
DESIGN DRAWINGS

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND
KABUL, AFGHANISTAN

100% DESIGN SUBMITTAL
DEC-05-2024

CLIENT:

UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:

LAZULI PAMIR

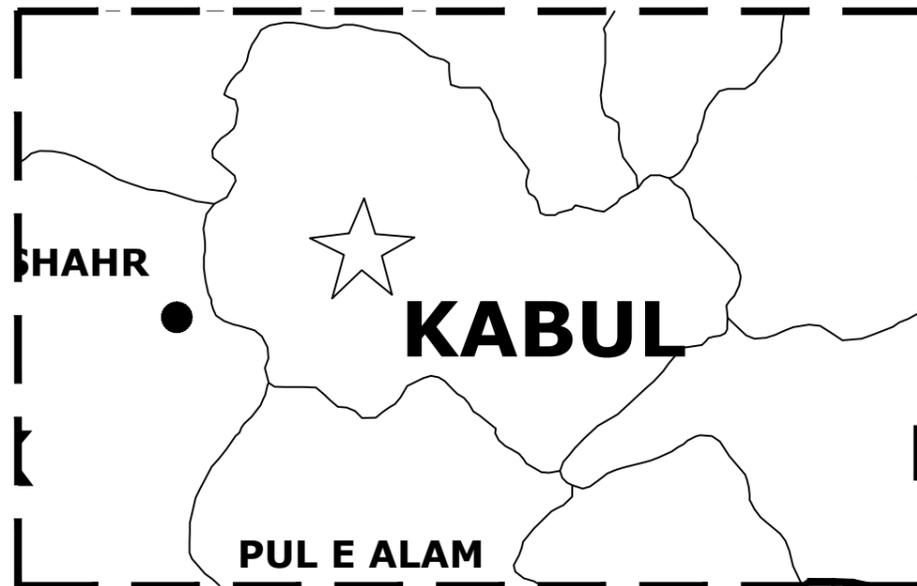
Consulting Engineering
Services Co.

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND

KABUL, AFGHANISTAN



01 | PROVINCE LOCATION
G-01 | SCALE: N.T.S



02 | PROJECT PROVINCIAL MAP
G-01 | SCALE: N.T.S



03 | PROJECT VINICITY MAP
G-01 | SCALE: N.T.S



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG EDRIS SAYEDI & ENG ULFAT	DWG NO.
				PROJECT LOCATION & VICINITY MAP	90% DESIGN SUBMITTAL	OCT 29, 2024	CHECKED BY: ENG BILAL	G
					100% DESIGN SUBMITTAL	DEC-05-2024	APPROVED BY: UNOPS	SHEET NO
							APPROVED FOR	G-01
					DATE: DEC-05-2024			

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				 100% DESIGN SUBMITTAL	DEC-05-2024	APPROVED BY: UNOPS	SHEET NO.
						APPROVED FOR	
						DATE: DEC-05-2024	G-02

DESIGN OF WERP OFFICES INSIDE THE K-SPAN

ARCHITECTURAL DRAWINGS

CLIENT:

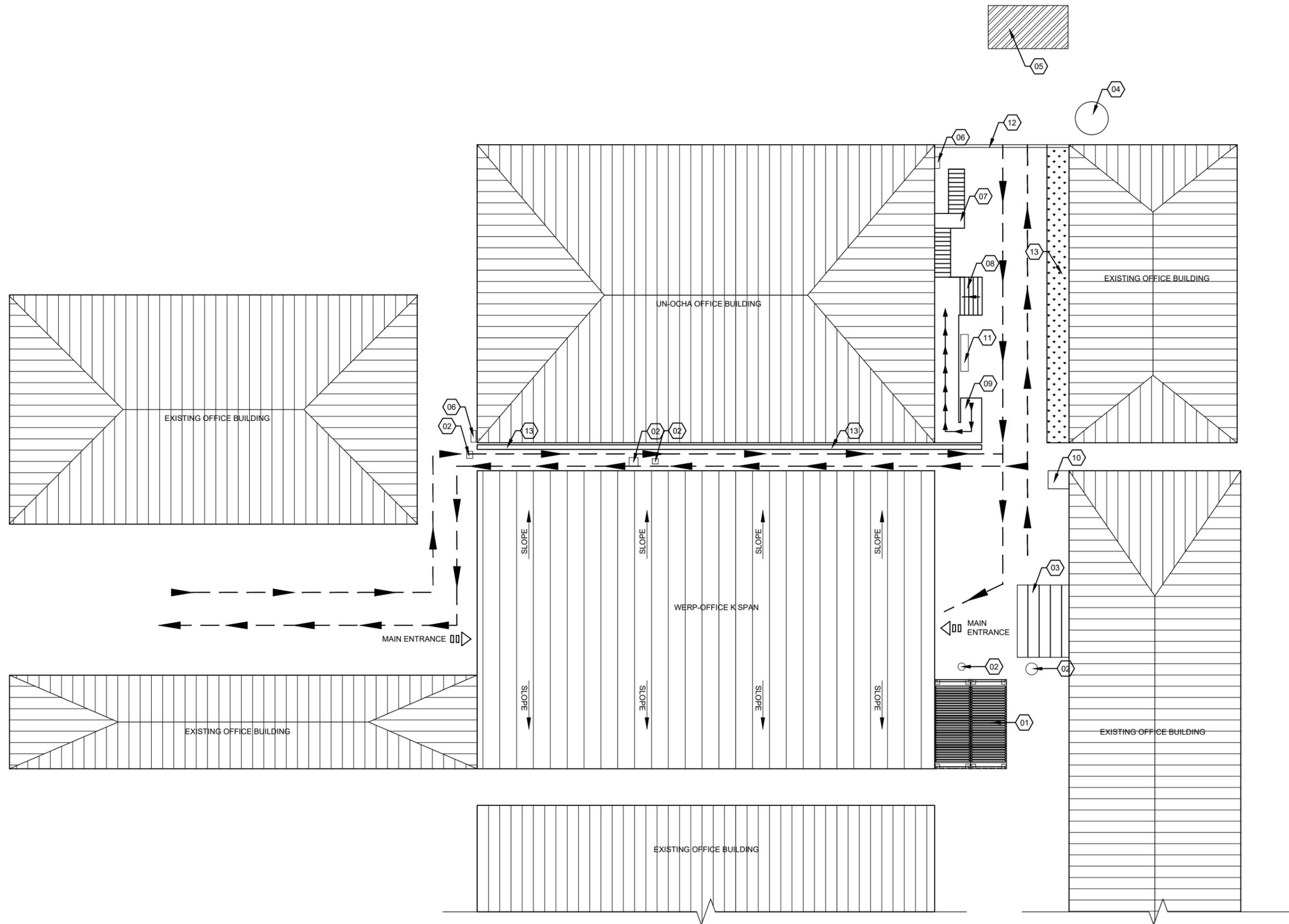
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTING:

LAZULI PAMIR

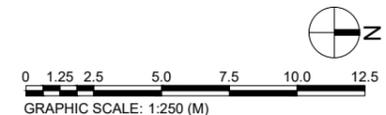
Consulting Engineering
Services Co.



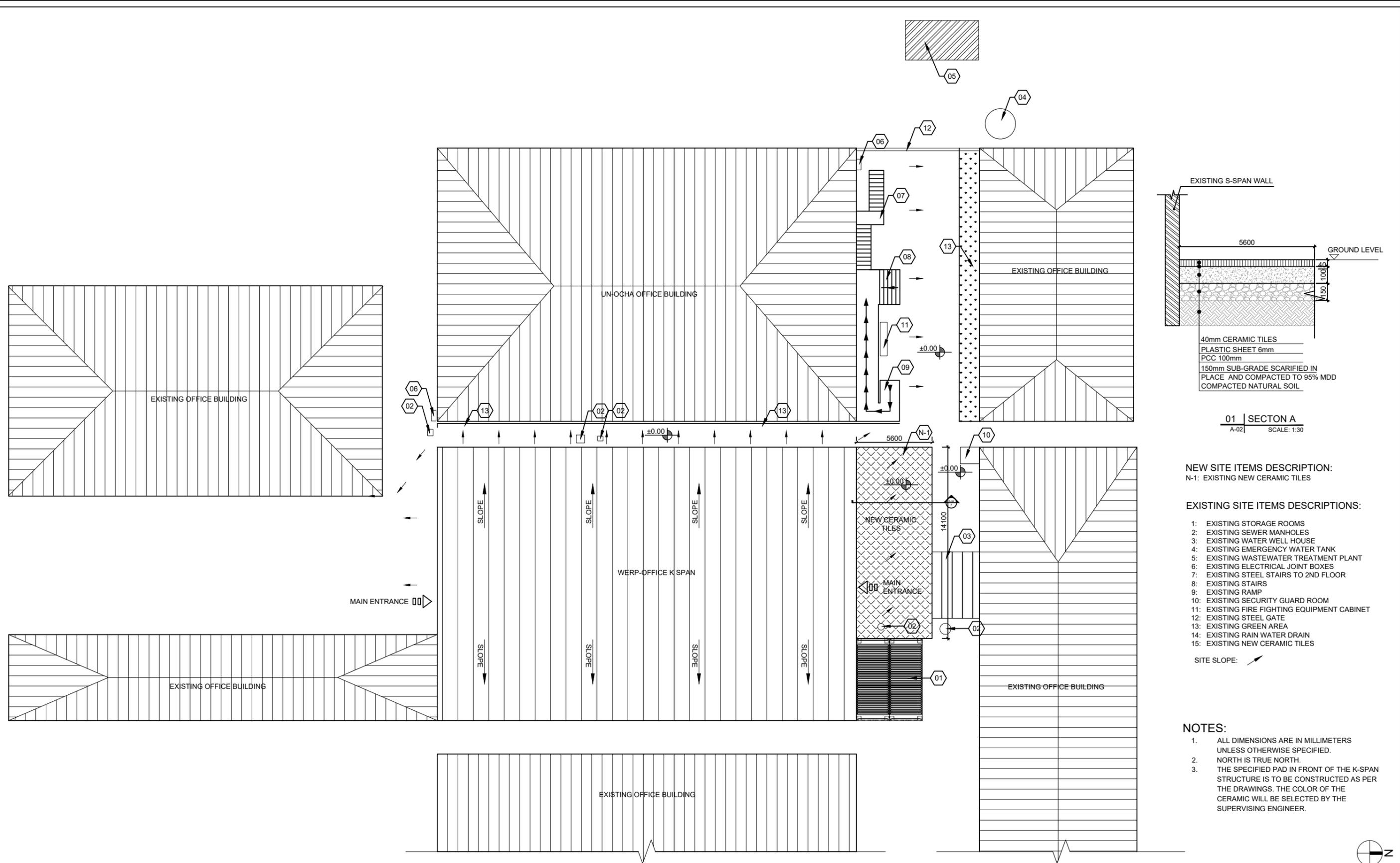
BUILDING DESCRIPTIONS:

- 1: STORAGE ROOMS
- 2: SEWER MANHOLES
- 3: WATER WELL HOUSE
- 4: EMERGENCY WATER TANK
- 5: WASTEWATER TREATMENT PLANT
- 6: ELECTRICAL JOINT BOXES
- 7: STEEL STAIRS TO 2ND FLOOR
- 8: STAIRS
- 9: RAMP
- 10: SECURITY GUARD ROOM
- 11: FIRE FIGHTING EQUIPMENT CABINET
- 12: STEEL GATE
- 13: GREEN AREA
- 14: RAIN WATER DRAIN

01 | EXISTING SITE PLAN
A-01 | SCALE: 1:250



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							APPROVED BY: UNOPS	SHEET NO
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01 | SECTION A
A-02 | SCALE: 1:30

NEW SITE ITEMS DESCRIPTION:
N-1: EXISTING NEW CERAMIC TILES

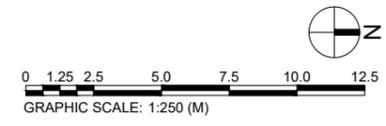
EXISTING SITE ITEMS DESCRIPTIONS:

- 1: EXISTING STORAGE ROOMS
- 2: EXISTING SEWER MANHOLES
- 3: EXISTING WATER WELL HOUSE
- 4: EXISTING EMERGENCY WATER TANK
- 5: EXISTING WASTEWATER TREATMENT PLANT
- 6: EXISTING ELECTRICAL JOINT BOXES
- 7: EXISTING STEEL STAIRS TO 2ND FLOOR
- 8: EXISTING STAIRS
- 9: EXISTING RAMP
- 10: EXISTING SECURITY GUARD ROOM
- 11: EXISTING FIRE FIGHTING EQUIPMENT CABINET
- 12: EXISTING STEEL GATE
- 13: EXISTING GREEN AREA
- 14: EXISTING RAIN WATER DRAIN
- 15: EXISTING NEW CERAMIC TILES

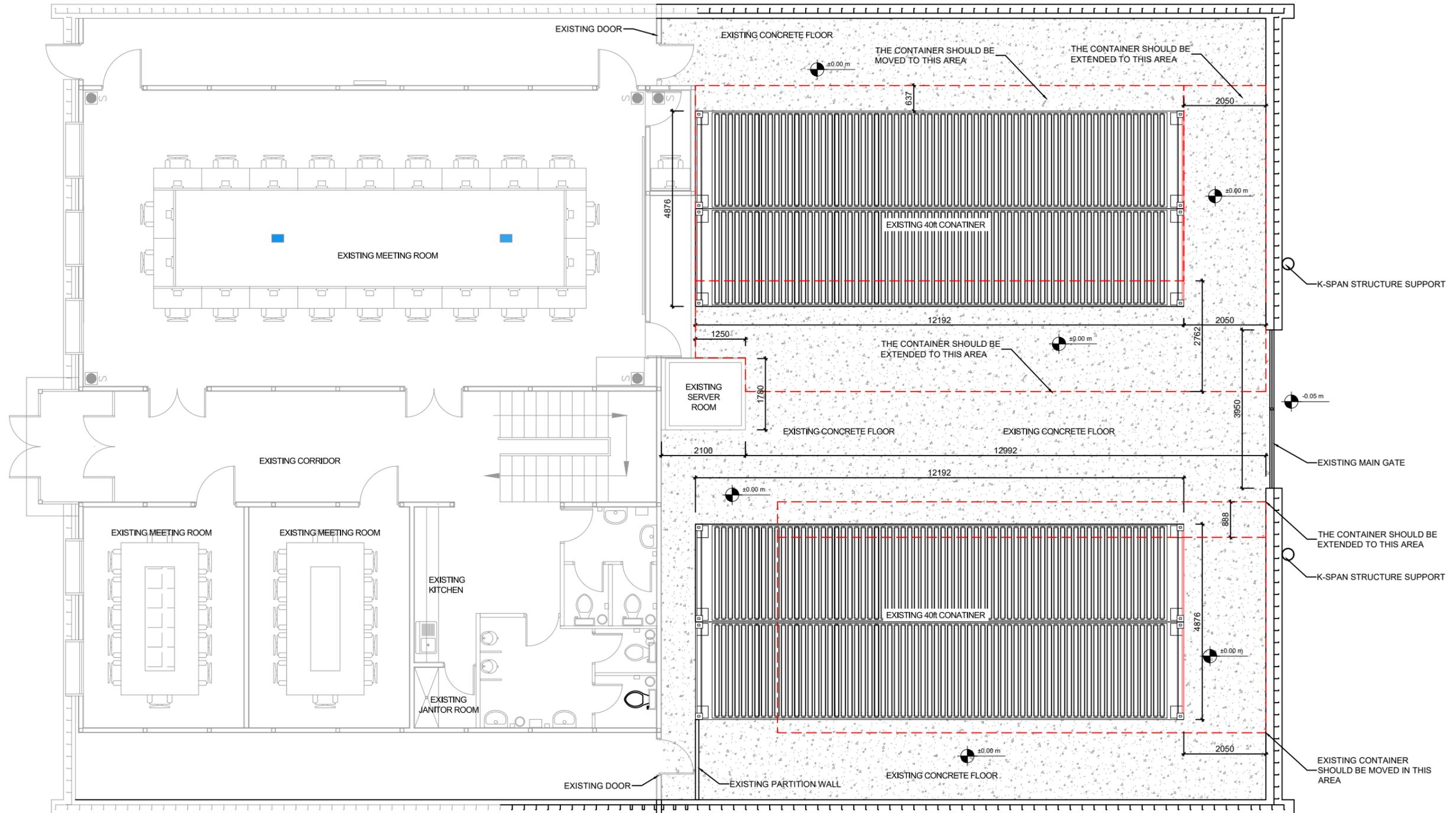
SITE SLOPE: ↗

- NOTES:
- 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - 2. NORTH IS TRUE NORTH.
 - 3. THE SPECIFIED PAD IN FRONT OF THE K-SPAN STRUCTURE IS TO BE CONSTRUCTED AS PER THE DRAWINGS. THE COLOR OF THE CERAMIC WILL BE SELECTED BY THE SUPERVISING ENGINEER.

01 | NEW SITE PLAN
A-02 | SCALE: 1:250

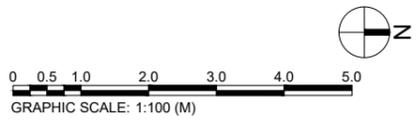


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GENERAL NOTES:

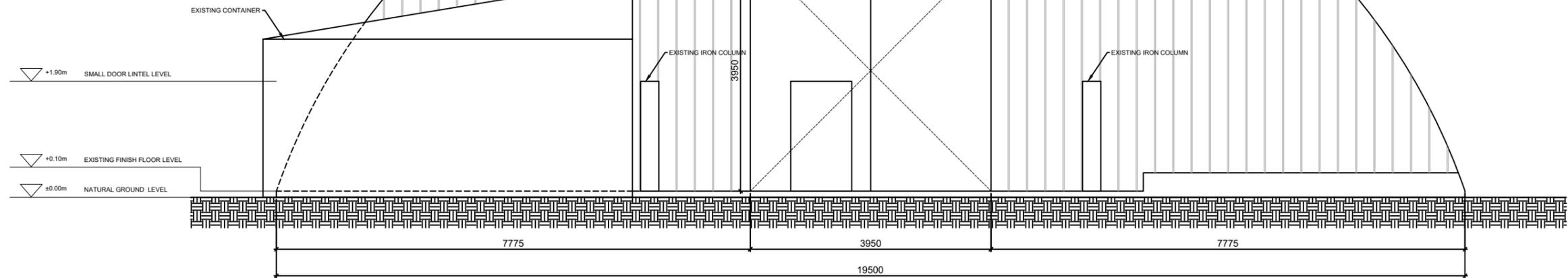
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.



01 | EXISTING FLOOR PLAN
A-03 | SCALE: 1:100

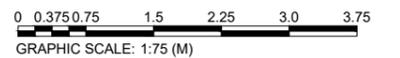
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							APPROVED FOR	A-03
					DATE: DEC-05-2024			

- ▽ +7.05m COMP TOP LEVEL
- ▽ V.I.F VENTILATOR TOP LEVEL
- ▽ V.I.F VENTILATOR BOTTOM LEVEL
- ▽ V.I.F VENTILATOR TOP LEVEL
- ▽ V.I.F VENTILATOR BOTTOM LEVEL
- ▽ +4.05m DOOR LINTEL LEVEL

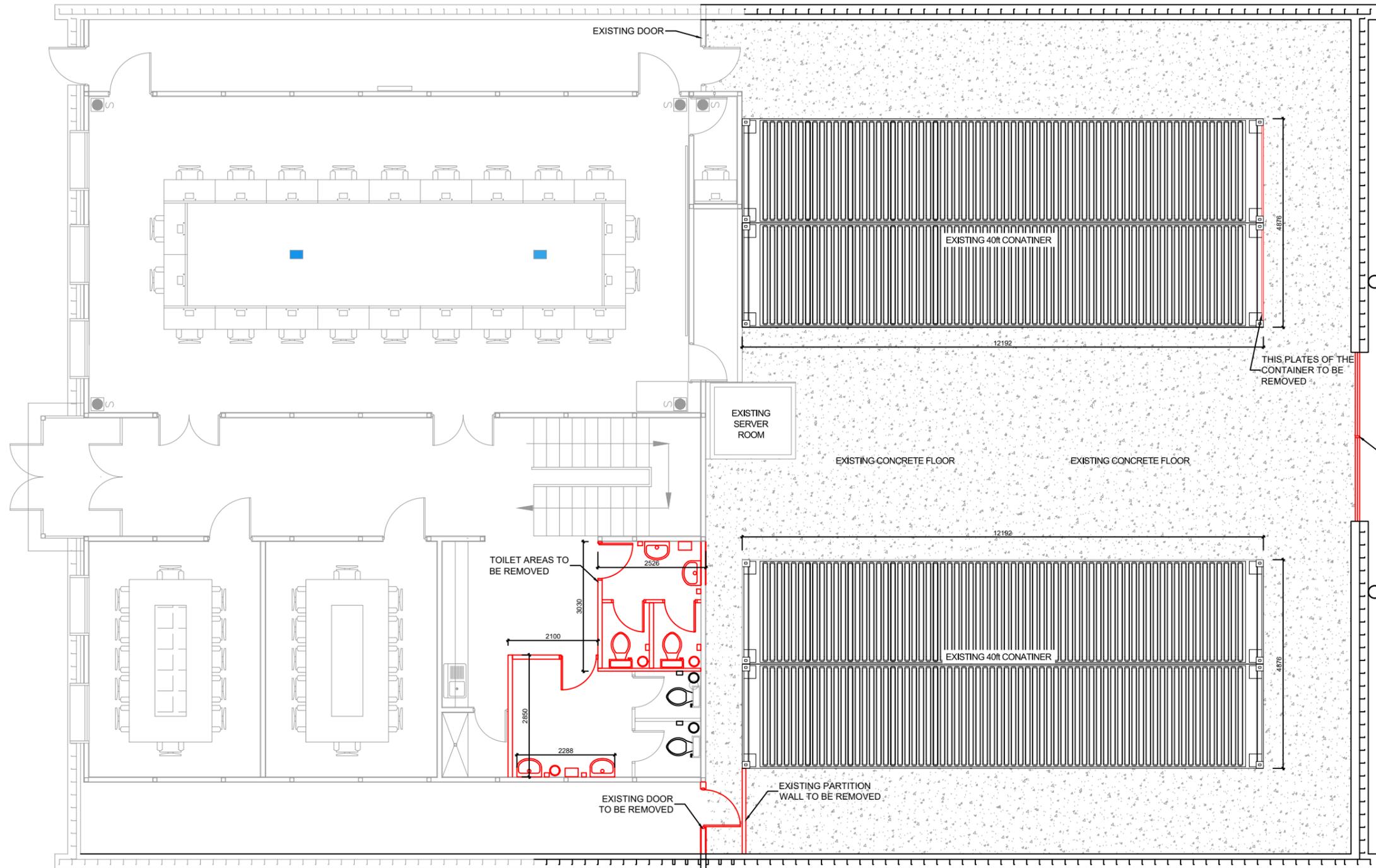


- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.

01 | EXISTING FRONT ELEVATION
A-04 | SCALE: 1:75

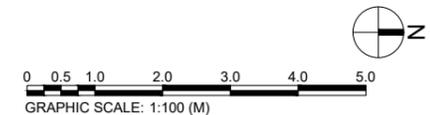


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				EXISTING FRONT ELEVATION	90% DESIGN SUBMITTAL 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL	A
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							DATE: DEC-05-2024	

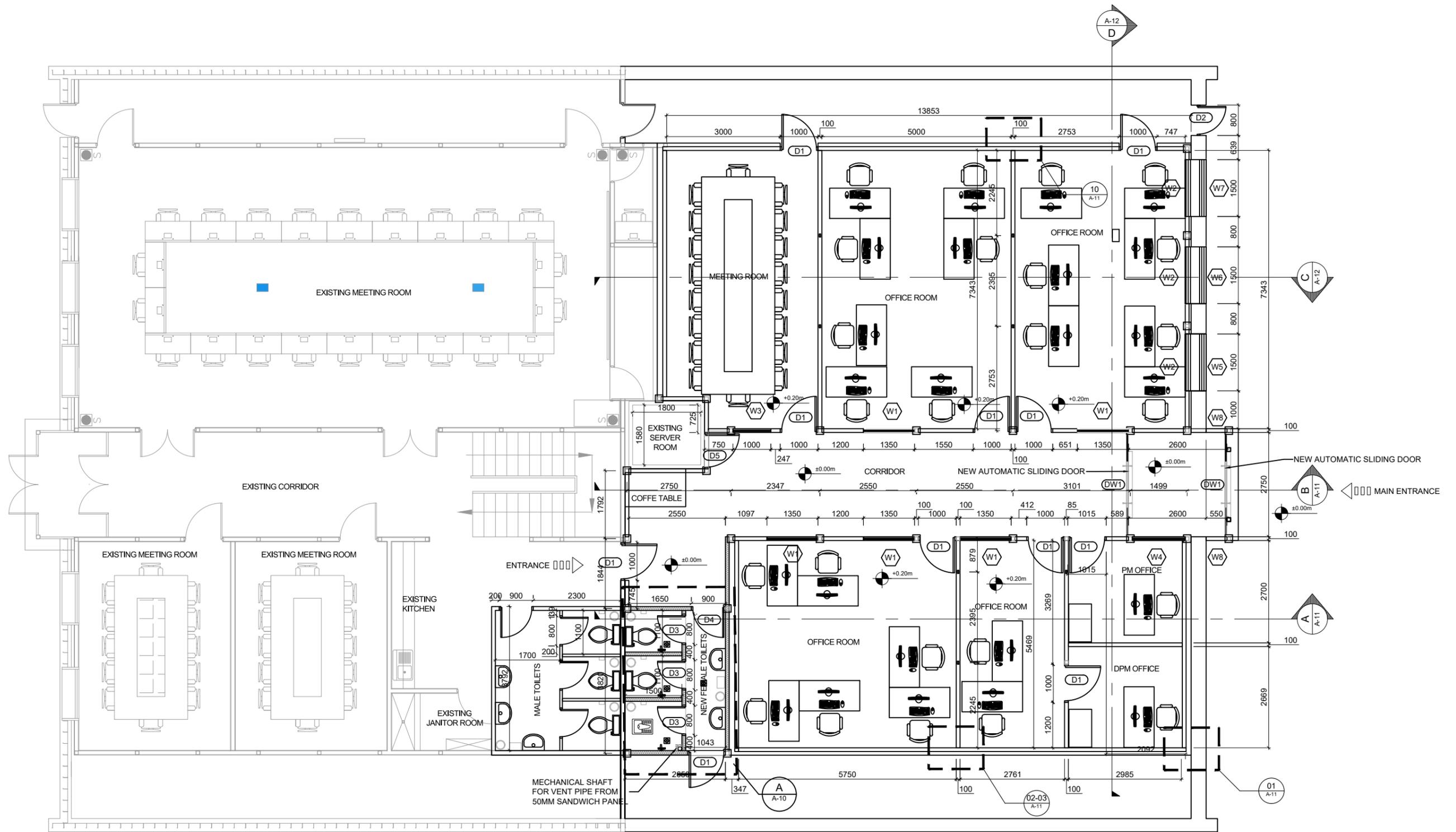


- LEGENDS:**
- DEMOLITION AREA
- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (MM) UNLESS OTHERWISE SPECIFIED.
 2. ALL LEVELS ARE IN METERS (M) UNLESS OTHERWISE SPECIFIED.
 3. CAREFULLY REMOVE THE MAIN GATE WITHOUT CAUSING ANY DAMAGE TO THE STRUCTURE, AND STORE IT AT THE LOCATION SPECIFIED BY THE SUPERVISING ENGINEER.
 4. REMOVE THE EXISTING DOOR AND PARTITION WALL, THEN INSTALL A NEW WALL WHERE THE DOOR WAS REMOVED.
 5. CAREFULLY REMOVE ALL ACCESSORIES AND ITEMS IN THE TOILETS WITHOUT CAUSING ANY DAMAGE, AND REINSTALL THEM ACCORDING TO THE NEW DRAWINGS.

01 | DEMOLITION FLOOR PLAN
A-05 | SCALE: 1:100

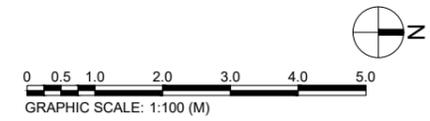


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			DEMOLITION FLOOR PLAN	1. 90% DESIGN SUBMITTAL 2. 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC-05-2024	A SHEET NO A-05



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.
3. ALL WINDOWS ARE DOUBLE GLAZED PVC.



01 | NEW FLOOR PLAN
A-06 | SCALE: 1:100

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CO2 FIRE EXTINGUISHERS

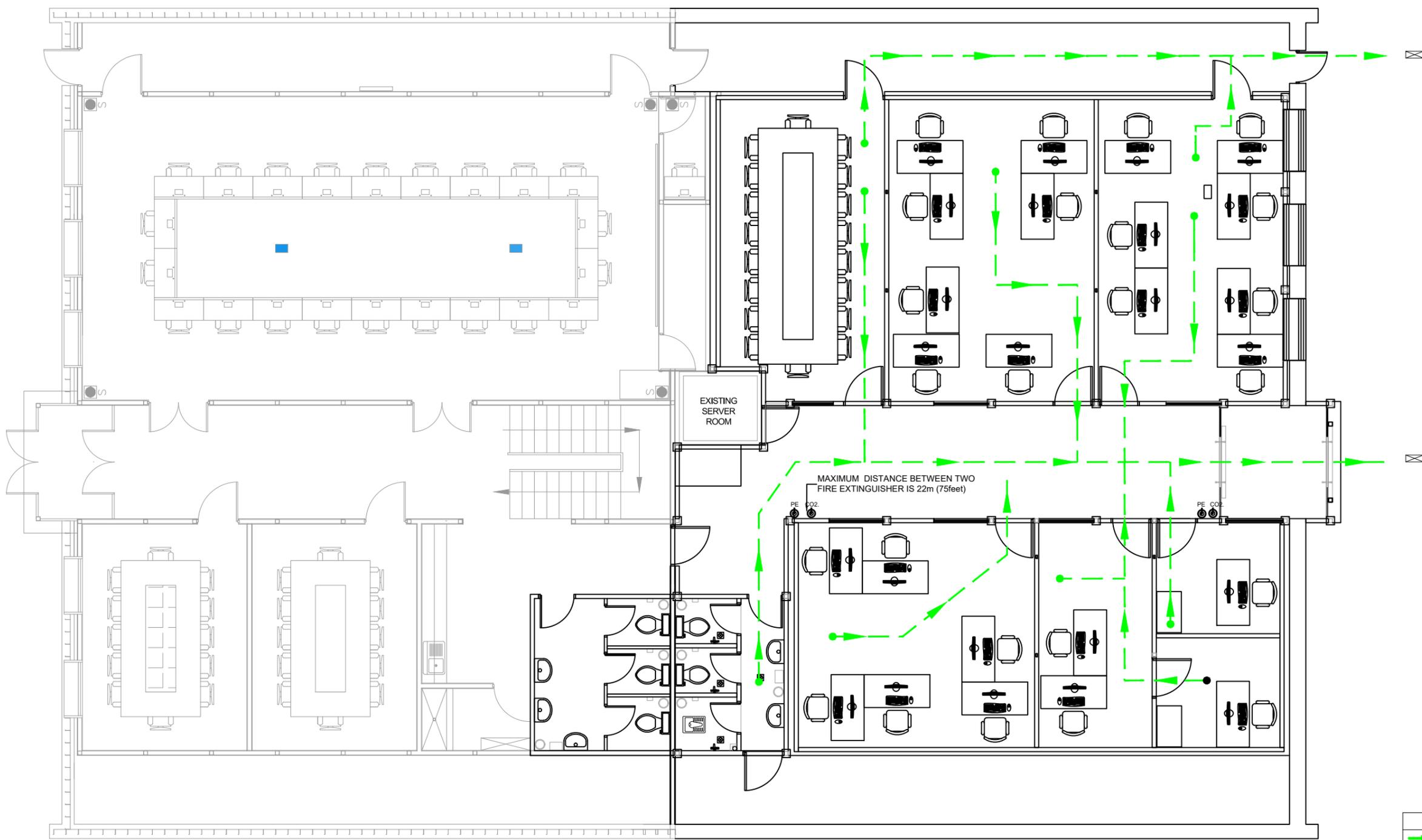
PURPOSE:
SPECIFICALLY DESIGNED FOR CLASS B FIRES (FLAMMABLE LIQUIDS LIKE PETROL, OIL, OR SOLVENTS) AND CLASS E FIRES (ELECTRICAL EQUIPMENT). CO2 EXTINGUISHERS FIRES BY DISPLACING OXYGEN AND DOES NOT LEAVE RESIDUE, MAKING IT SAFE FOR ELECTRICAL COMPONENTS.

GUIDELINES:
DO NOT USE CO2 EXTINGUISHERS ON CLASS A FIRES (WOOD, PAPER, TEXTILES) AS THEY LACK COOLING EFFECTS AND MAY ALLOW THE FIRE TO REIGNITE. ALWAYS HOLD THE NOZZLE BY THE HANDLE TO AVOID FROSTBITE; CO2 DISCHARGES AT EXTREMELY LOW TEMPERATURES. AIM THE NOZZLE AT THE BASE OF THE FLAMES AND SWEEP SIDE TO SIDE UNTIL THE FIRE IS EXTINGUISHED.

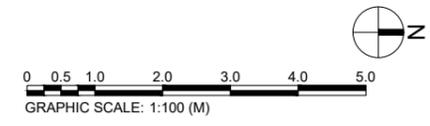
MULTIPURPOSE POWDER (ABCE) FIRE EXTINGUISHERS

PURPOSE:
VERSATILE AND EFFECTIVE ON MULTIPLE FIRE CLASSES:
CLASS A: SOLIDS (WOOD, PAPER, TEXTILES).
CLASS B: LIQUIDS (FLAMMABLE FUELS, OILS).
CLASS C: GASES (PROPANE, BUTANE).
CLASS E: ELECTRICAL EQUIPMENT (WIRES, APPLIANCES).

GUIDELINES:
SHAKE THE EXTINGUISHER IF INSTRUCTED BEFORE USE. AIM AT THE BASE OF THE FIRE FROM A SAFE DISTANCE. USE IN WELL-VENTILATED AREAS, AS THE POWDER MAY REDUCE VISIBILITY AND IRRITATE BREATHING. BE AWARE THAT THE POWDER LEAVES A RESIDUE, WHICH MIGHT DAMAGE DELICATE EQUIPMENT. NOTE: MULTIPURPOSE EXTINGUISHERS ARE IDEAL FOR GENERAL USE BUT MAY NOT BE SUITABLE FOR SENSITIVE ELECTRONICS OR CONFINED SPACES.

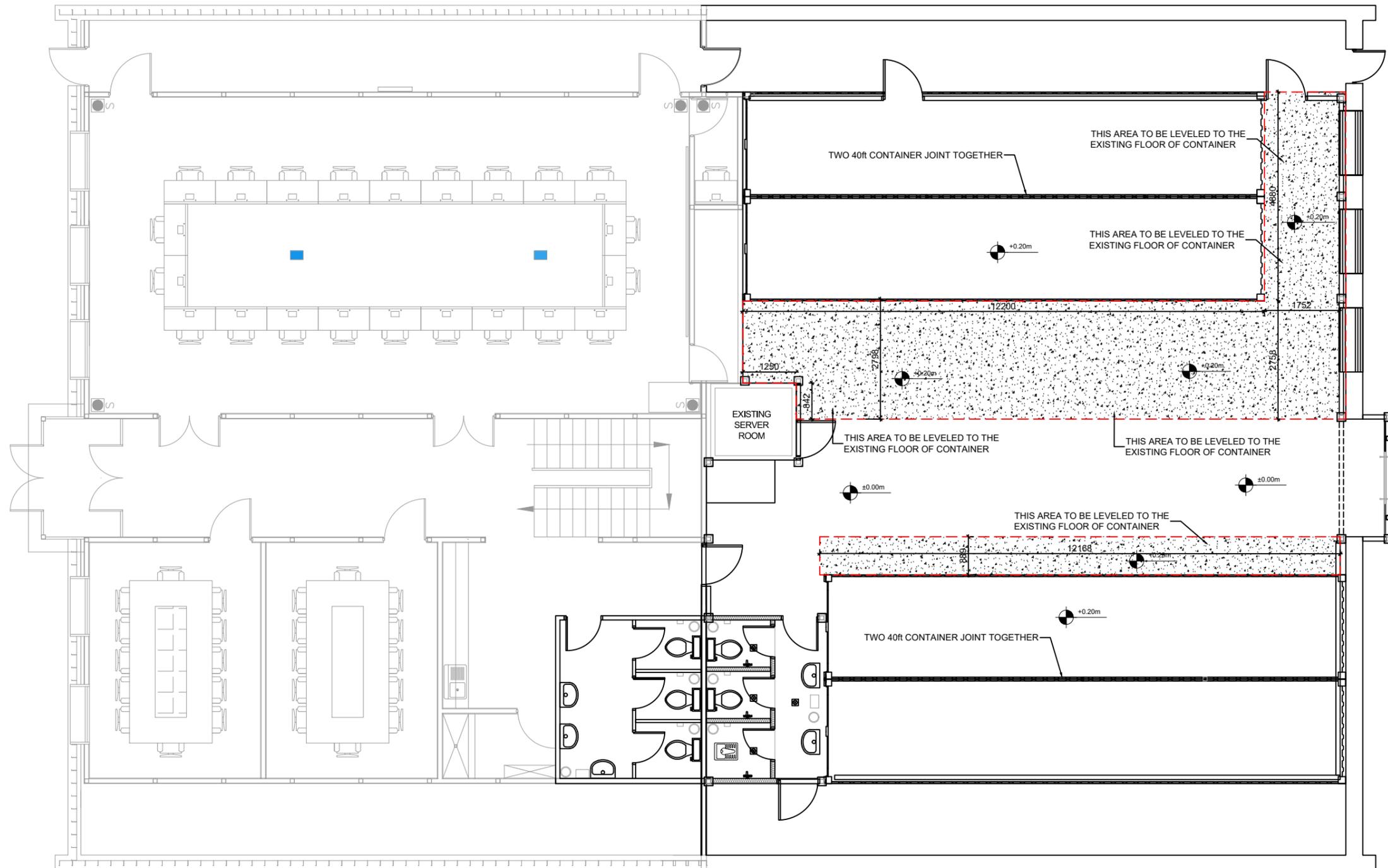


LEGENDS	
	COMMON PATH OF TRAVEL
	FIRE EXTINGUISHER (CO2,PE)
	EXIT SIGN



01 | LIFE SAFETY PLAN
A-07 | SCALE: 1:100

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			LIFE SAFETY PLAN	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL	A
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						DATE: DEC-05-2024	



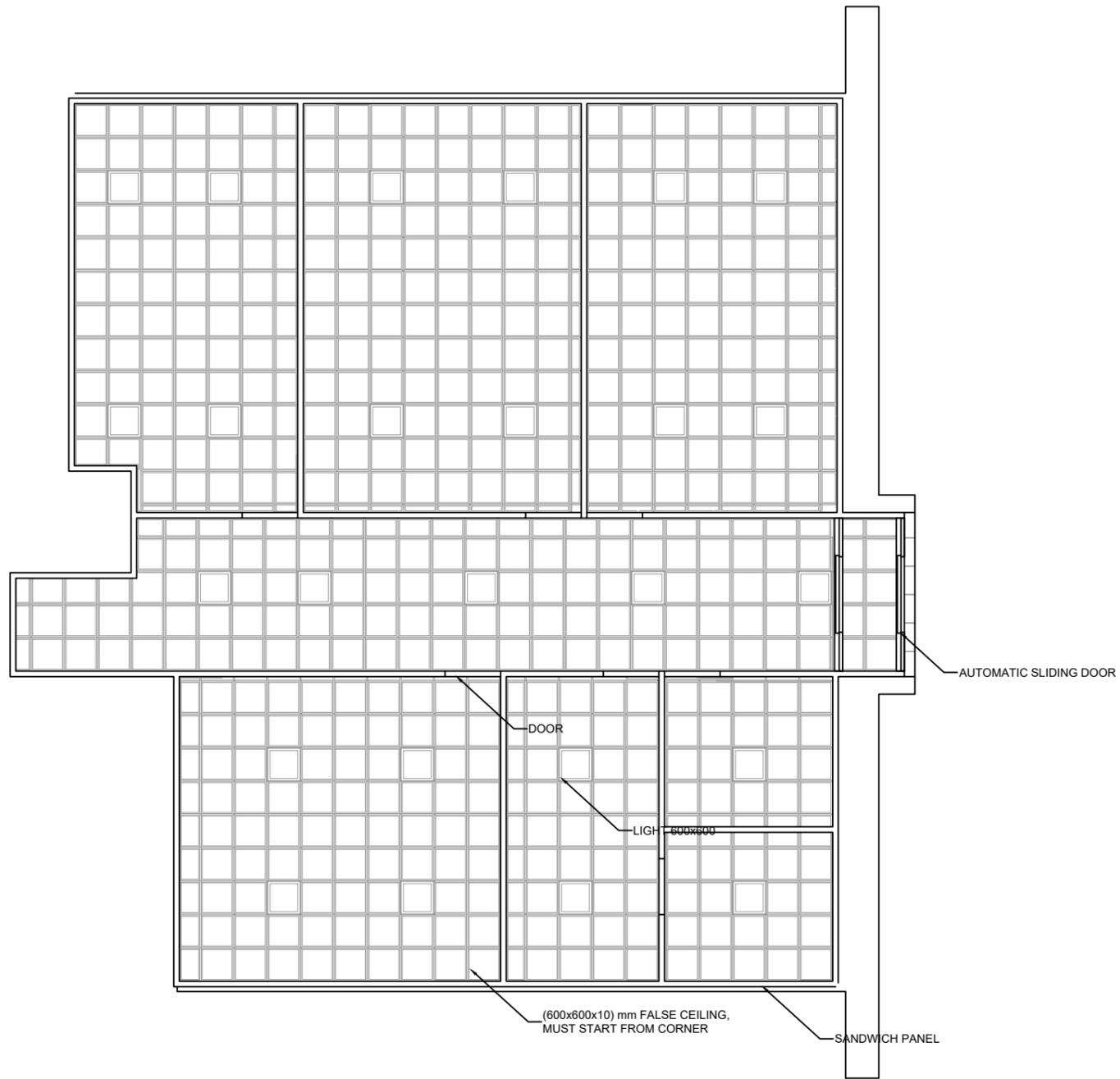
GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.
3. THE GAP OF EXTENDED CONTAINER SHOULD BE FILLED WITH GRAVEL AND PCC TO SAME LEVEL OF THE ORIGINAL CONTAINER AS PER DRAWINGS SEE SECTIONS FOR MORE DETAILS.

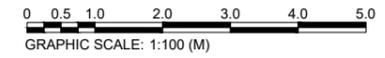


01 | NEW FLOOR LEVELING PLAN
A-08 | SCALE: 1:100

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				NEW FLOOR LEVELING PLAN	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC-05-2024	A SHEET NO A-08



- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.
 3. THE FALSE CEILING SHOULD BE HIGH QUALITY 600X600 mm SOUND PROOF KANUF.
 4. FOR LIGHTING PLEASE SEE THE ELECTRICAL DRAWINGS.



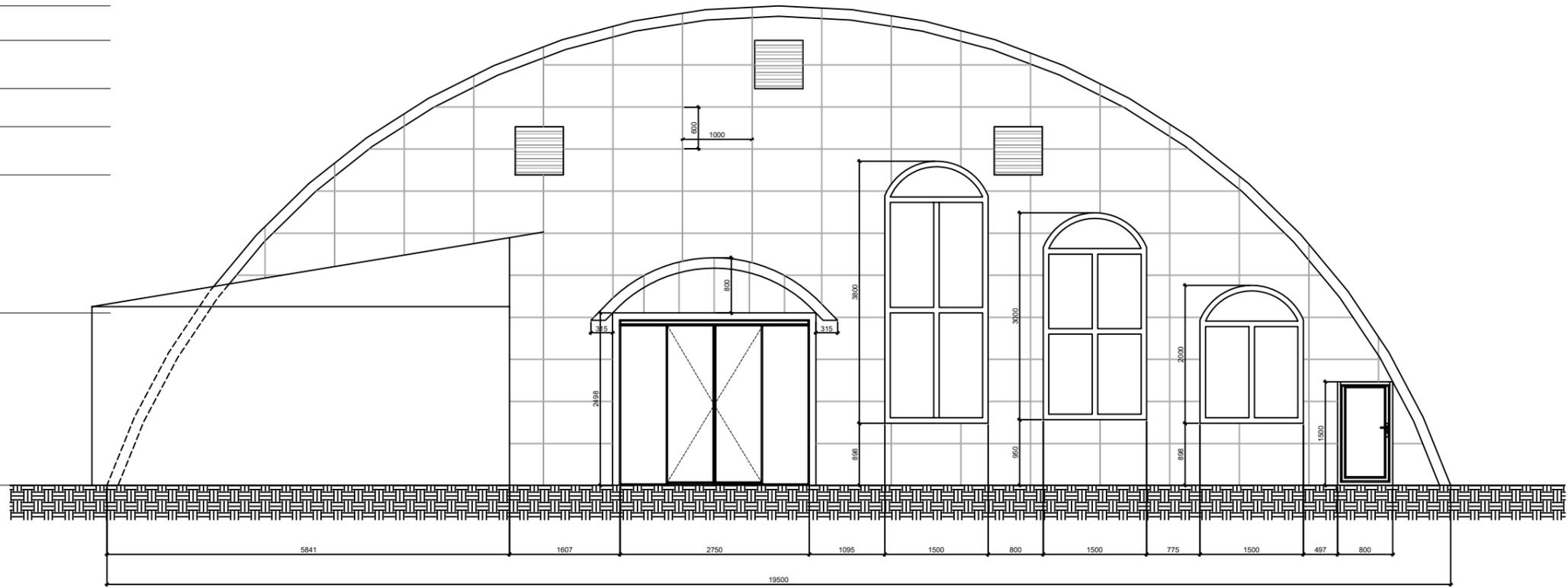
01 | RCP PLAN
A-09 | SCALE: 1:100

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- ▽ +7.05m COMP TOP LEVEL
- ▽ V.I.F VENTILATOR TOP LEVEL
- ▽ V.I.F VENTILATOR BOTTOM LEVEL
- ▽ V.I.F VENTILATOR TOP LEVEL
- ▽ V.I.F VENTILATOR BOTTOM LEVEL

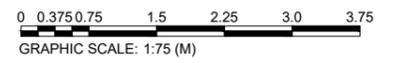
▽ +2.498m DOOR LINTEL LEVEL

▽ ±0.00m NATURAL GROUND LEVEL

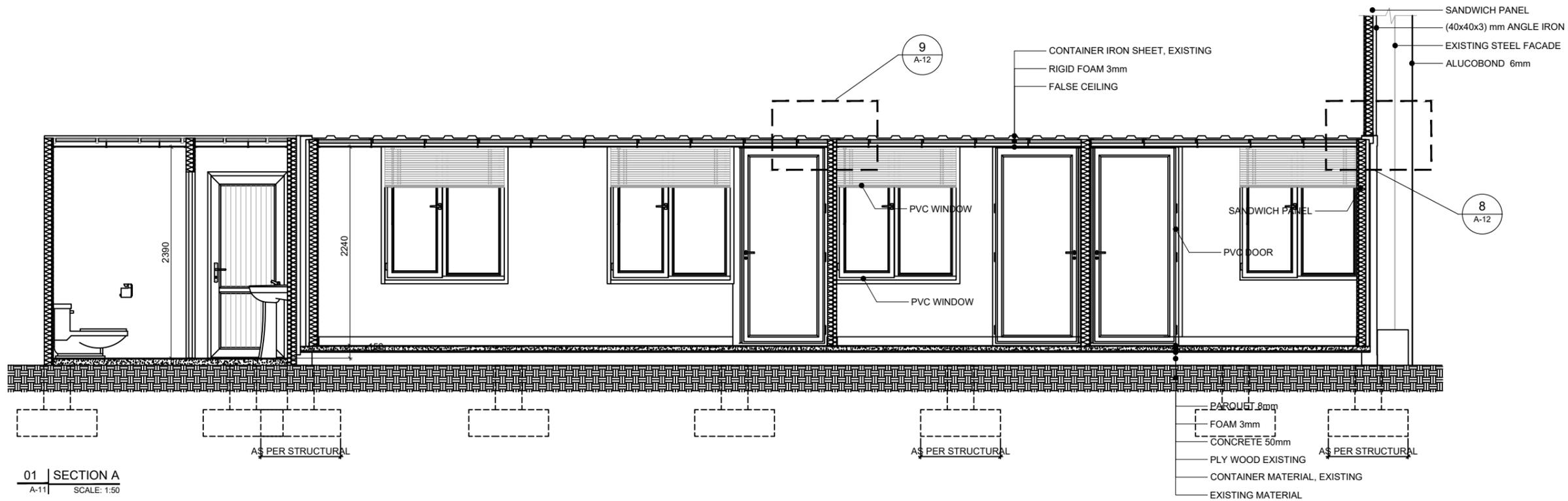


- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. ALL LEVELS ARE IN METER (M) UNLESS OTHERWISE SPECIFIED.
 3. ALL WINDOWS ARE PVC.
 4. THE NEW FRONT DECORATION SHOULD BE FROM ALUCOBOND 6MM. AND SHOULD BE INSTALLED AS PER DRAWINGS SEE DETAILS.

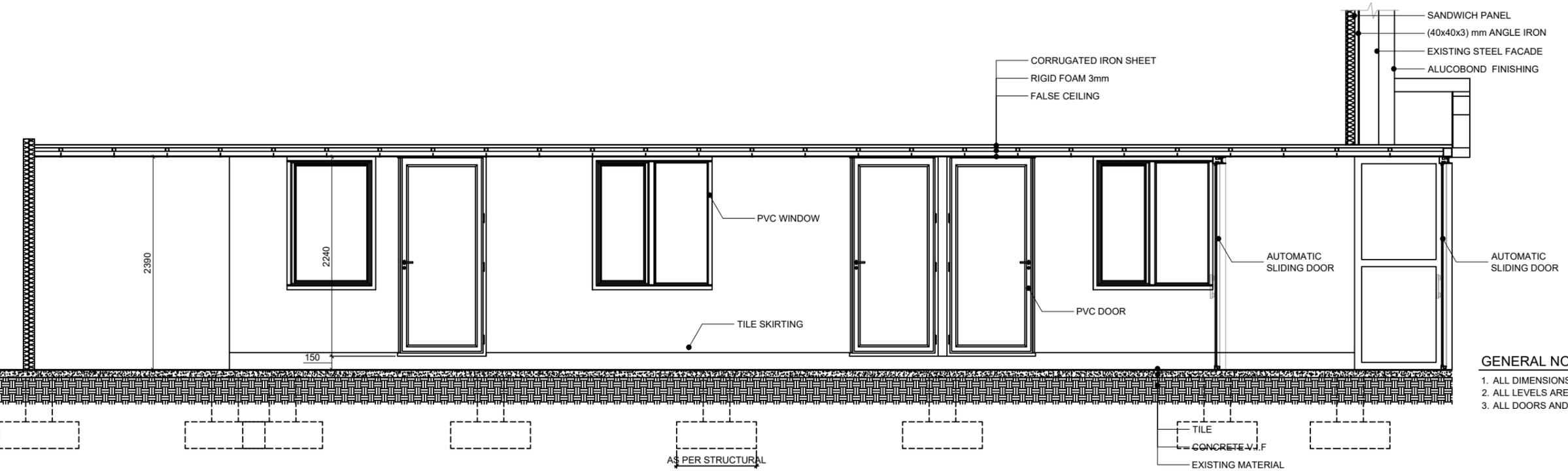
01 | NEW FRONT ELEVATION
A-10 | SCALE: 1:75



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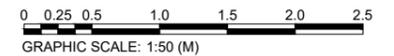


01 SECTION A
A-11 SCALE: 1:50

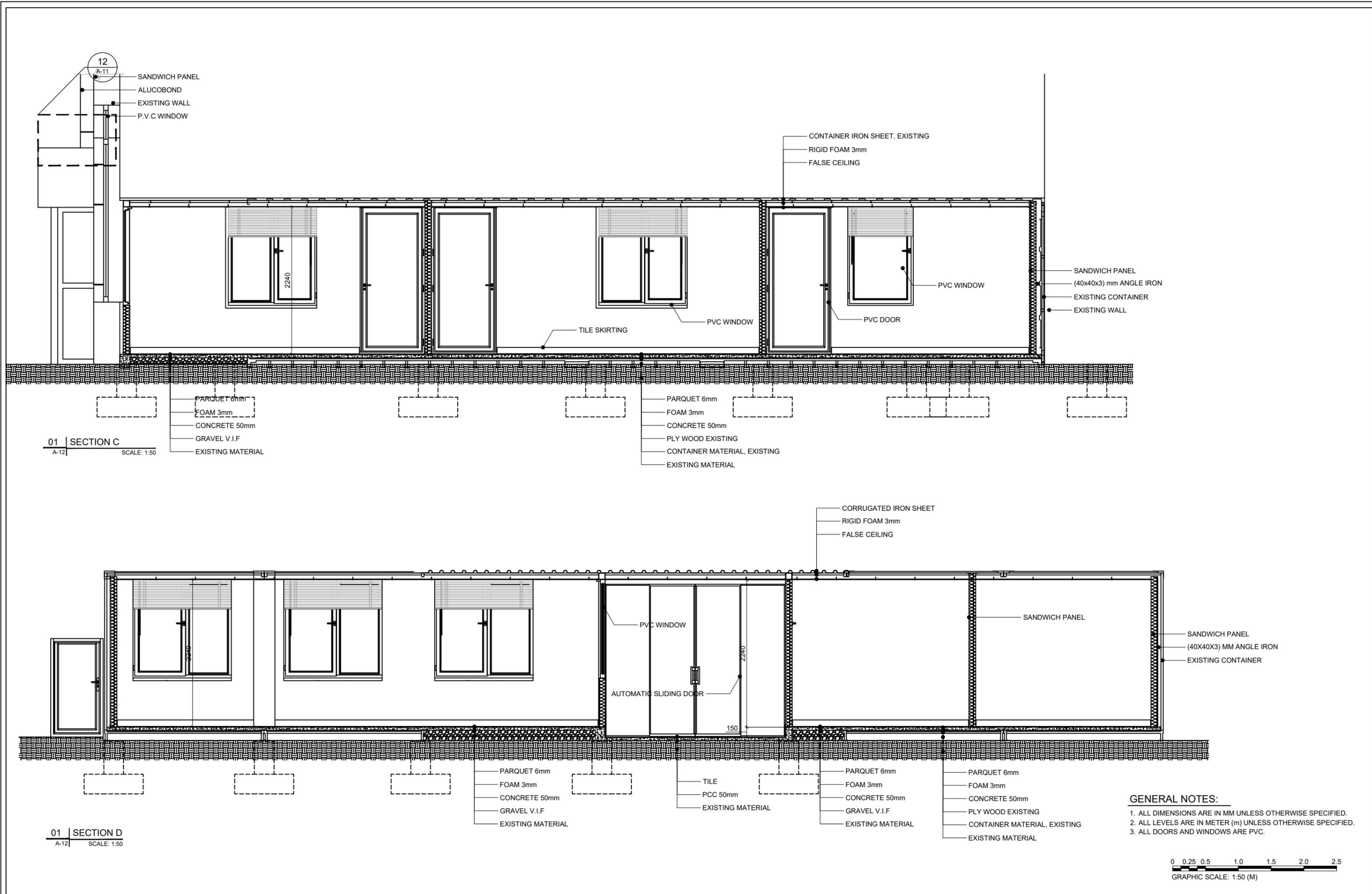


02 SECTION B
A-11 SCALE: 1:50

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.
 3. ALL DOORS AND WINDOWS ARE PVC.



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CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:



PROJECT TITLE:

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT

SECTION C-D

REVISION

- ▲ 90% DESIGN SUBMITTAL
- ▲ 100% DESIGN SUBMITTAL
- ▲
- ▲

DATE

OCT 29, 2024
DEC-05-2024

DRAW BY: ENG EDRIS SAYEDI & ENG ULFAT

CHECKED BY: ENG BILAL
APPROVED BY: UNOPS

APPROVED FOR

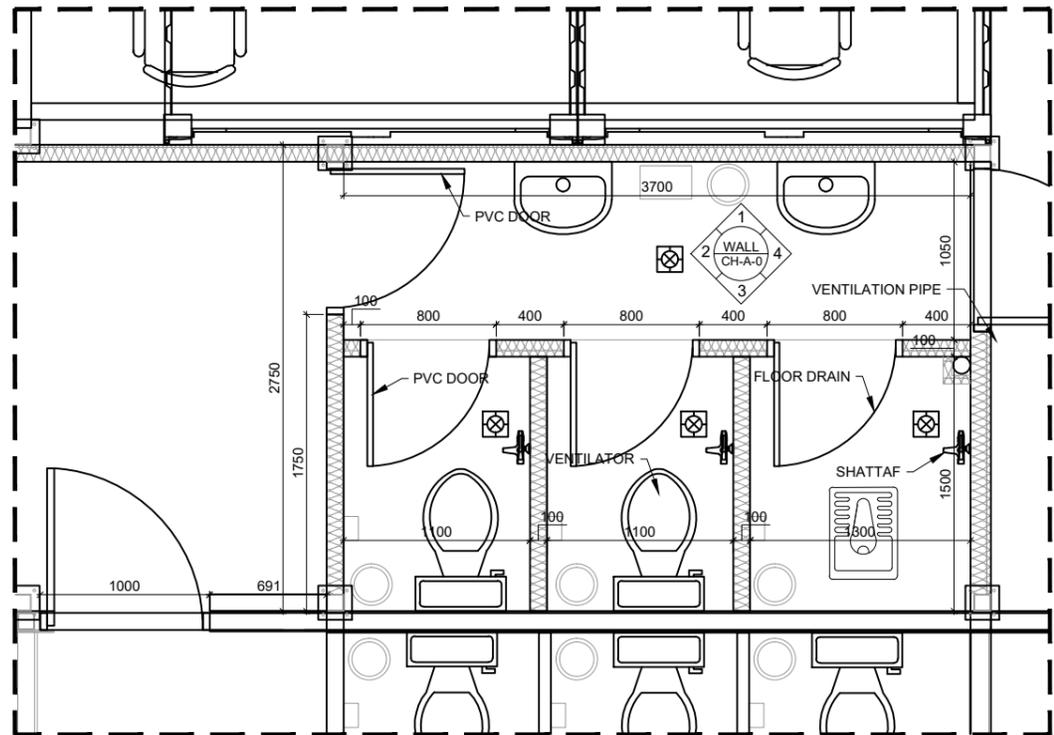
DATE: DEC-05-2024

DWG NO.

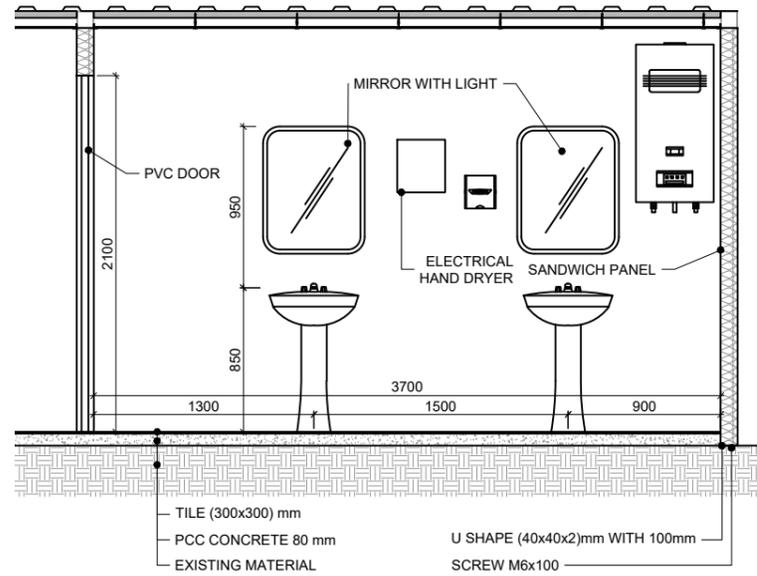
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SHEET NO

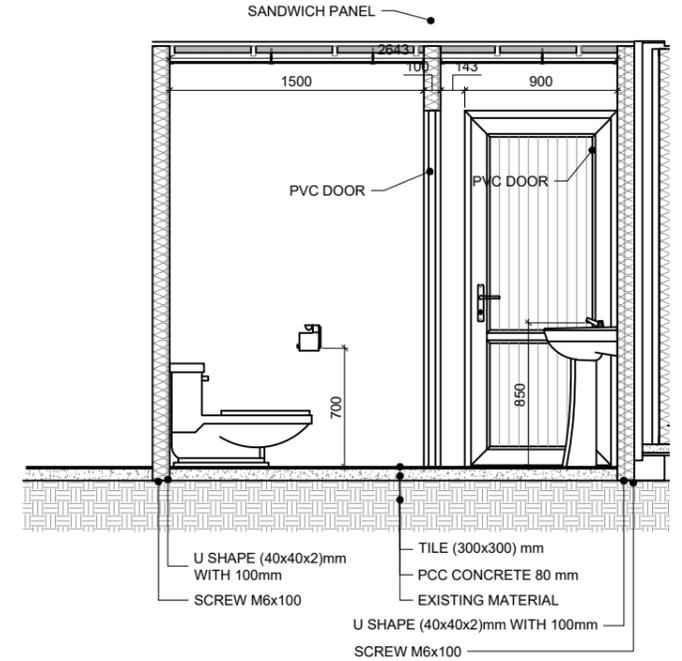
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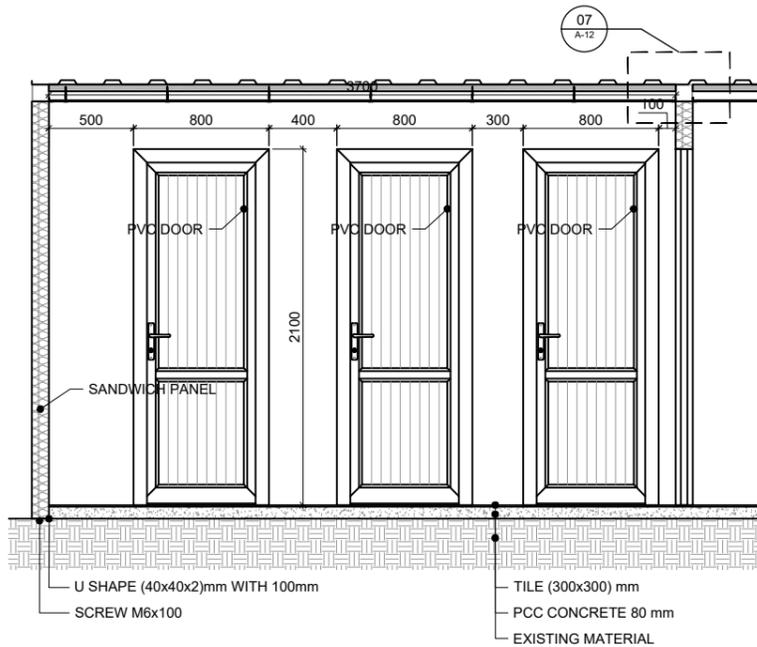
01 | NEW FEMALE INLARGE TOILET PLAN
A-13 | SCALE: 1:40



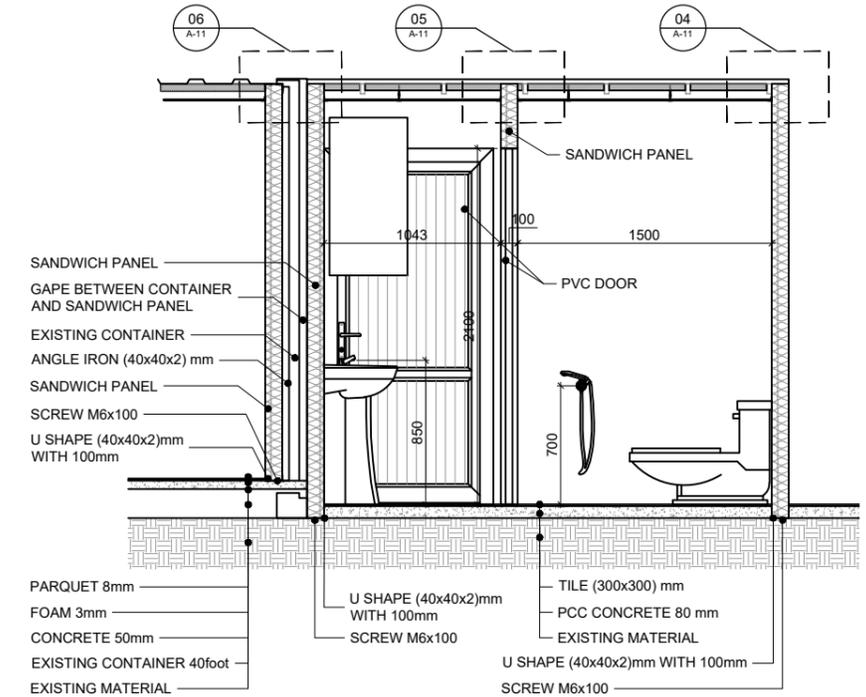
02 | NEW FEMALE TOILET ELEVATION #01
A-13 | SCALE: 1:40



03 | NEW FEMALE TOILET ELEVATION #02
A-13 | SCALE: 1:40



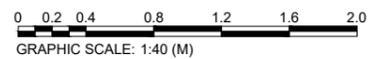
04 | NEW FEMALE TOILET ELEVATION #03
A-13 | SCALE: 1:40



05 | NEW FEMALE TOILET ELEVATION #04
A-13 | SCALE: 1:40

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.



CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:



PROJECT TITLE:

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT
NEW FEMALE TOILET
PLAN AND ELEVATIONS

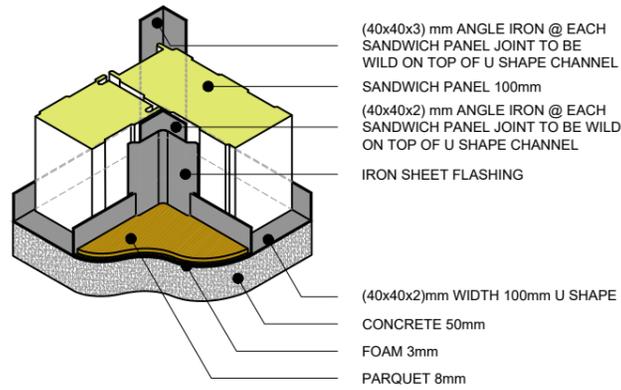
REVISION

▲	90% DESIGN SUBMITTAL	OCT 29, 2024
▲	100% DESIGN SUBMITTAL	DEC-05-2024
▲		
▲		

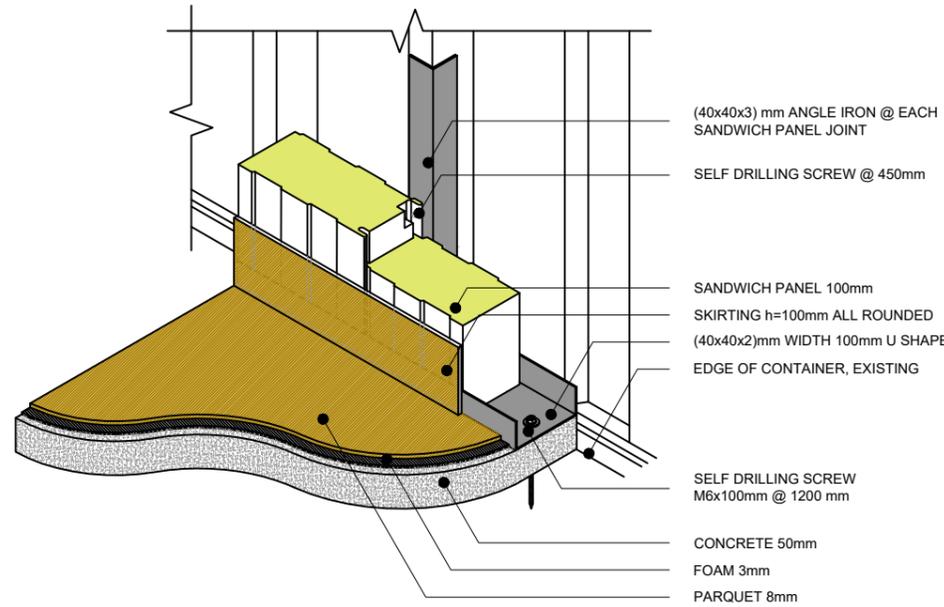
DATE

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CHECKED BY: ENG BILAL
APPROVED BY: UNOPS
APPROVED FOR
DATE: DEC-05-2024

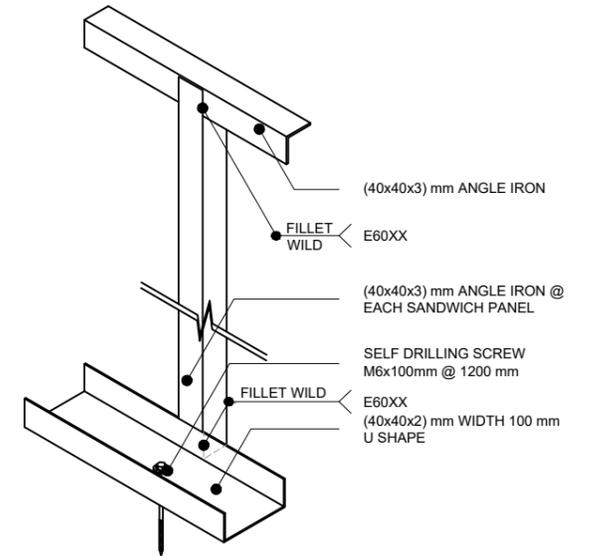
DWG NO.
A
SHEET NO
A-13



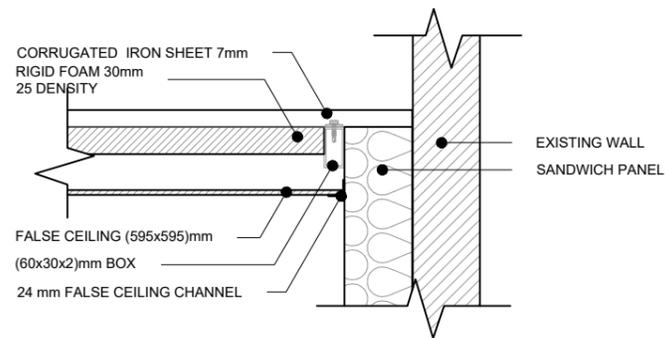
01 | ISOMETRIC DETAIL # 01 (CORNER JOINTS DETAIL) REF.A-03
A-14 | SCALE: 1:10



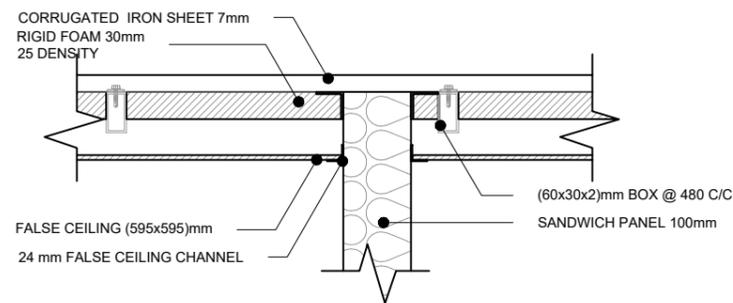
02 | ISOMETRIC DETAIL # 02 REF.A-03
A-14 | SCALE: 1:10



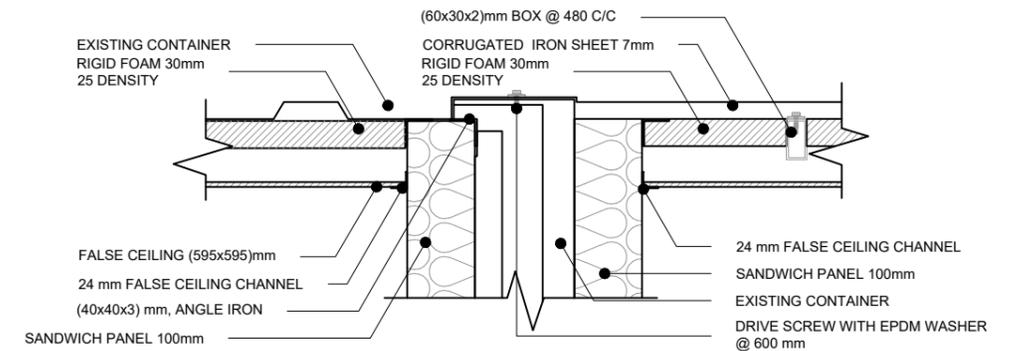
03 | ISOMETRIC DETAIL # 03 REF.A-03
A-14 | SCALE: 1:10



04 | DETAIL #04 REF.A-05
A-14 | SCALE: 1:10



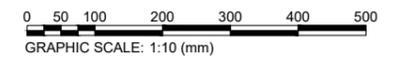
05 | DETAIL #05 REF.A-05
A-14 | SCALE: 1:10



06 | DETAIL #06 REF.A-05
A-14 | SCALE: 1:10

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.



CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:



PROJECT TITLE:

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT

DETAILS AND ISOMETRIC
VIEWS

REVISION

▲	90% DESIGN SUBMITTAL	OCT 29, 2024
▲	100% DESIGN SUBMITTAL	DEC-05-2024
▲		
▲		

DATE

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CHECKED BY: ENG BILAL

APPROVED BY: UNOPS

APPROVED FOR

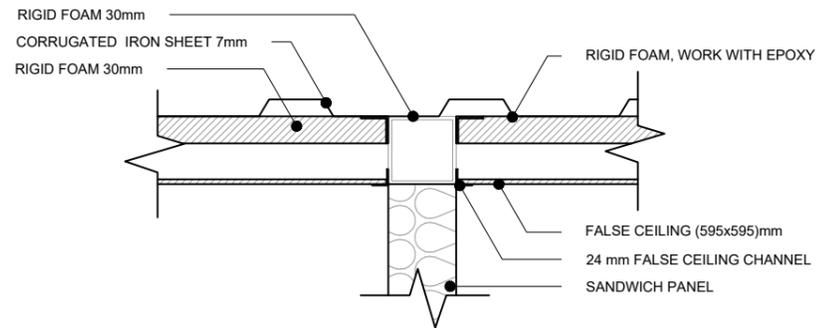
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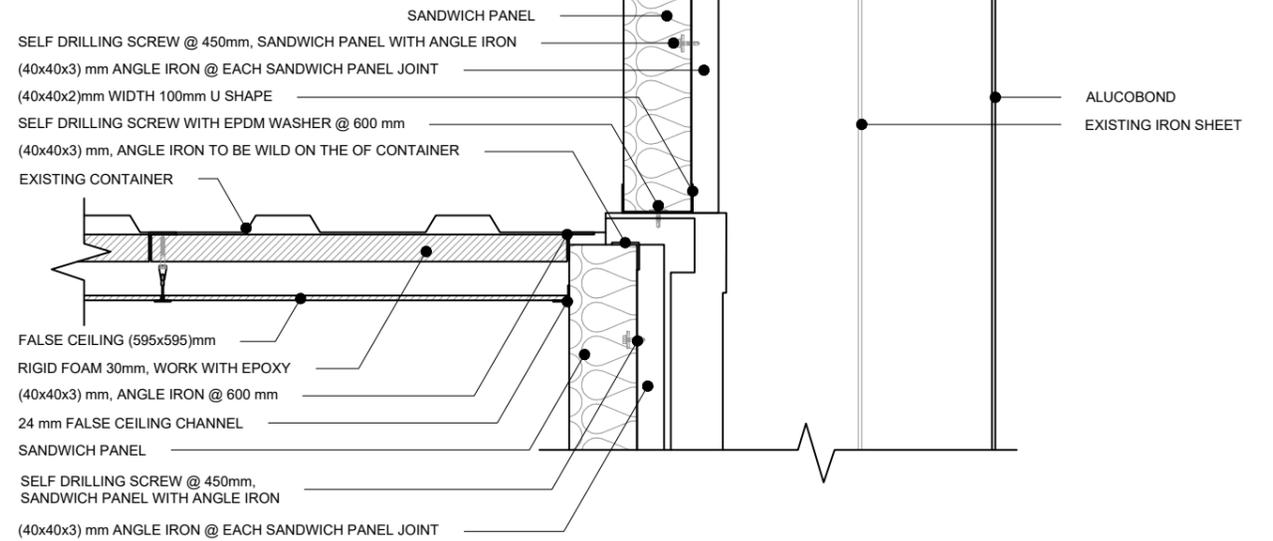
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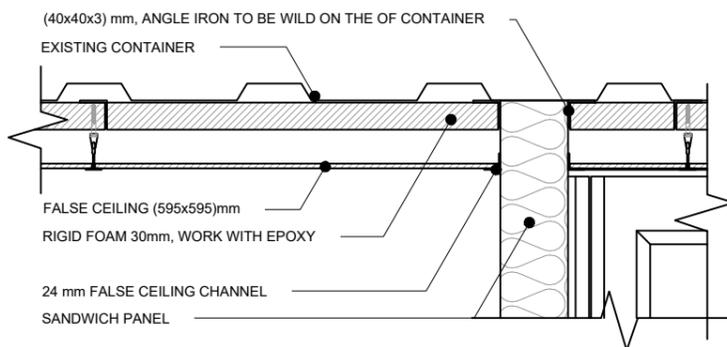
A-14



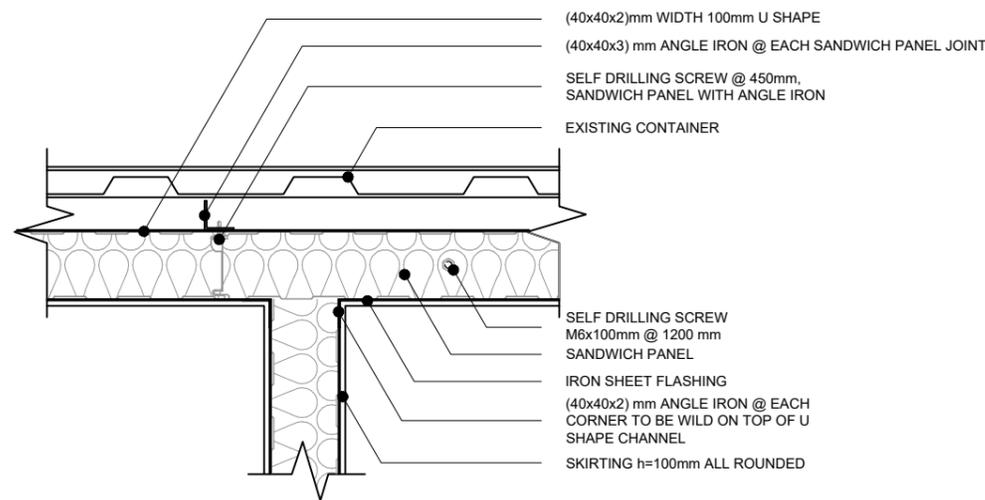
01 | DETAIL #07 REF.A-05
A-15 | SCALE: 1:10



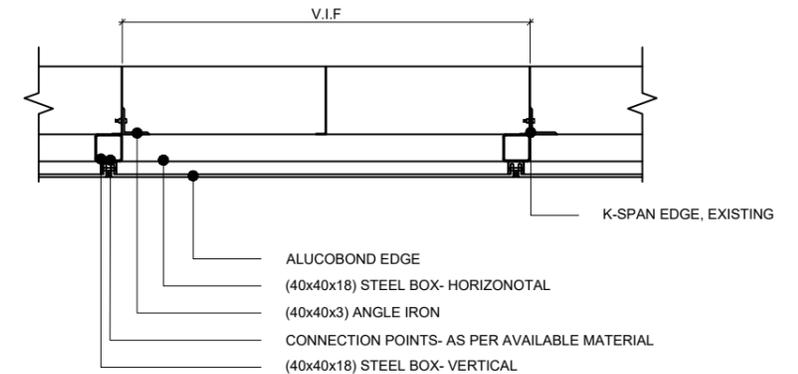
02 | DETAIL #08 REF.A-08
A-15 | SCALE: 1:10



03 | DETAIL #09 REF.A-08
A-15 | SCALE: 1:10

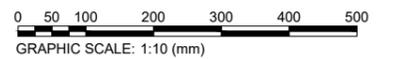


04 | DETAIL #10 REF.A-03
A-15 | SCALE: 1:10



05 | DETAIL #11 REF.A-09
A-15 | SCALE: 1:10

GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.



CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:



PROJECT TITLE:

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT

DETAILS

REVISION

- ▲ 90% DESIGN SUBMITTAL
- ▲ 100% DESIGN SUBMITTAL
- ▲
- ▲

DATE

OCT 29, 2024

DEC-05-2024

DRAW BY: ENG EDRIS SAYEDI & ENG ULFAT

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APPROVED BY: UNOPS

APPROVED FOR

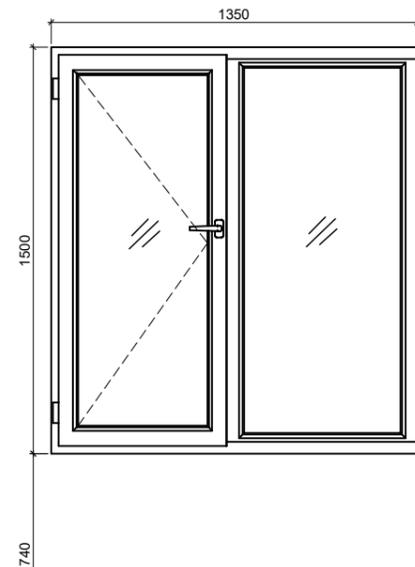
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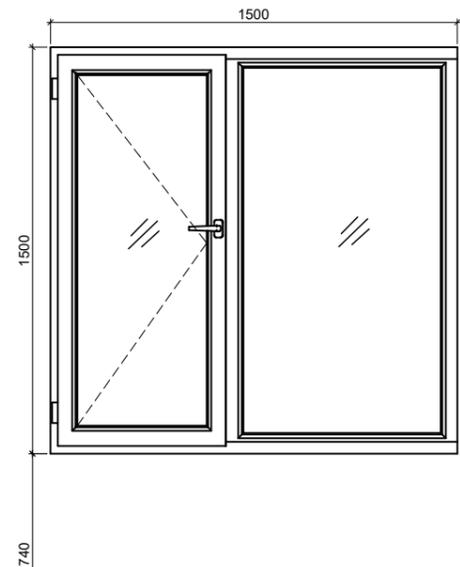
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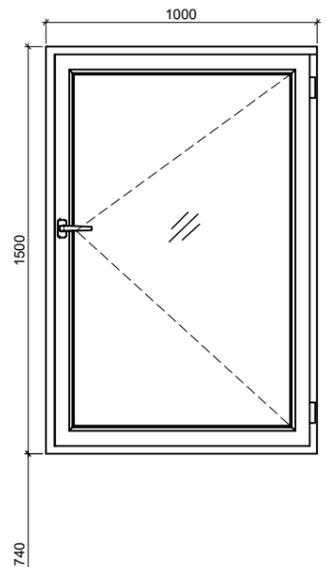
A-15



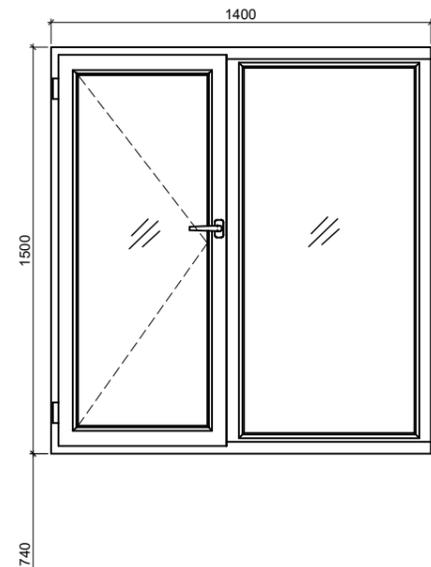
01 WINDOW (W1)
A-16 REF SCALE: 1:25



02 WINDOW (W2)
A-16 REF SCALE: 1:25



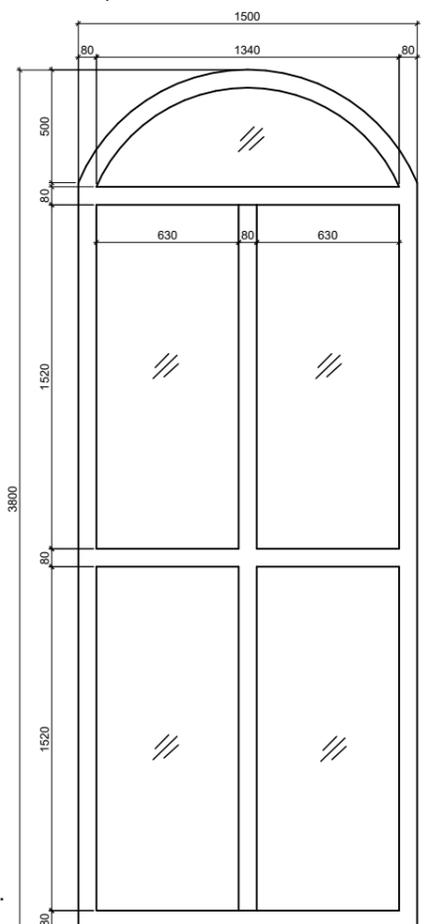
03 WINDOW (W3)
A-16 REF SCALE: 1:25



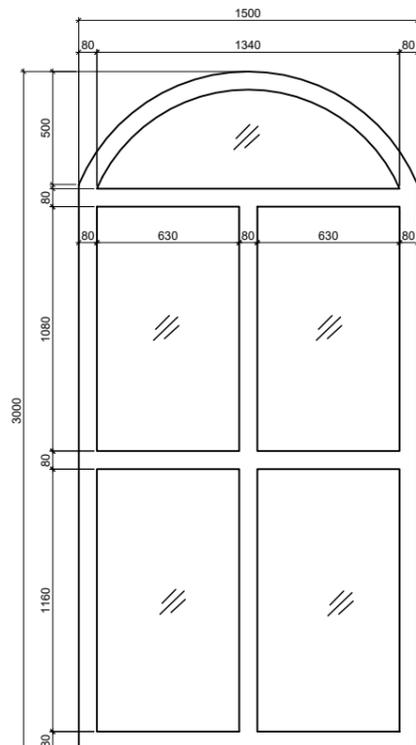
04 WINDOW (W4)
A-16 REF SCALE: 1:25

WINDOW SCHEDULE					
TYPE	WIDTH	HEIGHT	OPENING SYSTEM	MAIN FRAME & SASH MEMBERS	AMOUNT
W1	1350	1500	HINGED	PVC	5
W2	1500	1500	HINGED	PVC	3
W3	1000	1500	HINGED	PVC	1
W4	1400	1500	HINGED	PVC	1
W5	1500	3800	CLOSED	PVC	1
W6	1500	3000	CLOSED	PVC	1
W7	1500	2010	CLOSED	PVC	1
W8	1000	2300	CLOSED	PVC	2

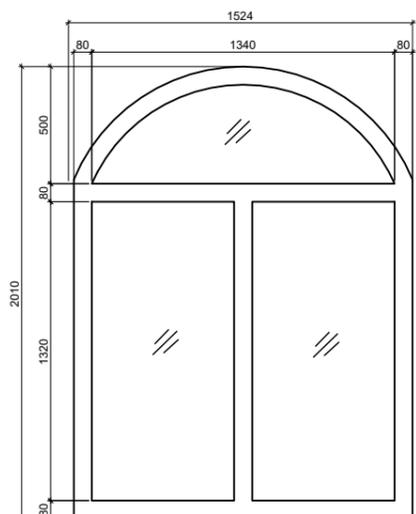
F.F.L.



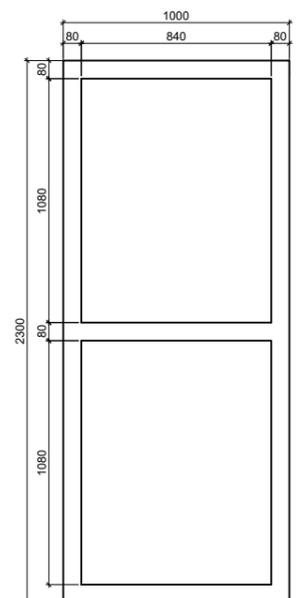
05 WINDOW (W5)
A-16 REF SCALE: 1:30



06 WINDOW (W6)
A-16 REF SCALE: 1:30



07 WINDOW (W7)
A-16 REF SCALE: 1:30



08 WINDOW (W8)
A-16 REF SCALE: 1:30

HARDWARE	
TYPE	HARDWARE SCHEDULE
W1	HINGES, LOCKSET, STOPPER, THRESHOLD, WEATHER STRIPPING SYSTEM, FLY SCREEN, GLAZING
W2	HINGES, LOCKSET, STOPPER, THRESHOLD, WEATHER STRIPPING SYSTEM, FLY SCREEN, GLAZING
W3	HINGES, LOCKSET, STOPPER, THRESHOLD, WEATHER STRIPPING SYSTEM, FLY SCREEN, GLAZING
W4	HINGES, LOCKSET, STOPPER, THRESHOLD, WEATHER STRIPPING SYSTEM, FLY SCREEN, GLAZING
W5	HINGES, LOCKSET, STOPPER, THRESHOLD, WEATHER STRIPPING SYSTEM, FLY SCREEN, GLAZING
W6	HINGES, LOCKSET, STOPPER, THRESHOLD, WEATHER STRIPPING SYSTEM, FLY SCREEN, GLAZING
W7	HINGES, LOCKSET, STOPPER, THRESHOLD, WEATHER STRIPPING SYSTEM, FLY SCREEN, GLAZING

- NOTES:**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 - ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.
 - ALL WINDOWS ARE PVC.
 - ALL WINDOWS SHALL BE 6mm DOUBLE GLASS GLAZING.
 - ALL WINDOW SHALL HAVE BLASTING FILM.
 - CONTRACTOR SHALL COORDINATE WITH DOOR & WINDOW SUPPLIER TO ENSURE THAT DIMENSIONS OF DOORS/WINDOWS AND FRAMES PROVIDED ARE COMPATIBLE WITH DOOR OPENING DIMENSIONS.
 - HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A STAIN OR BRUSHED FINISH.
 - THE THE GLASSES FOR OUTSIDE SHOULD HAVE A reflective window film VERIFY THIS ON SITE AS PER ENGINEER INSTRUCTION.

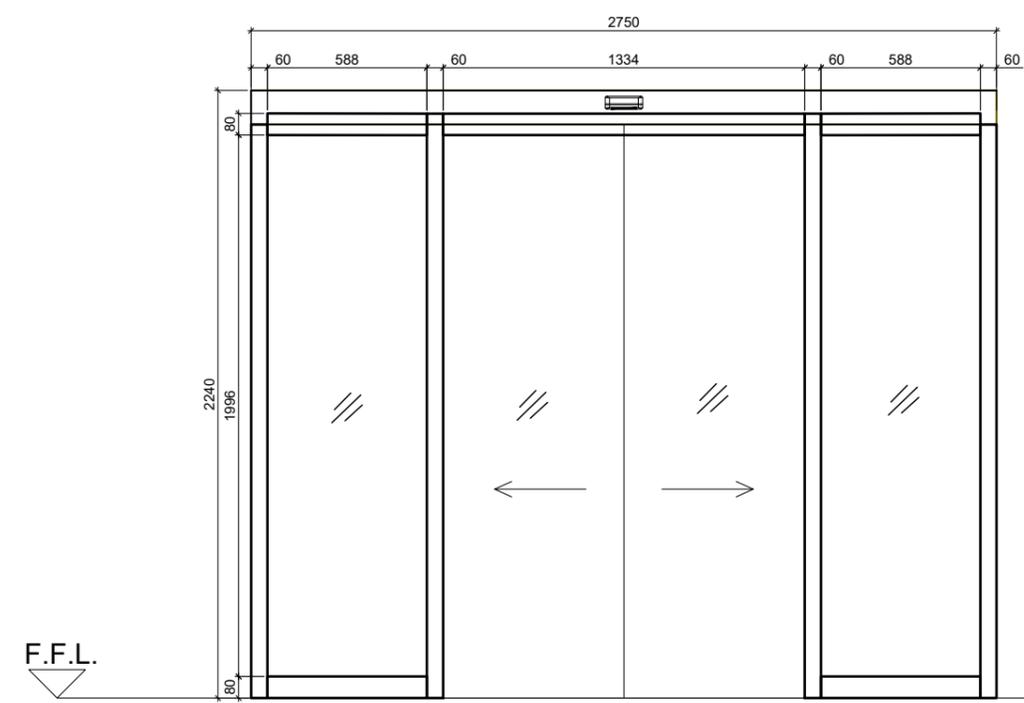
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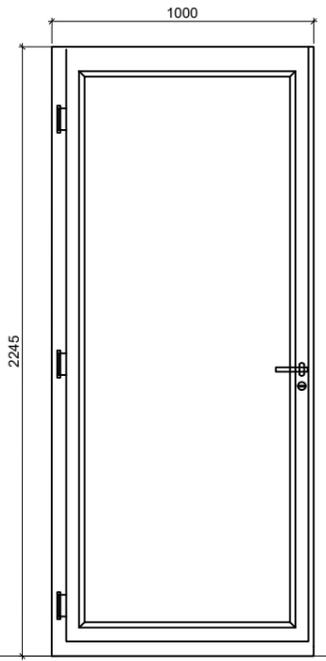
DOOR SCHEDULE									
DOORS								INTERIOR OR EXTERIOR DOOR	AMOUNT
TYPE	PAIR	OPENING SYSTEM	ROUGH WIDTH	ROUGH HEIGHT	MATERIAL	FIRE RATING	GLAZING		
DW1	✓	SLIDING	2750	2240	ALUMINUM	—	—	EXTERIOR	2
D1	—	HINGED	1000	2245	PVC	—	—	INTERIOR	11
D2	—	HINGED	800	1500	PVC	—	—	INTERIOR	1
D3	—	HINGED	800	2100	PVC	—	—	INTERIOR	3
D4	—	HINGED	900	2100	PVC	—	—	EXTERIOR	1
D5	—	HINGED	950	1700	PVC	—	—	INTERIOR	1

HARDWARE	
TYPE	HARDWARE SCHEDULE
DW1	DOOR STOPS, THRESHOLD, WEATHER STRIPPING SYSTEM
D1	3 HINGES, LOCKSET, HANDLE, DOOR STOPS, THRESHOLD, WEATHER STRIPPING SYSTEM
D2	3 HINGES, LOCKSET, HANDLE, DOOR STOPS, THRESHOLD, WEATHER STRIPPING SYSTEM, PANIC BAR
D3	3 HINGES, LOCKSET, HANDLE, DOOR STOPS, THRESHOLD, WEATHER STRIPPING SYSTEM
D4	3 HINGES, LOCKSET, HANDLE, DOOR STOPS, THRESHOLD, WEATHER STRIPPING SYSTEM
D5	3 HINGES, LOCKSET, HANDLE, DOOR STOPS, THRESHOLD, WEATHER STRIPPING SYSTEM

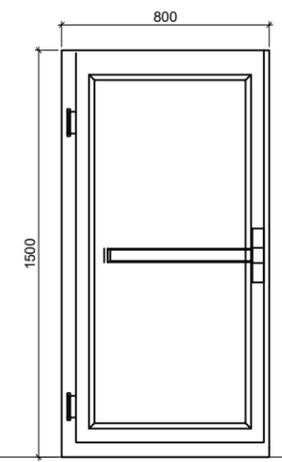
AUTOMATIC SLIDING DOOR SPECIFICATION	
MODEL	DECO MODEL D3
VOLTAGE	AC110-220+10%V, 50/60Hz
OPENING SPEED	150-460mm/s (adjustable)
CLOSING SPEED	130-460mm/s (adjustable)
MOTOR TYPE	DC24V, 70W (DC, brushless)
GLASS TYPE	10mm LAMINATED GLASS GLAZING.



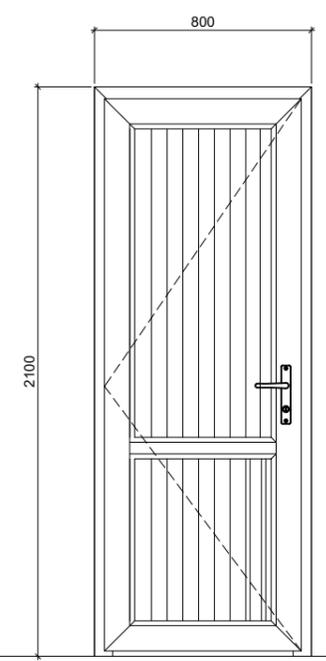
01 | DOOR-WINDOW (DW1)
A-17 | REF SCALE: 1:30



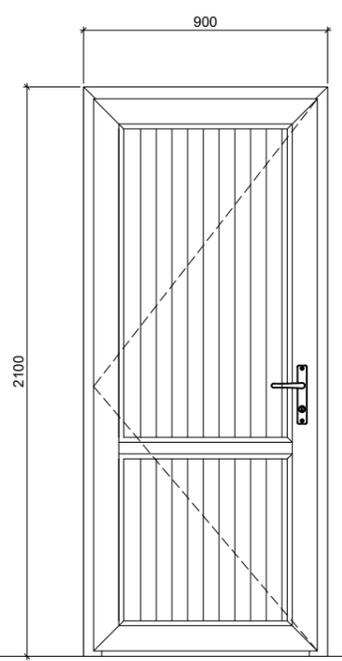
02 | DOOR (D1)
A-17 | REF SCALE: 1:30



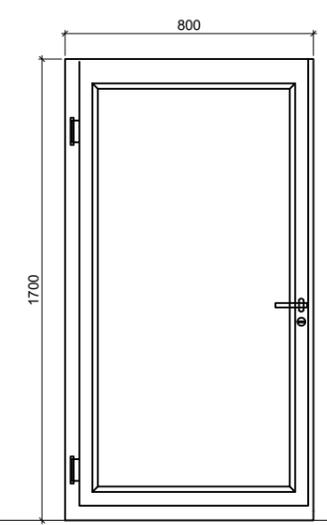
02 | DOOR (D2)
A-17 | REF SCALE: 1:30



03 | DOOR (D3)
A-17 | REF SCALE: 1:30



04 | DOOR (D4)
A-17 | REF SCALE: 1:30



05 | DOOR (D5)
A-17 | REF SCALE: 1:30

- NOTES:**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 - ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.
 - ALL WINDOWS ARE PVC.
 - ALL WINDOW SHALL HAVE BLASTING FILM.
 - ALL DOORS ARE PVC DOOR UNLESS OTHERWISE SPECIFIED.
 - ALL GLASSES SHALL BE 10mm LAMINATED GLASS GLAZING.
 - CONTRACTOR SHALL COORDINATE WITH DOOR & WINDOW SUPPLIER TO ENSURE THAT DIMENSIONS OF DOORS/WINDOWS AND FRAMES PROVIDED ARE COMPATIBLE WITH DOOR OPENING DIMENSIONS.
 - HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A STAIN OR BRUSHED FINISH.





CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: 	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG EDRIS SAYEDI & ENG ULFAT	DWG NO.
				K-SPAN FRONT 3D IMAGE	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL ▲ ▲	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC-05-2024	A SHEET NO A-18



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: 	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG EDRIS SAYEDI & ENG ULFAT	DWG NO.
				K-SPAN FRONT 3D IMAGE	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL ▲ ▲	OCT 29, 2024 DEC-05-2024 APPROVED FOR DATE: DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC-05-2024	A SHEET NO A-19



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: 	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG EDRIS SAYEDI & ENG ULFAT	DWG NO.
				CORRIDOR 3D IMAGE	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL ▲ ▲	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC-05-2024	A SHEET NO A-20



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT:  LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG EDRIS SAYEDI & ENG ULFAT	DWG NO.
				OFFICE ROOM 3D IMAGE	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL ▲ ▲	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC-05-2024	A SHEET NO A-21

DESIGN OF WERP OFFICES INSIDE THE K-SPAN

STRUCTURAL DRAWINGS

CLIENT:

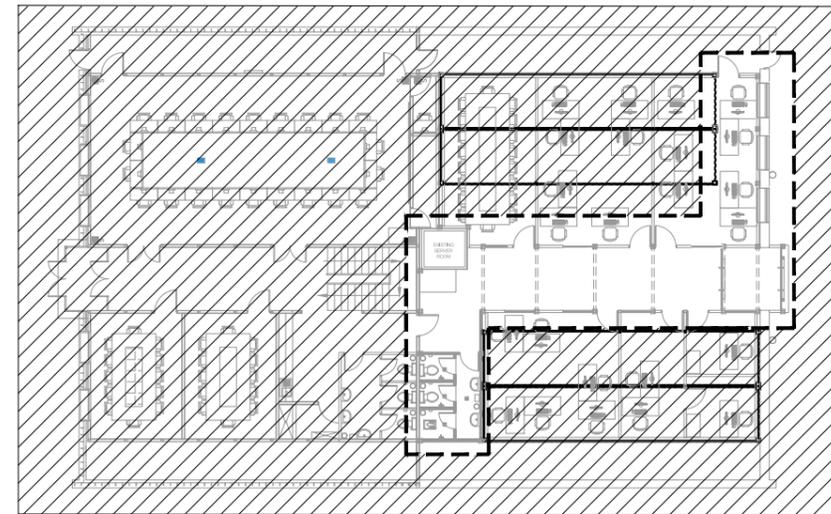
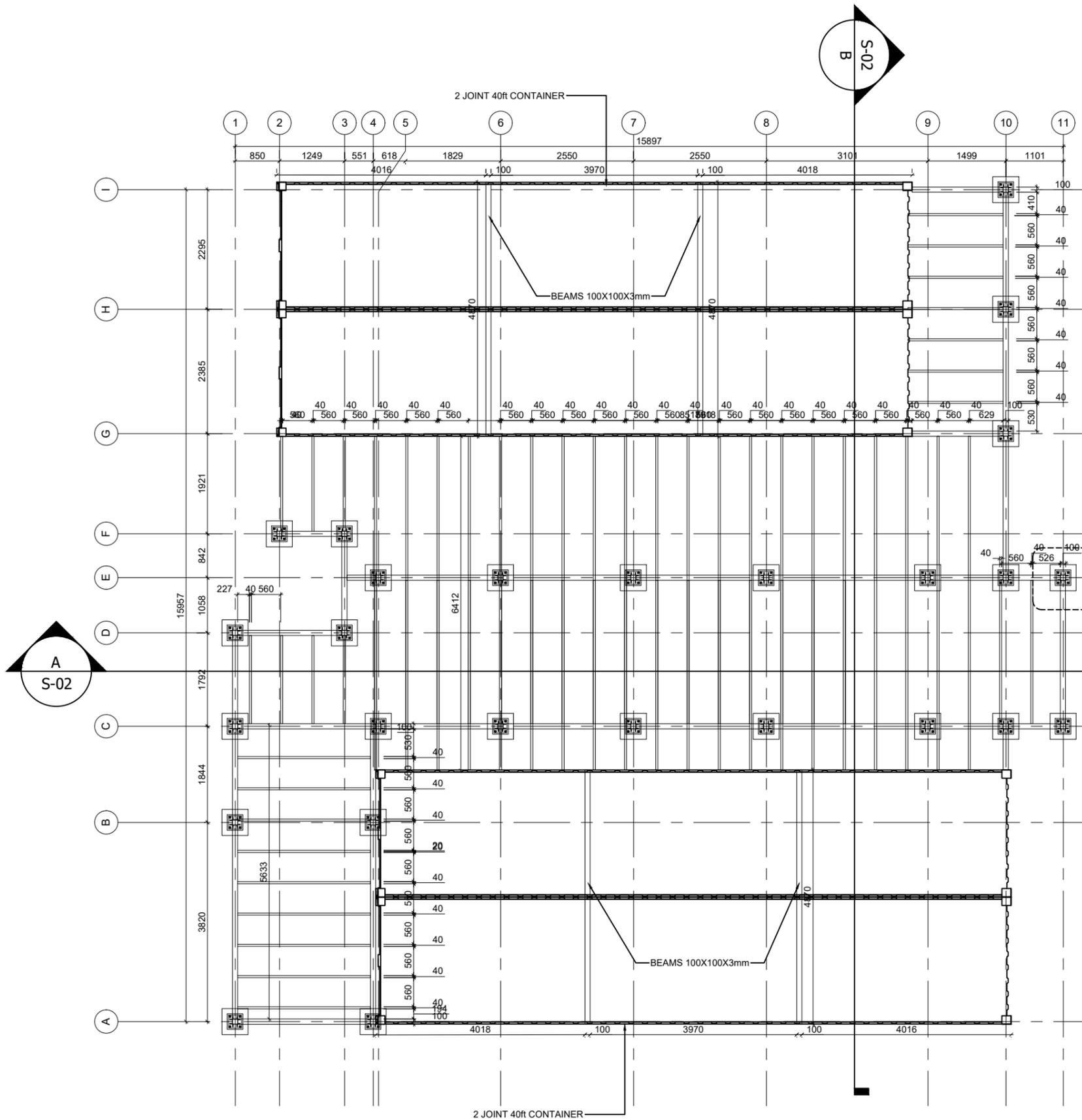
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



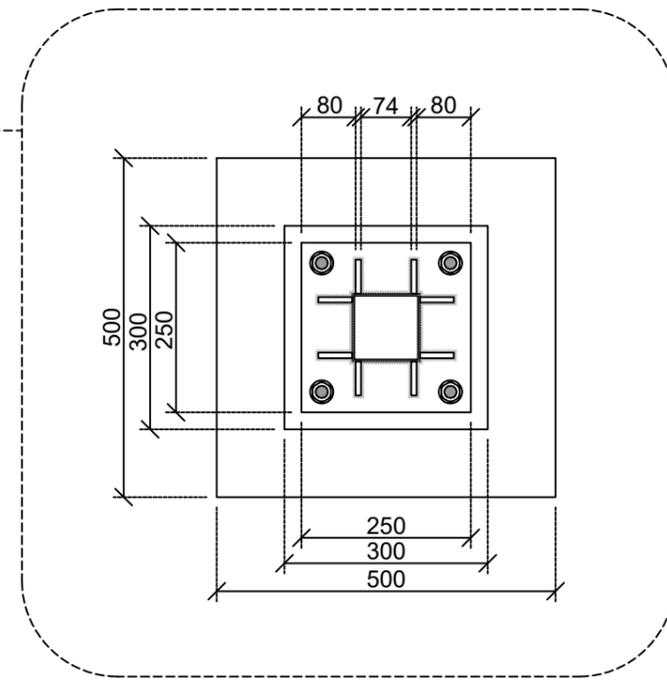
CONSULTING:

LAZULI PAMIR

Consulting Engineering
Services Co.

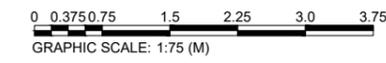


01 | KEY PLAN
S-01 | SCALE: N.T.S

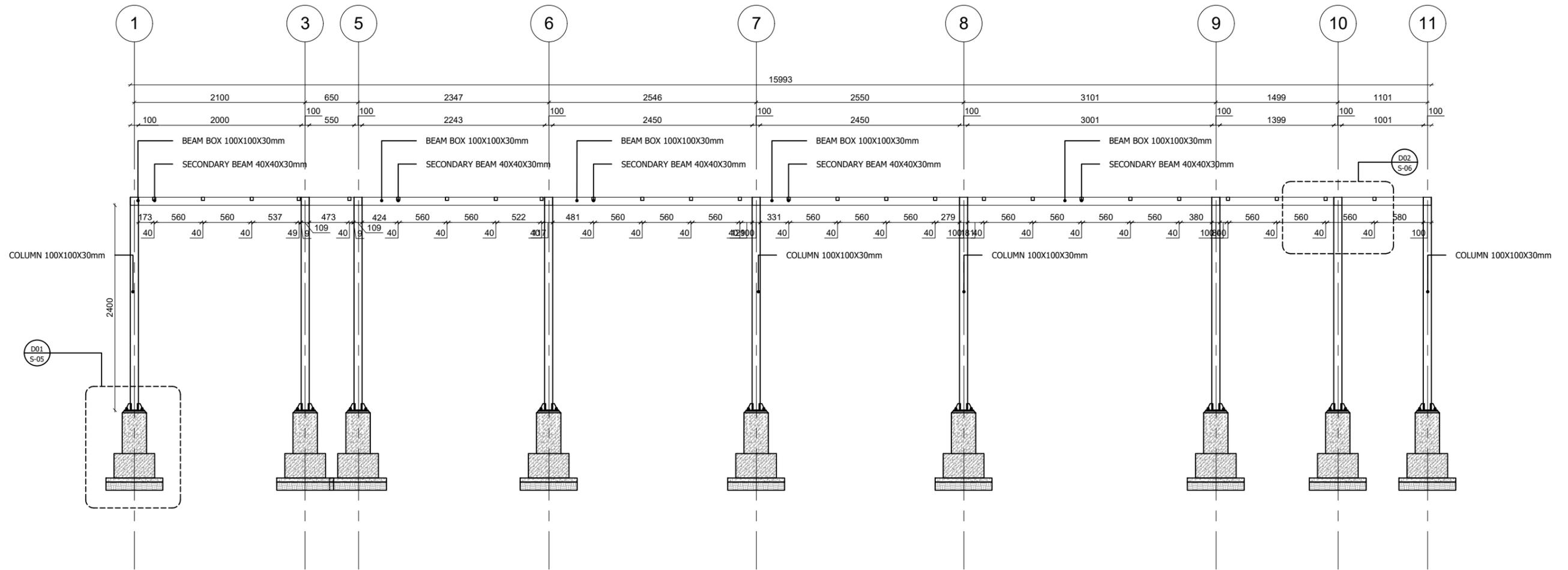


GENERAL NOTES:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. ALL LEVELS ARE IN METER (m) UNLESS OTHERWISE SPECIFIED.

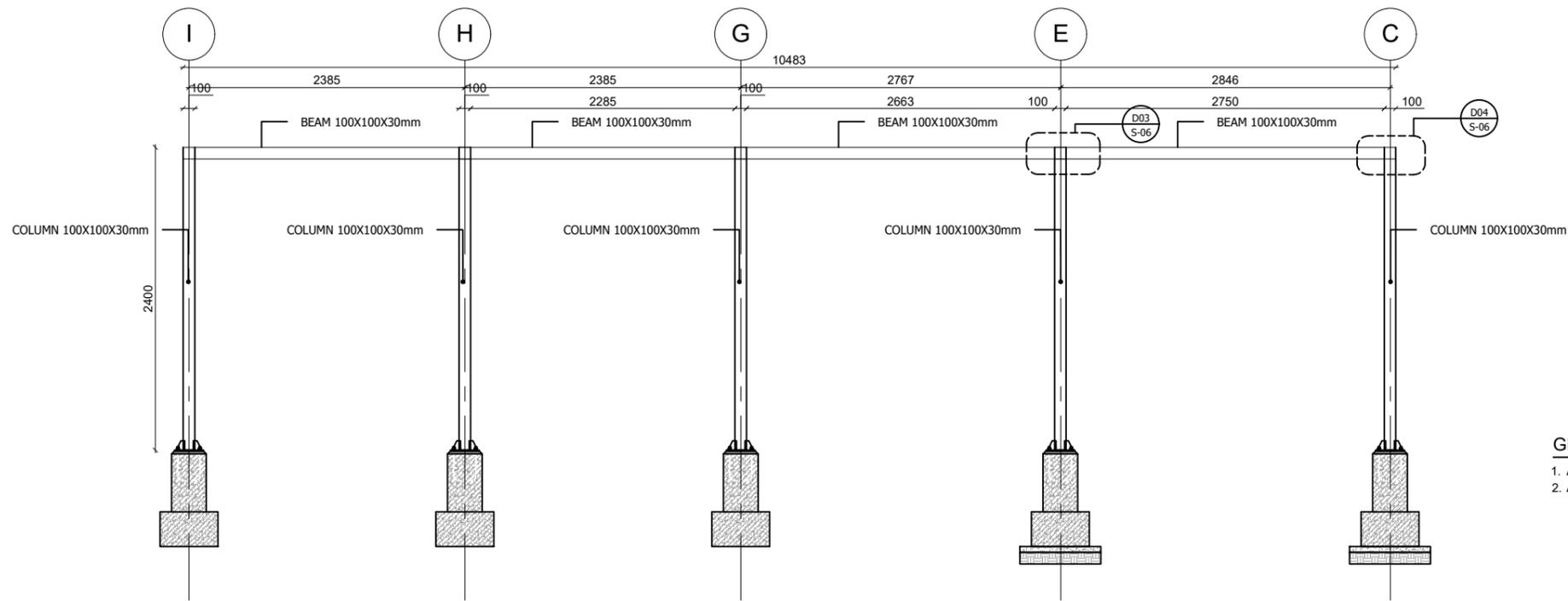
01 | MEMBERS PLAN
S-01 | SCALE: 1:75



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT:  LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DRAW BY: ENG RASOOL KHAWRIN	DWG NO.
			MEMBERS PLAN	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC-05-2024	S SHEET NO S-01



01 SECTION A
S-02 SCALE: 1:50



01 SECTION B
S-02 SCALE: 1:50

GENERAL NOTES:
 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
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CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:



PROJECT TITLE:

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT

SECTIONS

REVISION

- ▲ 90% DESIGN SUBMITTAL
- ▲ 100% DESIGN SUBMITTAL
- ▲
- ▲

DATE

OCT 29, 2024

DEC-05-2024

DRAW BY: ENG RASOOL KHAWRIN

CHECKED BY: ENG BILAL

APPROVED BY: UNOPS

APPROVED FOR

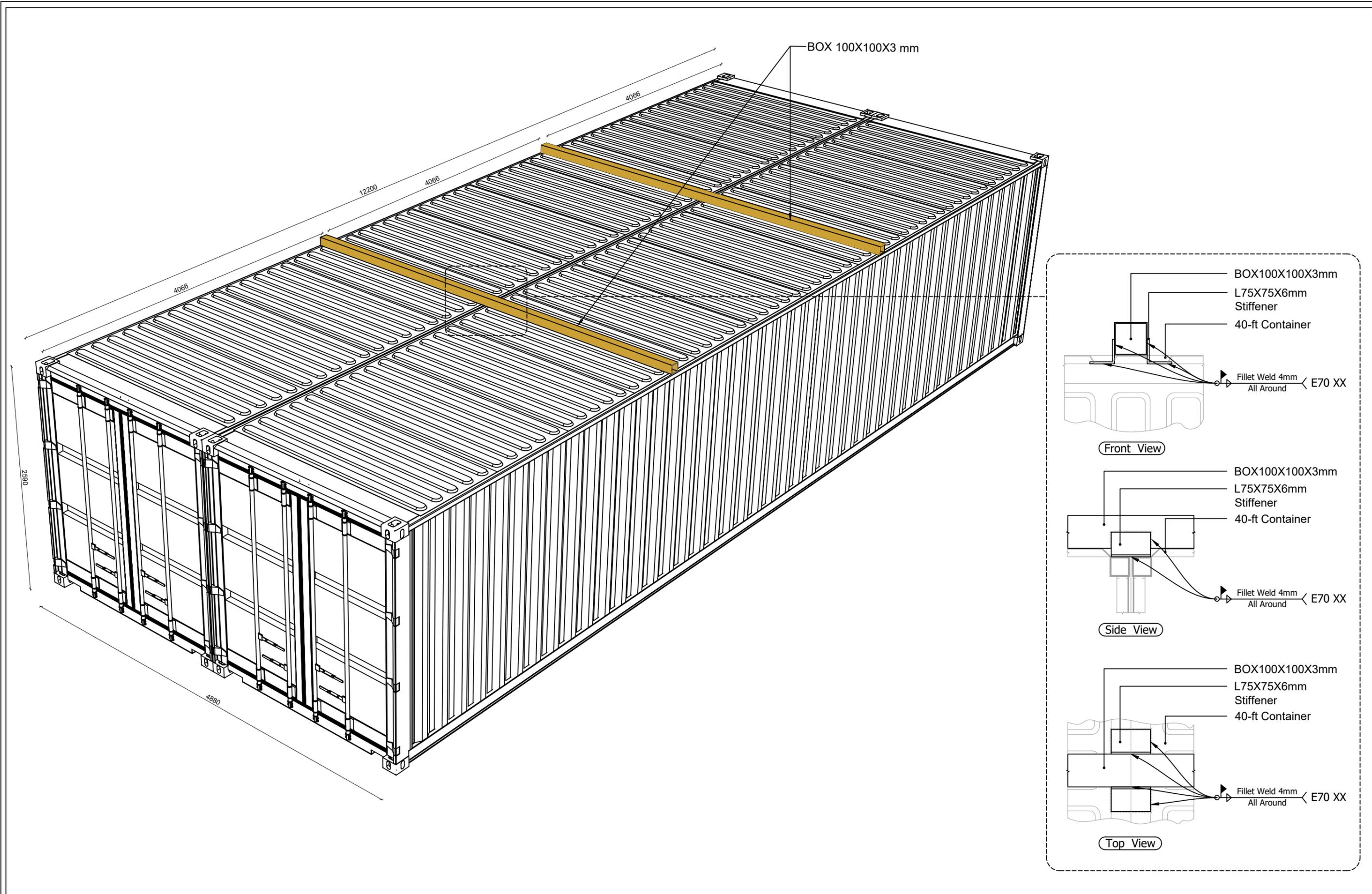
DATE: DEC-05-2024

DWG NO.

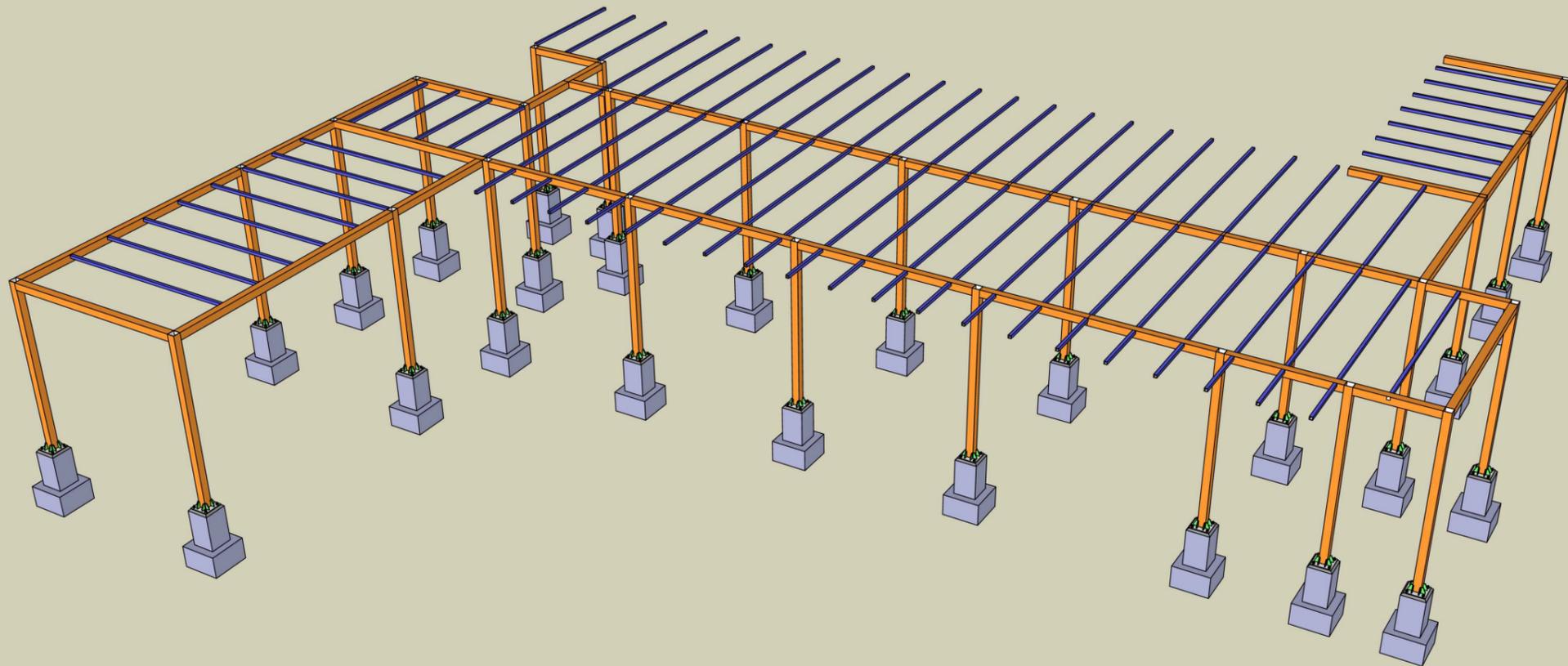
S

SHEET NO

S-02



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: 	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG RASOOL KHAWRIN	DWG NO.
				BEAMS AND COLUMNS ISOMETRIC VIEW	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS	S
					▲ ▲		APPROVED FOR	SHEET NO
						DATE: DEC-05-2024		S-03



COLUMNS AND BEAMS 100X100X30mm

SECONDARY BEAMS 40X40X30mm

CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:



PROJECT TITLE:

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT

BEAMS AND
COLUMNS ISOMETRIC
VIEW

REVISSION

- A 90% DESIGN SUBMITTAL
- B 100% DESIGN SUBMITTAL
- C
- D

DATE

OCT 29, 2024
DEC-05-2024

DRAW BY: ENG RASOOL KHAWRIN

CHECKED BY: ENG BILAL
APPROVED BY: UNOPS

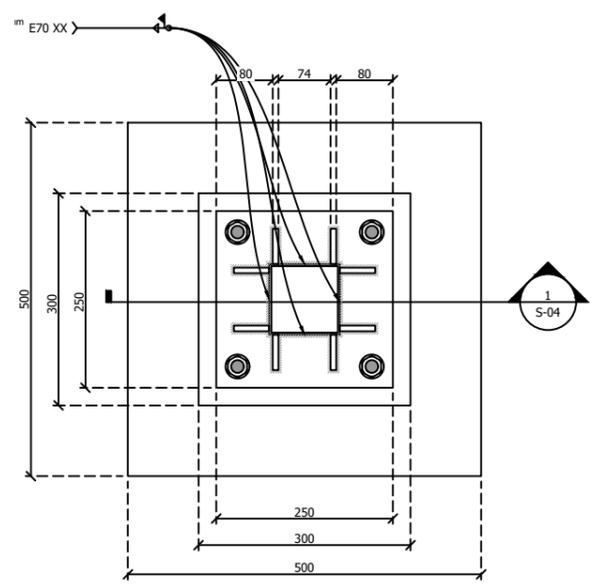
APPROVED FOR
DATE: DEC-05-2024

DWG NO.

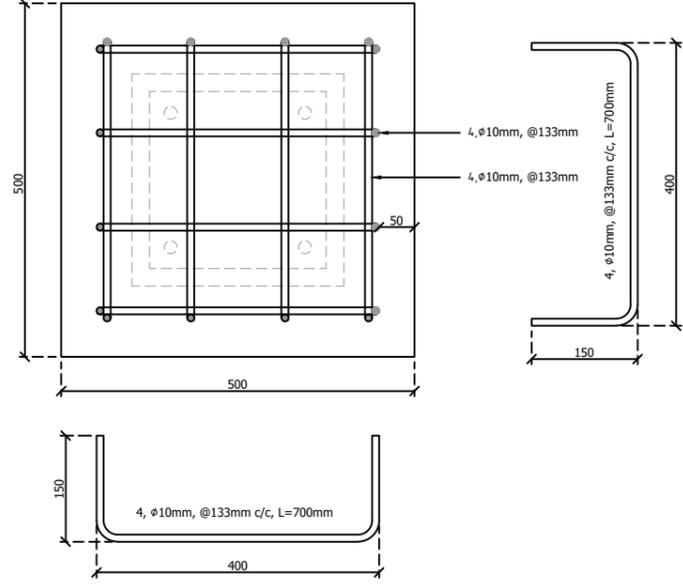
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SHEET NO

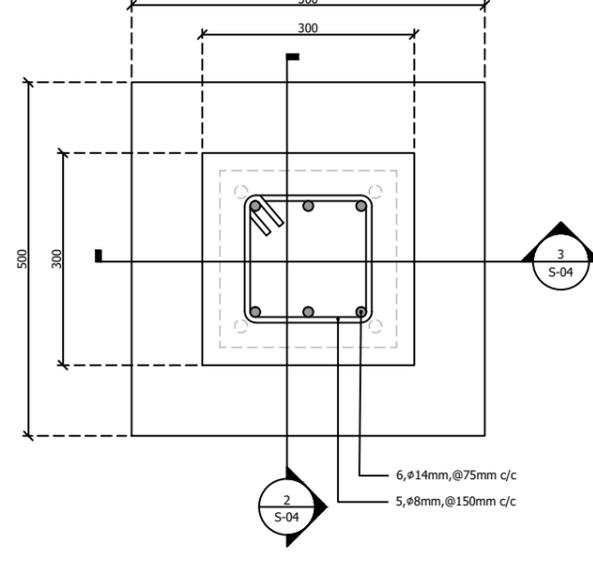
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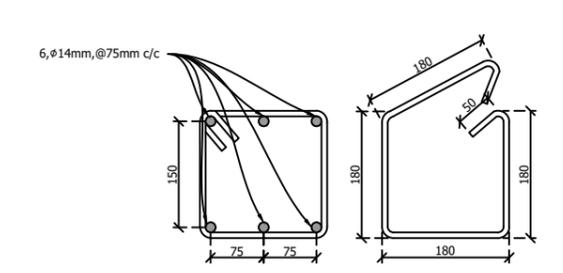
Base Plate Plan (D01/S-05) Scale 1:10



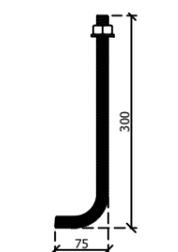
Footing Rebar Plan Scale 1:10



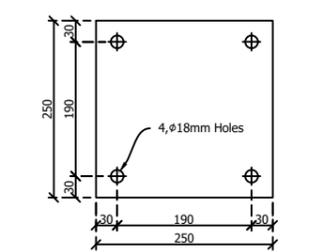
Pedestal Rebar Plan Scale 1:10



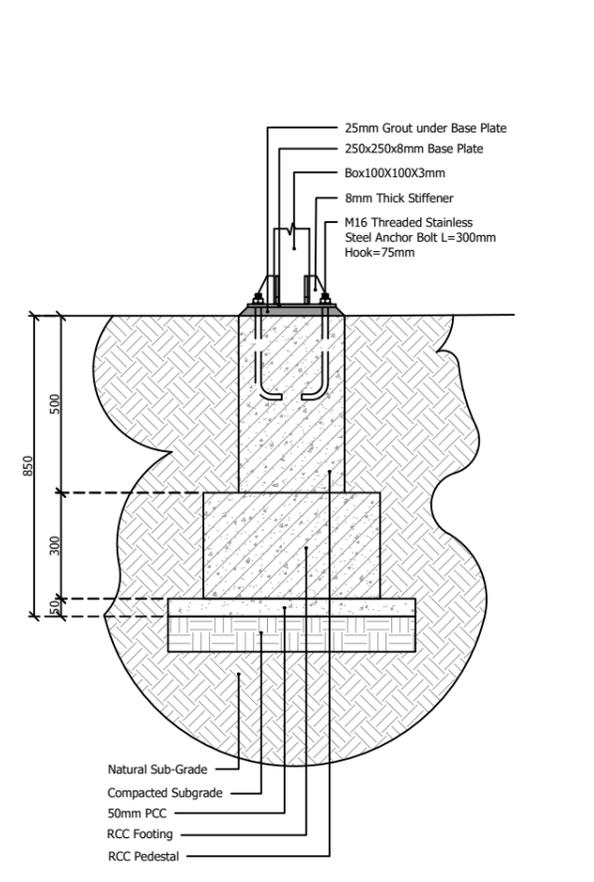
Pedestal Main Bars and Stirrup Dimensions Scale 1:10



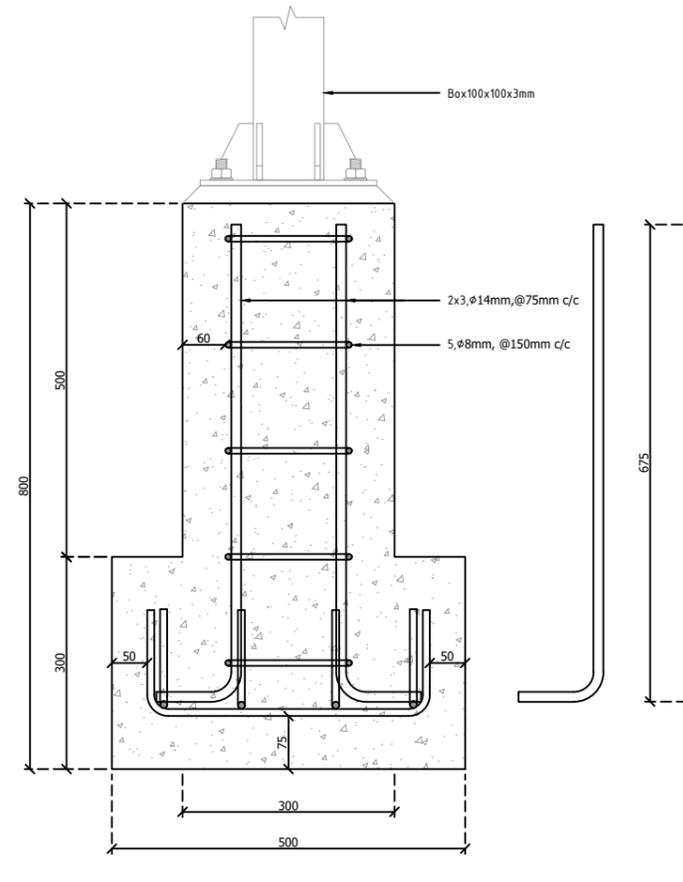
Anchor Bolt Scale 1:10



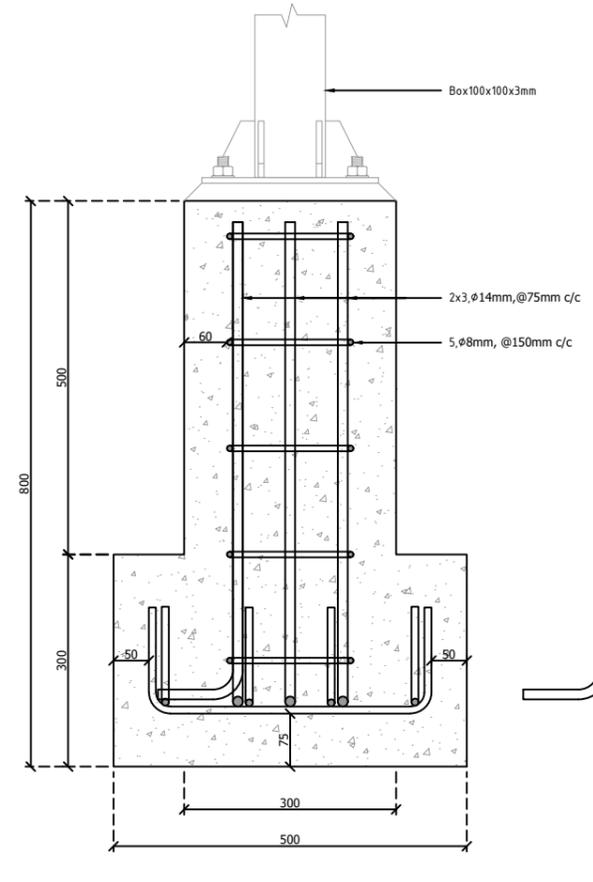
Base Plate Dimension Scale 1:10



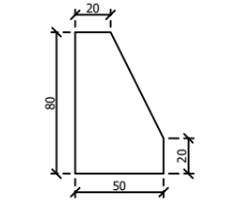
Section (1/S-05) Scale 1:20



Section (2/S-05) Scale 1:10



Section (3/S-05) Scale 1:10

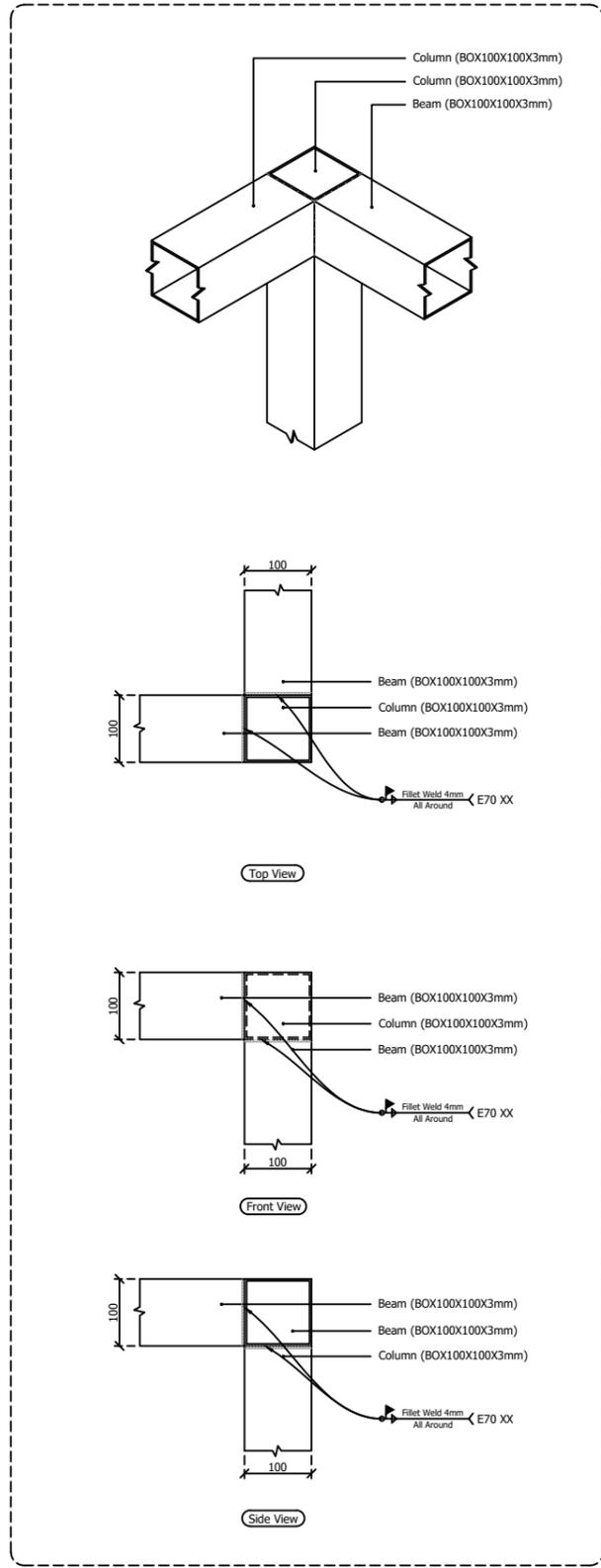


Stiffener Dimensions Scale 1:4

General Notes

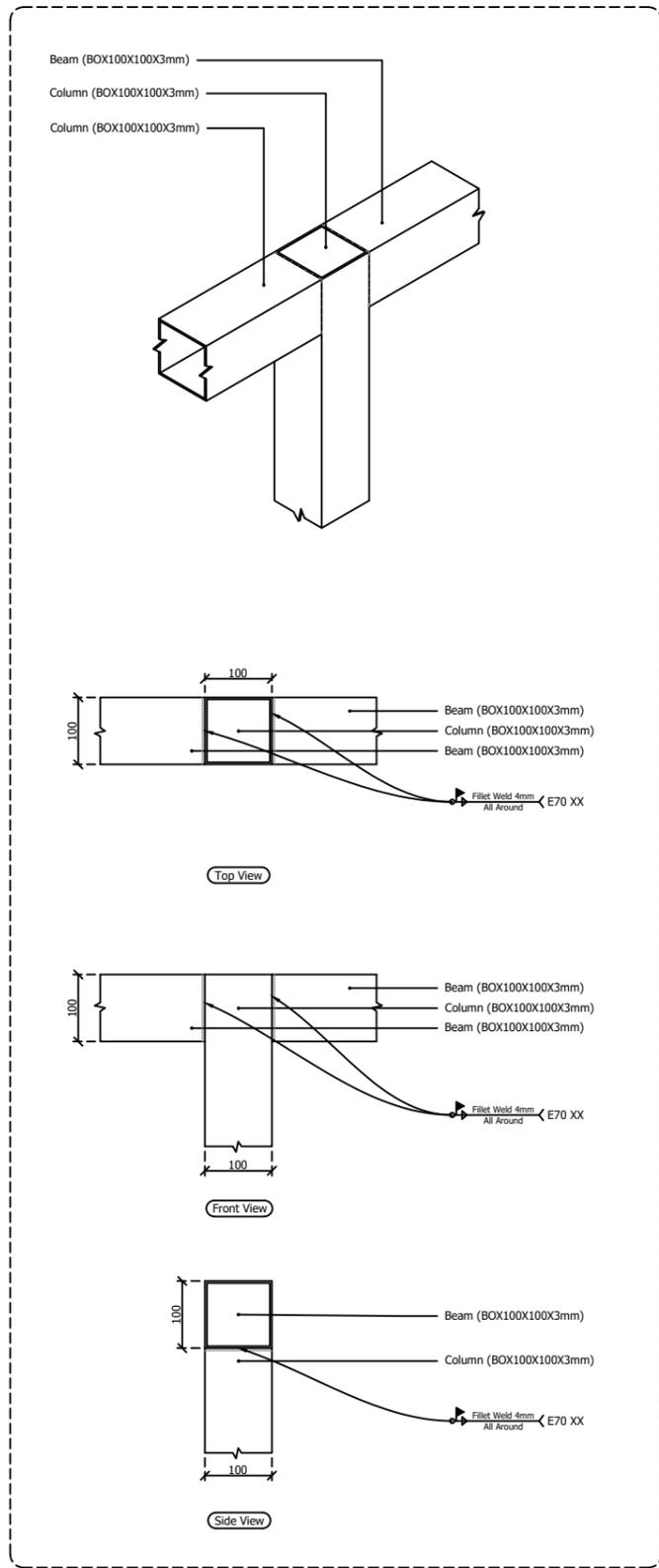
- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS MUST BE CAREFULLY CHECKED WITH SITE BEFORE IMPLEMENTATION AND CUTTING MEMBERS.
- DIAMETER OF HOLE IN BASE PLATE MUST BE GREATER 2MM THAN THE DIAMETER OF ANCHOR BOLT.
- GRADE OF ALL REINFORCEMENT BARS IS ASTM A615 60KSI.
- ALL ANCHOR BOLTS MUST BE STAINLESS STEEL ASTM A325 GRADE AND THREADED OVERALL LENGTH.
- GAP BETWEEN PEDESTAL AND BASE PLATE MUST BE FILLED BY ZHIKAWA II GROUT.
- GRADE OF CONCRETE MUST BE 3000PSI AND PROPORTION OF MATERIALS AND WATER CEMENT RATIO MUST BE ACCORDING MIX DESIGN.
- WIDTH OF WELDING MUST BE 4MM THROUGH E70XX ELECTRODES.
- GRADE OF BOX SECTION MUST BE ASTM A500 OF ITS EQUIVALENT.
- COLUMN MUST BE INSTALLED AFTER 7 DAYS CURING OF FOOTING AND PEDESTAL.

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DRAW BY: ENG RASOOL KHAWRIN	DWG NO.
			DETAILS	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC-05-2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR: DATE: DEC-05-2024	S SHEET NO S-05



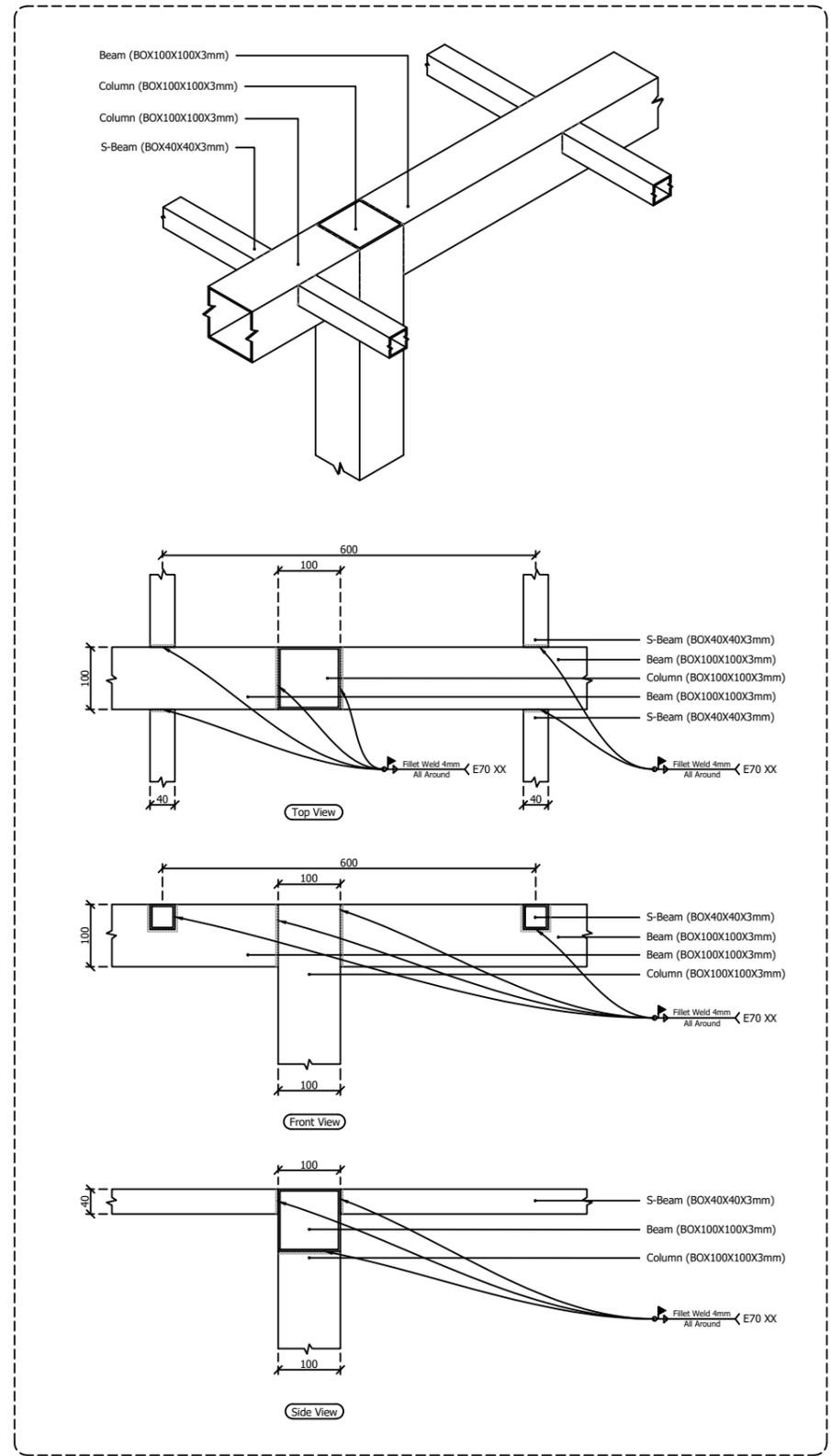
Beam-Column Corner Joint Detail (D04/S-06)

Scale 1:10



Beam-Column Internal Joint Detail (D03/S-06)

Scale 1:10



Beam-Column-Secondary Beam Joint Detail (D02/S-06)

Scale 1:10

CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:
LAZULI PAMIR
Consulting Engineering



PROJECT TITLE:
DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT
BEAM AND COLUMN
CONNECTION
DETAILS

REVISION	DATE
1. 90% DESIGN SUBMITTAL	OCT 29, 2024
2. 100% DESIGN SUBMITTAL	DEC-05-2024
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DATE	DRAW BY: ENG RASOOL KHAWRIN	DWG NO.
OCT 29, 2024	CHECKED BY: ENG BILAL	S
DEC-05-2024	APPROVED BY: UNOPS	SHEET NO
	APPROVED FOR	S-06
DATE: DEC-05-2024		

DESIGN OF WERP OFFICES INSIDE THE K-SPAN

MECHANICAL DRAWINGS

CLIENT:

UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTING:

LAZULI PAMIR

Consulting Engineering
Services Co.

KITCHEN EXHAUST HOOD REQUIREMENTS:

1. JOINTS AND SEAMS ON EXHAUST HOODS SHALL BE WELDED LIQUID-TIGHT.
2. EXHAUST FAN MOTOR SHALL BE LOCATED OUTSIDE OF THE EXHAUST DUCT. EXHAUST DISCHARGE MUST TERMINATE AT LEAST 100cm ABOVE THE HIGHEST POINT THE SURFACE OF THE ROOF MEETS THE DUCT.
3. GREASE TROUGH SHALL BE SLOPED TO REMOVABLE GREASE CUP (1 GALLON MAX)
4. CLEARANCE TO COMBUSTIBLES SHALL BE OBSERVED FOR THE FOLLOWING: 45cm, OR 2-HOUR RATED DUCT W/ DESIGN LISTING INFORMATION, OR 23cm. OR 7.6cm, FOLLOWING NFPA 96 GUIDELINES (1-3.2.1)
5. EXHAUST HOOD METAL SHALL BE A MINIMUM OF 18 GA ALUMINIZED STEEL AND 20 GA STAINLESS STEEL.
6. DISTANCE FROM THE FLOOR TO THE BOTTOM OF THE HOOD ON A CANOPY EXHAUST HOOD SHALL BE 190cm - 213cm.
7. DISTANCE FROM THE COOKING SURFACE TO THE BOTTOM OF THE FILTER SHALL BE GREATER THAN 45cm (SEE DRAWING).
8. CLEAN OUTS ON THE EXHAUST DUCT SHALL BE PROVIDED AT ALL CHANGES OF DIRECTION AND 700cm INTERVALS ON ALL HORIZONTAL RUNS.
9. CLEAN OUTS ON THE EXHAUST DUCT SHALL HAVE A MINIMUM DIMENSION OF 30cm.
10. KITCHEN EXHAUST SYSTEMS SHALL BE PROVIDED FOR ALL COMMERCIAL COOKING APPLIANCES. DOMESTIC COOKING APPLIANCES USED FOR COMMERCIAL PURPOSES SHALL ALSO BE PROVIDED WITH A COMMERCIAL EXHAUST HOOD.
11. MAKE UP AIR FANS MUST BE ELECTRICALLY INTERLOCKED WITH THE HOOD EXHAUST FAN.
12. ALL OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 3000mm AWAY FROM THE EXHAUST DUCT TERMINATION.
13. KITCHEN HOOD PROVIDED WITH 50mm THICK WASHABLE AND REMOVABLE FILTER.
14. FILTERS SHALL BE INSTALLED AT AN ANGLE OF NOT LESS THEN 45° FROM THE HORIZONTAL.
15. THE VERTICAL DISTANCE BETWEEN THE FRONT LOUVER LIP OF THE HOOD AND SUCH SURFACE SHALL NOT EXCEED (1219mm).
16. THE MINIMUM NET AIRFLOW ACCORDANCE TO IMC (INTERNATIONAL MECHANICAL CODE), ARTICLE 507.13.2 HEAVY-DUTY COOKING FOR WALL-MOUNTED CANOPY IS 250CFM PER LINEAR FOOT OF HOOD.
17. FIRE SUPPRESSION SYSTEM SHOULD BE CONNECTED TO FIRE ALARM.
18. ACTIVATION OF THE SYSTEM SHALL AUTOMATICALLY SHUT OFF ALL FUEL AND HEAT COMPONENT AND EQUIPMENT UNDER THE HOOD.
19. MANUAL ACTIVATION OF SUPPRESSION SYSTEM SHALL BE LOCATED AT LEAST 3M, BUT NOT MORE THAN 6M AWAY FROM THE EXHAUST HOOD. IN THE PATH OF EGRESS.

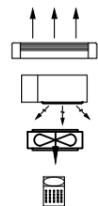
ROOF TYPE EXHAUST FAN NOTES:

1. PROVIDE A MOTORIZED DAMPER, IF APPLICABLE.
2. PROVIDE DIRECT DRIVE FANS FOR LOCATIONS NOT EASILY ACCESSIBLE. AS ATTIC OR PIPE BASEMENT AND LESS THAN 2 HP.
3. MINIMUM CURB HEIGHT SHALL BE 300 mm. INCREASE HEIGHT, IF REQUIRED, TO OVERCOME SNOW DRIFT.
4. SECURE CURB CAP TO WOOD NAILING STRIP WITH 10mm CADMIUM PLATED LAG BOLTS NOT OVER 300mm ON CENTER.
5. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT 6.RUN ELECTRICAL LINES THROUGH CLEARANCE HOLE PROVIDED IN GRAVITY DAMPER, THEN THROUGH VENTILATOR BOLTS (METAL DECK AND BAR JOIST ROOF). ELECTRICAL CONDUIT GUIDE.

SPLIT UNIT GENERAL NOTES:

1. SPLIT UNIT SHALL BE PROVIDED WITH CONDENSING UNIT(CU) AND CONTROLLED BY REMOTE CONTROL.
2. HEAT PUMP. DUCTLESS SPLIT UNIT SHALL BE PROVIDED WITH A WALL MOUNTED REMOTE CONTROL.
3. OUT DOOR CONDENSING UNIT SHALL BE MOUNTED ON A BRACKET AS SHOWN ON DETAIL SHEET OR ON THE ROOF.
4. UNIT TEMPERATURE CONTROL THERMOSTAT SHALL INCLUDE WALL MOUNTED ADJUSTABLE THERMOSTAT.
5. BLOWER ON-OFF AUTO SWITCH AND HEATING-COOLING CHANGE OVER CONTROL, THERMOSTAT SHALL BE MOUNTED IN WALL 1.5m FROM FINISHED FLOOR.
6. ALL REFRIGERANT LIQUID,VAPOR,AND DRAIN PIPING WILL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
7. UNIT MANUFACTURER'S STANDARD GRILLE. MATCH COLOR WITH WALL.
8. EVAPORATOR UNIT SHALL CONSIST OF A DX EVAPORATOR COOLING COIL, BLOWER SUPPLEMENTAL ELECTRIC HEATER ELEMENTS AND WASHABLE FILTER ALL MOUNTED IN A HOUSING FINISHED FOR EXPOSED INSTALLATION.
9. THE CONDENSING UNIT WILL CONTAIN COMPRESSOR, CONDENSING COIL, AND ALL INTERNAL CONTROL/FITTINGS COMPLETE TO INCLUDE A WEATHERIZED HOUSING.

SYMBOLS:



- :- AC SPLIT INDOOR UNIT
- :- AC SPLIT CONDENSING OUTDOOR UNIT
- :- WINDOW MOUNTED EXHAUST/SUPPLY FAN
- :- REMOTE CONTROL



- RETURN AIR GRILLE



- VOLUME CONTROL DAMPER



- SUPPLY SECTION FAN



- DUCT ELBOW WITH TURNING VANES



- FLEXIBLE CONNECTIONS



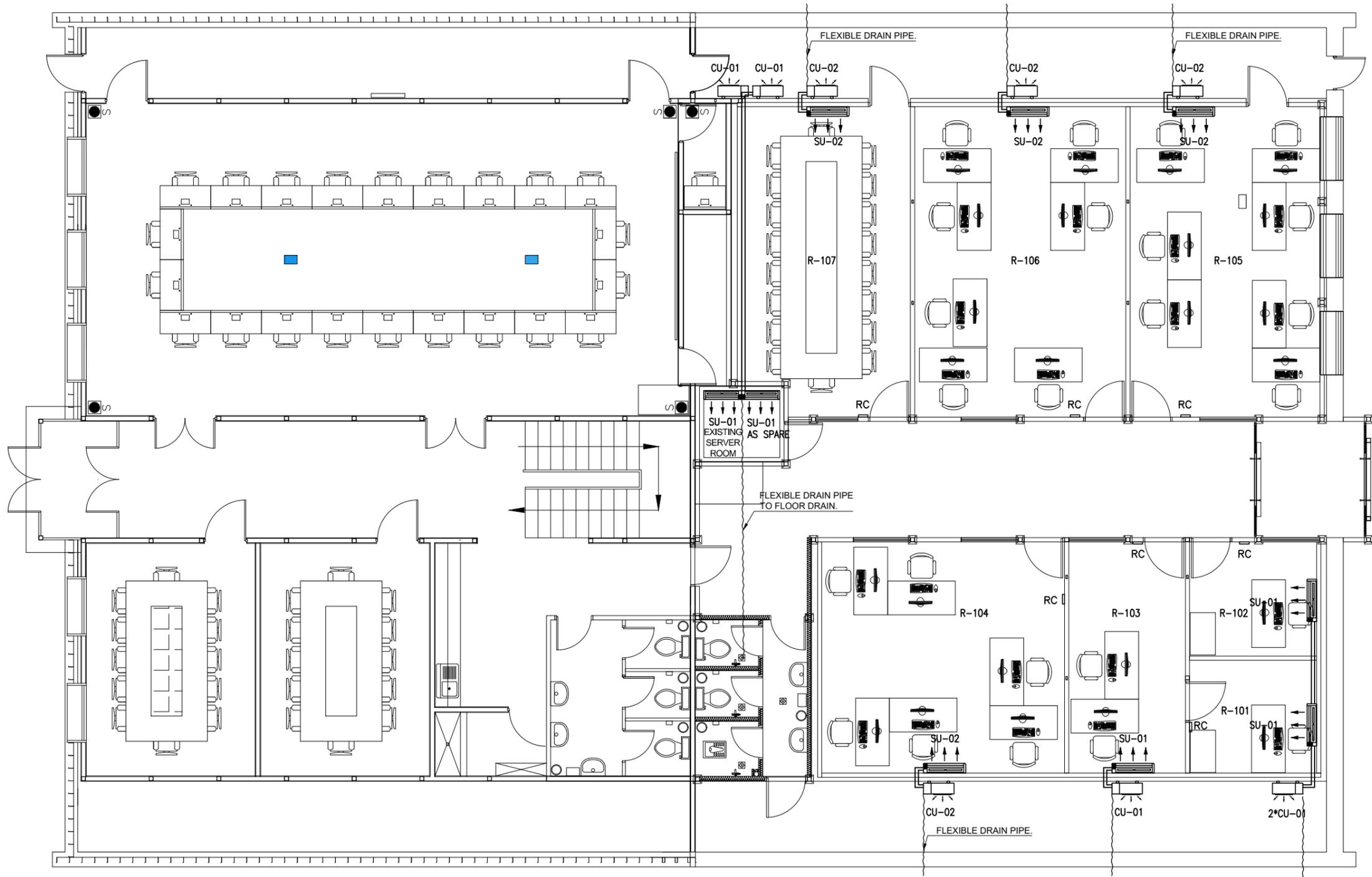
- REDUCER

ABBREVIATIONS

- AC :- AIR CONDITIONER
- CU :- CONDENSING UNIT
- EF :- EXHAUST FAN
- RC :- REMOTE CONTROL
- SU :- SPLIT UNIT
- RAG :- RETURN AIR GRILLE
- R.G :- REGISTRY GRILLE
- SF :- SUPPLY FAN
- V.C.D :- VOLUME CONTROL DAMPER

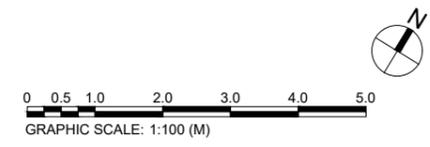
01 MECHANICAL GENERAL NOTES
M-100 REF. SCALE NTS

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DRAW BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
				1 90% DESIGN SUBMITTAL 2 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS	M
						APPROVED FOR	SHEET NO
						DATE: DEC 12, 2024	M-0

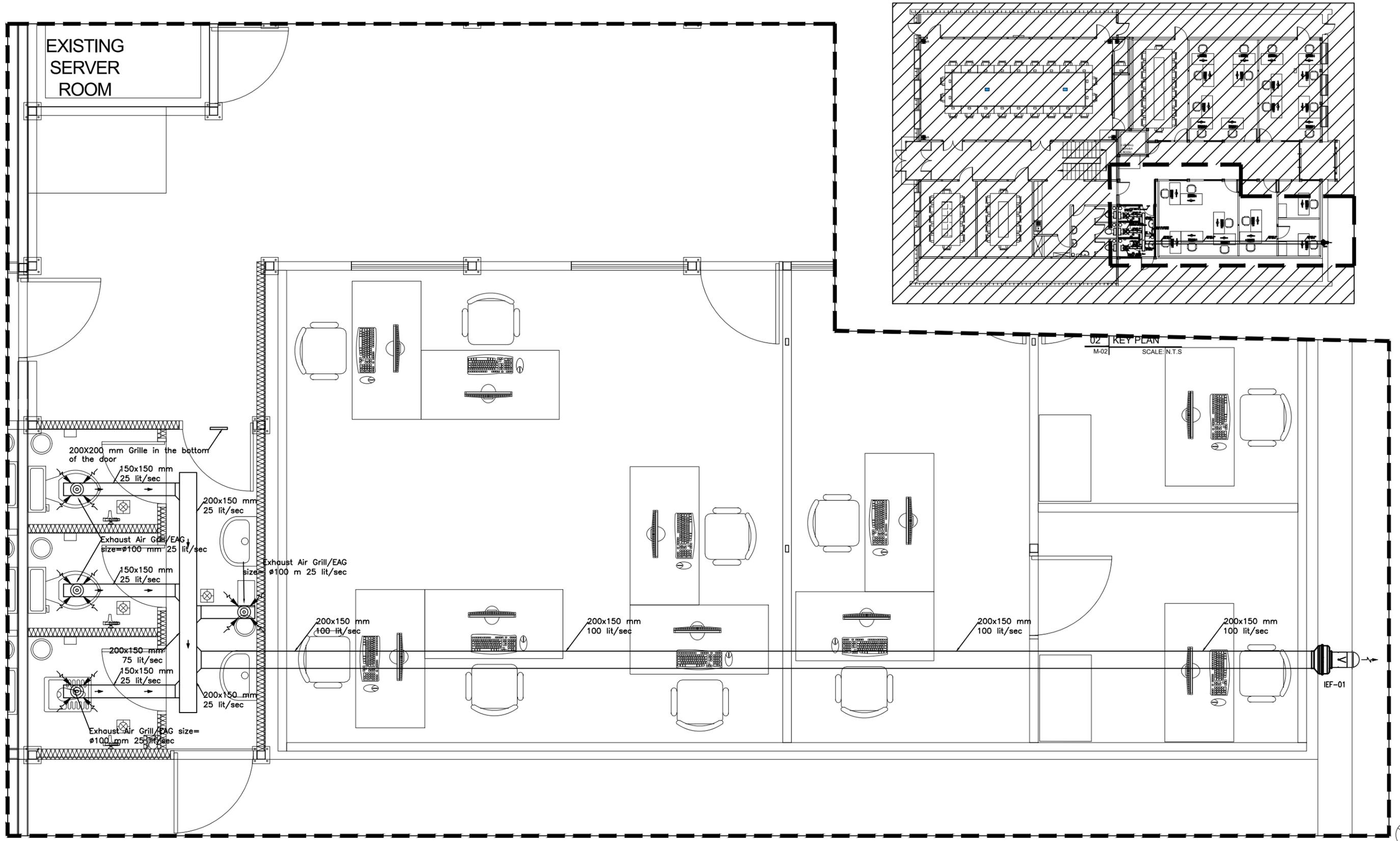


- SPLIT UNIT GENERAL NOTES:**
1. SPLIT UNIT SHALL BE PROVIDED WITH CONDENSING UNIT(CU) AND CONTROLLED BY REMOTE CONTROL.
 2. OUT DOOR CONDENSING UNIT SHALL BE MOUNTED ON A BRACKET
 3. UNIT TEMPERATURE REMOTE CONTROL SHALL INCLUDE WALL MOUNTED ADJUSTABLE REMOTE BLOWER ON-OFF AUTO SWITCH AND HEATING-COOLING CHANGE OVER CONTROL, REMOTE SHALL BE MOUNTED IN WALL 1.5m FROM FINISHED FLOOR.
 4. PROVIDE WITH MANUFACTURER FURNISHED 220V. 1-PHASE STARTER.
 5. EVAPORATOR UNIT SHALL CONSIST OF A DX EVAPORATOR COOLING COIL, BLOWER SUPPLEMENTAL ELECTRIC HEATER ELEMENTS AND WASHABLE FILTER ALL MOUNTED IN A HOUSING FINISHED FOR EXPOSED INSTALLATION.
 6. THE CONDENSING UNIT WILL CONTAIN COMPRESSOR, CONDENSING COIL, AND ALL INTERNAL CONTROL/FITTINGS COMPLETE TO INCLUDE A WEATHERIZED HOUSING.
 7. COPPER REFRIGERANT SUCTION AND LIQUID PIPING SHALL BE SIZED, AND INSTALLED IN ACCORDANCE TO UNIT MANUFACTURE RECOMMENDATION.
 8. REFER TO SHEET (M-501) FOR SPLIT UNITE INDOOR & OUTDOOR UNITE INSTALLATION DETAILS.

01 | AIR CONDITIONING (AC) SYSTEM PLAN
M-01 | SCALE: 1:100



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DRAW BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
			AIR CONDITIONING (AC) SYSTEM PLAN	1. 90% DESIGN SUBMITTAL 2. 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC 12, 2024	M SHEET NO M-01



01 | NEW FEMALE TOILETS VENTILATION SYSTEM PLAN
M-02 SCALE: 1:120

CLIENT:
UNITED NATIONS OFFICE FOR PROJECT SERVICES

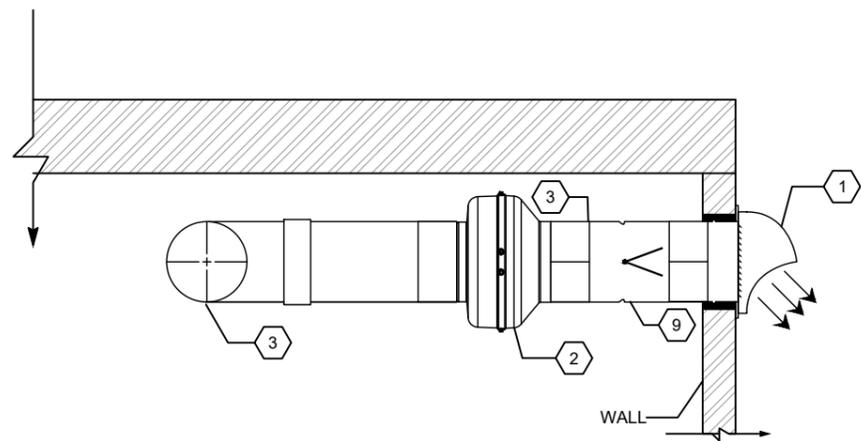
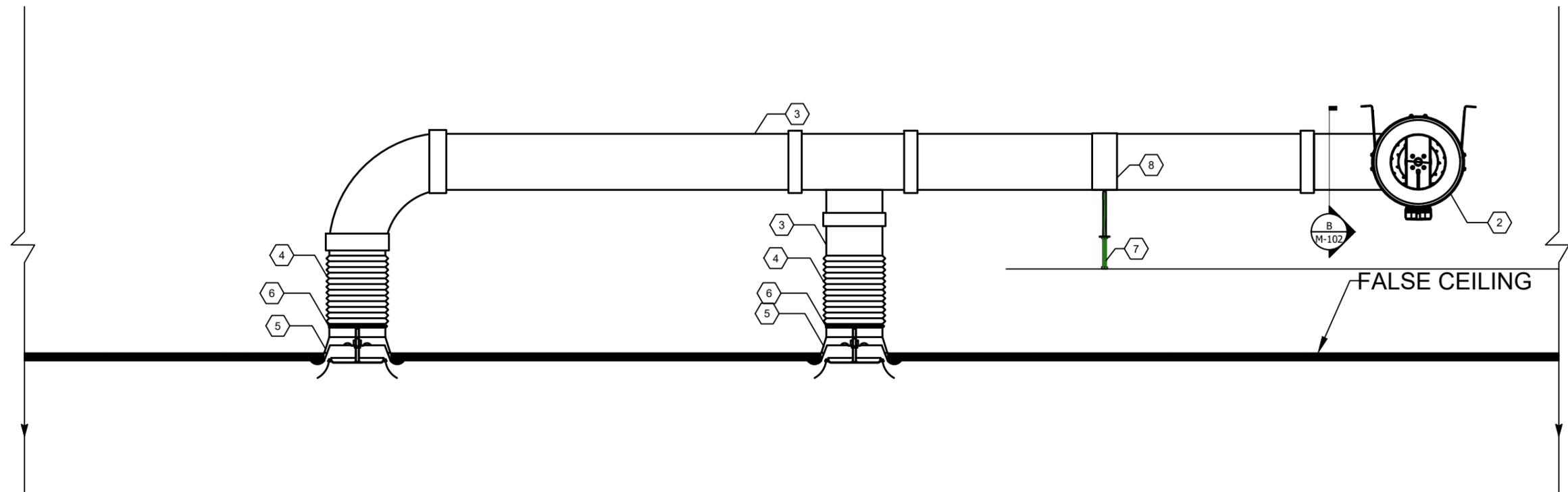
CONSULTANT:
 LAZULI PAMIR
Consulting Engineering

PROJECT TITLE:
DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT
NEW FEMALE TOILETS VENTILATION SYSTEM PLAN

REVISION	DATE
1 90% DESIGN SUBMITTAL	OCT 29, 2024
2 100% DESIGN SUBMITTAL	DEC 12, 2024
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OCT 29, 2024	CHECKED BY: ENG BILAL	M
DEC 12, 2024	APPROVED BY: UNOPS	SHEET NO
	APPROVED FOR	M-02
DATE: DEC 12, 2024		

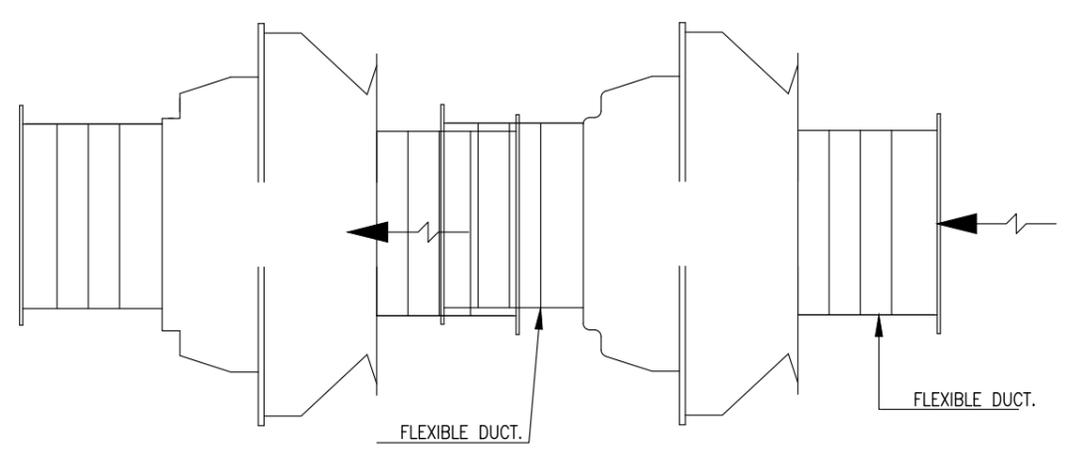
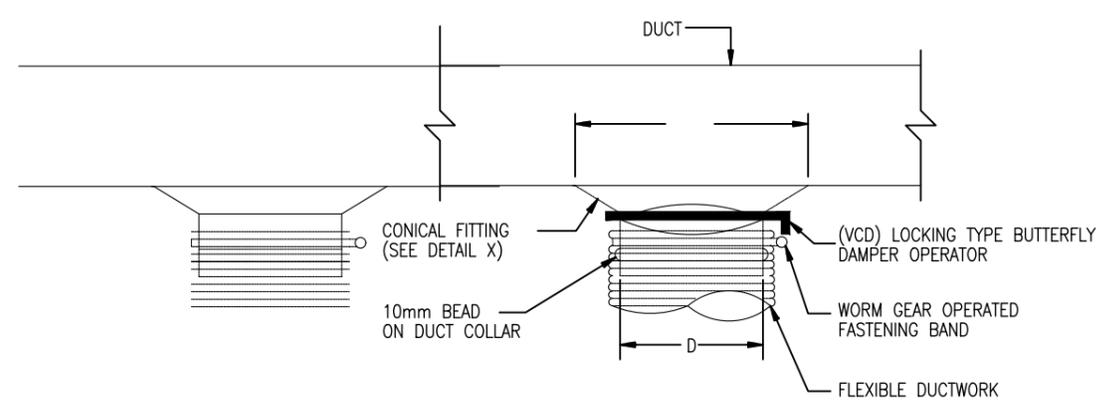
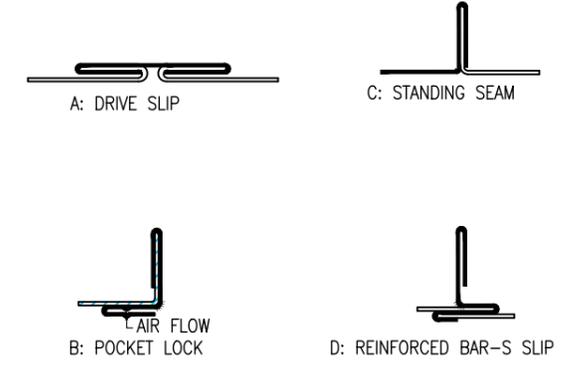
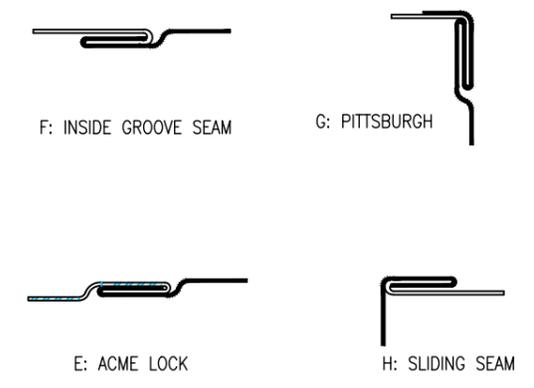
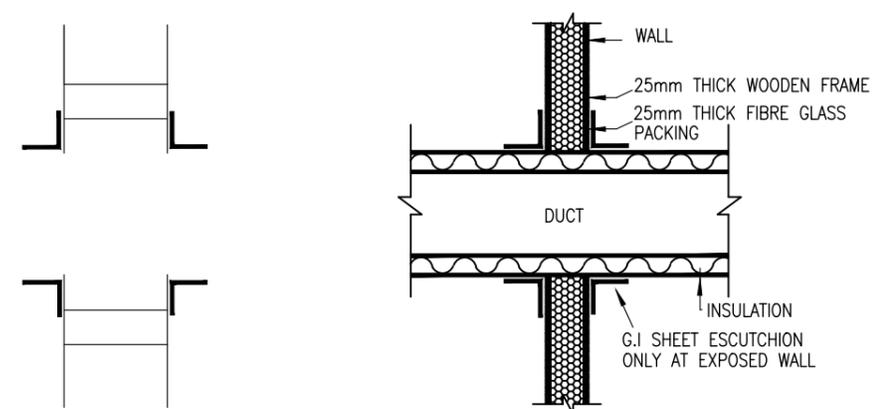
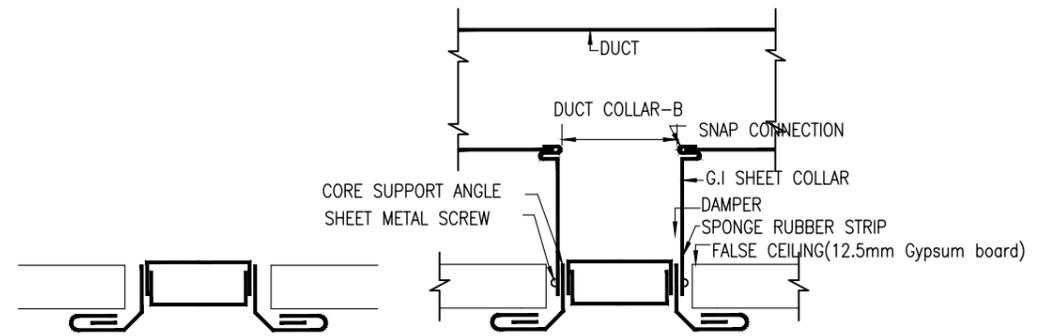
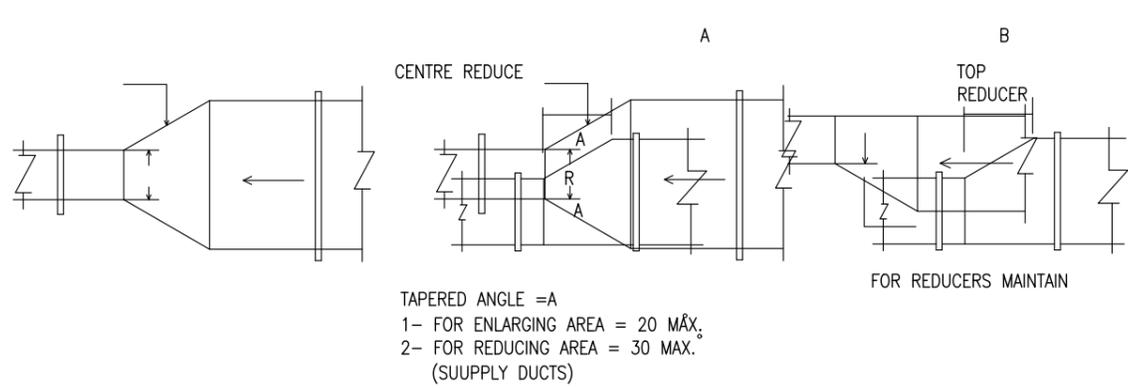


DESCRIPTION	
1	200mm Round Stainless Steel Exhaust Air Vent End Cap Louver
2	BDTX-150-B I Inline duct Centrifugal Fan, 420 CMH
3	GI Sheet Ducting
4	Aluminum Flexible Duct
5	100mm Aluminum Adjustable Round Exhaust Air Grill/EAG
6	100mm Light Clamp Ceiling Hanging Type with PVC Rubber
7	10mm Threaded Rod with Nut, Bolt, and All Accessories
8	Adjustable Tie Clamp for 100mm Threaded Rod
9	100mm Round Back Draft Damper/Shutter Lock Damper

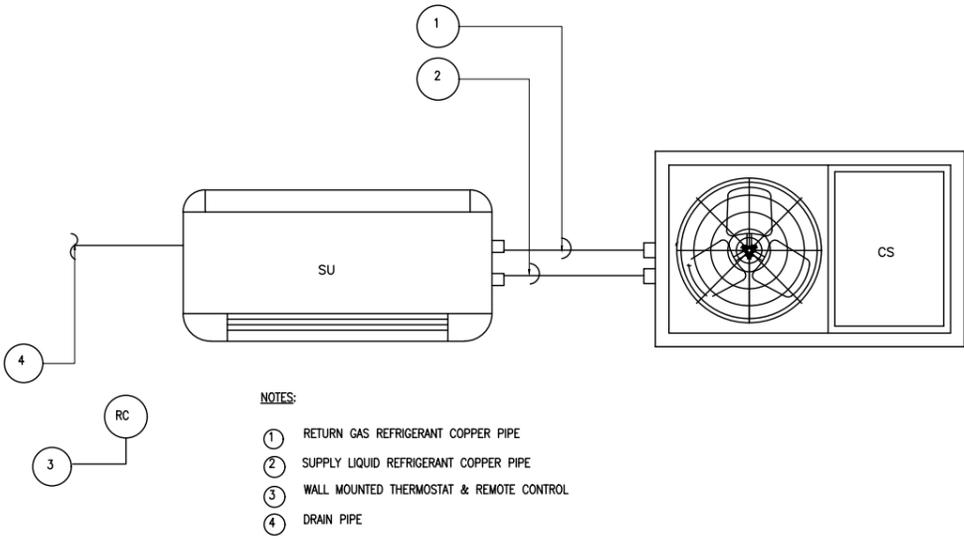
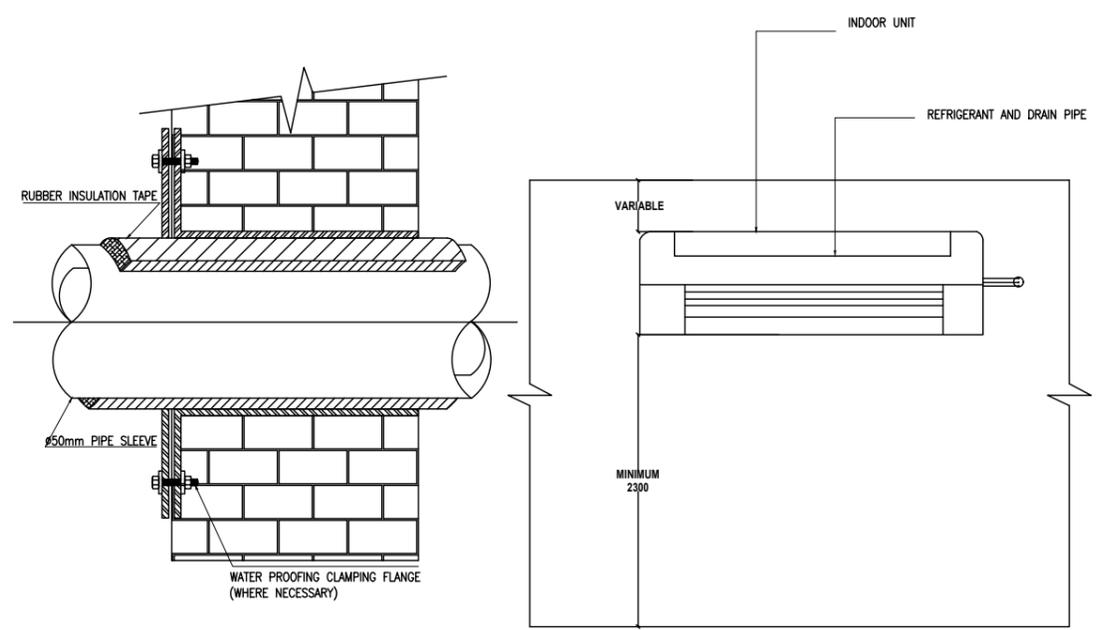
Type	voltage (volt/hz)	Power (watt)	Air flow (m ³ /h)	Sound (dba)	External Static Pressure
BDTX-200-B	220v/50hz	85	420	55	(ESP)= 240 Pascal

01 VENTILATION SYSTEM SECTION AND SCHEDULE PLAN
 M-03 REF. SCALE: 1:100

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DRAW BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
			VENTILATION SYSTEM GENERAL DETAILS AND SCHEDULE	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS	M
						APPROVED FOR	SHEET NO
					DATE: DEC 12, 2024		M-03



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
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				▲ 100% DESIGN SUBMITTAL	DEC 12, 2024	APPROVED BY: UNOPS	SHEET NO
						APPROVED FOR	M-04
		DATE: DEC 12, 2024					

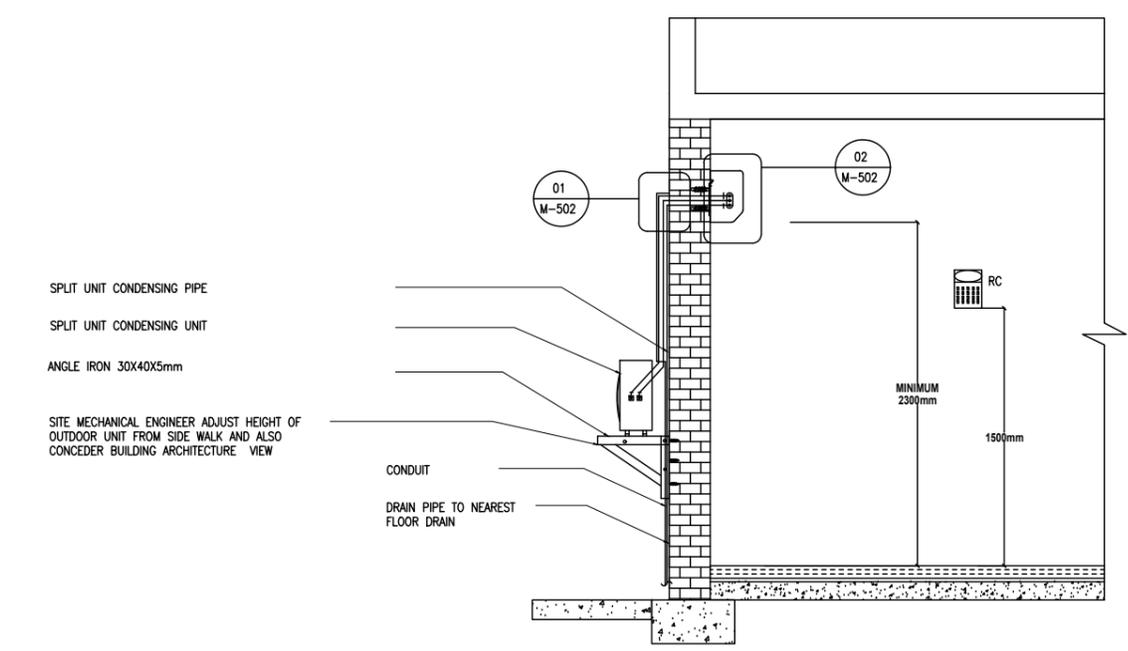


- NOTES:
- ① RETURN GAS REFRIGERANT COPPER PIPE
 - ② SUPPLY LIQUID REFRIGERANT COPPER PIPE
 - ③ WALL MOUNTED THERMOSTAT & REMOTE CONTROL
 - ④ DRAIN PIPE

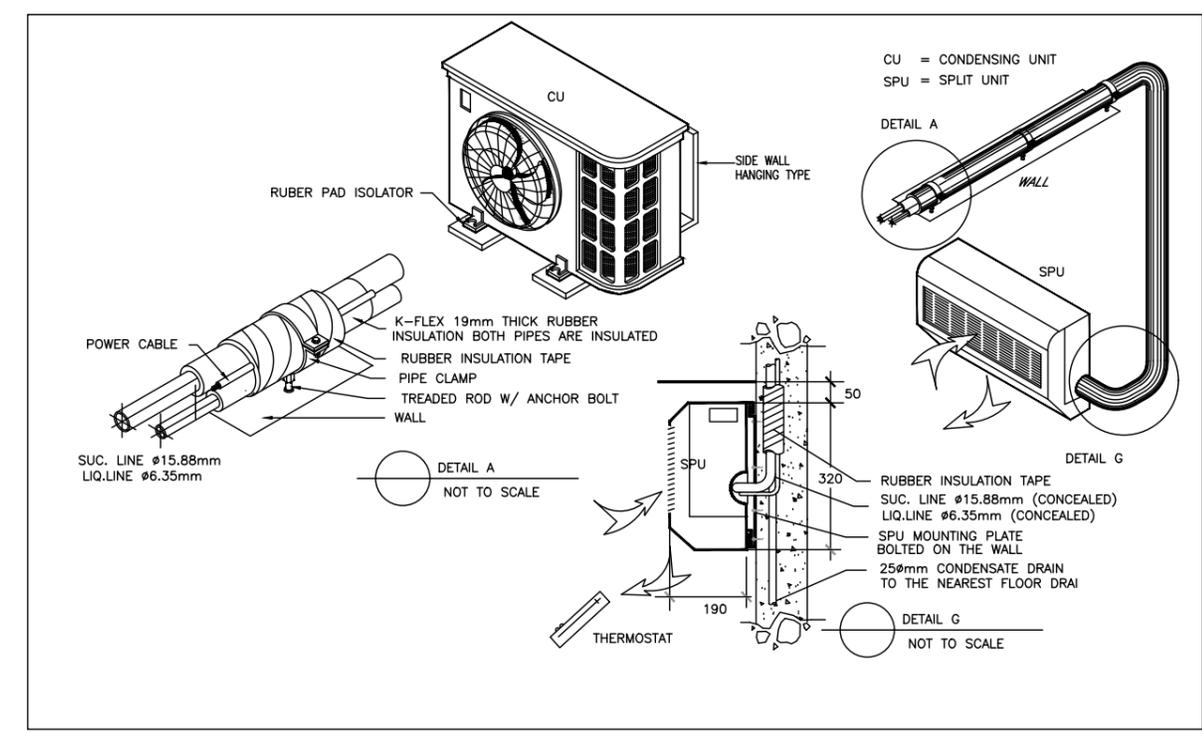
01 SPLIT UNIT PENETRATION DETAIL
M-502 REF. M-502 SCALE: NTS

02 SPLIT UNIT ELEVATION INSTALLATION
M-502 REF. M-502 SCALE: NTS

03 SPLIT UNIT INDOOR & OUTDOOR DETAIL
M-502 REF. M-502 SCALE: NTS



05 INDOOR & OUTDOOR CONNECTION DETAIL
M-502 REF. M-502 SCALE: NTS



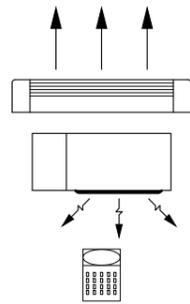
06 SPLIT UNIT (DX TYPE) CONNECTION DETAIL
M-502 REF. M-502 SCALE: NTS

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DRAW BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
			GENERAL DETAILS	90% DESIGN SUBMITTAL 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC 12, 2024	M SHEET NO M-05

SPLIT UNIT GENERAL NOTES:

- SPLIT UNIT SHALL BE PROVIDED WITH CONDENSING UNIT(CU) AND CONTROLLED BY REMOTE CONTROL.
- OUT DOOR CONDENSING UNIT SHALL BE MOUNTED ON A BRACKET AS SHOWN ON DETAIL SHEET (M-501) OR ON THE ROOF.
- UNIT TEMPERATURE REMOTE CONTROL SHALL BE INCLUDE WALL MOUNTED ADJUSTABLE REMOTE BLOWER ON-OFF AUTO SWITCH AND HEATING-COOLING CHANGE OVER CONTROL, REMOTE SHALL BE MOUNTED IN WALL 1.5m FROM FINISHED FLOOR.
- PROVIDE WITH MANUFACTURER FURNISHED 220V. 1-PHASE STARTER.
- EVAPORATOR UNIT SHALL CONSIST OF A DX EVAPORATOR COOLING COIL, BLOWER SUPPLEMENTAL ELECTRIC HEATER ELEMENTS AND WASHABLE FILTER ALL MOUNTED IN A HOUSING FINISHED FOR EXPOSED INSTALLATION.
- THE CONDENSING UNIT WILL CONTAIN COMPRESSOR, CONDENSING COIL, AND ALL INTERNAL CONTROL/FITTINGS COMPLETE TO INCLUDE A WEATHERIZED HOUSING.
- COPPER REFRIGERANT SUCTION AND LIQUID PIPING SHALL BE SIZED, AND INSTALLED IN ACCORDANCE TO UNIT MANUFACTURE RECOMMENDATION.
- REFER TO SHEET (M-501) FOR SPLIT UNITE INDOOR & OUTDOOR UNITE INSTALLATION DETAILS.
- DUCT METAL SHEET SHALL BE MIN 24 GAUGE & SHALL HAVE VCD IN ALL AIR INLETS.
- EACH GRILL SIZE: 160X140MM WITH BACK DRAFT DAMPERS

LEGENDS AND ABBREVIATIONS



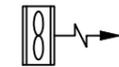
- :— SPLIT INDOOR UNIT (SU)
- :— SPLIT CONDENSING OUTDOOR UNIT (CU)
- :— REMOTE CONTROL (RC)
- :— VOLUME CONTROL DUMPER



:— EXHAUST DUCT



:— ROOF TYPE EXHAUST FAN



:— WALL/WINDOW TYPE EXHAUST FAN



:— INLINE EXHAUST FAN

01 | SPLIT UNIT GENERAL NOTES
M-600 | REF. | SCALE : NTS

Technical specifications of Split units (Bosch Climate Line 5300)				
			SU-01	SU-02
			9000 BTU	18000 BTU
Indoor			CLL5000i W 26	CLL5000i W 53
Outdoor			CLL5000i 26	CLL5000i 53
Power supply		V,Hz,Ph	220-240V,50Hz,1Ph	220-240V,50Hz,1Ph
Cooling	Capacity	Btu/hr	9000	18000
		kW	2.64	5.28
	Input	W	822	1547
	EER	W/W	3.21	3.41
Heating	Capacity	Btu/hr	9000	18000
		kW	2.64	5.28
	Input	W	730	1547
	COP	W/W	3.61	3.41
Max. input consumption		W	2200	3059
Indoor air flow (Hi,Mi,Lo)		m³/h	515/371/304	798/611/524
Indoor noise level (Hi,Mi,Lo)		dB(A)	39.9/33/26.5	43.5/36.5/29.5
Indoor unit	Dimension(W*D*H)	mm	729x200x292	969x241x320
	Net	Kg	8.2/10.5	11.5/14.8
Outdoor noise level		dB(A)	54.20	56.50
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	805x330x554
	Net	Kg	23.0/27.7	31.8/34.4
Refrigerant type		Kg	R410A/0.67	R410A/1.40
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Ø6.35/Ø9.52(1/4"/3/8")	Ø6.35/Ø12.7(1/4"/1/2")
	Max. refrigerant pipe length	m	25	30
	Max. difference in level	m	10	20
Thermostat type			Remote Control	Remote Control
Room temperature	Indoor(cooling/heating)	°C	16-32/0-30	16-32/0-30
	Outdoor(cooling/heating)	°C	0-50/(-15)-24	(-15)-50/(-15)-24

02 | TECHNICAL SPECIFICATIONS OF SPLIT UNITS
M-600 | REF. | SCALE : NTS

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DRAW BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
				GENERAL DETAILS	90% DESIGN SUBMITTAL	OCT 29, 2024	CHECKED BY: ENG BILAL	M
					100% DESIGN SUBMITTAL	DEC 12, 2024	APPROVED BY: UNOPS	
							APPROVED FOR	SHEET NO
		DATE: DEC 12, 2024	M-06					

DESIGN OF WERP OFFICES INSIDE THE K-SPAN

PLUMBING DRAWINGS

CLIENT:

UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTING:

LAZULI PAMIR

Consulting Engineering
Services Co.

PLUMBING ABBREVIATIONS

CO	CLEANOUT	MER	MECHANICAL EQUIPMENT ROOM
CW	COLD WATER	MH	MANHOLE
EWH	ELECTRIC WATER HEATER	MOU	MEMORANDUM OF UNDERSTANDING
FCO	FLOOR CLEANOUT	MSB	MOP SERVICE BASIN
FD	FLOOR DRAIN	NPW	NON POTABLE WATER
FL	FLOOR SINK	NTS	NOT TO SCALE
GAL	GALLON	F.M	FLOW METER
GCO	GRADE CLEANOUTS	OC	ON CENTER
GPD	GALLONS PER DAY	OD	OUTSIDE DIAMETER
GPH	GALLONS PER HOUR	OFD	OVERFLOW DRAIN
GPM	GALLONS PER MINUTE	OR	OPERATING ROOM
GPR	GAS PRESSURE REGULATOR	OVFL	OVERFLOW
GRS	GAS REGULATOR STATION	OVS	OIL WATER SEPARATOR
GT	GREASE TRAP	V	VENT
GVTR	GAS VENT THROUGH ROOF	VTR	VENT THROUGH ROOF
GWH	GAS FIRED WATER HEATER	WS	WASTE STACK
H&CW	HOT AND COLD WATER	VS	VENT STACK
HB	HOSE BIBB	WP	WASTE PIPE
HD	HUB DRAIN	VP	VENT PIPE
HEX	HEAT EXCHANGER	FT	FLASH TANK
HP	HORSEPOWER	TEMP	TEMPERATURE
HS	HAND SINK	F/A	FROM ABOVE
HST	HOT WATER STORAGE TANK	F/B	FROM BELOW
HB	HOSS BIBB	T/A	TO ABOVE
HWB	HOT WATER BOILER	T/B	TO BELOW
HWCP	HOT WATER CIRCULATING PUMP	S.T	SHOWER TREY
HWP	HOT WATER PUMP	K.S	KITCHEN SINK
HYD	HYDRANT	G.V	GATE VALVE
ICW	INDUSTRIAL COLD WATER	W.M	WASHING MACHINE
INV	INVERT		
IPC	INTERNATIONAL PLUMBING CODE		
IRW	IRRIGATION WATER		
IW	INDIRECT WASTE		
IWH	INSTANTANEOUS WATER HEATER		
IWR	INDUSTRIAL WATER RETURN		
IWS	INDUSTRIAL WATER SUPPLY		
KW	KILOWATT		
KWHR	KILOWATT-HOUR		
L/S	LITER PER SECOND		
LA	LABORATORY AIR		
LAV	LAVATORY		
LBS/HR	POUNDS PER HOUR		
LCW	LABORATORY COLD WATER		
LHW	LABORATORY HOT WATER		
LNG	LIQUID NATURAL GAS		
LOX	LIQUID OXYGEN		
LV	LABORATORY VACUUM		
LW	LOW WATER		
M	METER		
MA	MEDICAL AIR		
MAV	MANUAL AIR VENT		
MBH	1000 BTUH		
MED	MEDICAL		

PIPING SYMBOLS

COLD WATER (CW)	-----
HOT WATER (HW)
VENT PIPE (VP)	-----
SEWER PIPE	-----

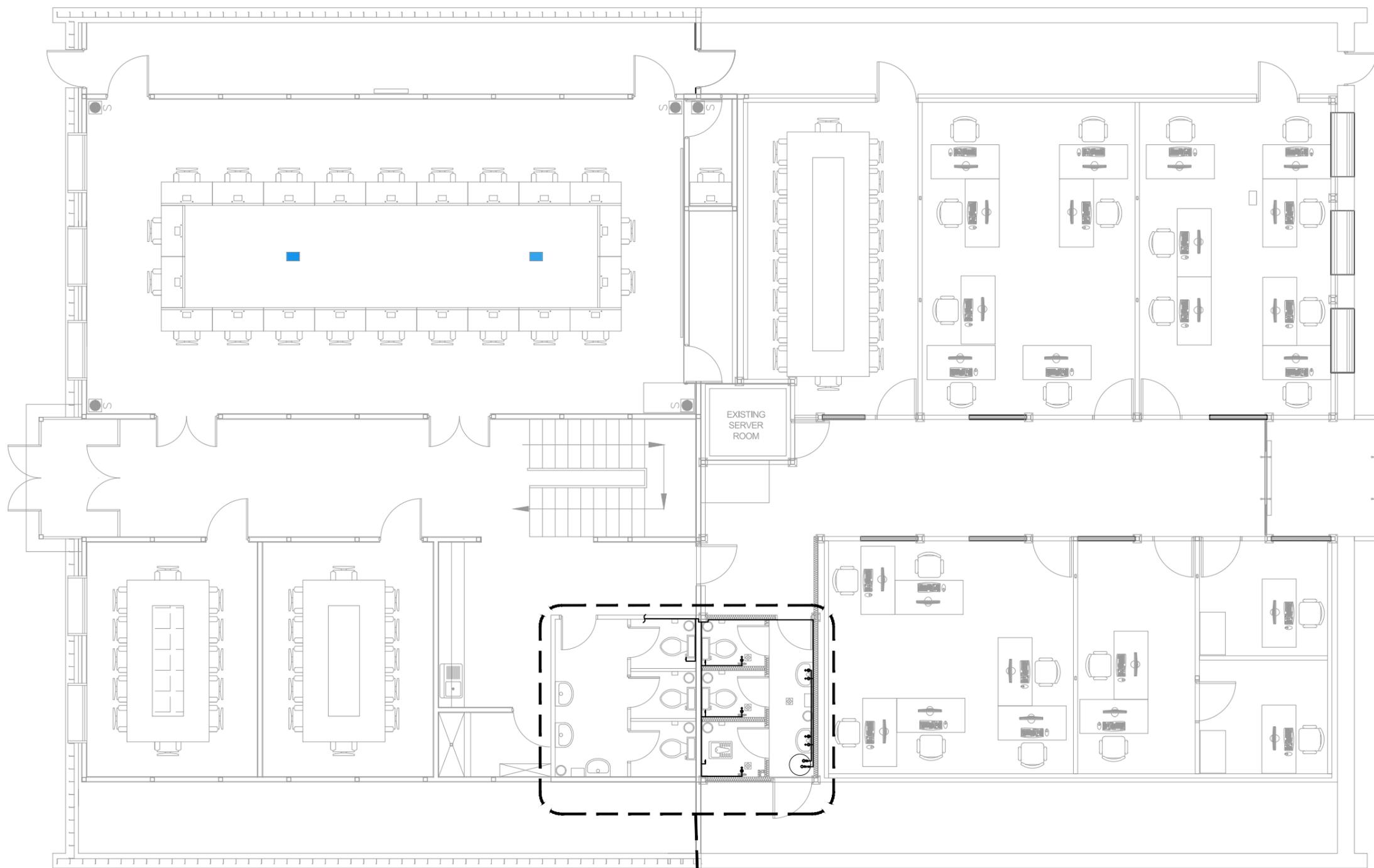
LEGEND

	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	STOP CHECK VALVE
	PLUG VALVE
	3-WAY VALVE
	RELIEF OR SAFETY VALVE
	ANGLE VALVE
	ANGLE GLOBE VALVE
	BALANCING COCK
	AIR VALVE
	HOSE GATE DRAIN VALVE
	EXPANSION VALVE
	AIR VENT AUTOMATIC
	AIR VENT MANUAL
	MOTORIZED VALVE (MODULATING OR TWO POSITION)
	SOLENOID VALVE
	3-WAY MOTORIZED VALVE (MOD. OR 3-POSITION)
	3-WAY SOLENOID VALVE
	TEMPERATURE REGULATION VALVE
	AIR ELIMINATOR
	BACK PRESSURE VALVE
	PRESSURE REDUCING VALVE
	DRAIN VALVE
	SLEEVE COUPLING (SC)
	BACKFLOW PREVENTER
	WATER HAMMER ARRESTOR
	ELECTRICAL WATER HEATER
	INSTANTANEOUS ELECTRICAL WATER HEATER
	YARD CLEAN OUT
	PIPE TURNING DOWN
	PIPE TURNING UP
	FLOOR DRAIN
	HOSE BIBB, PLAN

LEGEND

	PRESSURE GAUGE
	THERMOMETER DIAL TYPE
	THERMOMETER VERTICAL TYPE
	HOSE BIBB, ELEVATION
	WALL HYDRANT
	EXPOSED CLEANOUT
	FLOOR CLEANOUT
	WALL CLEANOUT
	BALL VALVE
	UNION
	FLANGE SET
	FLEXIBLE HOSE/CONNECTION
	Y-TYPE STRAINER
	SIGHT GLASS
	GAUGE GLASS W/COCKS
	FILTER/DRYER
	TANK AIR CONTROL FITTING
	CAPPED/PLUGGED CONNECTION
	REDUCER-INCREASER
	EXPANSION LOOP
	EXPANSION JOINT
	ROOF DRAIN
	POINT OF CONNECTION TO EXISTING SYSTEM
	COMPRESSED AIR DROP
	HUMIDIFIER
	INSULATING FLANGE
	THERMAL RELIEF VALVE W/SIGHT FLOW INDICATOR
	BASKET STRAINER
	WATER METER
	SAMPLE CONNECTION
	FIRE SAFETY VALVE
	NON-SURGE CHECK VALVE
	FLOW CONTROL VALVE
	PRESSURE REGULATING VALVE
	WATER SLUG VALVE (WSV)

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: 	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DESIGN BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.	
			PIPE AND PLUMBING ABBREVIATIONS	1	90% DESIGN SUBMITTAL	OCT 29, 2024	CHECKED BY: ENG BILAL	P
				2	100% DESIGN SUBMITTAL	DEC 12, 2024	APPROVED BY: UNOPS	
				3			APPROVED FOR	SHEET NO.
				DATE: DEC 12, 2024	P-0			



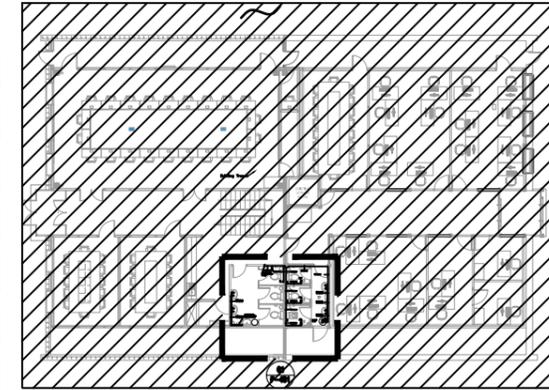
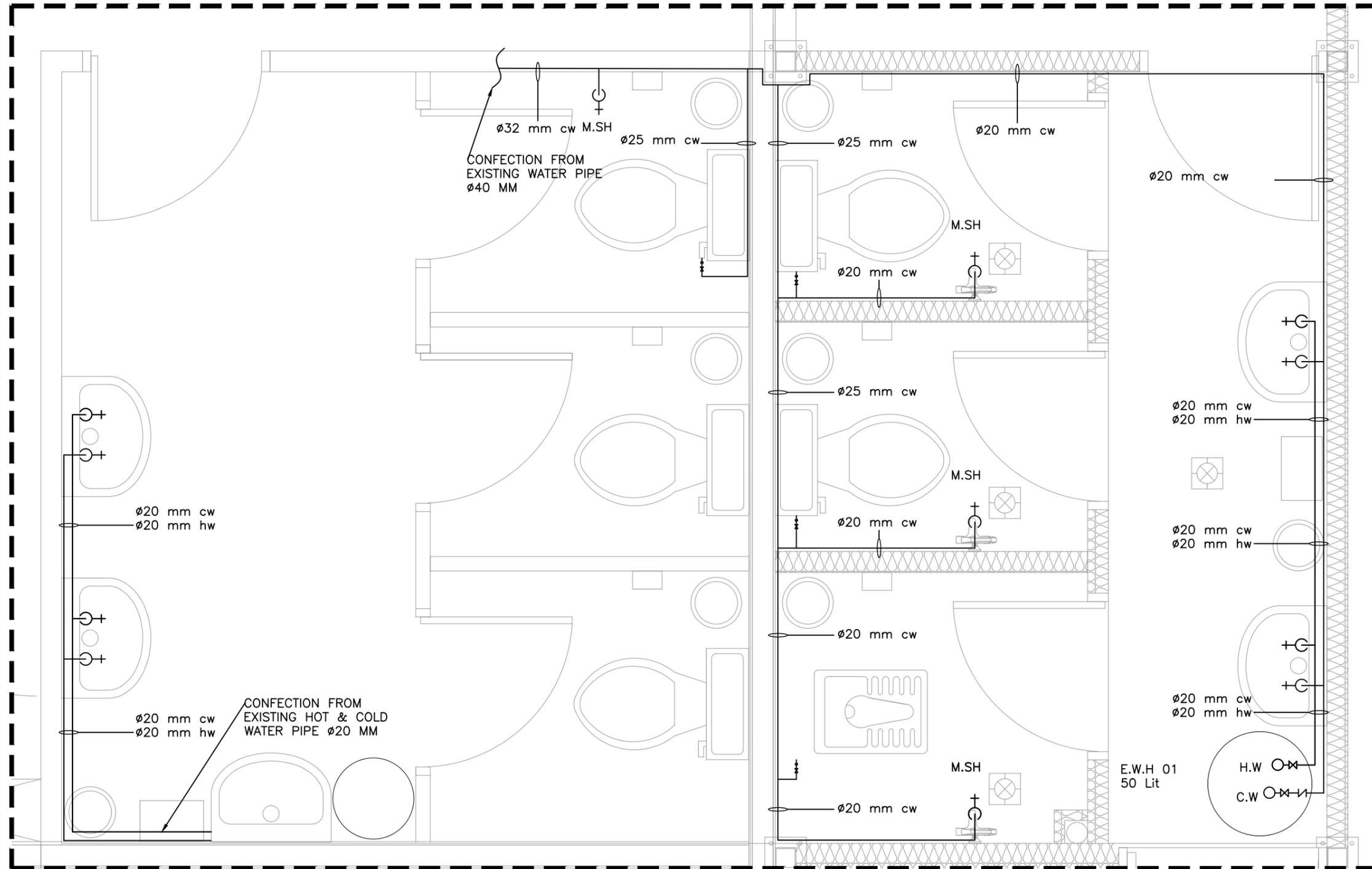
01
P-02

01 | WATER SUPPLY SYSTEM PLAN
P-01 | SCALE: 1:100

0 0.5 1.0 2.0 3.0 4.0 5.0
GRAPHIC SCALE: 1:100 (M)



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: 	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DESIGN BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
				WATER SUPPLY SYSTEM PLAN	▲ 90% DESIGN SUBMITTAL ▲ 100% DESIGN SUBMITTAL ▲ ▲	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC 12, 2024	P SHEET NO P-01

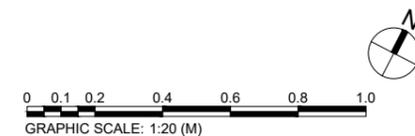


02 | KEY PLAN
P-02 | SCALE: N.T.S

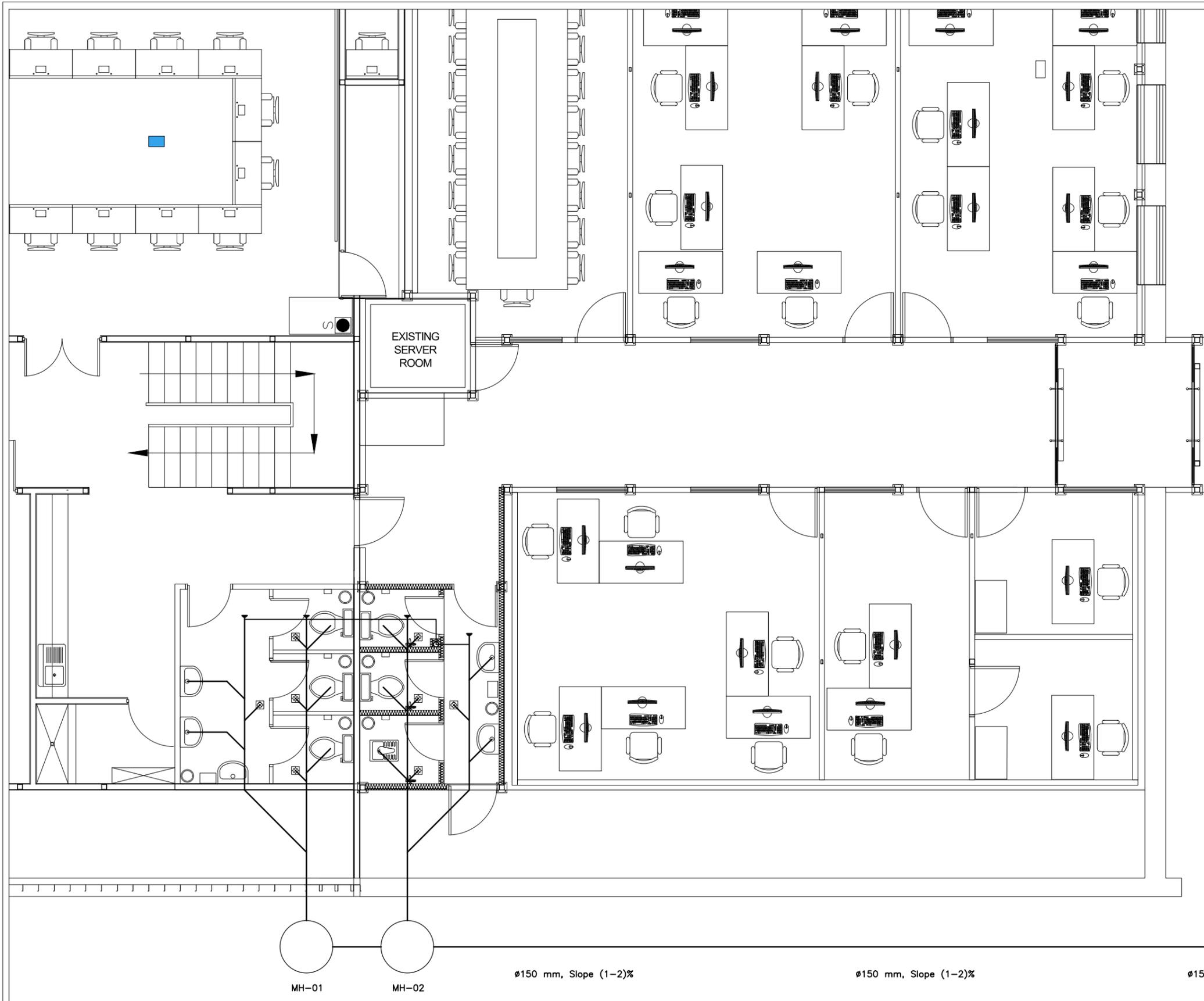
LEGEND AND ABBREVIATION	
	SANITARY WATER LINE
CW	COLD WATER
HW	HOT WATER
WP	WATER PIPE
EWH	ELECTRICAL WATER HEATER
HB	HOSE BIBB

- NOTES:
1. ALL EXTERNAL WATER PIPES ARE PPR PN20.
 2. ALL GRAVITY SEWER PIPES ARE PVC(SCH.40).
 3. THE CONSTRUCTION DETAILS COVERED BY THIS DRAWING SHALL TERMINATE AT A POINT MINIMUM 1.5M FROM THE BUILDING.
 4. ALL WATER LINE SHALL TO BE 800MM BELOW OF THE FINISHED GRADE.

01 | WATER SUPPLY SYSTEM ENLARGE PLAN
P-02 | SCALE: 1:120

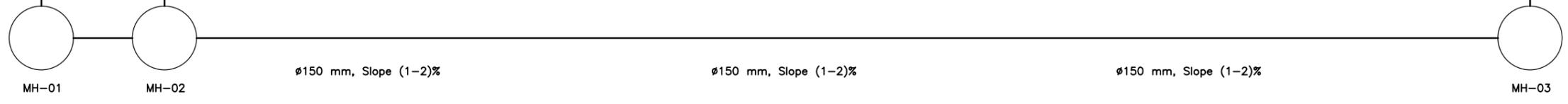
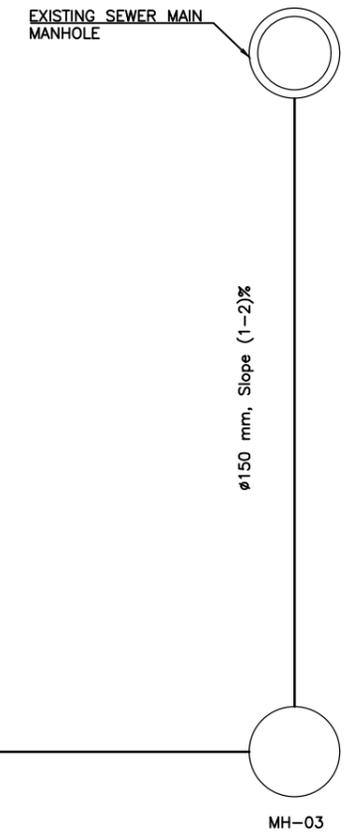


CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
			WATER SUPPLY SYSTEM ENLARGE PLAN	90% DESIGN SUBMITTAL 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC 12, 2024	P SHEET NO P-02



LEGEND AND ABBREVIATION	
	SANITARY SEWER LINE
FD	FLOOR DRAIN
FCO	FORCE CLEAN OUT
SP	SEWER PIPE
VTR	VENT TROWH ROOF
WC	WATER CLOSET

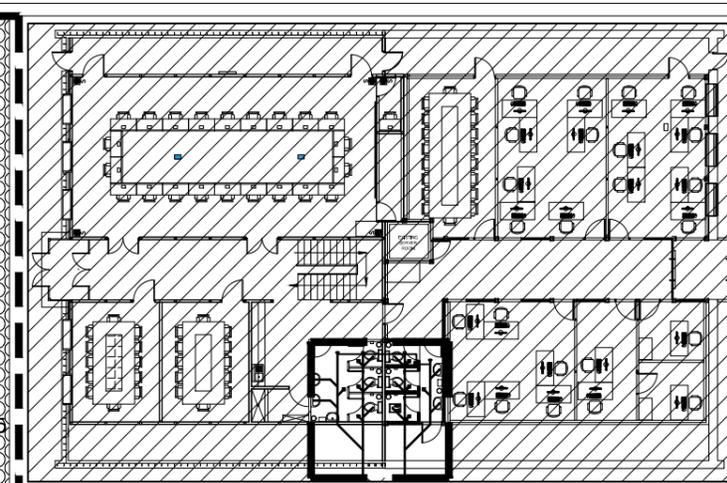
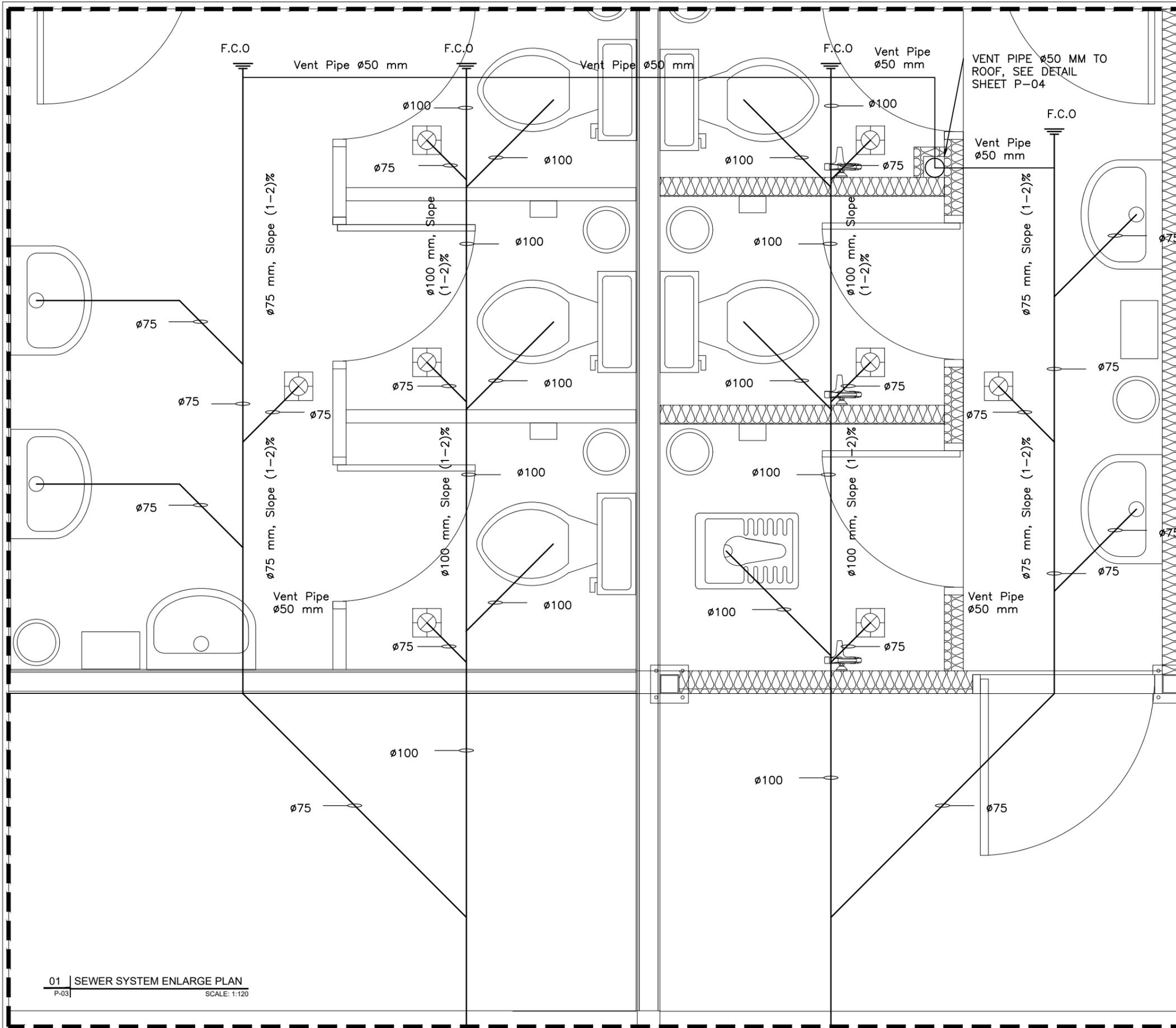
- NOTES:
1. ALL EXTERNAL WATER PIPES ARE PPR PN20.
 2. ALL GRAVITY SEWER PIPES ARE PVC(SCH.40).
 3. THE CONSTRUCTION DETAILS COVERED BY THIS DRAWING SHALL TERMINATE AT A POINT MINIMUM 1.5M FROM THE BUILDING.
 4. ALL WATER LINE SHALL TO BE 800MM BELOW OF THE FINISHED GRADE.



01 | SEWER SYSTEM ENLARGE PLAN
P-03 | SCALE: 1:120



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES		CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
				SEWER SYSTEM ENLARGE PLAN	1. 90% DESIGN SUBMITTAL 2. 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC 12, 2024	P SHEET NO P-03

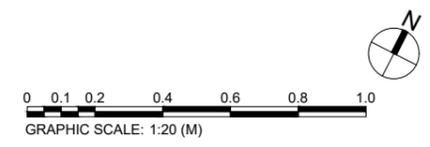


02 | KEY PLAN
P-03 | SCALE: N.T.S

LEGEND AND ABBREVIATION	
	SANITARY SEWER LINE
	FLOOR DRAIN
	FORCE CLEAN OUT
	SEWER PIPE
	VENT TROUGH ROOF
	WATER CLOSET

- NOTES:
1. ALL EXTERNAL WATER PIPES ARE PPR PN20.
 2. ALL GRAVITY SEWER PIPES ARE PVC(SCH.40).
 3. THE CONSTRUCTION DETAILS COVERED BY THIS DRAWING SHALL TERMINATE AT A POINT MINIMUM 1.5M FROM THE BUILDING.
 4. ALL WATER LINE SHALL TO BE 800MM BELOW OF THE FINISHED GRADE.

01 | SEWER SYSTEM ENLARGE PLAN
P-03 | SCALE: 1:120



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT: LAZULI PAMIR Consulting Engineering	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA COMPOUND KABUL, AFGHANISTAN	SHEET CONTENT	REVISION	DATE	DESIGN BY: ENG MOHAMMAD NASIM FAQIRI	DWG NO.
			SEWER SYSTEM ENLARGE PLAN	1. 90% DESIGN SUBMITTAL 2. 100% DESIGN SUBMITTAL	OCT 29, 2024 DEC 12, 2024	CHECKED BY: ENG BILAL APPROVED BY: UNOPS APPROVED FOR DATE: DEC 12, 2024	P SHEET NO P-03

PLUMBING FIXTURE CONNECTION SCHEDULE							
MARK	SYMBOLS	FIXTURES	CW mm	HW mm	VENT mm	WASTE mm	REMARKS
P1	 WC	WATER CLOSET	16mm	—	50mm	100mm	ESATERN TYPE
P4	 HB	HOSE BIBB	16mm	—	—	—	—
P5	 EWH	ELECTRIC WATER HEATER	16mm	16mm	—	—	—
P6	 FD	FLOOR DRAIN	—	—	50mm	75mm	—
P7	 FCO	FLOOR CLEANOUT	—	—	—	75mm-100mm	—
P10	 LAV	LAVATORY	16mm	16mm	50mm	—	—

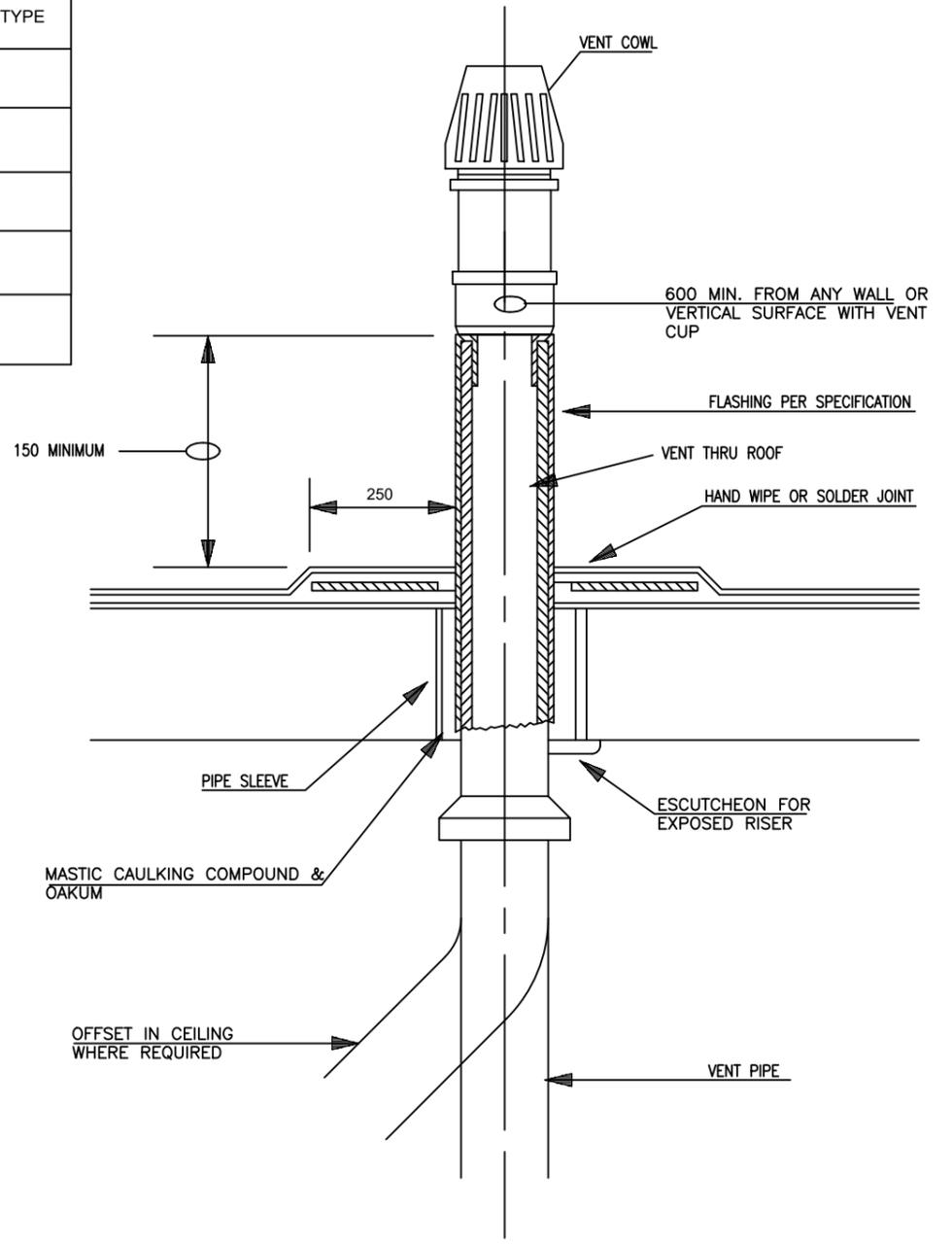
NUMBERS	TABLE OF SPECIFICATION FOR HDPE PIPE PE-100, PN16		TABLE OF SPECIFICATION FOR PPR PIPE PN20.		REMARKS
	Internal dia(mm)	External dia(mm)	Internal dia(mm)	External dia(mm)	
1	54.4	75	13.2	20	—
2	65.4	90	16.6	25	—
3	79.8	110	21.2	32	—
4	90.8	125	26.6	40	—
5	101.6	140	33.4	50	—
6	116.2	160	42	63	—
7	130.8	180	50	75	—
8	145.2	200	60	90	—
9	163.4	225	73.4	110	—
10	181.6	250			—

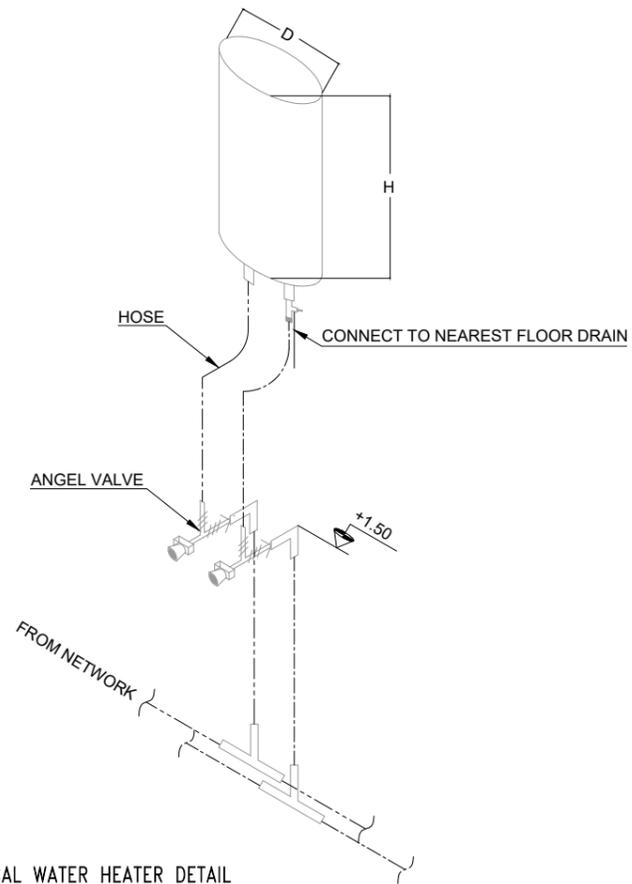
SYMBOL	CAPACITY LITER	ELECTRICAL DATA				REMARK
		VOLT	PHASE	HZ	KW	
EWH 01	50	220	1	50	1,5	
EWH 02	80	220	1	50	1,5	
EWH 03	100	220	1	50	2	

NOTE: ELECTRICAL WATER HEATER SHALL BEPRO - ARISTON OR EQUIVALENT PRODUCT

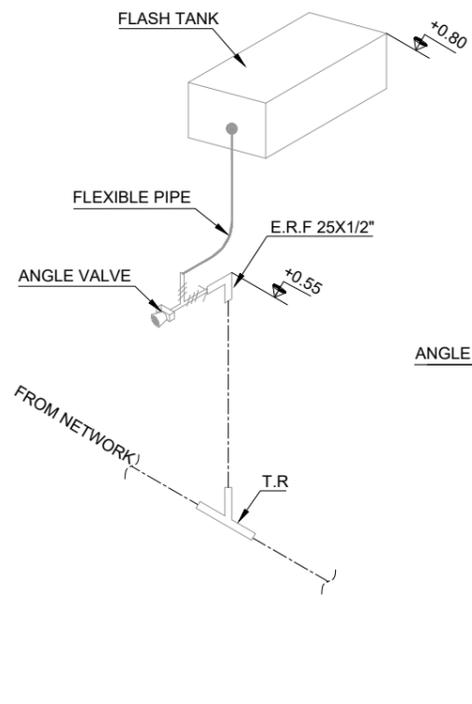
NOTE:
 THE ABOVE HOT AND COLD WATER SHWN PIPE SIZE ARE THE MINMUM AND OUTSIDE DIAMETER
 AND ELECTRICAL WATER HEATER(EWH) SCHEDULE
 ALL DIAMETER IN THE DRAWINGS ARE EXTERNAL

01 | PIPE AND PLUMBING SYMBOLS
 P-05 | REF. | SCALE: NTS

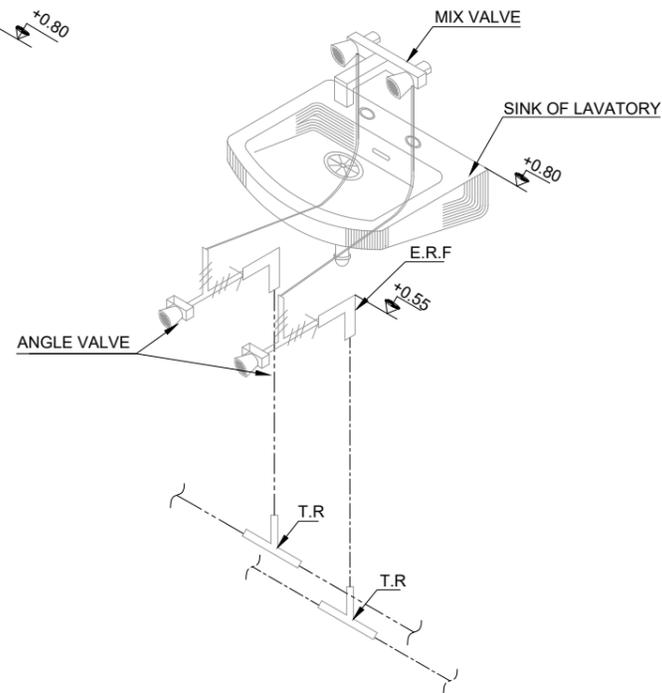




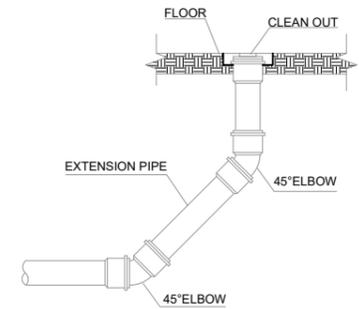
01 ELECTRICAL WATER HEATER DETAIL
P-502 REF. P-101 SCALE: NTS



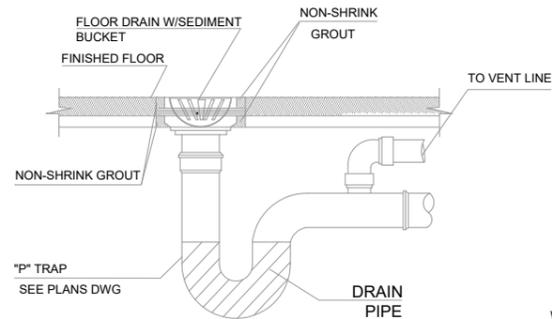
02 FLASH TANK DETAIL
P-502 REF. P-101 SCALE: NTS



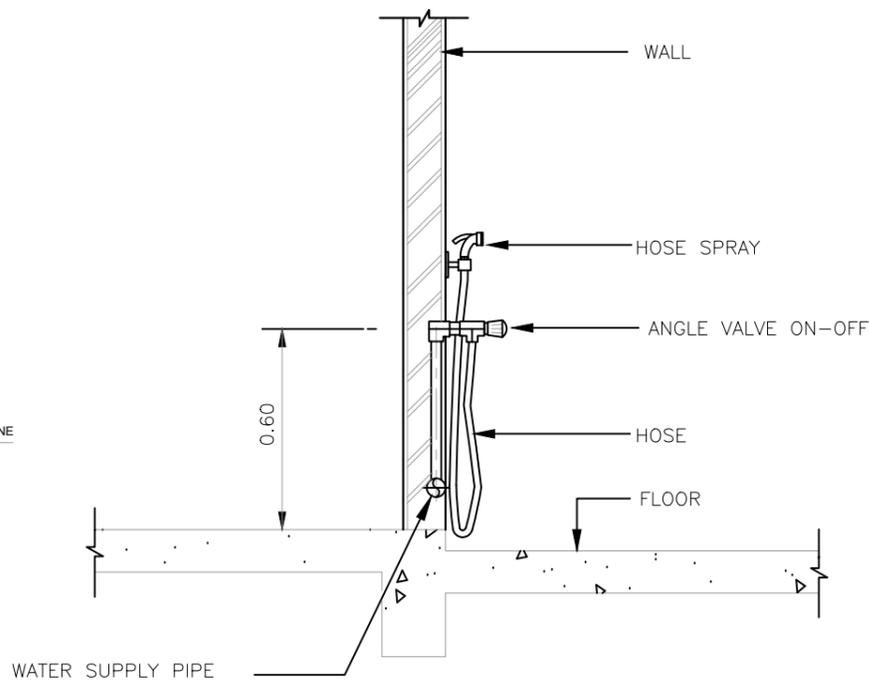
03 LAVATORY DETAIL
P-502 REF. P-101 SCALE: NTS



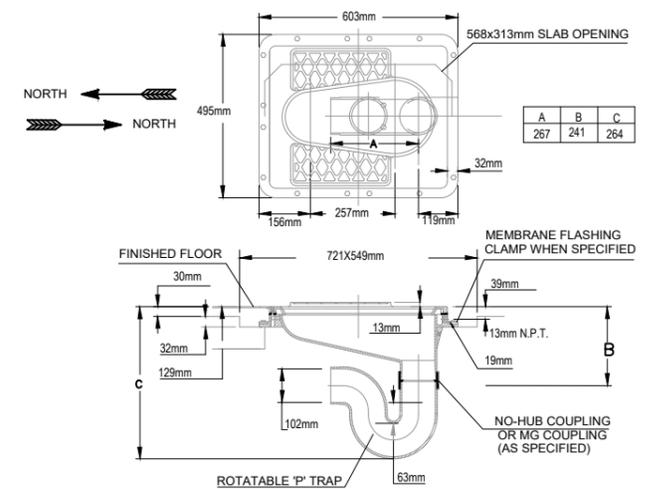
09 CLEAN OUT DETAIL
P-502 REF. P-103 SCALE: NTS



06 FLOOR DRAIN DETAIL
P-502 REF. P-103 SCALE: NTS



07 HOSE SPRAY DETAIL
P-502 REF. P-101 SCALE: NTS



08 ESTERN WATER CLOSET DETAIL
P-502 REF. P-103 SCALE: NTS

CLIENT:
UNITED NATIONS OFFICE
FOR PROJECT SERVICES



CONSULTANT:



PROJECT TITLE:

DESIGN OF WERP OFFICES INSIDE THE K-SPAN AT UNAMA
COMPOUND KABUL, AFGHANISTAN

SHEET CONTENT

PLUMBING GENERAL
DETAILS

REVISION

- 1 90% DESIGN SUBMITTAL
- 2 100% DESIGN SUBMITTAL
- 3
- 4

DATE

OCT 29, 2024
DEC 12, 2024

DESIGN BY: ENG MOHAMMAD NASIM FAQIRI

CHECKED BY: ENG BILAL
APPROVED BY: UNOPS

APPROVED FOR
DATE: DEC 12, 2024

DWG NO.

P

SHEET NO.

P-06

DESIGN OF WERP OFFICES INSIDE THE K-SPAN

ELECTRICAL DRAWINGS

CLIENT:

UNITED NATIONS OFFICE
FOR PROJECT SERVICES



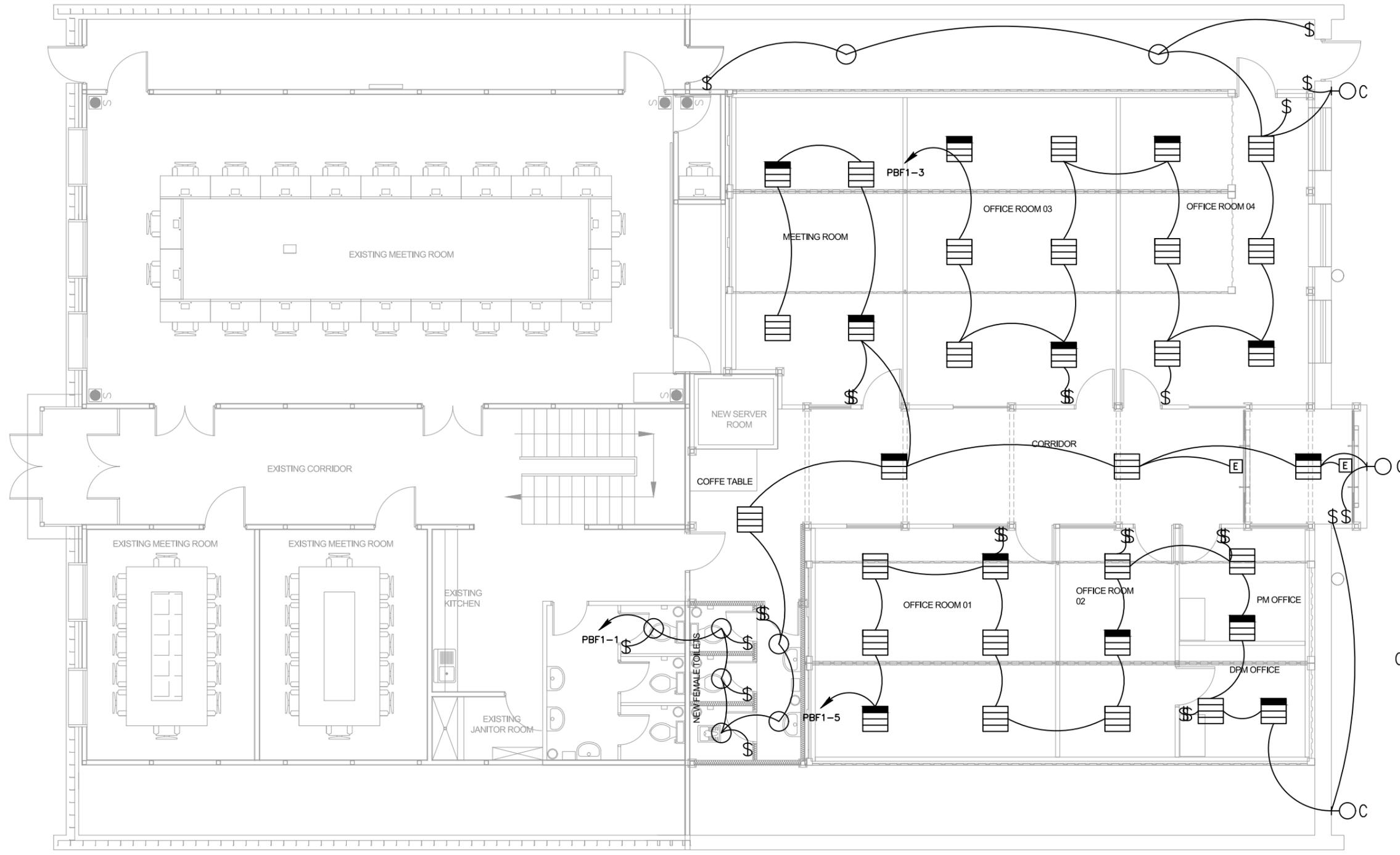
CONSULTING:

LAZULI PAMIR

Consulting Engineering
Services Co.

POWER	LIGHTING PROTECTION	TELECOMMUNICATIONS (CONTINUED)	FIRE ALARM (CONTINUED)	DENOTATIONS & ABBREVIATIONS (CONT.)
<p>POWER</p> <ul style="list-style-type: none"> ▬ DISTRIBUTION PANELBOARD ▬ NEW PANELBOARD - SURFACE ▬ NEW PANELBOARD - RECESSED ▬ EXISTING PANELBOARD ⊕ GENERATOR TVS TRANSIENT VOLTAGE SURGE SUPPRESSOR ☑ TRANSFORMER (DRAWN TO SIZE) ⊞ POWER SUPPLY ⊞ CONTROL PANEL ⊞ TIME CLOCK ⊞ ASTRONOMICAL TIME CLOCK- "SEE SPEC." ⊞ RELAY WITH RATING AND NUMBER OF POLES AS NOTED ON DRAWINGS- "SEE SPEC." ⊞ JUNCTION BOX ⊞ JUNCTION BOX - CEILING ⊞ PULL BOX ▬ BUS DUCT HORIZONTAL ▬ BUS DUCT VERTICAL ⊞ EMERGENCY POWER OFF PUSH BUTTON ⊞ 32A NON-FUSIBLE SAFETY SWITCH ⊞ 32A FUSIBLE SAFETY SWITCH ⊞ MOTOR ⊞ MOTOR STARTING SWITCH - 20A RATED ⊞ KEY SWITCH - 20A RATED ⊞ FAN COIL - FURNISHED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL INSTALL AND PROVIDE POWER CONNECTION ⊞ UNIT HEATER - FURNISHED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL INSTALL AND PROVIDE POWER CONNECTION ⊞ JUNCTION BOX FOR CONNECTION TO GARBAGE DISPOSAL ⊞ LIGHT/HEATER/FAN - FURNISHED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL INSTALL AND PROVIDE POWER CONNECTION ⊞ ELECTRIC WATER HEATER ⊞ WEATHERPROOF / EXPLOSION PROOF EMERGENCY POWER OFF PUSH-BUTTON TO BE INTERCONNECTED WITH GENERATOR SHUT DOWN CONTROL ⊞ CEILING FAN - REFER TO SPECIFICATION SECTION 26 20 00 <p>RECEPTACLES</p> <ul style="list-style-type: none"> △ DUPLEX 16A TYPE CEE 7-7 THREE WIRE UNSWITCHED SOCKETS, MOUNTING HEIGHT=450mm AFF △ DUPLEX 16A TYPE CEE 7-7 THREE WIRE UNSWITCHED SOCKETS - GROUND FAULT INTERRUPTER TYPE, MOUNTING HEIGHT=450mm AFF ⊞ DUPLEX 16A TYPE CEE 7-7 THREE WIRE UNSWITCHED SOCKETS - GROUND FAULT INTERRUPTER TYPE WITH WEATHERPROOF COVER MOUNTING HEIGHT = 450mm AFF ⊞ DUPLEX 16A TYPE CEE 7-7 THREE WIRE UNSWITCHED SOCKETS - EXPLOSION PROOF MOUNTING HEIGHT = 450mm AFF * INDICATES MOUNT DEVICE ABOVE COUNTER TOP 	<p>LIGHTING PROTECTION</p> <ul style="list-style-type: none"> ⊞ AIR TERMINAL 1/2"O.D. X 12' SOLID COPPER, NICKEL PLATED ON ADHESIVE BASE ⊞ EQUIPMENT AIR TERMINAL ⊞ TEST WELL WITH GROUND ROD(S) ⊞ GROUND ROD ⊞ GROUND PLATE ⊞ MAIN GROUND CONDUCTOR CONCEALED WITHIN CONSTRUCTION ⊞ MAIN GROUND CONDUCTOR EXPOSED ON EXPOSED ON BUILDING EXTERIOR SURFACE ⊞ GROUND CONDUCTOR CAD WELDED TO GROUND CABLE OR EQUIPMENT ⊞ GROUND CONDUCTOR CAD WELDED TO BUILDING STEEL COLUMN ⊞ GROUND ROD TRIPOD, SPACED 10 FEET APART. ⊞ LEVEL TO LEVEL CABLE <p>LIGHTING</p> <ul style="list-style-type: none"> ⊞ LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION ⊞ LIGHTING FIXTURE - SEE FIXTURE SCHEDULE FOR MORE INFORMATION ⊞ 600x600mm LED LIGHT ⊞ Highbay LIGHT ⊞ WALL MOUNTED EXTERIOR LIGHT ⊞ WALL MOUNTED LIGHT FIXTURE ⊞ EXIT SIGN - DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS ⊞ BATTERY PACK EMERGENCY LIGHT AS INDICATED ON DRAWINGS ⊞ REMOTE HEAD FOR BATTERY PACK ⊞ SINGLE POLE SWITCH - 20A RATED ⊞ 3-WAY SWITCH - 20A RATED ⊞ 4-WAY SWITCH - 20A RATED ⊞ PHOTOCELL VOLTAGE TO MATCH CIRCUITRY ⊞ LIGHTING CONTACTOR ⊞ POLE MOUNTED SITE LIGHTING FIXTURE- NUMBER OF FIXTURES PER POLE AS INDICATED ON DRAWINGS ⊞ EXTERIOR DIRECTIONAL LIGHTING FIXTURE ⊞ SMALL CASE LETTERS REPRESENTS LAMP(S) / SWITCHES. WHEN USED WITH AN OCCUPANCY SENSOR THIS INDICATES SENSOR WITH MANUAL OVERRIDE SWITCH <p>TELECOMMUNICATIONS</p> <ul style="list-style-type: none"> ▽ TELEPHONE OUTLET(S) @ 18" AFF. U.N.O. WITH 3/4" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO TELEPHONE TERMINAL BOARD IF NO ACCESSIBLE CEILING AVAILABLE. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION ▽ DATA OUTLET(S) @ 18" AFF. U.N.O. WITH 3/4" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO DATA EQUIPMENT RACK IF NO ACCESSIBLE CEILING AVAILABLE. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION 	<p>TELECOMMUNICATIONS (CONTINUED)</p> <ul style="list-style-type: none"> ▽ COMBINATION TELEPHONE/DATA OUTLET(S) @ 18" AFF. U.N.O. WITH 1" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO TELE/DATA TERMINAL AREA IF NO ACCESSIBLE CEILING AVAILABLE. THE BACK BOX SIZE IS 119mm SQUARE 54mm DEEP BOX. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION ▽ WALL MTD. TELEPHONE OUTLET WITH 3/4" RACEWAY TERMINATED ABOVE NEAREST ACCESSIBLE CEILING OR TO TELEPHONE TERMINAL BOARD IF NO ACCESSIBLE CEILING AVAILABLE. SEE TELE/DATA RISER DIAGRAM FOR OUTLET AND CABLE DESCRIPTION (x)T INDICATES NUMBER OF TELEPHONE OUTLET(S) AND ASSOCIATED CABLING (x)D INDICATES NUMBER OF DATA OUTLET(S) AND ASSOCIATED CABLING (x)TF INDICATES NUMBER OF TELEPHONE OUTLETS AND ASSOCIATED CABLING WITH 1 OUTLET AND CABLE DEDICATED FOR FAX ▬ COMMUNICATION PANEL <p>SINGLE LINE SYMBOLS</p> <ul style="list-style-type: none"> ⊞ SWITCH ⊞ BREAKER ⊞ FUSE ⊞ TRANSFORMER ⊞ CAPACITOR ⊞ GROUND ⊞ CONTACT (NORMALLY OPEN) ⊞ CONTACT (NORMALLY CLOSED) ⊞ AUTOMATIC TRANSFER SWITCH ⊞ MANUAL DOUBLE THROW SWITCH ⊞ CURRENT TRANSFORMER ▬ INDICATES NEW ELECTRICAL EQUIPMENT ▬ INDICATES NEW CONTROL WIRING AND CONDUIT ▬ EQUIPMENT OUTLINE <p>MISCELLANEOUS</p> <ul style="list-style-type: none"> ⊞ BRANCH CIRCUIT WIRING CONCEALED ABOVE CEILINGS, SURFACE MOUNTED ON WALLS ⊞ BRANCH CIRCUIT WIRING - #10 AWG ⊞ BRANCH CIRCUIT WIRING - UNDER FLOOR ⊞ HOME RUN BACK TO PANEL ▬ CONDUIT TURNED DOWN ▬ CONDUIT TURNED UP ▬ LOW VOLTAGE WIRING AND CONDUIT ▬ CABLE TRAY ("X" DENOTES WIDTH) ~ INDICATES CONTINUATION OF LINE <p>FIRE ALARM</p> <ul style="list-style-type: none"> ⊞ FIRE ALARM CONTROL PANEL WITH BATTERY BACKUP ⊞ FIRE ALARM PULL STATION ⊞ FIRE ALARM STROBE - WALL MOUNTED ⊞ FIRE ALARM AUDIBLE/STROBE - WM 	<p>FIRE ALARM (CONTINUED)</p> <ul style="list-style-type: none"> ⊞ FIRE ALARM HORN/STROBE - WM ⊞ SMOKE DETECTOR ⊞ HEAT DETECTOR CEILING MOUNTED ⊞ DUCT DETECTOR - PROVIDED BY EC, INSTALLED BY MC AND CONNECTED BY EC <p>DENOTATIONS & ABBREVIATIONS</p> <ul style="list-style-type: none"> AFF ABOVE FINISHED FLOOR C CEILING MOUNTED E EMERGENCY EC ELECTRICAL CONTRACTOR EPO EMERGENCY POWER OFF EXP EXPLOSION PROOF F FIRE ALARM FF FLUSH FLOOR MOUNTED FL FLUORESCENT FO FIBER OPTIC FSS FUSED SAFETY SWITCH G GROUND FAULT INTERRUPTER GC GENERAL CONTRACTOR HOA HAND-OFF AUTO I INFRARED ICD INCANDESCENT IG ISOLATED GROUND K KEY LV LOW VOLTAGE M MOTOR MC MECHANICAL CONTRACTOR NE NORMAL/EMERGENCY NFSS NON-FUSED SAFETY SWITCH PA PAGING SYSTEM PLC PLUMBING CONTRACTOR REL RELOCATE RED RELOCATED SL SINGLE LINE SS SURGE SUPPRESSION T TELEPHONE TL TWIST LOCK TP TAMPER PROOF UE UNDERGROUND ELECTRIC UF UNDERGROUND FIBER <p>DENOTATIONS & ABBREVIATIONS (CONT.)</p> <ul style="list-style-type: none"> UT UNDERGROUND TELEPHONE W WALL MOUNTED WG WIRE GUARD WP WEATHERPROOF WPG WEATHERPROOF/GROUND FAULT INTERRUPTER WT WATER TIGHT <p>GENERAL PROJECT NOTES:</p> <p>G1. UNLESS OTHERWISE NOTED, PROVIDE ALL EQUIPMENT SHOWN ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SYMBOLS SHOWN ON THE PLANS WITH THE SYMBOL LIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INTENT OF ANY SYMBOL THAT IS SHOWN ON THE PLANS AND NOT INDICATED ON THE SYMBOL LIST WITH THE ENGINEER PRIOR TO BID.</p> <p>G2. COORDINATE THE FINAL LOCATIONS OF ALL LIGHT FIXTURES WITH THE ARCHITECT'S REFLECTED CEILING PLANS. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO INSTALLATION.</p> <p>G3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE CONSTRUCTION AREA THREE (3) WORKING DAYS NOTICE BEFORE COMMENCE DIGGING. NOTIFY THE LOCAL OR STATE AUTHORITY HAVING JURISDICTION AND WAIT THE REQUIRED TIME BEFORE COMMENCING TO DIG.</p> <p>G4. THE CONTRACTOR SHALL COORDINATE CONDUIT RUNS, CABLE TRAY, LIGHTING FIXTURES AND OTHER EQUIPMENT LOCATIONS WITH THE OTHER TRADE CONTRACTORS TO AVOID CONFLICTS.</p> <p>G5. WHERE VOLTAGES AND FREQUENCIES ON THE DRAWINGS AND IN THE SPECIFICATIONS DIFFER FROM THE LOCAL ONES, ALL WORK SHALL BE PERFORMED USING THE LOCAL VOLTAGES AND FREQUENCIES.</p> <p>G6. THE MINIMUM WIRE SIZE ON THE PROJECT SHALL BE 4mm². THE MINIMUM CONDUIT SIZE SHALL BE 20mm. THE MINIMUM BREAKER SIZE SHALL BE 20 AMPS.</p> <p>G7. THE CONTRACTOR SHALL PUT A MAXIMUM OF 6 DUPLEX SOCKETS ON A 20A SINGLE POLE CIRCUIT.</p> <p>G8. WHERE THE 1010 SCOPE REVIEW, 1015 TECHNICAL REVIEW, DRAWINGS, AND SPECIFICATIONS DIFFER FROM AMERICAN CODES OR STANDARDS THE 1010, 1015, DRAWINGS, AND SPECIFICATIONS SHALL RULE.</p> <p>G9. WORK FOR THE AMMUNITION SUPPLY POINT SHALL BE DONE IN ACCORDANCE WITH DEPARTMENT OF DEFENSE STANDARD DOD 6055.9-STD.</p> <p>G10. ALL CONDUIT AND DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE INDICATED.</p>	

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: 	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.
			SYMBOL SHEET	1. CONCEPT PLAN SUBMITTAL #1 2. CONCEPT PLAN SUBMITTAL #2	OCT-27-2024 DEC-05-2024	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS	E
						DATE: DEC-05-2024	SHEET NO. E-00



GENERAL NOTES:

ALL ELECTRICAL EQUIPMENT SHALL BE SINGLE PHASE 220V, 50Hz, 1PH. 3WIRE OR 400V, 3PH, 50Hz, 4WIRES UNLESS OTHERWISE NOTED.

ALL EXPOSED CONDUITS SHALL BE PVC. PVC CONDUITS SHALL BE CONTINUOUS WITHOUT BREAK.

LIGHTING SWITCHES SHALL BE INSTALLED 1200mm ABOVE FINISHED FLOOR AND SHALL BE PROVIDE WITH BOX.

BOXES FOR MOUNTING LIGHT FIXTURES SHALL NOT BE LESS THAN 4 INCHES(100mm) SQUARE UNLESS THE FIXTURE REQUIRES A SMALLER BOX. BOXES FOR WALL SWITCHES SHALL BE 48 INCHES(1200mm) ABOVEV FFL.

SWITCHES SHALL BE RATED AT 16 OR 20 AMPS AND MINIMUM 220 VOLT A.C. SERVICE. WIRING SHALL BE ATTACHED TO THE DEVICE WITH SCREW_TYPE TERMINALS OR SOLDERLESS PRESSURE_TYPE TERMINALS HAVING A SUITABLE CONDUCTOR RELEASE ARRANGEMENT

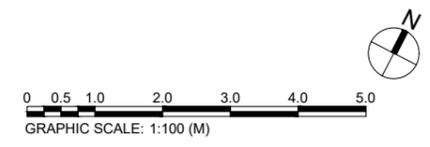
FOR LIGHTING FIXTURE DETAILS REFER TO DWG MWR-E-02

ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO UN SWITCHED PORTION OF THE CKTS.

LEGEND:

- 600X600mm 4X18W, FLUORESCENT LIGHT FIXTURE
- 600X600mm 4X18W, 220V, LED LIGHT FIXTURE WITH EMERGENCY BATTERY KIT.
- 300X300mm, 100W, 230V, LED EXTERIOR LIGHTING FIXTURE WITH EMERGENCY BATTERY KIT.
- 300X100mm, 8W, 230V LED EXIT SIGN
- SINGLE POLE LIGHT SWITCH
- TWO POLE LIGHT SWITCH
- 24W LED LIGHT, IP40, 230V

01 | NEW LIGHTING PLAN
E-01 | SCALE: 1:100



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.
			NEW LIGHTING PLAN	1. CONCEPT PLAN SUBMITTAL #1 2. CONCEPT PLAN SUBMITTAL #2 3. 4.	OCT-27-2024 DEC-05-2024	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS	E
						DATE: DEC-05-2024	SHEET NO. E-01

LIGHTING FIXTURE SCHEDULE

FIXTURE MARK	STYLE NUMBER AND TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
A	PELSAN PARABOLIC SURFACE/PENDANT MOUNTED 625MM X 450 x 50MM FLUORESCENT FIXTURE	4X18W , MODEL TL-D 18/IP20	230V - 1Ø 50HZ	PENDANT MOUNTED FROM SLOPED CEILING	FURNISHED WITH ELECTRONIC BALLAST. PARABOLIC LOUVER SHALL BE SPECULAR LENS IRADESCENCE TYPE.
C	WATER PROOF OUTDOOR LED LIGHT 230V 100W 50HZ, WITH EMERGENCY BATTERY KIT AND MIN 3 HOUR BATTERY BACKUP DURATION.	1X100W LIGHT, MODEL YK-FL-100W-X/IP65	230V - 1Ø 50HZ	WALL MOUNTED ABOVE EXTERIOR DOORS	LIGHTING FIXTURE SHALL BE LED TYPE
E	UNIVERSAL MOUNT ENGINEER GRADE THERMOPLASTIC HOUSING EXIT SIGN WITH LED LAMPS, RED LETTERS WITH ARROWS AS INDICATED, WITH 12V CADMIUM BATTERY WITH REMOTE HEAD CAPABILITY AND MIN 3 HOUR BATTERY BACKUP DURATION	1X8W LED EXIT LIGHT/ IP54	230V - 1Ø 50HZ	UNIVERSAL MOUNTING	LIGHTING FIXTURE SHALL BE LED TYPE
D	PELSAN LED LIGHT ONE PIECE 230V 50HZ, MODEL No 108317	1X24W LIGHT MODEL NO 108317/IP40	230V - 1Ø 50HZ	SURFACE MOUNTED	LIGHTING FIXTURE SHALL BE LED TYPE

FIXTURE MARK 'A'

FLUORESCENT LIGHTING FIXTURE 625MM x 415 x 50MM FIXTURE WITH ELECTRONIC BALLAST.



FIXTURE MARK 'C'

WATER PROOF OUTDOOR LED LIGHT ONE PIECE WITH SOFTEN 230V 100W 50HZ, MODEL YK-FL-100W-X



FIXTURE MARK 'E'

1X8W T5 MODUS EXIT SIGN, 330MM x 185MM, WITH 12V CADMIUM BATTERY



FIXTURE MARK 'D'

24W LED LIGHT ONE PIECE 230V 50HZ, MODEL No 108317



01 | LIGHTING FIXTURE DETAIL
E-02 | SCALE: NTS

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR <small>Consulting Engineering Services Co.</small>	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.
			LIGHTING FIXTURE DETAIL	1. CONCEPT PLAN SUBMITTAL #1 2. CONCEPT PLAN SUBMITTAL #2 3. 4.	OCT-27-2024 DEC-05-2024 	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS DATE: OCT-27-2024	E
							SHEET NO.
							E-02

GENERAL NOTES:

ALL ELECTRICAL EQUIPMENT SHALL BE SINGLE PHASE 220V, 50Hz, 1PH, 3WIRE OR 380V, 3PH, 50Hz, 4WIRES UNLESS OTHERWISE NOTED.

ALL EXPOSED CONDUITS SHALL BE PVC. PVC CONDUITS SHALL BE CONTINUOUS WITHOUT BREAK.

POWER RECEPTACLES SHALL BE SINGLE TYPE 220V, 50Hz, TYPE CEE 7/7 WITH EARTH GROUND RATED FOR 16A OR BETTER, IVORY COLOR

ALL RECEPTACLES SHALL BE INSTALLED 500mm ABOVE FINISHED FLOOR

WATER PROOF RECEPTACLES SHALL BE MOUNTED AT 1200mm ABOVE FINISHED FLOOR

ELECTRICAL PANEL BOARD SHALL BE INDOOR, WALL MOUNTED. PANELS SHALL BE PROVIDED WITH SPARE CONDUITS FOR FUTURE ELECTRICAL EQUIPMENTS

BARE, TINNED, COPPER, STRANDED, GROUNDING CABLE SIZED AS PER PANEL SCHEDULE.

BARE, TINNED, COPPER, STRANDED, GROUNDING CABLE 10MM²

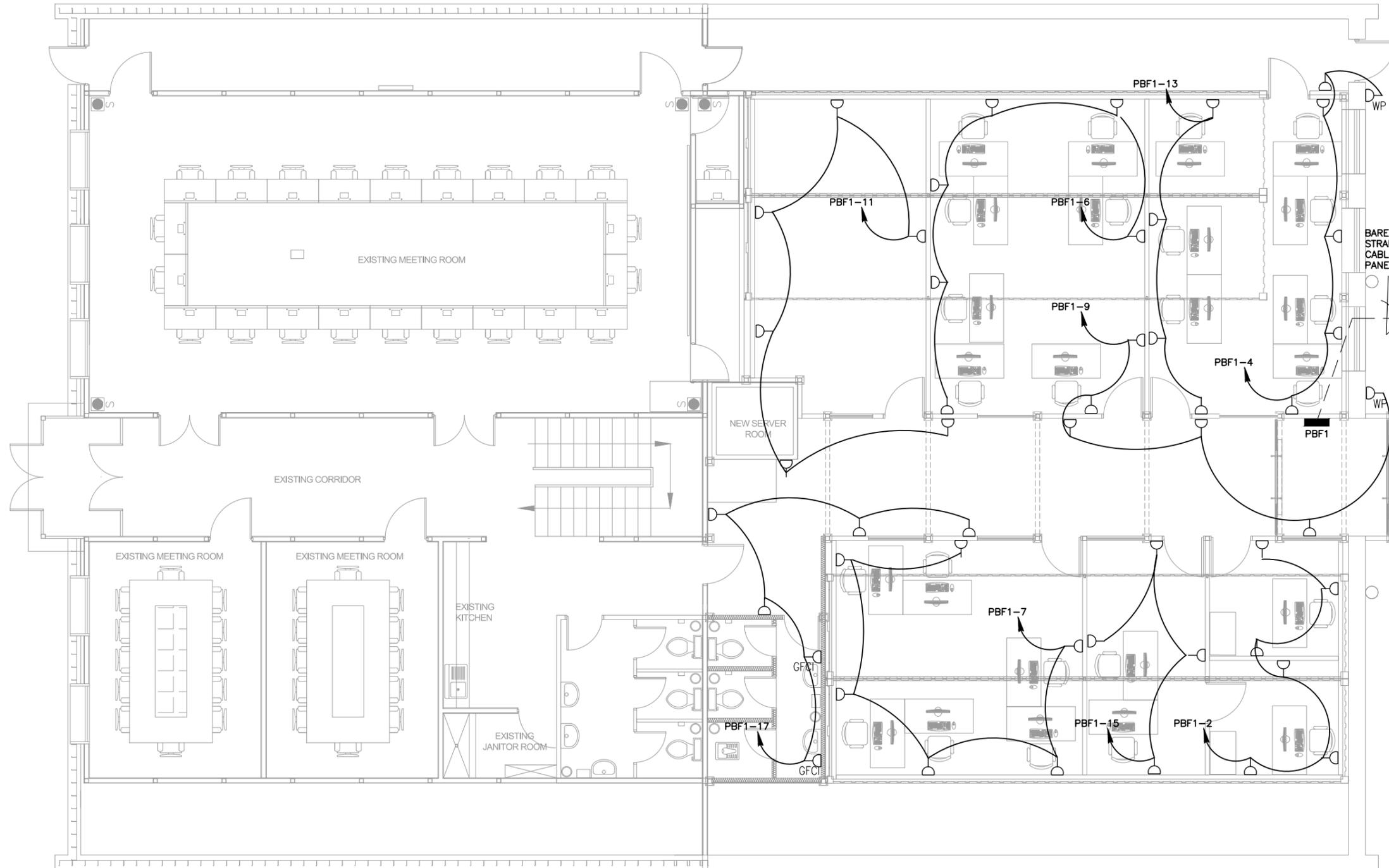
KEY NOTES:

① FOR PANEL SCHEDULE REFER TO SHEET E-06 OF THE DESIGN DRAWINGS.

LEGEND:

-  DUPLEX 16A 240V, SCHUKO RECEPTACLE
-  GFCI DUPLEX 16A 240V, GFCI, SCHUKO RECEPTACLE
-  WP DUPLEX 16A 240V, SCHUKO WATERPROOF RECEPTACLE
-  PB DISTRIBUTION PANEL

0 0.5 1.0 2.0 3.0 4.0 5.0
GRAPHIC SCALE: 1:100 (M)



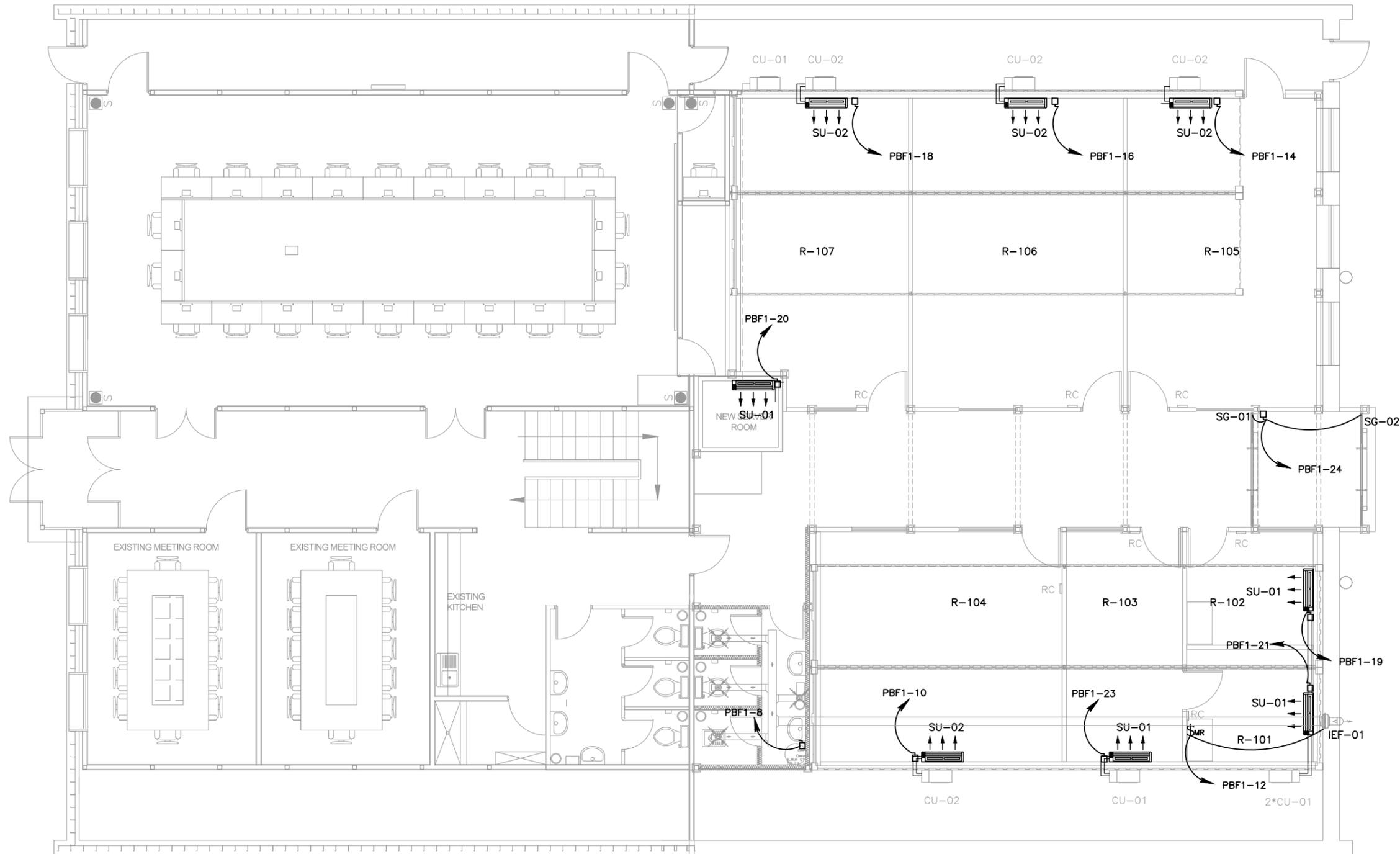
01 | NEW POWER PLAN
E-03 | SCALE: 1:100

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES 	CONSULTANT:  LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO. E SHEET NO. E-03
			NEW POWER PLAN	① CONCEPT PLAN SUBMITTAL #1 ② CONCEPT PLAN SUBMITTAL #2 ③ ④	OCT-27-2024 DEC-05-2024	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS	
						DATE: OCT-27-2024	

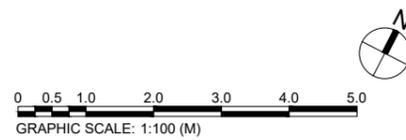
NOTES:

FOR ELECTRICAL PANEL SCHEDULES REFER TO SHEET E-06 OF THE DESIGN DRAWINGS.

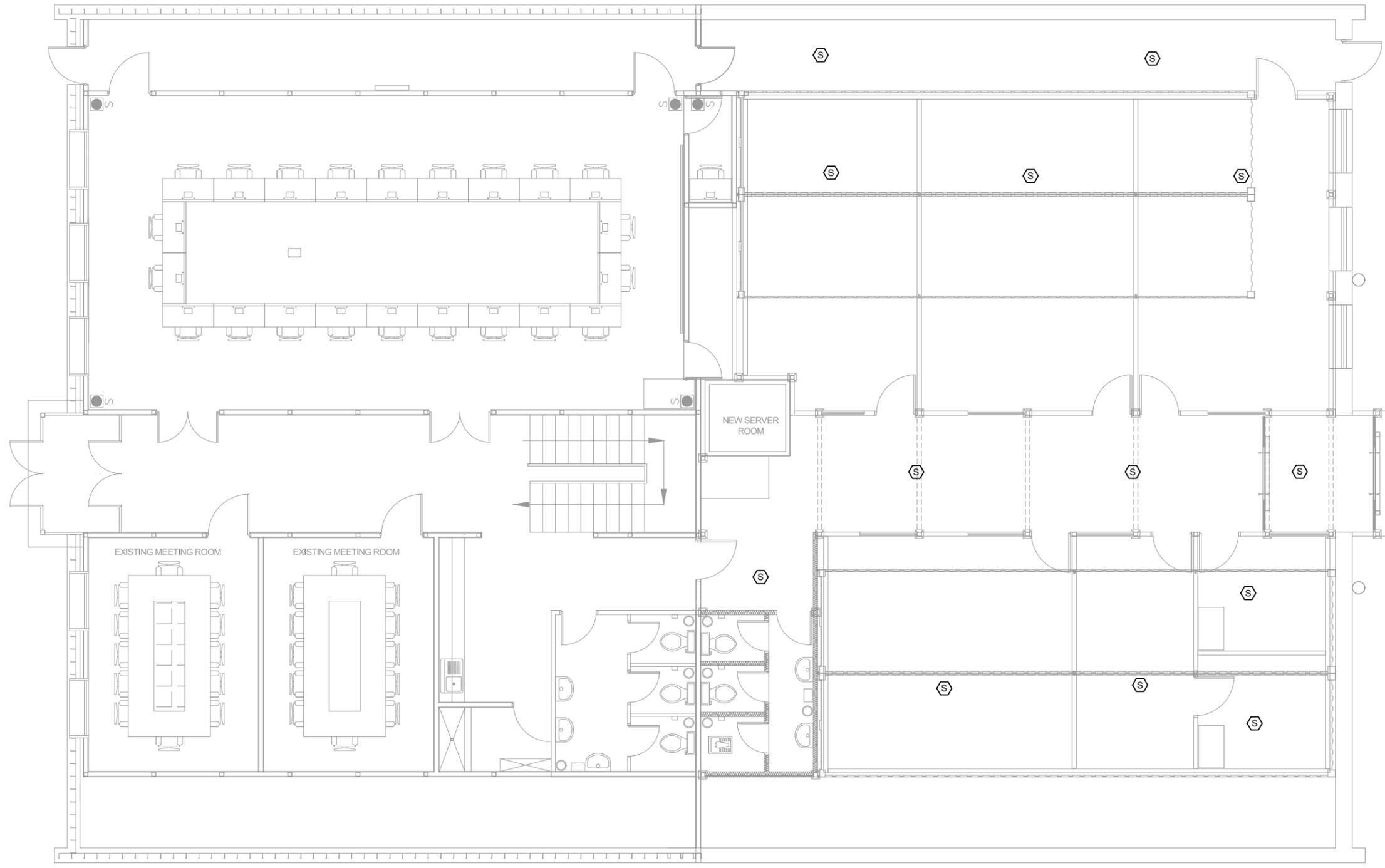
FOR SUPPLY UNIT, EXHAUST FAN AND FANS SCHEDULES REFER TO MECHANICAL DRAWINGS.



01 | NEW HVAC POWER PLAN
E-04 | SCALE: 1:100



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.
			NEW HVAC POWER PLAN	1 CONCEPT PLAN SUBMITTAL #1 2 CONCEPT PLAN SUBMITTAL #2 3 4	OCT-27-2024 DEC-05-2024	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS	E
						DATE: OCT-27-2024	SHEET NO. E-04



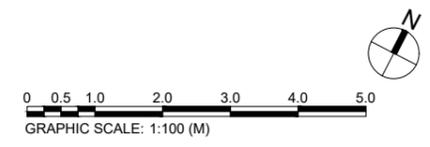
LEGEND:

⬡ SMOKE DETECTOR



BRK ELECTRONICS, MODEL NO. 7010BE
230V, 50HZ, 9V, BATTERY OPERATED
SMOKE DETECTOR

01 | NEW FIRE ALARM PLAN
E-05 | SCALE: 1:100

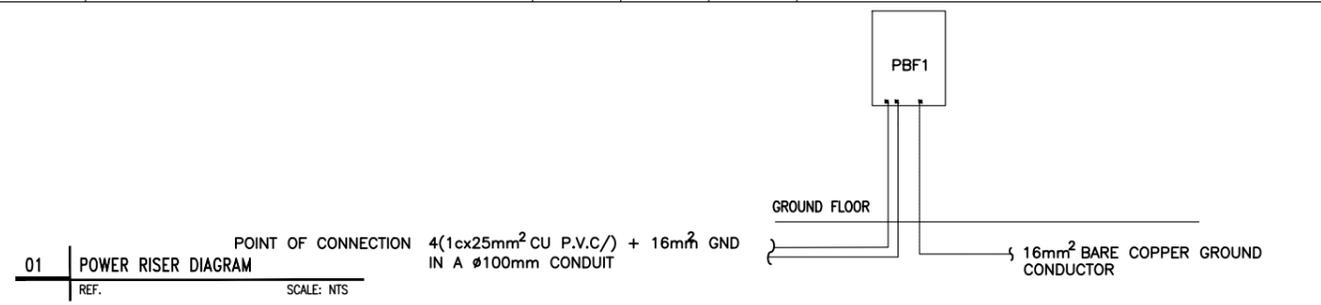


CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.
			NEW FIRE ALARM PLAN	⚠️ CONCEPT PLAN SUBMITTAL #1 ⚠️ CONCEPT PLAN SUBMITTAL #2 ⚠️ ⚠️	OCT-27-2024 DEC-05-2024	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS	E
						DATE: OCT-27-2024	SHEET NO. E-05

WERP OFFICES PBF1

35KA ISC / 0.5 SEC			60 AMP MCCB PRIOR TO MAIN BREAKER												FEED : BOTTOM					
WALL MOUNTED NEMA1 ENCLOSURE			60 AMP RCCB MAIN BREAKER												MOUNTING : WALL MOUNTED					
400 / 230 VOLTS, 3 PHASE, 5 WIRE															LOCATION : CORRIDOR					
50Hz PANEL BOARD															SUB-BREAKERS BELOW: MCB TYPE					
WIRE & CONDUIT	GND WIRE	DESCRIPTION	A	B	C	AMP	POLE	CKT	A	B	C	CKT	POLE	AMP	A	B	C	DESCRIPTION	GND WIRE	WIRE & CONDUIT
2(1Cx4mm ²) Ø 20mm	4mm ²	LIGHTING	1170			16	1	1	■			2	1	16	1080			RECEPTACLE	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	LIGHTING		1265		16	1	3		■		4	1	16		1080		RECEPTACLE	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	LIGHTING			1295	16	1	5			■	6	1	16			1080	RECEPTACLE	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	RECEPTACLE	1080			16	1	7	■			8	1	16	1875			EWB 01	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	RECEPTACLE		1080		16	1	9		■		10	1	16		2054		CU-2	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	RECEPTACLE			1080	16	1	11			■	12	1	16			212	IEF-01	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	RECEPTACLE	720			16	1	13	■			14	1	16	2054			CU-2	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	RECEPTACLE		720		16	1	15		■		16	1	16		2054		CU-2	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	RECEPTACLE			1080	16	1	17			■	18	1	16			2054	CU-2	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	CU-1	1026			16	1	19	■			20	1	16	1026			CU-1	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	CU-1		1026		16	1	21		■		22	1	16		0		SPARE	4mm ²	2(1Cx4mm ²) Ø 20mm
2(1Cx4mm ²) Ø 20mm	4mm ²	CU-1			1026	16	1	23			■	24	1	16			1250	SG-01, SG-02	4mm ²	2(1Cx4mm ²) Ø 20mm
		SPARE				16	1	25	■			26	1	16				SPARE		
		SPARE				16	1	27		■		28	1	16				SPARE		
		SPARE				16	1	29			■	30	1	16				SPARE		
SUB - TOTAL			3996.0	4091.0	4481.0										6035.0	5188.0	4596.0	SUB - TOTAL		

	VA	AMP
Total Phase A	10031.00	45.60
Total Phase B	9279.00	42.18
Total Phase C	9077.00	41.26
Total Connected load	28.39	kVA
Demand factor	80	%
Demand load	22.71	kVA
25% future spare	5.68	kVA
Total demand load + 25% future capacity	28.39	kVA
Total Amp	43.01	Amp



01 | POWER RISER DIAGRAM
REF: SCALE: NTS

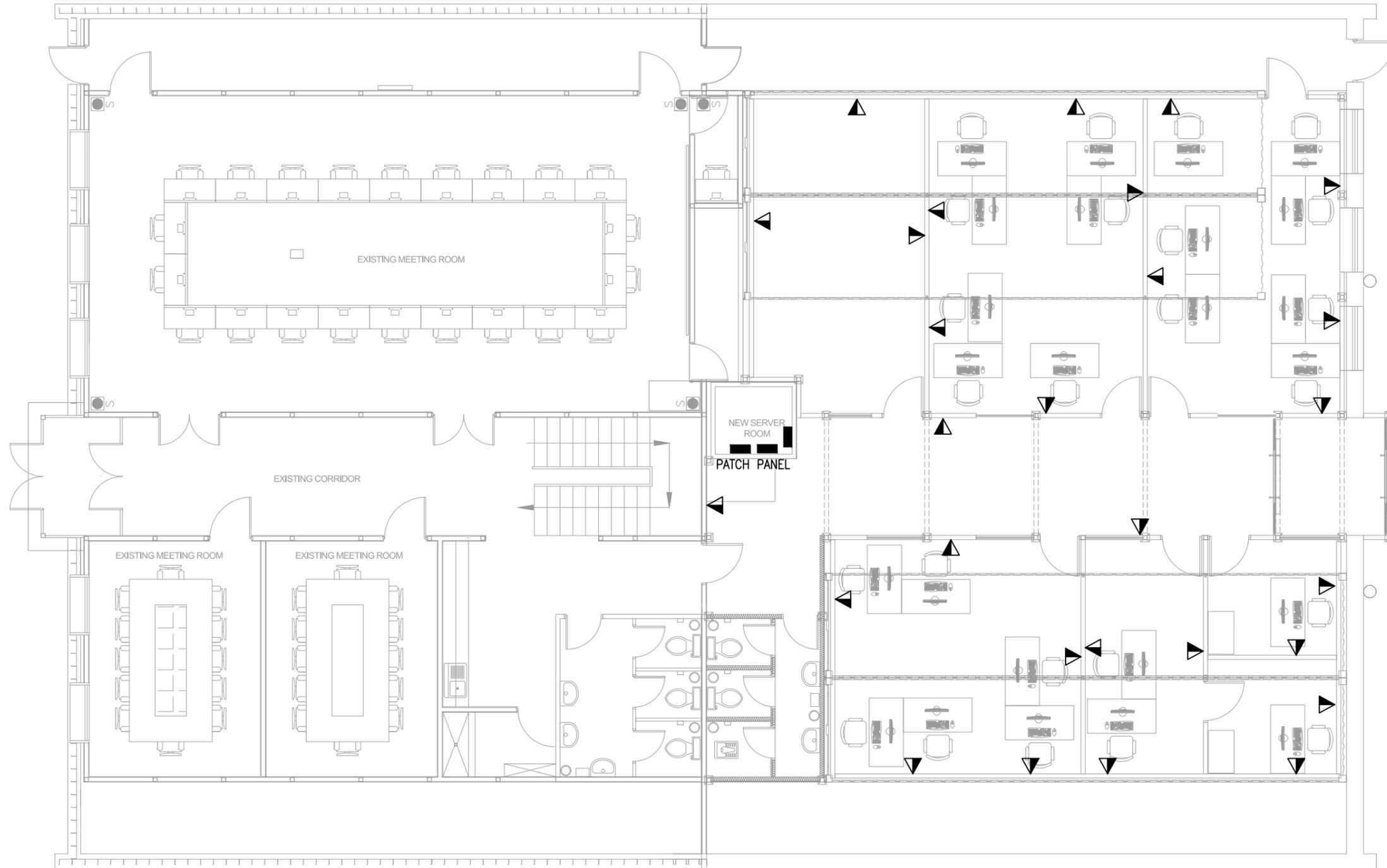
NOTES:

ALL CONDUCTORS SHALL BE CU, AT LEAST 75 DEG C THERMAL INSULATED.

ALL CONDUCTORS SHALL APPLY TO FOLLOWING COLOR CODE:
 PHASE A = BROWN
 PHASE B = BLACK
 PHASE C = GRAY
 NEUTRAL = BLUE
 GROUND = YELLOW AND GREEN

01 | NEW PANEL SCHEDULE
E-06 | SCALE: NTS

CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.
			NEW PANEL SCHEDULE	1 CONCEPT PLAN SUBMITTAL #1 2 CONCEPT PLAN SUBMITTAL #2 3 4	OCT-27-2024 DEC-05-2024	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS	E SHEET NO. E-06

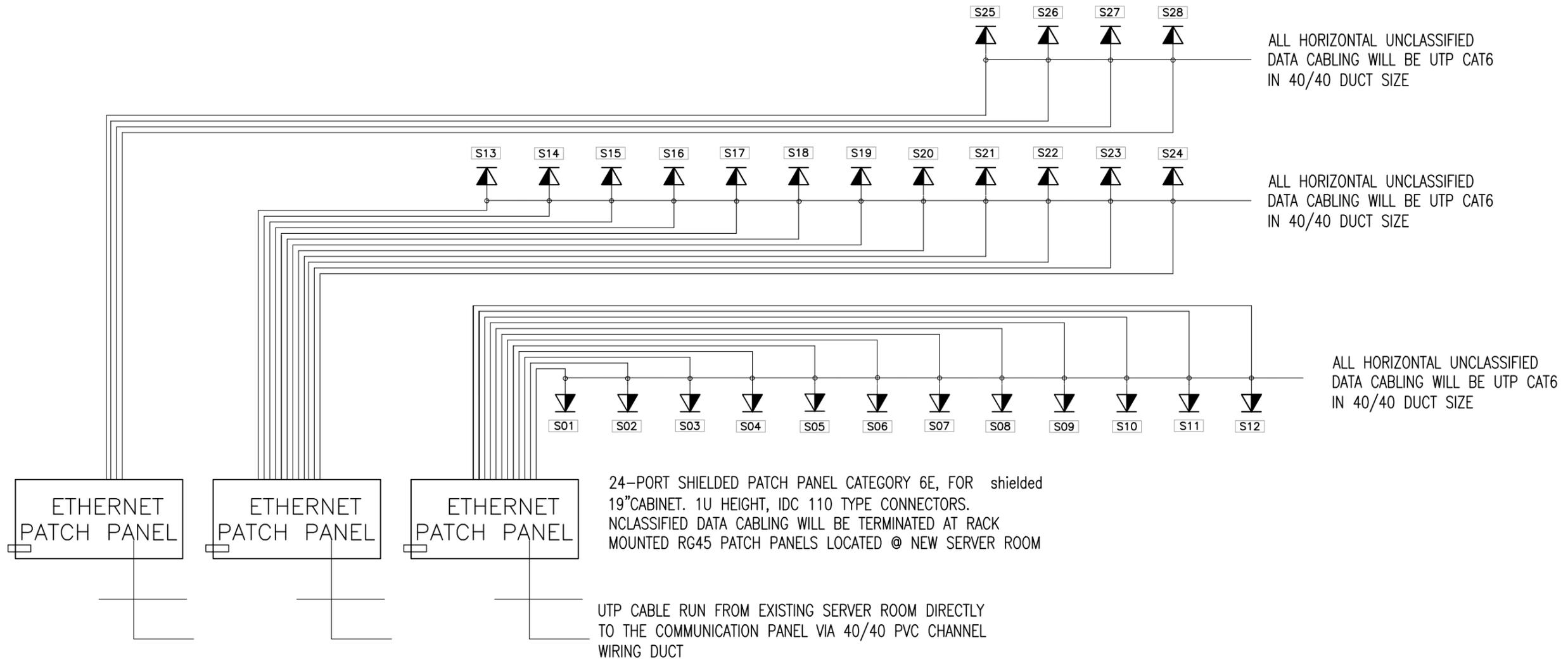


01 | NEW COMMUNICATION PLAN
E-07 | SCALE: 1:100

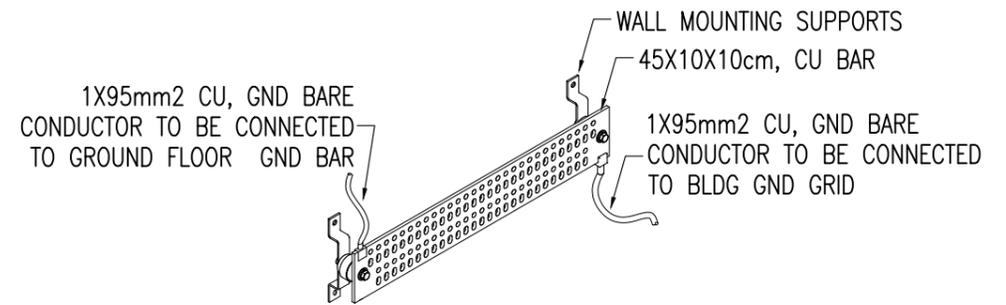
0 0.5 1.0 2.0 3.0 4.0 5.0
GRAPHIC SCALE: 1:100 (M)



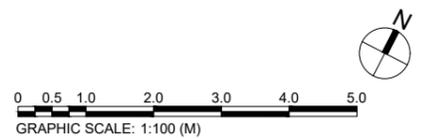
CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.
			NEW COMMUNICATION PLAN	1 CONCEPT PLAN SUBMITTAL #1 2 CONCEPT PLAN SUBMITTAL #2 3 4	OCT-27-2024 DEC-05-2024	DRAWN BY: M BILAL CHECKED BY: LAZULI PAMIR DESIGN TEAM APPROVED BY: UNOPS DATE: OCT-27-2024	E SHEET NO. E-07



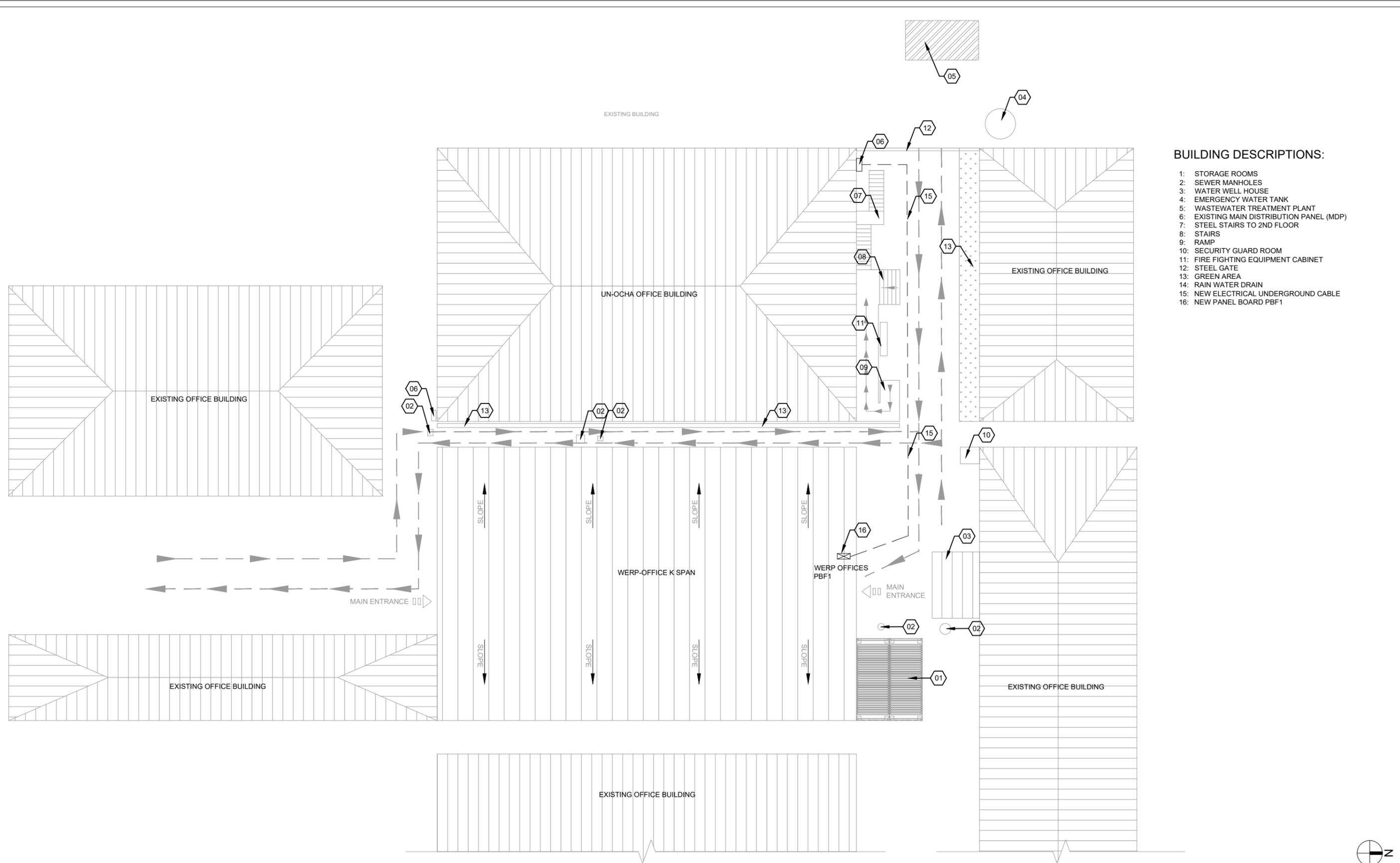
01 | NEW COMMUNICATION RISER DIAGRAM
E-08 | SCALE: 1:100



02 | COMM. GND BAR
E-08 | SCALE: 1:100



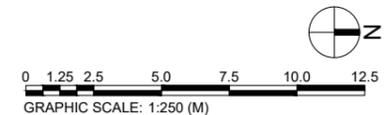
CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDE THE K-SPAN	SHEET CONTENT	REVISION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO.	
			NEW COMMUNICATION RISER DIAGRAM	1	CONCEPT PLAN SUBMITTAL #1	OCT-27-2024	DRAWN BY: M BILAL	E
				2	CONCEPT PLAN SUBMITTAL #2	DEC-05-2024	CHECKED BY: LAZULI PAMIR DESIGN TEAM	SHEET NO. E-08
				3			APPROVED BY: UNOPS	
	4			DATE: OCT-27-2024				



BUILDING DESCRIPTIONS:

- 1: STORAGE ROOMS
- 2: SEWER MANHOLES
- 3: WATER WELL HOUSE
- 4: EMERGENCY WATER TANK
- 5: WASTEWATER TREATMENT PLANT
- 6: EXISTING MAIN DISTRIBUTION PANEL (MDP)
- 7: STEEL STAIRS TO 2ND FLOOR
- 8: STAIRS
- 9: RAMP
- 10: SECURITY GUARD ROOM
- 11: FIRE FIGHTING EQUIPMENT CABINET
- 12: STEEL GATE
- 13: GREEN AREA
- 14: RAIN WATER DRAIN
- 15: NEW ELECTRICAL UNDERGROUND CABLE
- 16: NEW PANEL BOARD PBF1

01 | ELECTRICAL SITE PLAN
ES-01 | SCALE: 1:250



CLIENT: UNITED NATIONS OFFICE FOR PROJECT SERVICES	CONSULTANT: LAZULI PAMIR Consulting Engineering Services Co.	PROJECT TITLE: DESIGN OF WERP OFFICES INSIDIE THE K-SPAN	SHEET CONTENT	REVISSION	DATE	DESIGN BY: MAIWAND WAHEDY	DWG NO. E
			ELECTICAL SITE PLAN	1	CONCEPT PLAN SUBMITTAL #1	OCT-27-2024	
				2	CONCEPT PLAN SUBMITTAL #2	DEC-05-2024	CHECKED BY: LAZULI PAMIR DESIGN TEAM
				3			APPROVED BY: UNOPS
			4		DATE: OCT-27-2024	SHEET NO. ES-01	