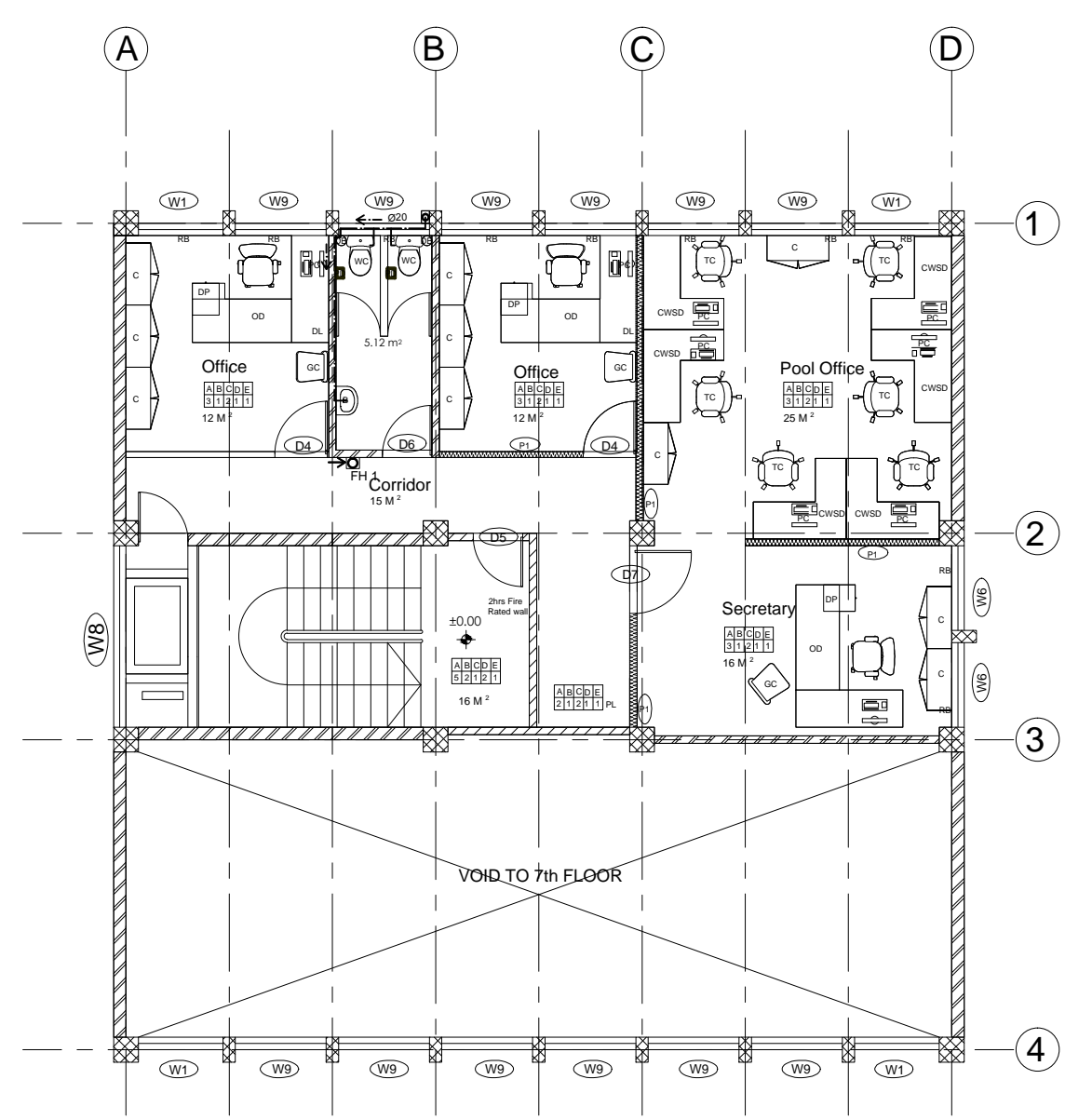
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- ALL PIPE DIAMETERS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- UNDERGROUND PIPES SHALL BE BURIED TO MINIMUM DEPTH OF 50 CM BELOW THE TOP OF THE GROUND AND AT A MINIMUM DISTANCE OF 50 CM FROM THE BUILDING.
- ALL PIPING PASSING THROUGH THE WALL, SLAB, BEAMS OR ANY PART OF THE BUILDING, SHALL BE PROTECTED FROM BREAKAGE AND PROVIDED WITH PIPE SLEEVES.
- ALL PLUMBING WORKS PERFORMED SHOULD BE CARRIED BY LICENSED PLUMBER.
- ALL MATERIALS, METHOD OF INSTALLATION AND QUALITY OF WORKMANSHIP SHOULD BE SUBJECT TO THE APPROVAL OF THE SANITARY ENGINEER.
- INTERNAL INSTALLATION OF COLD AND HOT WATER PIPES SHOULD BE POLYPROPYLENE RANDOM COPOLYMER RESIN PP, TYPE 3 RAW MATERIAL, PPR PIPES OF MINIMUM PN-20.
ALL COLD & HOT WATER PIPES ARE RUNNING AT ABOVE FALSE CEILING. ALL WATER SUPPLY PIPE DIAMETERS GIVEN ARE NOMINAL (INTERNAL) DIAMETER.
- FLOOR SLAB OF ALL WET AREAS (TOILET, KITCHEN, SHOWER, ETC.) MADE WITH APPROVED QUALITY BITUMEN EMULSION WATER PROOFING BEFORE FLOOR FINISH BEING DONE. CONSULT THE ENGINEER.
- UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) OF MINIMUM PN-6 PIPES AND FITTINGS SHOULD BE USED FOR ALL WASTE, DOWN PIPES AND VENT DRAINAGE SYSTEM.
ALL UPVC WASTE WATER PIPES SHOULD NOT BE HEATED FOR CONNECTION. ALL PIPING CONNECTION SHOULD BE MADE WITH APPROVED FITTINGS.
ALL UPVC WASTE WATER PIPE AND FITTING INSTALLATION ARE RUNNING AT ABOVE FALSE CEILING.
- ALL INSTALLATION SHALL BE ACCESSIBLE FOR FUTURE MAINTENANCE.

LEGEND

- PPR pipe for cold water supply for internal use, PN-20
- HDPE pipe for cold water supply for external use, PN-10
- PPR pipe for hot water supply for internal use, PN-20
- Gate valve
- One way valve
- uPVC waste pipe, PN-6
- H.W. - Hand wash basin
- W.C. - Low flush water closet
- K.S. - Kitchen sink
- SH. - Shower
- F.D. - Floor drain
- M.H. - Manhole
- E.W.H. - Electric Water Heater
- D/P - Down Pipe
- CP. - Concrete Pipe
- EWT - Elevated water tank
- W.M. - Water Meter
- G.T. - Garden tap
- B.T. - Bath Tab
- JAC. - Jacuzzi
- H/L - Higher level
- L/L - Lower level
- T/A - To above
- F/B - From below
- F/A - From above
- T/B - To below
- RD - Roof drain
- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser

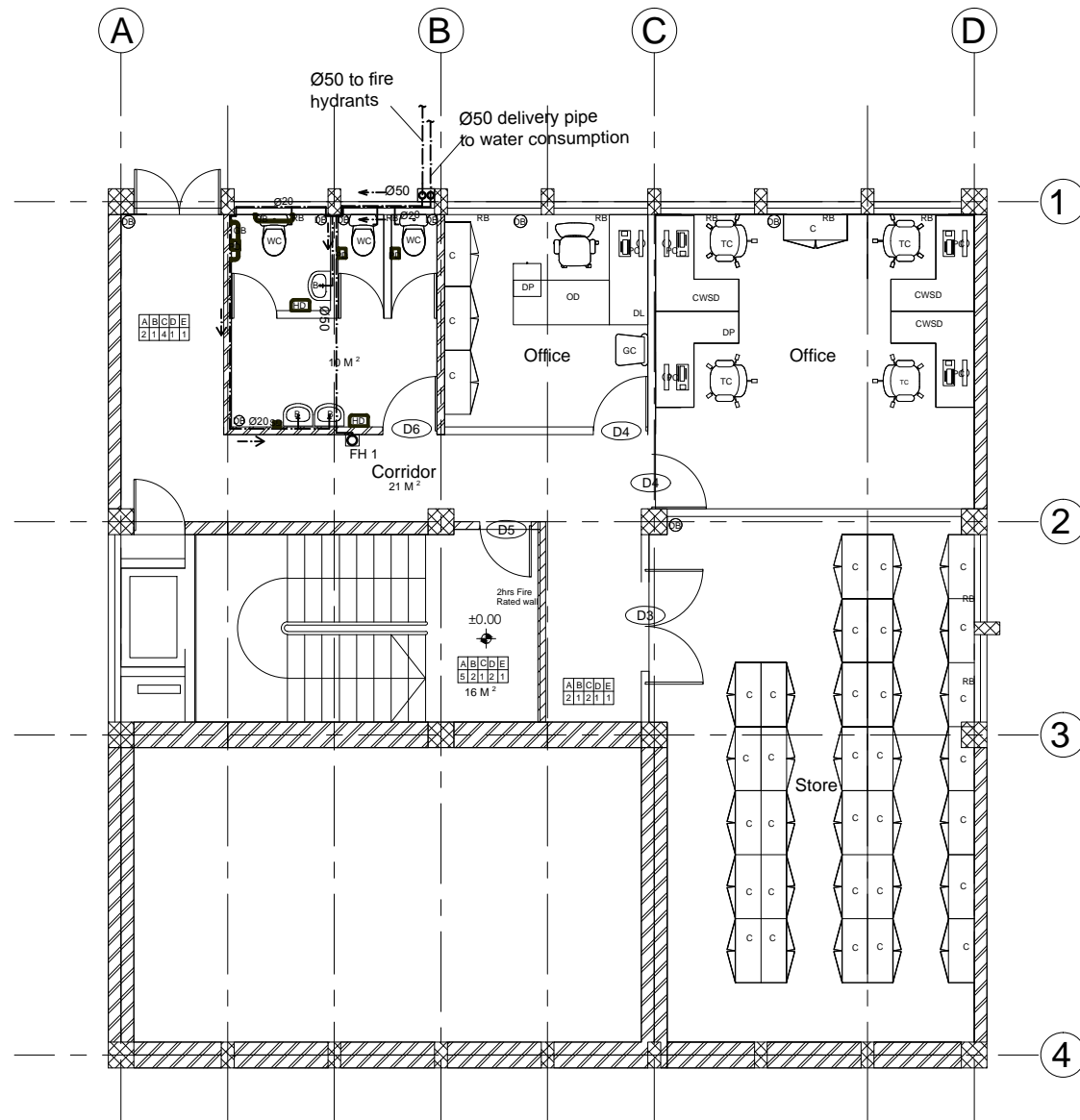


SEVENTH FLOOR PLAN (MEETING ROOMS)
SC 1/100



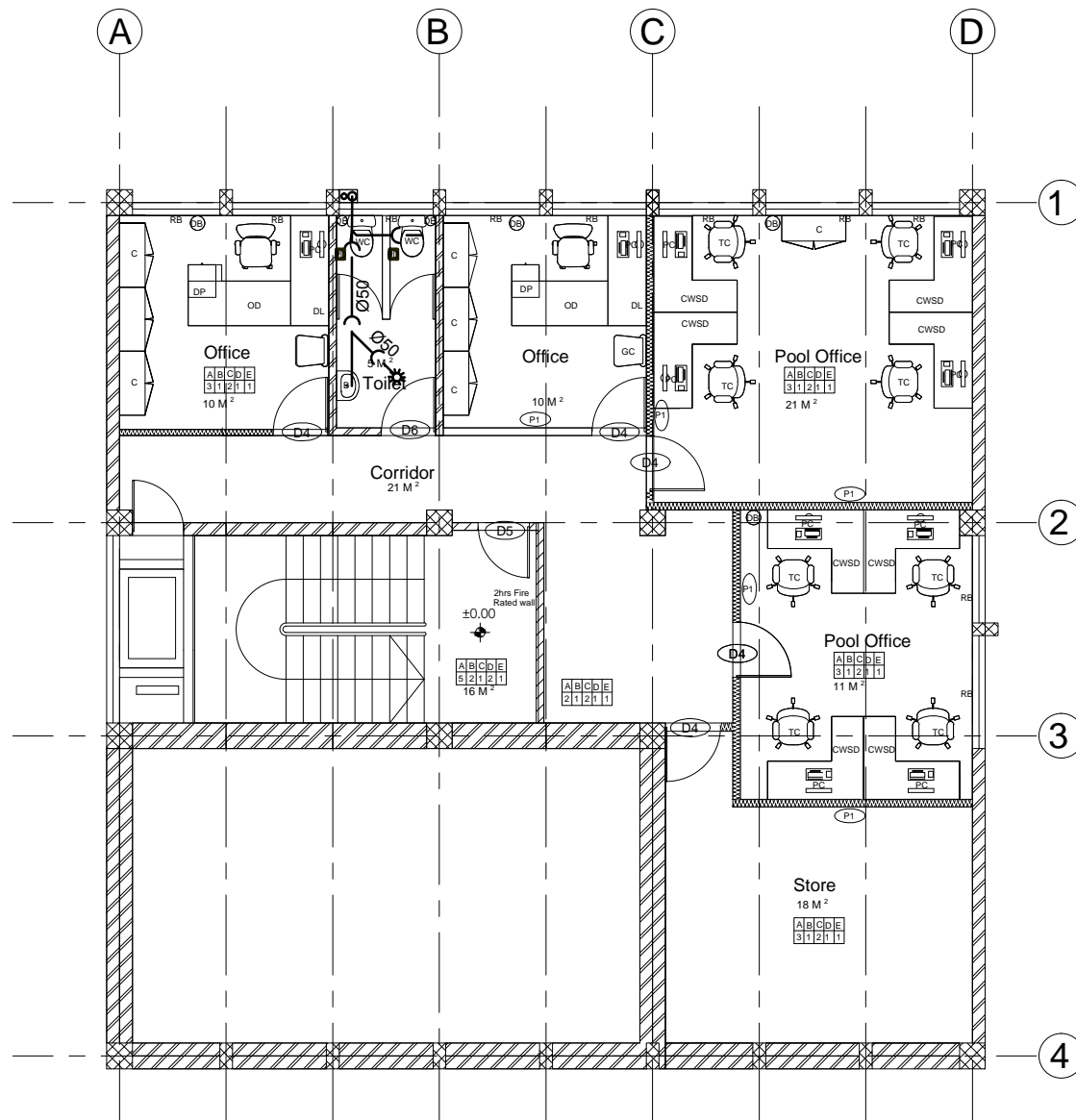
EIGHTH FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100

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CLIENT			
AFRICAN UNION COMMISSIONS (AUC)			
PROJECT			
RENOVATIONS and FURNISHING OF BUILDING A			
LOCATION			
ADDIS ABABA			
DRAWING TITLE			SCALE
SANITARY INSTALLATION			1:50
			DATE
			FEB. 2019
			DR NO.
DESIGNED BY	REG. NO	SIGN	SN FIN
DRAWN BY			06/13
CHECKED BY			
APPROVED BY			



THIRD BASEMENT FLOOR PLAN (REGISTRY ROOM)

SC 1/100



SECOND BASEMENT FLOOR PLAN (SWITCH ROOM)

SC 1/100

NOTE

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LEGEND

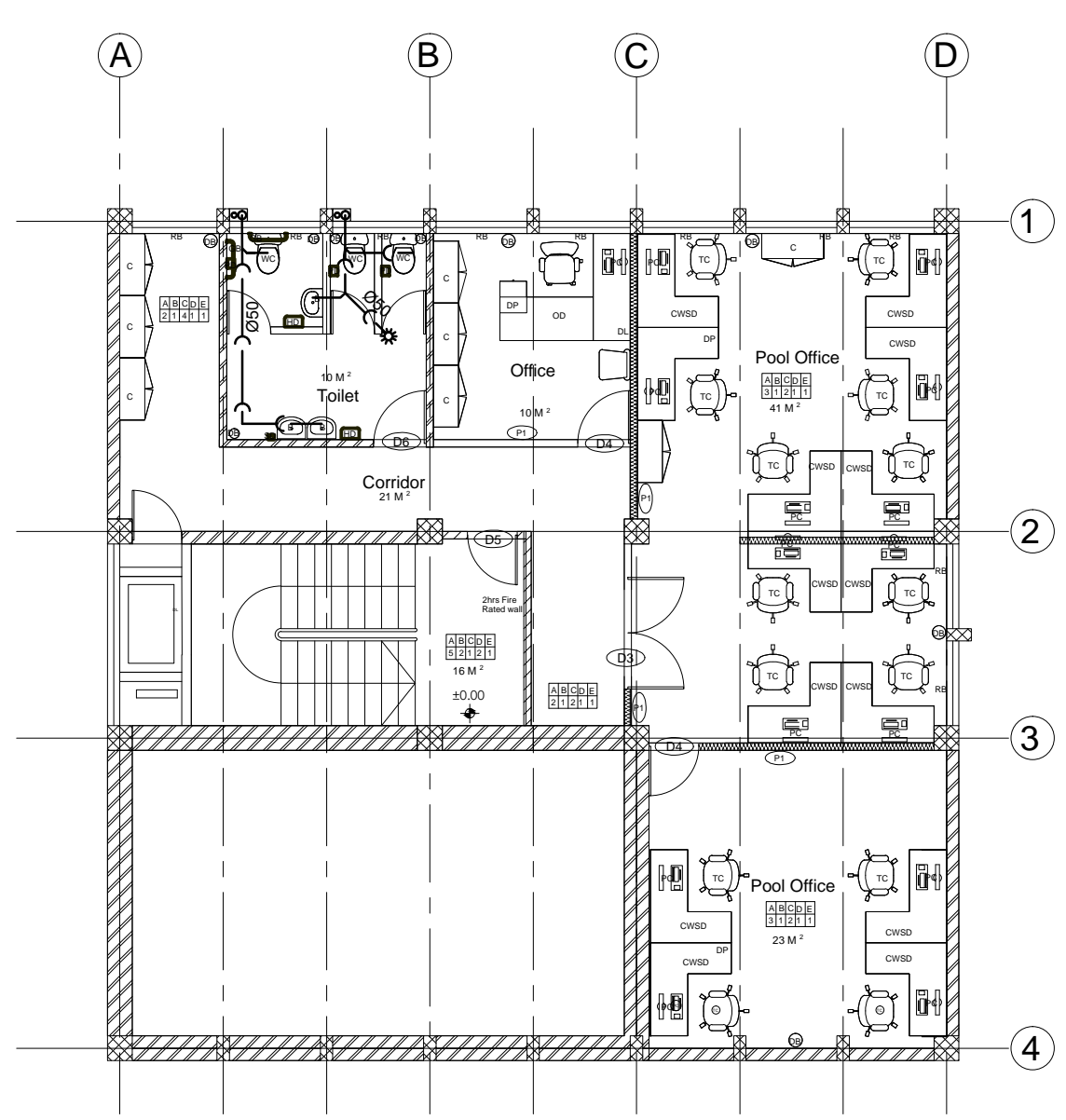
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- HDPE pipe for cold water Supply for External use, PN-10
- PPR pipe for hot water Supply for Internal use, PN-20
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- One way valve
- uPVC waste pipe, PN-6
- H.W. - Hand wash basin
- W.C. - Low flush water closet
- K.S. - Kitchen sink
- SH. - Shower
- F.D. - Floor drain
- M.H. - Manhole
- E.W.H. - Electric Water Heater
- DP - Down Pipe
- CP - Concrete Pipe
- EWT - Elevated water tank
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- B.T. - Bath Tab
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- F/A - From above
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- RD - Roof drain
- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser

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AFRICAN UNION COMMISSIONS (AUC)			
PROJECT			
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LOCATION			
ADDIS ABABA			
DRAWING TITLE			SCALE
SANITARY INSTALLATION			1:50
			DATE
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			DR NO.
DESIGNED BY	REG. NO	SIGN	SN FIN
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APPROVED BY			

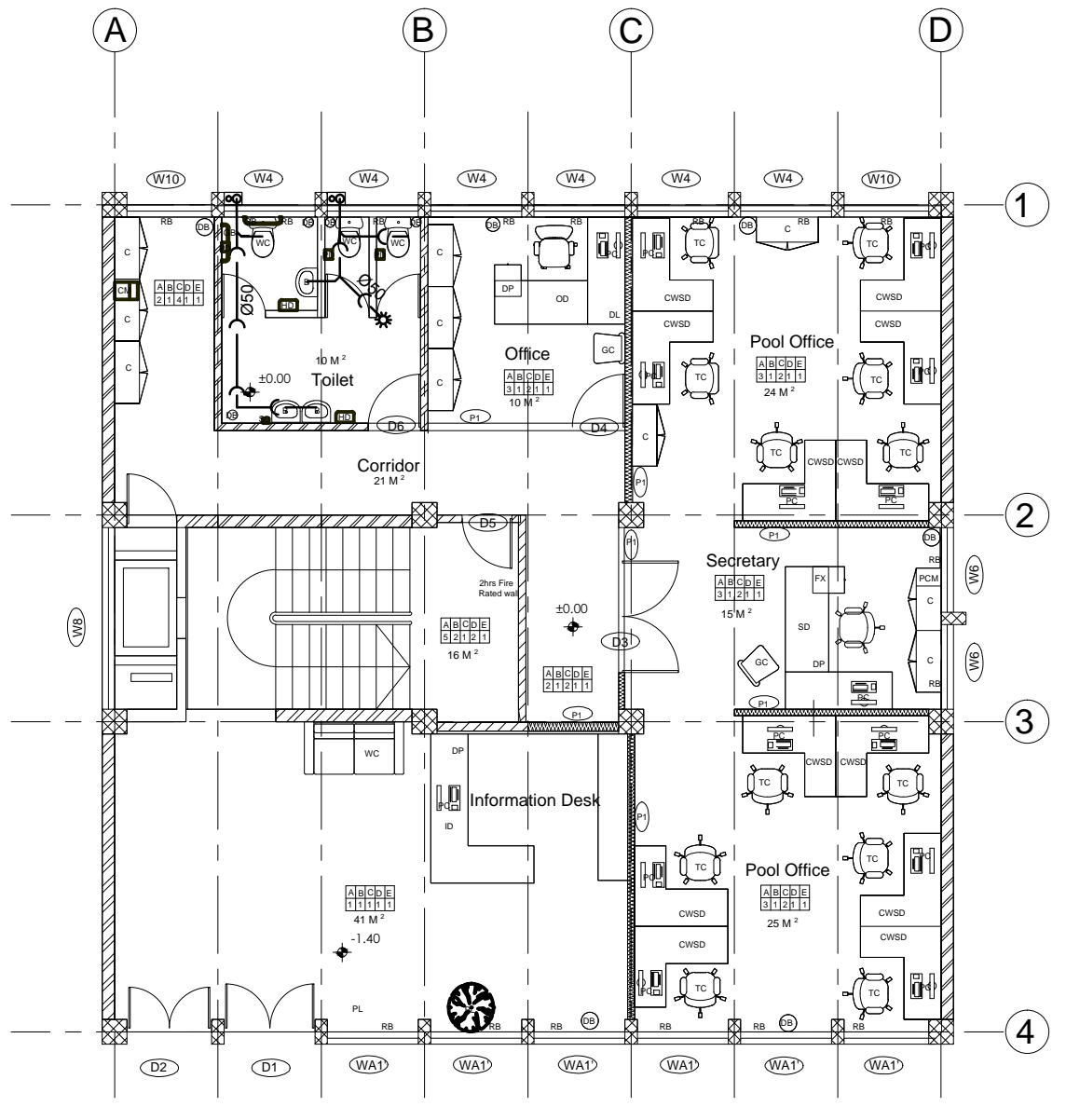
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LEGEND

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- One way valve
- uPVC waste pipe, PN-6
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- F/A - From above
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- RD - Roof drain
- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- W1 - Water Supply Riser
- S1 - Waste Water Riser



FIRST BASEMENT FLOOR PLAN (COORDINATORS)
SC 1/100



GROUND FLOOR PLAN
SC 1/100

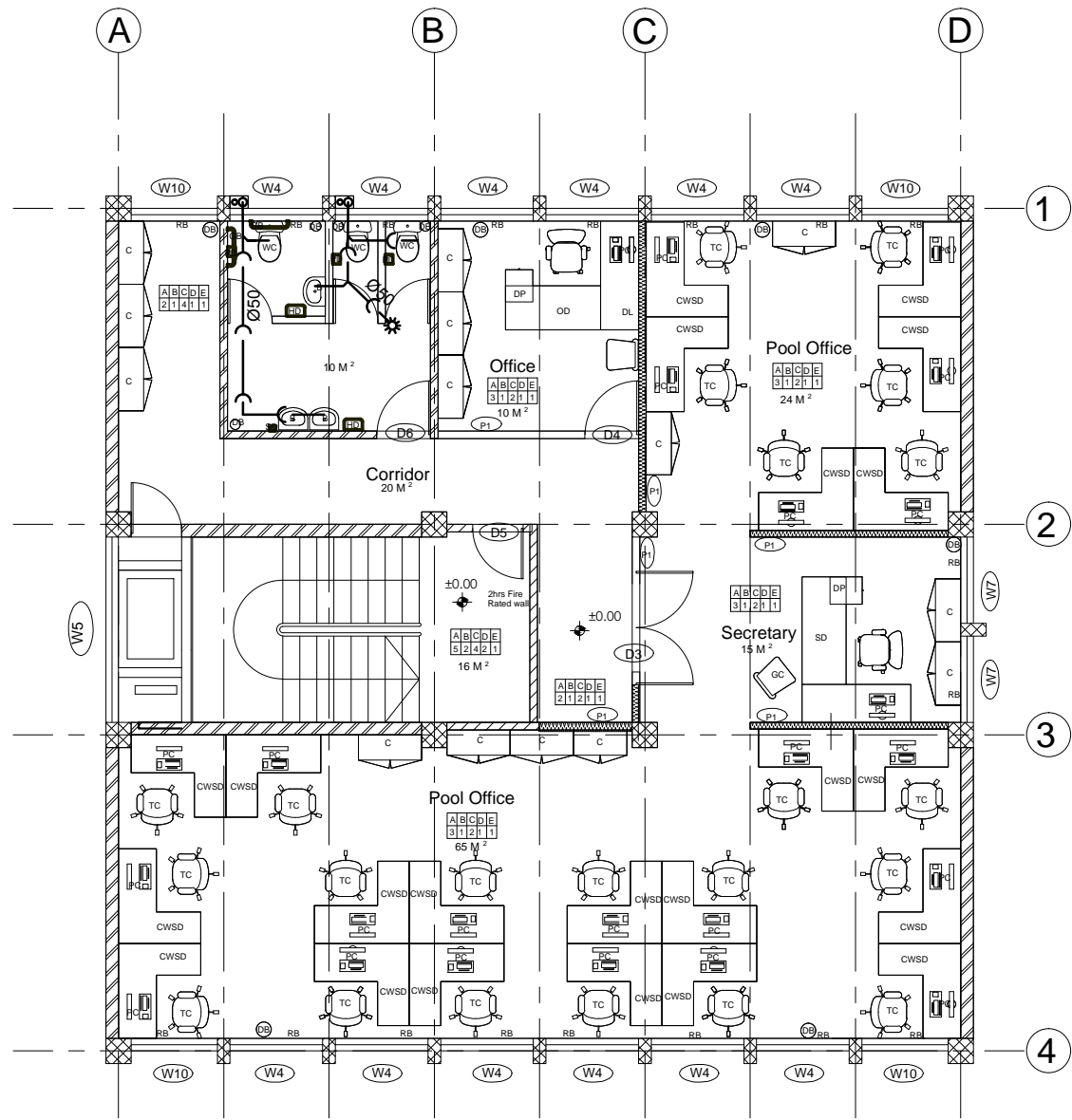
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RENOVATIONS and FURNISHING OF BUILDING A			
LOCATION			
ADDIS ABABA			
DRAWING TITLE			SCALE
SANITARY INSTALLATION			1:50
			DATE
			FEB. 2019
			DR NO.
DESIGNED BY	REG. NO	SIGN	SN FIN
DRAWN BY			
CHECKED BY			08/13
APPROVED BY			

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LEGEND

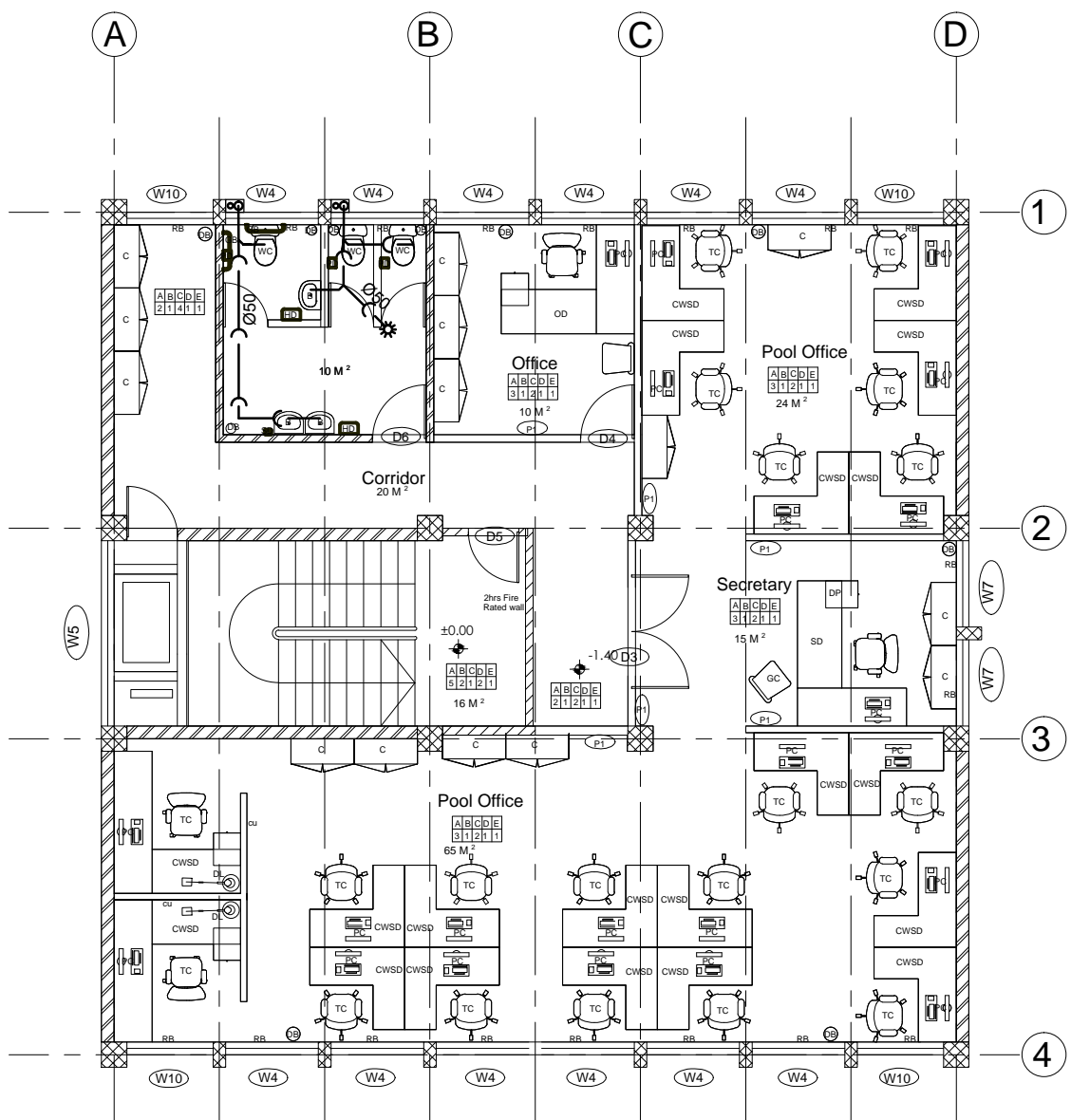
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- HDPE pipe for cold water Supply for External use, PN-10
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- One way valve
- uPVC waste pipe, PN-6
- H.W. - Hand wash basin
- W.C. - Low flush water closet
- K.S. - Kitchen sink
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- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser



FIRST FLOOR PLAN

(GENERAL STAFFS OFFICE)

SC 1/100



SECOND FLOOR PLAN

(GENERAL STAFFS OFFICE)

SC 1/100

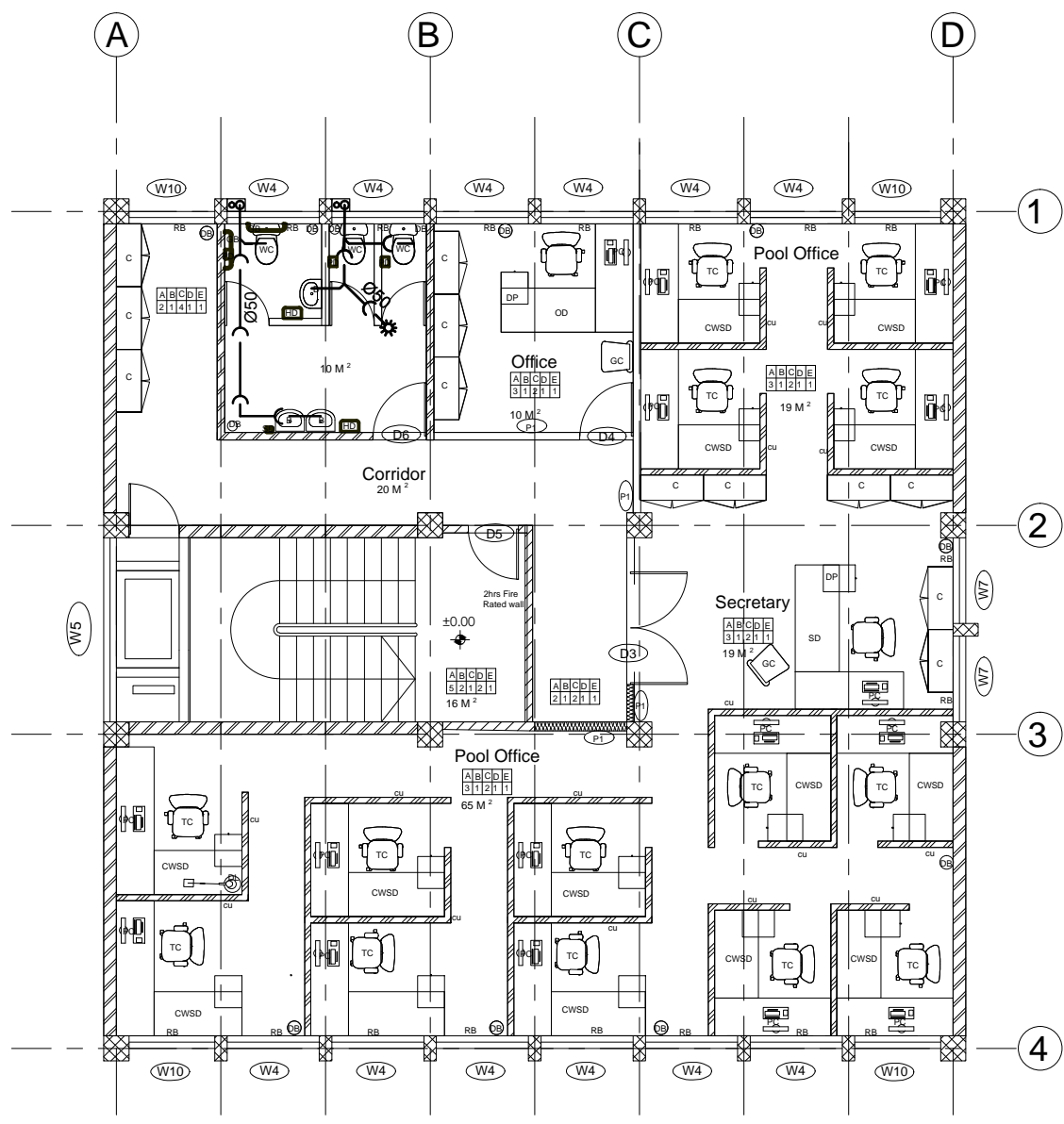
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CLIENT			
AFRICAN UNION COMMISSIONS (AUC)			
PROJECT			
RENOVATIONS and FURNISHING OF BUILDING A			
LOCATION			
ADDIS ABABA			
DRAWING TITLE			SCALE
SANITARY INSTALLATION			1:50
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NOTE

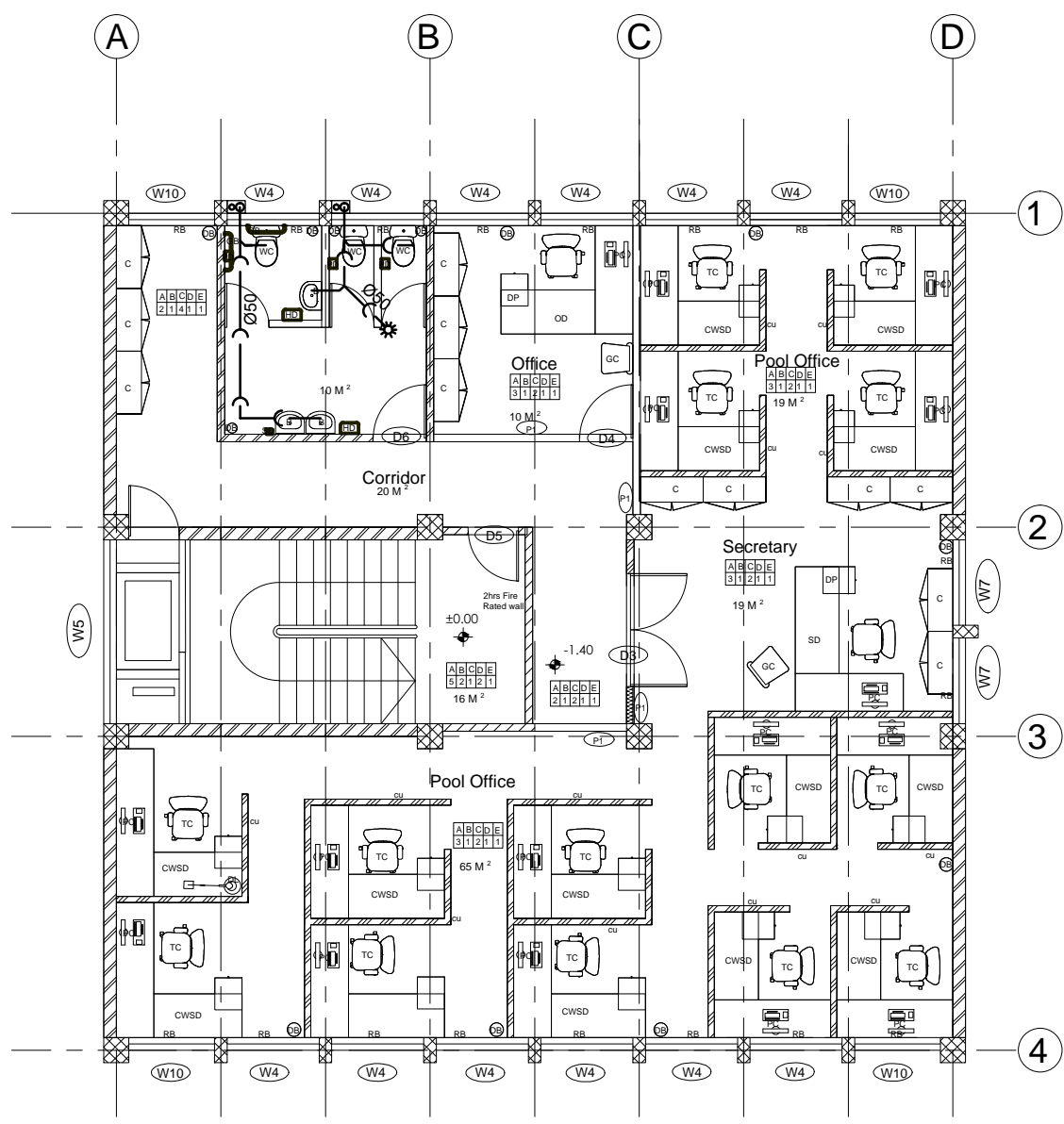
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- (W1) - Water Supply Riser
- (S1) - Waste Water Riser



THIRD FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100



FOURTH FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100

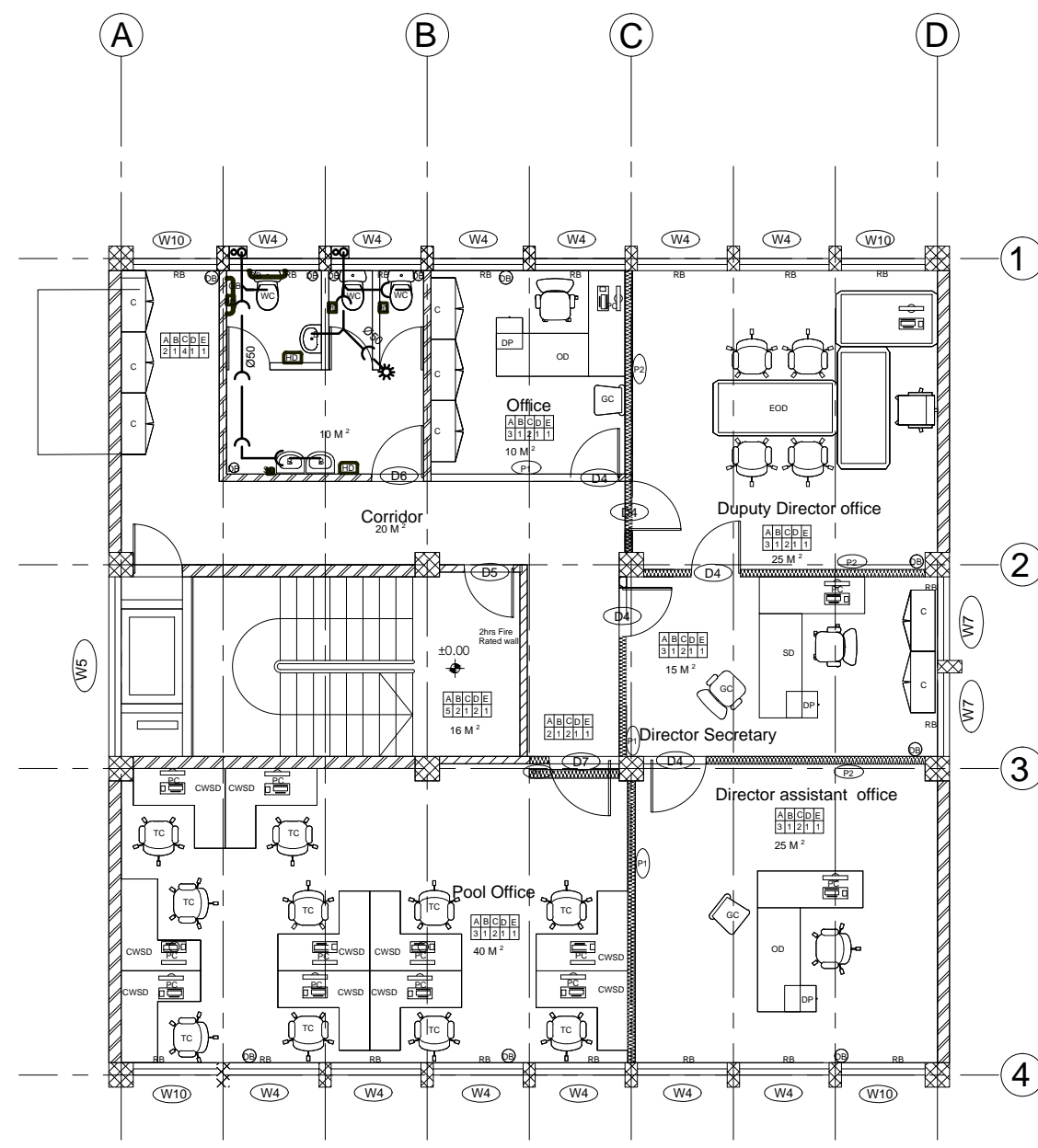
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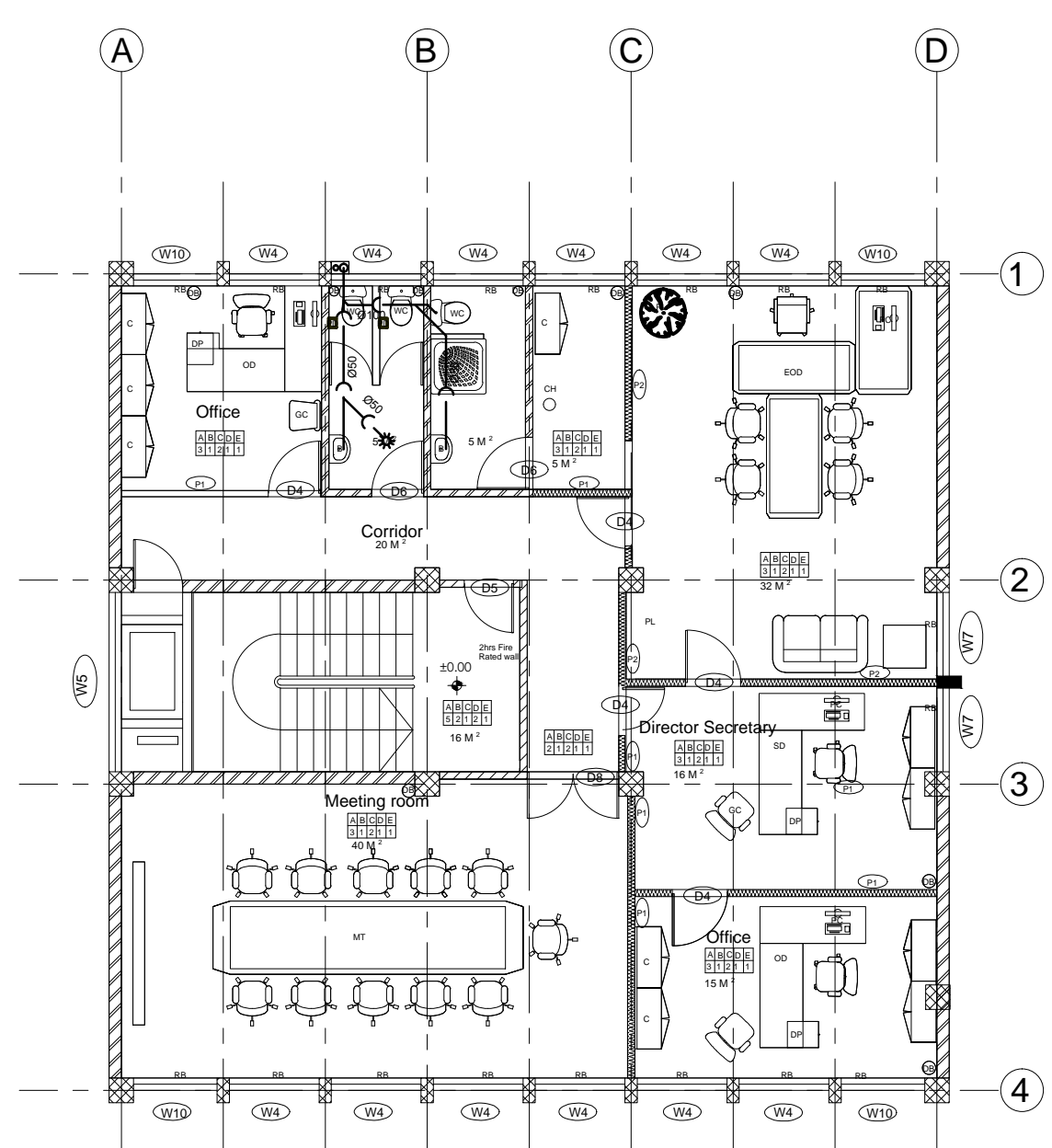
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- D/P - Down Pipe
- CP. - Concrete Pipe
- EWT - Elevated water tank
- W.M. - Water Meter
- G.T. - Garden tap
- B.T. - Bath Tab
- JAC. - Jacuzzi
- H/L - Higher level
- L/L - Lower level
- T/A - To above
- F/B - From below
- F/A - From above
- T/B - To below
- RD - Roof drain
- F.H. - Fire hydrant
- FCO - Floor clean out
- CO - Clean out
- (W1) - Water Supply Riser
- (S1) - Waste Water Riser



FIFTH FLOOR PLAN
SC 1/100

(DEPUTY DIRECTOR OFFICE)



SIXTH FLOOR PLAN
SC 1/100

(DIRECTOR OFFICE)

No.	CORRECTION	DATE	SIGN.

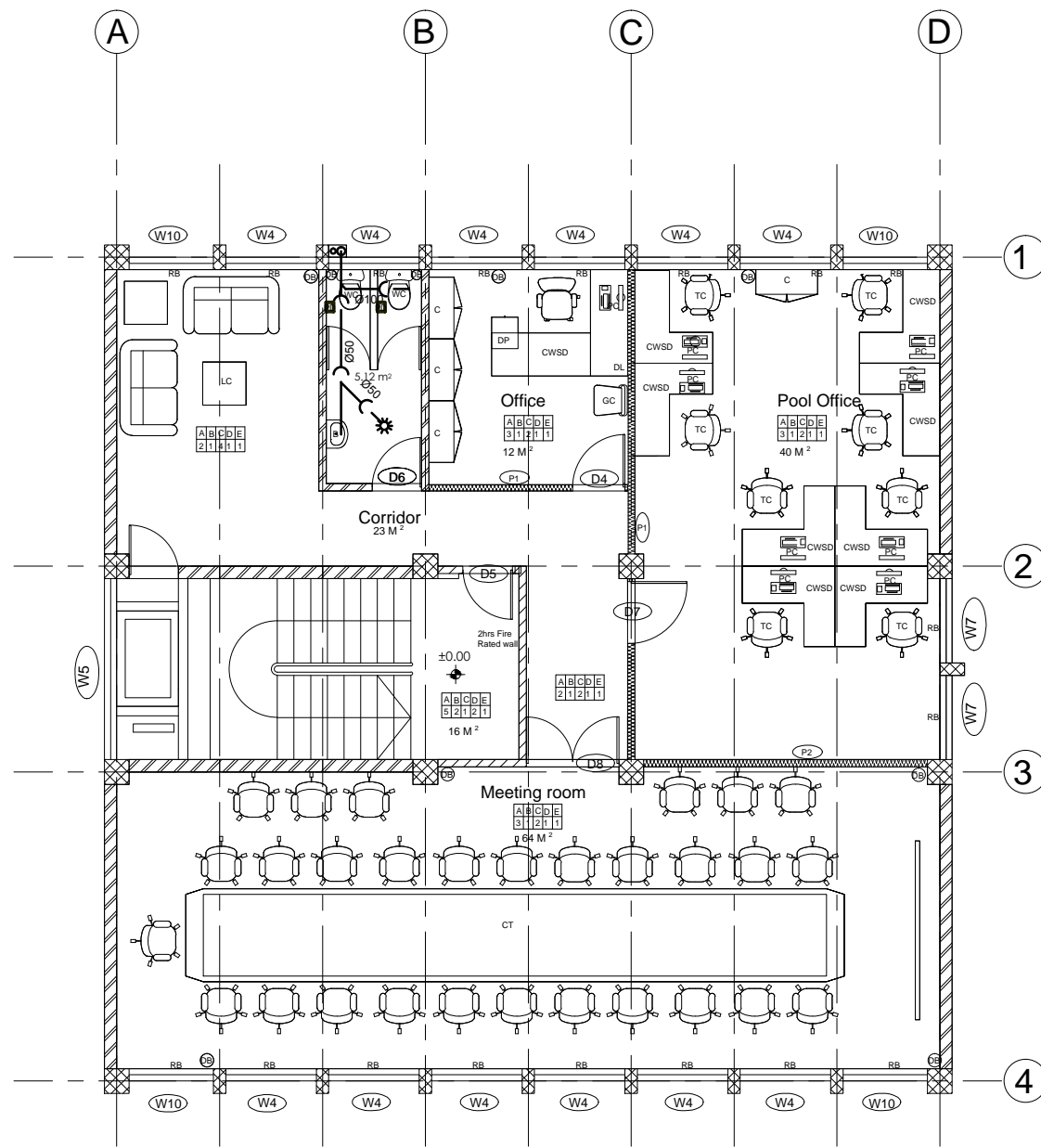
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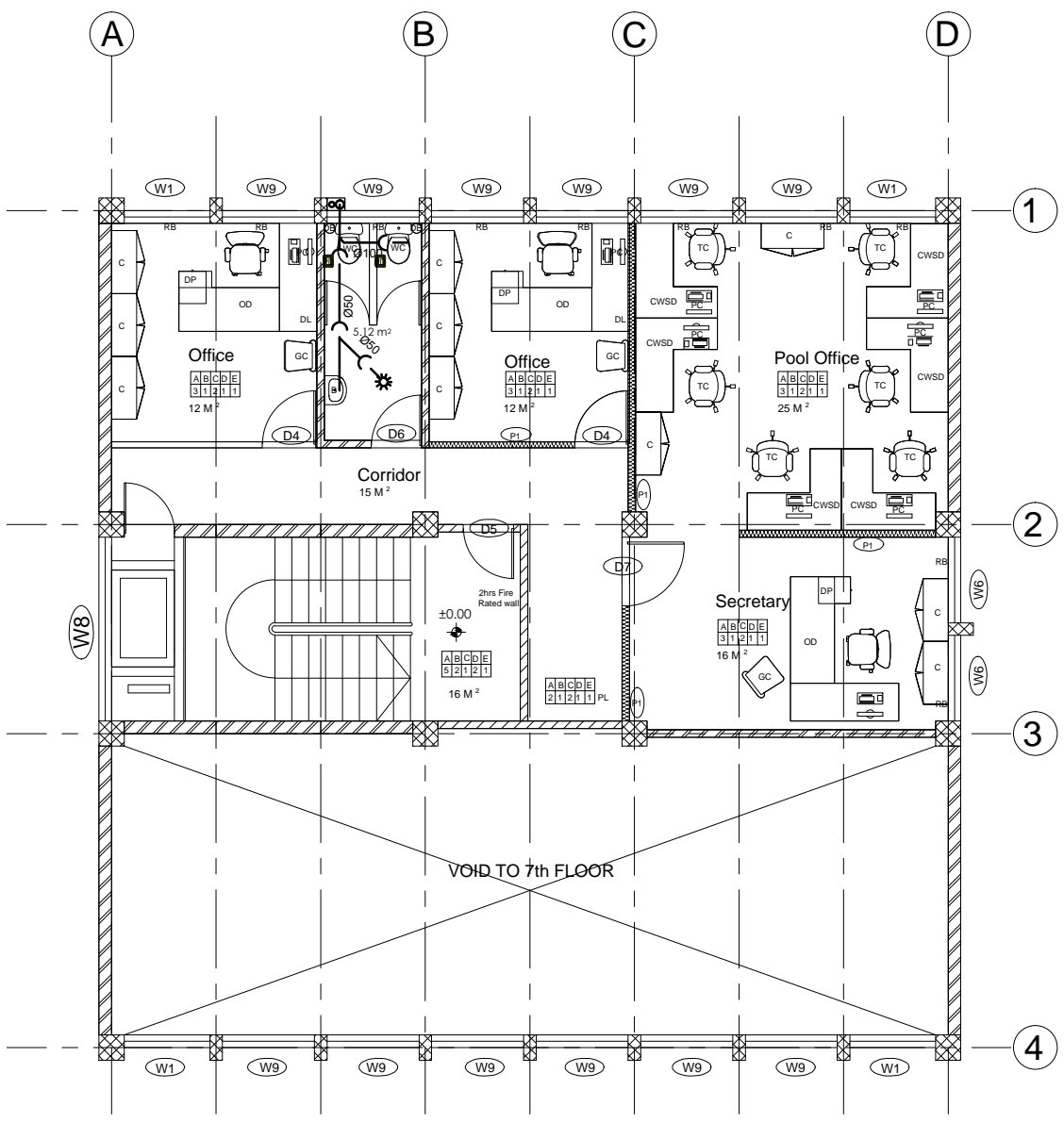
PROJECT
RENOVATIONS and FURNISHING OF BUILDING A

LOCATION
ADDIS ABABA

DRAWING TITLE	SCALE
SANITARY INSTALLATION	1:50
DESIGNED BY	DATE
DRAWN BY	FEB. 2019
CHECKED BY	DR. NO.
APPROVED BY	SN/FIN
	11/13



SEVENTH FLOOR PLAN (MEETING ROOMS)
SC 1/100

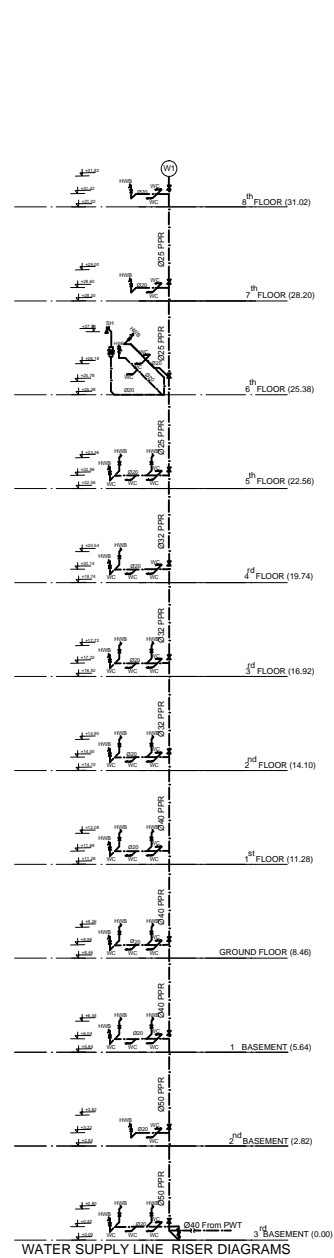


EIGHTH FLOOR PLAN (GENERAL STAFFS OFFICE)
SC 1/100

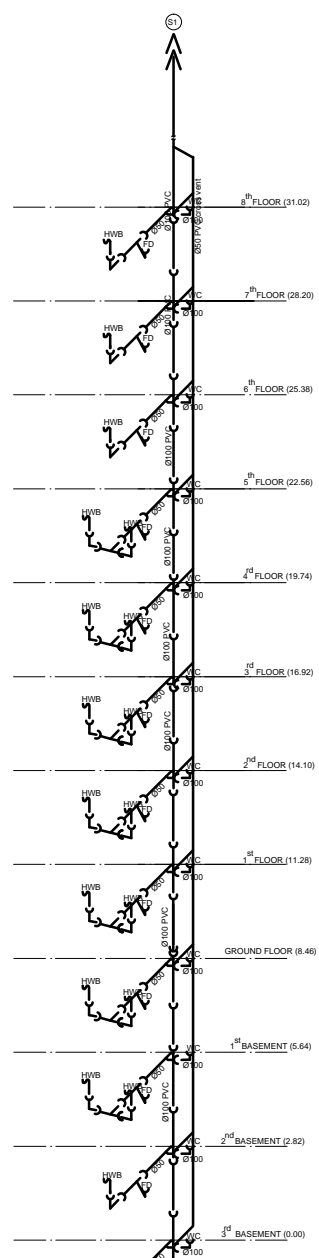
- NOTE**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - DRAINAGE PIPING SYSTEM SHALL BE PROPERLY ALIGNED AND INSTALLED AT A UNIFORM SLOPE OF NOT LESS THAN 1.5% FOR PIPES INSIDE BATHROOMS AND 1.2% FOR MAIN PIPES ON SITE (UNLESS OTHERWISE NOTED), AND PIPES SHALL BE ADEQUATELY SUPPORTED.
 - ALL PIPE DIAMETERS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - UNDERGROUND PIPES SHALL BE BURIED TO MINIMUM DEPTH OF 50 CM BELOW THE TOP OF THE GROUND AND AT A MINIMUM DISTANCE OF 50 CM FROM THE BUILDING.
 - ALL PIPING PASSING THROUGH THE WALL, SLAB, BEAMS OR ANY PART OF THE BUILDING, SHALL BE PROTECTED FROM BREAKAGE AND PROVIDED WITH PIPE SLEEVES.
 - ALL PLUMBING WORKS PERFORMED SHOULD BE CARRIED BY LICENSED PLUMBER.
 - ALL MATERIALS, METHOD OF INSTALLATION AND QUALITY OF WORKMANSHIP SHOULD BE SUBJECT TO THE APPROVAL OF THE SANITARY ENGINEER.
 - INTERNAL INSTALLATION OF COLD AND HOT WATER PIPES SHOULD BE POLYPROPYLENE RANDOM COPOLYMER RESINES PP, TYPE 3 RAW MATERIAL, PPR PIPES OF MINIMUM PN-20.
ALL COLD & HOT WATER PIPES ARE RUNNING AT ABOVE FALSE CEILING.
ALL WATER SUPPLY PIPE DIAMETERS GIVEN ARE NOMINAL (INTERNAL) DIAMETER.
 - FLOOR SLAB OF ALL WET AREAS (TOILET, KITCHEN, SHOWER, ETC.) MADE WITH APPROVED QUALITY BITUMEN EMULSION WATER PROOFING BEFORE FLOOR FINISH BEING DONE. CONSULT THE ENGINEER.
 - UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) OF MINIMUM PN-6 PIPES AND FITTINGS SHOULD BE USED FOR ALL WASTE, DOWN PIPES AND VENT DRAINAGE SYSTEM.
ALL UPVC WASTE WATER PIPES SHOULD NOT BE HEATED FOR CONNECTION. ALL PIPING CONNECTION SHOULD BE MADE WITH APPROVED FITTINGS.
ALL UPVC WASTE WATER PIPE AND FITTING INSTALLATION ARE RUNNING AT ABOVE FALSE CEILING.
 - ALL INSTALLATION SHALL BE ACCESSIBLE FOR FUTURE MAINTENANCE.

- LEGEND**
- PPR pipe for cold water Supply for Internal use, PN-20
 - HDPE pipe for cold water Supply for External use, PN-10
 - PPR pipe for hot water Supply for Internal use, PN-20
 - Gate valve
 - One way valve
 - uPVC waste pipe, PN-6
 - H.W. - Hand wash basin
 - W.C. - Low flush water closet
 - K.S. - Kitchen sink
 - SH. - Shower
 - F.D. - Floor drain
 - M.H. - Manhole
 - E.W.H. - Electric Water Heater
 - D/P - Down Pipe
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 - CO - Clean out
 - W1 - Water Supply Riser
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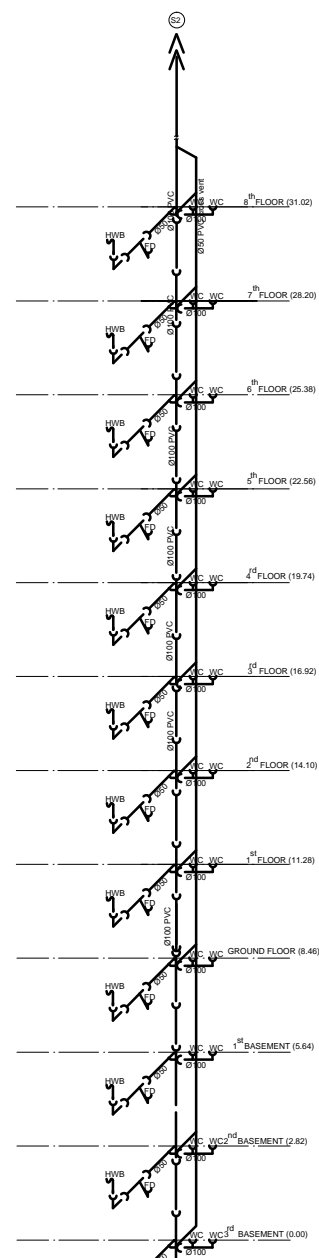
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LOCATION			
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DRAWING TITLE			SCALE
SANITARY INSTALLATION			1:50
			DATE
			FEB. 2019
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			SN FIN
DRAWN BY			
CHECKED BY			12/13
APPROVED BY			



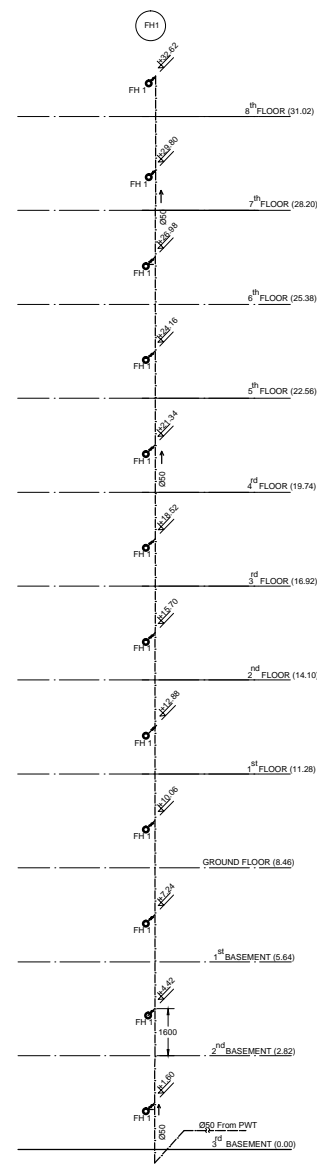
WATER SUPPLY LINE RISER DIAGRAMS
SC 1/75



WASTE WATER DRAINAGE RISER DIAGRAMS
SC 1/75



WASTE WATER DRAINAGE RISER DIAGRAMS
SC 1/75



FIRE HYDRANT RISER DIAGRAMS
SC 1/75

NOTE

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LEGEND

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Supply for Internal use, PN-20
- HDPE pipe for cold water
Supply for External use, PN-10
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Supply for Internal use, PN-20
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