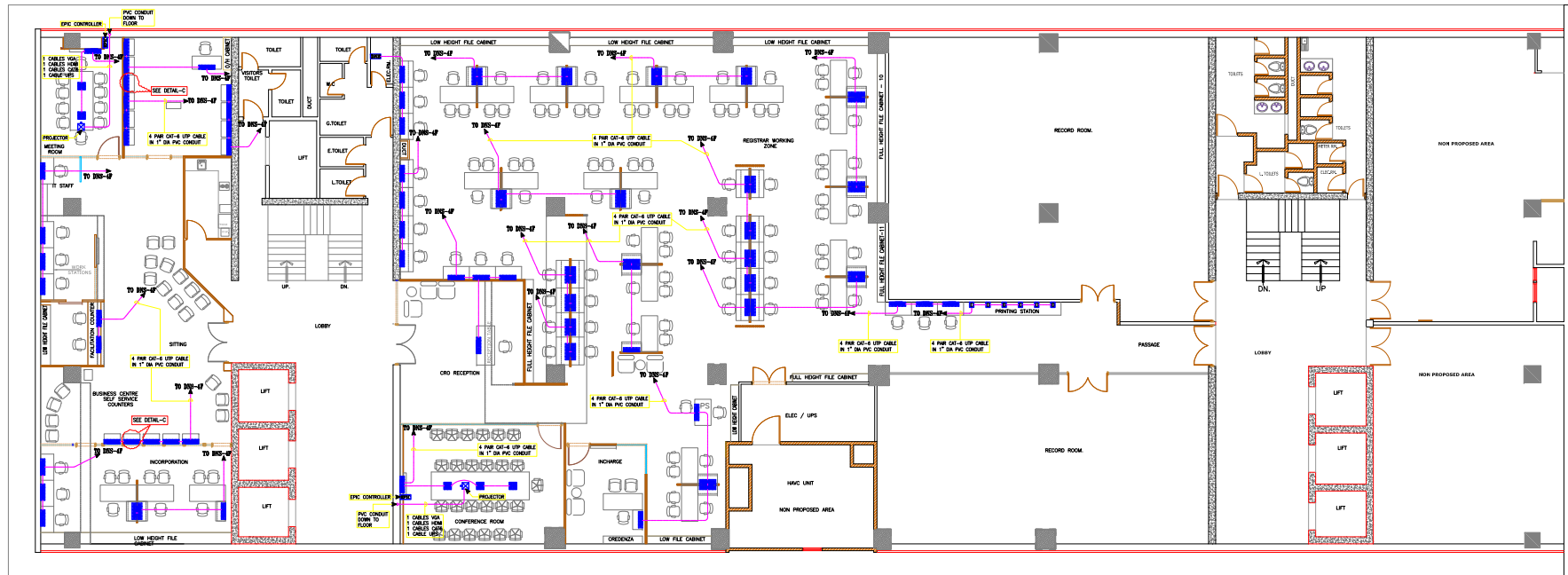




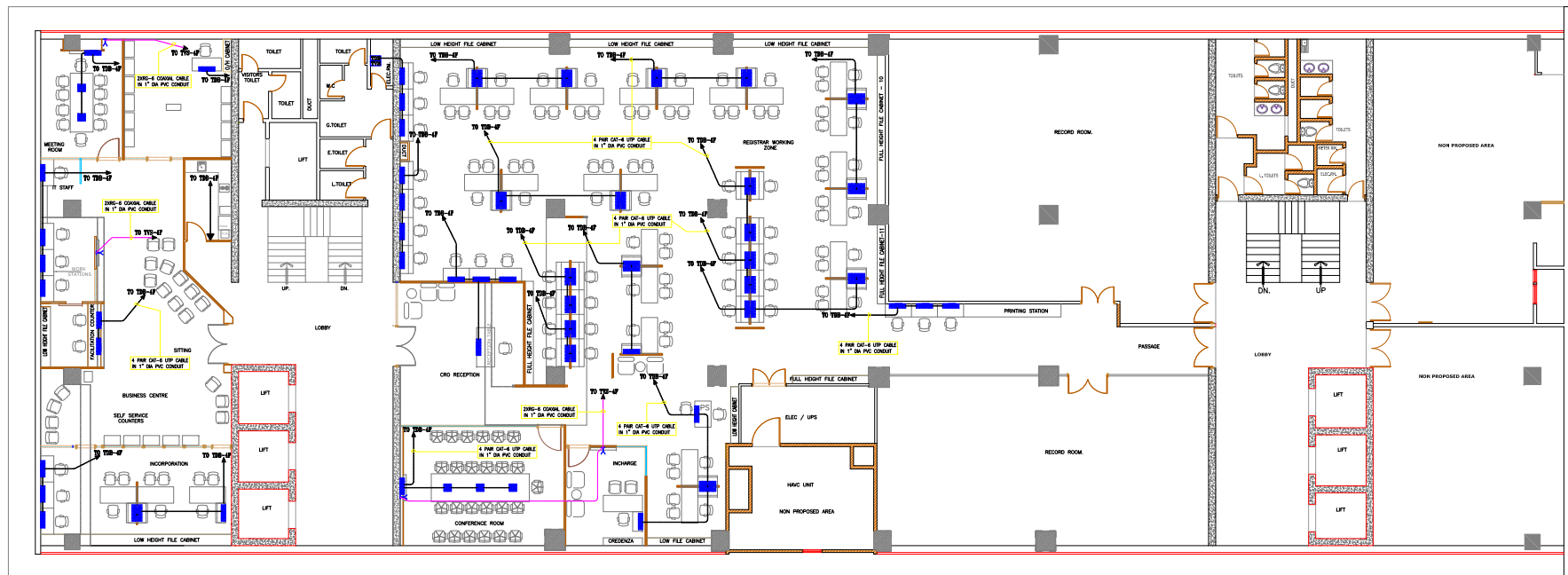
CLIENT:	SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN
PROJECT:	INTERIOR RENOVATION 4TH FLOOR COMPANIES

CONSULTANT:	SOHAIL A. KHAN ASSOCIATES Architecture and Designing House #159, Street 4, Race Course Road, Rawalpindi Tel: 5174329 - 5174098; Fax: 5125075 Email: mail@saka.net.pk
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MEP CONSULTANT:	RAAHIM ASSOCIATES MEP ENGINEERS & CONSULTANT FLAT 07, 1F SHERAZ PLAZA, GULBERG II, LHR Ph: 042-35764449, Cell no: 0333-4320990 E-mail: raahimassociates@gmail.com
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DRAWING TITLE:	DATA SYSTEM LAYOUT
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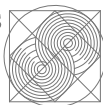
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SCALE:	N.T.S	DATE:	15.06.2020	DWG.NO:	E-08



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COMMISSION OF PAKISTAN

PROJECT:
INTERIOR RENOVATION
4TH FLOOR COMPANIES

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DRAWING TITLE:
**TELEPHONE & TV CABLE
SYSTEM LAYOUT**

DESIGN BY: CH.USAMA	DRAWN BY: M.AKRAM	CHECK BY: S.Y.B
SCALE: N.T.S	DATE: 15.06.2020	DWG.NO: E-09



CLIENT:
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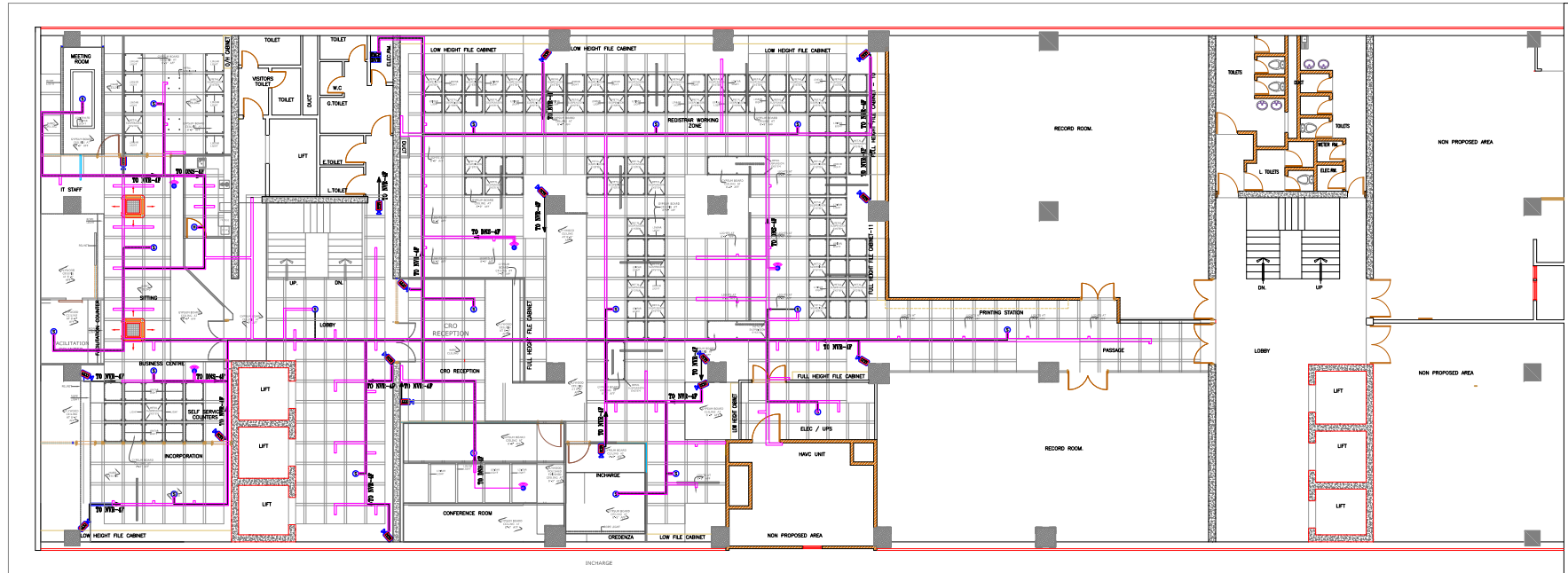
PROJECT:
INTERIOR RENOVATION
4TH FLOOR COMPANIES

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DRAWING TITLE:
**ACCESS CONTROL & Q-MATIC
SYSTEM LAYOUT**

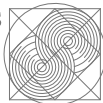
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SCALE: N.T.S	DATE: 15.06.2020	DWG.NO: E-10



CLIENT:
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PROJECT:
INTERIOR RENOVATION
4TH FLOOR COMPANIES

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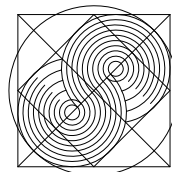


DRAWING TITLE:
**FIRE ALARM, WIFI & CCTV
SYSTEM LAYOUT**

DESIGN BY: CH.USAMA	DRAWN BY: M.AKRAM	CHECK BY: S.Y.B
SCALE: N.T.S	DATE: 15.06.2020	DWG.NO: E-11

PLUMBING

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PLUMBING SYSTEM GENERAL NOTES & LEGEND

GENERAL NOTES :-

- 1- ALL DIMENSIONS ARE IN INCHES OTHERWISE SPECIFIED.
- 2- IT IS THE CONTRACTOR RESPONSIBILITY AND LIABILITY TO SYSTEMATICALLY, ACCURATELY, AND DILIGENTLY COORDINATE ALL WORKS OF ALL TRADES, AS DEPICTED ON EACH TRADE DRAWING, WITH EACH OTHERS AND WITH ALL PRODUCTS DATA SHEETS BEFORE GENERATING SHOP DRAWINGS FOR FABRICATION, INSTALLATION, PROCUREMENT OF PRODUCTS, AND/OR CONSTRUCTION.
- 3- CONTRACTOR IS RESPONSIBLE FOR CONNECTION OF NEW NETWORK WITH EXISTING LINES IN CO-ORDINATION WITH CLIENT
- 4- ANY NECESSARY ARRANGEMENTS REQUIRED FOR ABOVE MENTIONED WORKS WILL COME UNDER JURISDICTIONS OF MAIN CONTRACTOR.

WATER SUPPLY SYSTEM:

- 1- PROVIDE ISOLATING VALVE OR ANGLE VALVE AT ALL BRANCH PIPES CONNECTION /RISER.
- 2- ALL JOINTS IN PIPE WORK AND JOINTS OF PIPE WORK TO APPLIANCES SHALL BE AIRTIGHT AND WATERTIGHT AND SHALL REMAIN SO DURING USE. CARE SHALL BE TAKEN TO ENSURE THAT NO JOINING MATERIAL PROJECTS INSIDE THE CORE OF THE PIPE. SOME FLEXIBILITY IS DESIRABLE WHERE THERE IS A POSSIBILITY OF MOVEMENT IN A PIPELINE OR BETWEEN THE PIPE AND THE APPLIANCE AND PROVISION SHALL BE MADE IN ASSEMBLY OF SANITARY PIPE WORK TO ACCOMMODATE AND CONTROL THERMAL MOVEMENT.
- 3- ALL PIPE SIZE SHOWN ARE NOMINAL PIPE DIAMETER IN INCHES.
- 4- REFER TO AREA PLANS FOR DETAILED PIPING LAYOUT OF WATER SUPPLY PIPING NETWORK.
- 5 ALL PIPE PENETRATION THROUGH ROOF AND EXTERIOR WALLS SHALL BE FULLY WATERPROOFED.
- 6- EXACT ROUTE AND LOCATION OF EACH PIPELINE SHALL BE DETERMINED IN COORDINATION WITH OTHER TRADES PRIOR TO INSTALLATION.
- 7- PROVIDE UNIONS AT THE FINAL CONNECTION TO EACH PIECE OF EQUIPMENT OR PLUMBING FIXTURE HAVING 2 INCHES AND SMALLER CONNECTIONS.
- 8- PROVIDE FLANGES ON ALL VALVES, APPARATUS AND EQUIPMENT HAVING 2-1/2 INCHES AND LARGER CONNECTIONS.
- 9- PROVIDE PIPE SLEEVE WITH CAULKING FOR ALL PIPES PENETRATING THROUGH CONCRETE STRUCTURES.
- 10- THE CONTRACTOR MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR FIXTURES PRE-INSTALLATION.
- 11- ALL MATERIALS TO BE USED SHALL GENERALLY CONFORM TO SASO, AMERICAN OR BRITISH STANDARDS.
- 12- COMPLETED PLUMBING SYSTEM INSTALLATIONS SHALL BE TESTED IN ACCORDANCE WITH ACCEPTED CODES AND STANDARD TESTING PROCEDURE.
- 13- ALL IMPORTANT ITEMS LIKE VALVES, ETC. SHALL HAVE A REPRESENTATIVE SAMPLE & CATALOG TO BE SUBMITTED TO THE CONSULTANT FOR APPROVAL.
- 14- ALL ITEMS TO BE INSTALLED SHALL IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS.
- 15- ALL PLUMBING FIXTURES WILL BE INSTITUTIONAL GRADE, VITREOUS CLAY OR STAINLESS STEEL AS REQUIRED.
- 16- WATER CLOSETS WILL BE FLOOR MOUNTED TYPE WITH A FLUSH RATE OF 1.6 GPF.
- 17- LAVATORIES WILL BE WALL HUNG OR COUNTER TOP TYPE, 1.9 LITERS PER MINUTE MAXIMUM FLOW RATE WITH MANUAL FAUCETS.
- 18- FLOOR DRAINS AND / OR FLOOR SINKS WILL BE FLUSH WITH FINISHED FLOOR, MINIMUM 2 INCHES OUTLET.
- 19- SEISMIC RESTRAINTS WILL BE PER THE REFERENCED BUILDING CODE
- 20- SBC, UPC AND IPC IS TO BE FOLLOWED DURING WORK IN PROGRESS.
- 21- POLYPROPYLENE PIPES ARE TO BE PROVIDED FOR WATER SUPPLY PIPING

IMPORTANT NOTES :-

- 1- ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO DEMONSTRATE THE INTENT OF THE DESIGN AND SHALL NOT BE USED DIRECTLY FOR FABRICATION AND/OR INSTALLATION. THE CONTRACTOR SHALL USE THE INFORMATION SHOWN AS START POINT TO DEVELOP DETAILED SHOP DRAWINGS NECESSARY FOR FABRICATION & INSTALLATION, THE CONTRACTOR SHALL SUBMIT THESE SHOP DRAWINGS, & CATALOG CUTS FOR CLIENT APPROVAL PRIOR TO PROCUREMENT, FABRICATION AND INSTALLATION.
- 2- THE CONTRACTOR PERFORMING THE PROCESS WILL CONSIDER & CHECK THE LATEST UPDATE OF ARCHITECTURAL, INTERIOR DESIGN, REQUIREMENTS OF MEDICAL GASES INSIDE THE ROOMS & LABS, THE SELECTION OF APPROPRIATE SYSTEMS TO FIGHT THE FIRE INSIDE THE SPECIAL ROOMS IN ACCORDANCE WITH NFPA
- 3- THE COORDINATION BETWEEN ALL TRADES IS THE CONTRACTOR RESPONSIBILITY
- 4- SHOP DRAWING REQUIRED FROM THE CONTRACTOR TO CONSULTANT APPROVAL
- 5- WHERE THERE IS CONFLICT BETWEEN ANY LOCAL AUTHORITY REQUIREMENTS AND THE DRAWINGS OR SPECIFICATIONS, REQUIREMENTS OF LOCAL AUTHORITIES SHALL GOVERN.
- 6- IT IS THE CONTRACTOR RESPONSIBILITY AND LIABILITY TO SYSTEMATICALLY, ACCURATELY, AND DILIGENTLY COORDINATE ALL WORKS OF ALL TRADES, AS DEPICTED ON EACH TRADE DRAWING, WITH EACH OTHERS AND WITH ALL PRODUCTS DATA SHEETS BEFORE GENERATING SHOP DRAWINGS FOR FABRICATION, INSTALLATION, PROCUREMENT OF PRODUCTS, AND/OR CONSTRUCTION.
- 7- REFER TO DRAWINGS FOR EQUIPMENTS CAPACITIES & POWER REQUIRED ACCORDING TO DESIGN STAGE ONLY
- 8- CONTRACTOR IS RESPONSIBLE FOR CONNECTION OF MAIN NETWORK WITH EXISTING LINES IN CO-ORDINATION WITH CLIENT
- 9- ANY NECESSARY ARRANGEMENTS REQUIRED FOR ABOVE MENTIONED WORKS WILL COME UNDER JURISDICTIONS OF MAIN CONTRACTOR.

DRAINAGE SYSTEM:

- 1- SANITARY DRAINAGE SYSTEM INSIDE THE BUILDING SHALL BE ONE PIPE SYSTEM FOR BOTH SOIL AND WASTE APPLIANCES.
- 2- SANITARY DRAINAGE PIPING BELOW GRADE WILL BE UPVC CLASS 5 & CLASS 4 FOR ABOVE GRADE WITH RUBBER GASKET.
- 3- ALL WET AREAS SUCH AS TOILETS, JANITORS, KITCHENS, MECHANICAL ROOMS, ...ETC SHALL BE PROVIDED WITH FLOOR DRAINS.
- 4- DRAINAGE AND STORM SYSTEMS WITHIN THE INTERIOR OF THE BUILDING SHALL BE TESTED AND APPROVED BY OWNER IN ACCORDANCE WITH THE PROVISIONS OF THE PLUMBING CODE.
- 5- ALL DRAINS AND SEWER LINES INSIDE BUILDING SHALL BE SLOPED AT MAXIMUM OF 2.0% AND MINIMUM OF 1.0% SLOPE UNLESS OTHERWISE MENTIONED.
- 6- ALL PIPES RUN SHOWN ARE ABOVE FALSE CEILING LEVEL UNLESS OTHERWISE MENTIONED.
- 7- CONNECTION OF HORIZONTAL DRAINAGE LINES WITH OTHER HORIZONTAL DRAINAGE LINES SHALL BE MADE USING 45 DEGREE *Y* BRANCHES, COMBINATION *Y* AND 1/8 BEND BRANCHES OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP, UNLESS SPECIFIED OTHERWISE.
- 8- INSTALL PIPING PARALLEL TO BUILDING WALLS AT SUCH HIGHS AS NOT TO OBSTRUCT ANY PORTION OF WINDOWS, DOOR WAYS, STAIR WAYS OR PASSAGE WAYS.
- 9- CONNECTION OF VERTICAL DRAINAGE LINES WITH HORIZONTAL DRAINAGE LINES SHALL BE MADE USING 45 DEGREE BRANCHES OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP.60 DEGREE BRANCHES OR OFFSETS MAY BE USED ONLY WHEN INSTALLED IN A TRUE VERTICAL POSITION.
- 10- CHANGES IN DIRECTION OF DRAINAGE PIPING SHALL BE MADE BY THE APPROPRIATE USE OF APPROVED FITTINGS AND SHALL BE OF THE ANGLES PRESENTED BY 1/16 BEND, 1/8 BEND OR 1/6 BEND OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP.
- 11- HORIZONTAL PIPING SHALL BE SUPPORTED AT SUFFICIENTLY CLOSE INTERVALS TO MAINTAIN PIPE ALIGNMENT AND PREVENT SAGGING.
- 12- PROVIDE ESCUTCHEONS ON ALL EXPOSED PIPING PASSING THROUGH WALLS, FLOORS, PARTITIONS AND CEILINGS HELD IN PLACE BY INTERNAL SPRING TENSION OR SET SLEEVES.
- 13- RODDING ACCESS TO BE LOCATED ON WALL OF DUCT SHAFTS AND COORDINATED WITH ARCHITECT (TYPICAL TO ALL DUCT SHAFTS).
- 14- TRAP ALL FIXTURES AS REQUIRED BY CODES & STANDARDS
- 15- EXACT ROUTE AND LOCATION OF EACH PIPELINE SHALL BE DETERMINED IN COORDINATION WITH OTHER TRADES PRIOR TO INSTALLATION.
- 16- PROVIDE PIPE SLEEVE WITH CAULKING FOR ALL PIPES PENETRATING THROUGH CONCRETE STRUCTURES.
- 17- THE CONTRACTOR MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR FIXTURES PRE-INSTALLATION.
- 18- UNLESS OTHERWISE SHOWN, ALL PLUMBING MATERIALS SHALL BE AS SPECIFIED.
- 19- DIELECTRIC UNION MUST BE USED WHEN TWO PIPES OF DIFFERENT MATERIAL ARE CONNECTED TOGETHER.
- 20- ALL MATERIALS TO BE USED SHALL GENERALLY CONFORM TO SASO, AMERICAN OR BRITISH STANDARDS.
- 21- ALL FIXTURES SHALL BE PROVIDED WITH P OR S TRAP.
- 22- LONG RADIUS BEND SHALL BE USED AT THE FOOT OF VERTICAL SOIL / WASTE STACKS.
- 23- COMPLETED PLUMBING SYSTEM INSTALLATIONS SHALL BE TESTED IN ACCORDANCE WITH ACCEPTED CODES AND STANDARD TESTING PROCEDURE.
- 24- ALL ITEMS TO BE INSTALLED SHALL IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS.

LEGEND:

COLD WATER PIPE (C.W)	
HOT WATER PIPE (H.W)	
GATE VALVE	
CHECK VALVE	
PRESSURE REGULATING VALVE	
WASTE PIPE	
SOIL PIPE	
VENT PIPE	
WITH P- TRAP	
CLEAN OUT	
FLOOR CLEAN OUT	

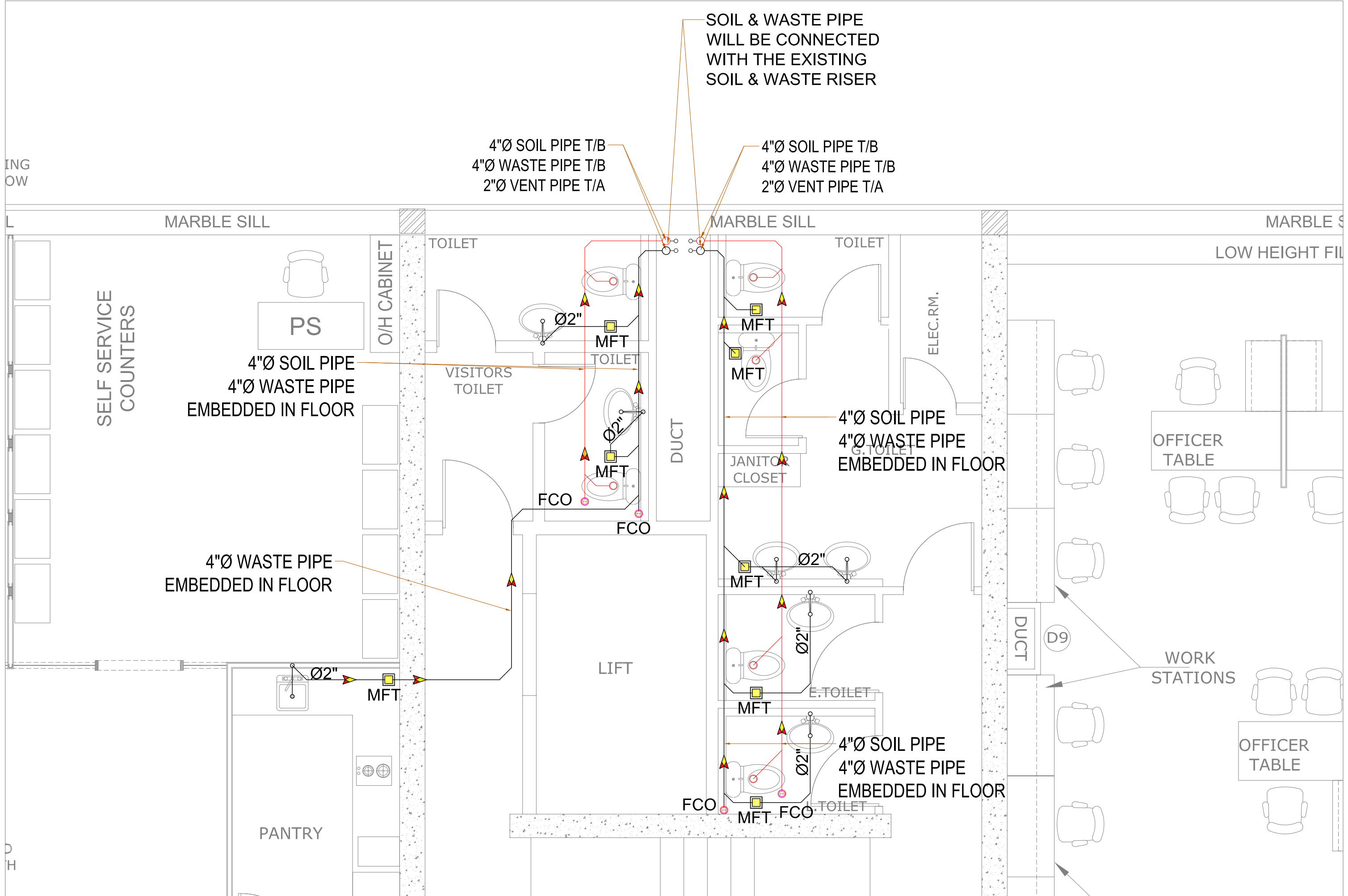
CLIENT:	SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN
PROJECT:	INTERIOR RENOVATION 3RD FLOOR COMPANIES

CONSULTANT:	SOHAIL A. KHAN ASSOCIATES Architecture and Designing House #159, Street 4, Race Course Road, Rawalpindi Tel: 5174329 - 5174098; Fax: 5125075 Email: mail@saka.net.pk
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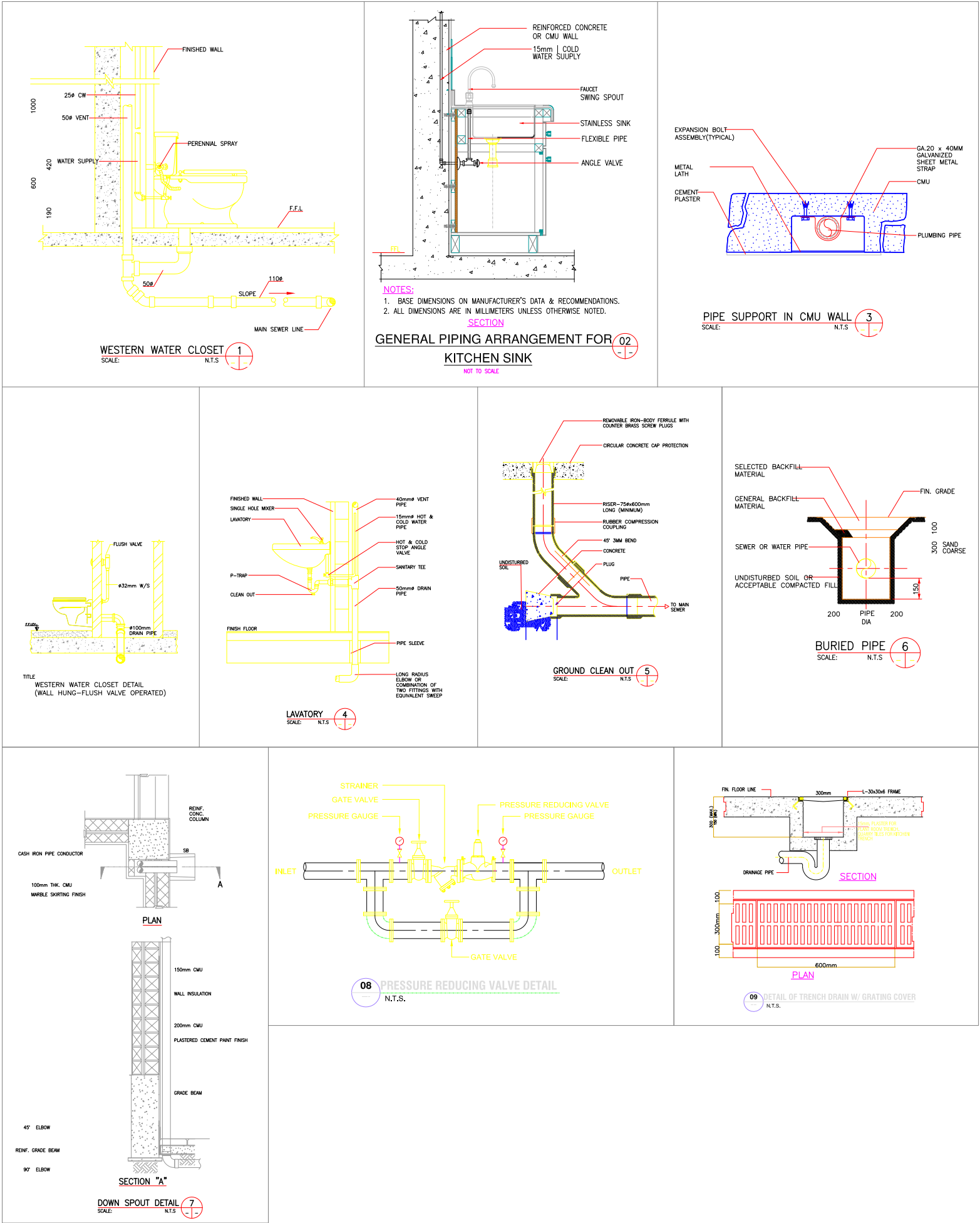
MEP CONSULTANT:	RAAHIM ASSOCIATES MEP ENGINEERS & CONSULTANT FLAT 07, 1F SHERAZ PLAZA, GULBERG II, LHR Ph: 042-35764449, Cell no: 0333-4320990 E-mail: raahimassociates@gmail.com
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DRAWING TITLE:	GENERAL NOTES & LEGEND
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DESIGN BY:	DRAWN BY:	CHECK BY:
IMRAN	ALI	AZIZ
SCALE:	DATE:	DWG.NO:
N.T.S	15.06.2020	G-01



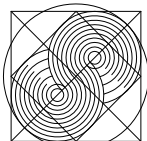
CLIENT: SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN PROJECT: INTERIOR RENOVATION 3RD FLOOR COMPANIES	CONSULTANT: SOHAIL A. KHAN ASSOCIATES Architecture and Designing House #159, Street 4, Race Course Road, Rawalpindi Tel: 5174329 - 5174098; Fax: 5125075 Email: mail@saka.net.pk	MEP CONSULTANT:  RAAHIM ASSOCIATES MEP ENGINEERS & CONSULTANT FLAT 07, 1F SHERAZ PLAZA, GULBERG II, LHR Ph: 042-35764449, Cell no: 0333-4320990 E-mail: raahimassociates@gmail.com	DRAWING TITLE: DRAINAGE SYSTEM LAYOUT	DESIGN BY: IMRAN SCALE: N.T.S	DRAWN BY: ALI DATE: 15.06.2020	CHECK BY: AZIZ DWG.NO: DR-01
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CLIENT:
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PROJECT:
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3RD FLOOR COMPANIES

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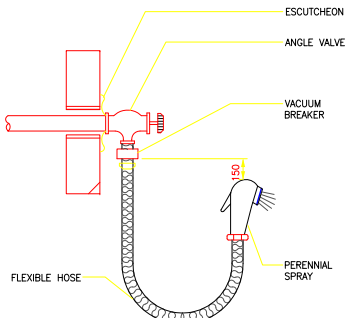


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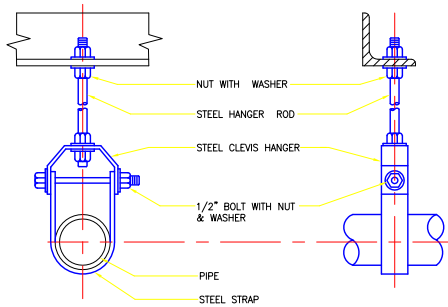


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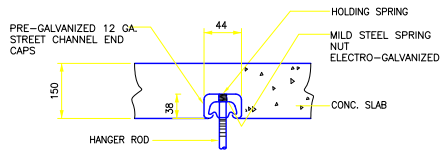
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PERINEAL SPRAY 01
SCALE: N.T.S.

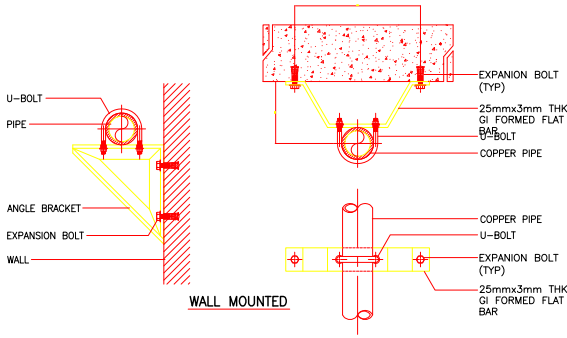


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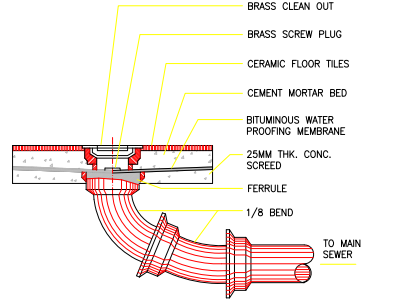


PIPE SUPPORT 03
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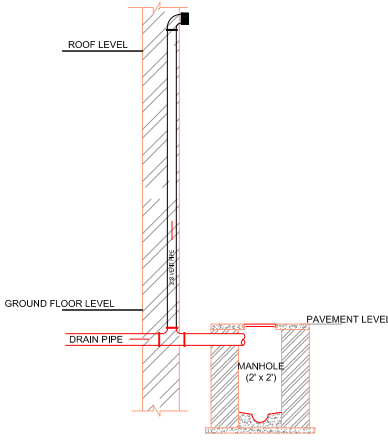
CLEVIS / TYPE HANGER		
PIPE SIZE	HANGER ROD	STRAP
1/2" (12.7mm) TO 2" (50mm)	3/8" DIA. (10mm)	3/16" (5mm) x 1 1/4" (32mm)
2 1/2" (62mm) TO 3" (75mm)	1/2" DIA. (12.7mm)	" " "
4" (100mm) TO 5" (105mm)	5/8" DIA. (16mm)	1/4" (8mm) x 1 1/2" (40mm)
6" (150mm)	3/4" DIA. (20mm)	3/8" (10mm) x 1 1/2" (40mm)



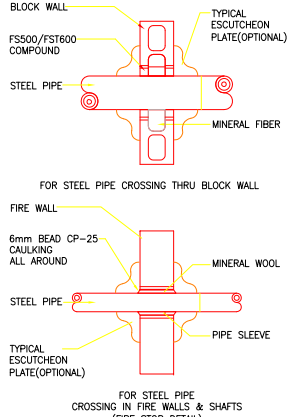
SECTION A-A



FLOOR CLEANOUT 04
SCALE: N.T.S.



FLOOR DRAIN 06
SCALE: N.T.S.



PIPE THRU WALLS 07
SCALE: N.T.S.

PIPE SIZE	SLEEVE
4" (110 mm)	6" (150 mm)
3" (75 mm)	4" (100 mm)
2 1/2" (63 mm)	4" (100 mm)
2" (50 mm)	3" (75 mm)
1 1/2" (40 mm)	3" (75 mm)
1 1/4" (32 mm)	2 1/2" (63 mm)
1" (25 mm)	2" (50 mm)
1/2" (15 mm)	3/4" (20 mm)

CLIENT:
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COMMISSION OF PAKISTAN

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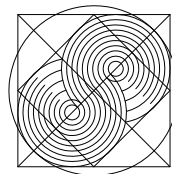
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DRAWING TITLE:
STANDARD DETAILS-2

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H.V.A.C

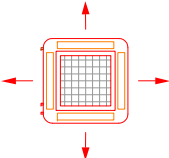
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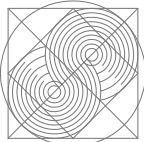
INDEX

DRG NO	DESCRIPTION	QTY
HV-00	HVAC INDEX-LEGEND AND GENERAL NOTES	1NO.
HV-01	AC COPPER LAYOUT	1NO.
HV-02	AC ELECTRICAL SYSTEM LAYOUT	1NO.
HV-03	HVAC CONDENSATE LAYOUT	1NO.
HV-04	HVAC STANDARD DETAILS	1NO.

LEGEND AND GENERAL NOTES		
	CD	CONDENSATE DRAIN PIPE
	REF	REFRIGERANT PIPE
	CCS	CEILING CASSETTE TYPE UNIT
	WMU	WALL MOUNTED UNIT
	CU	CONDENSING UNIT

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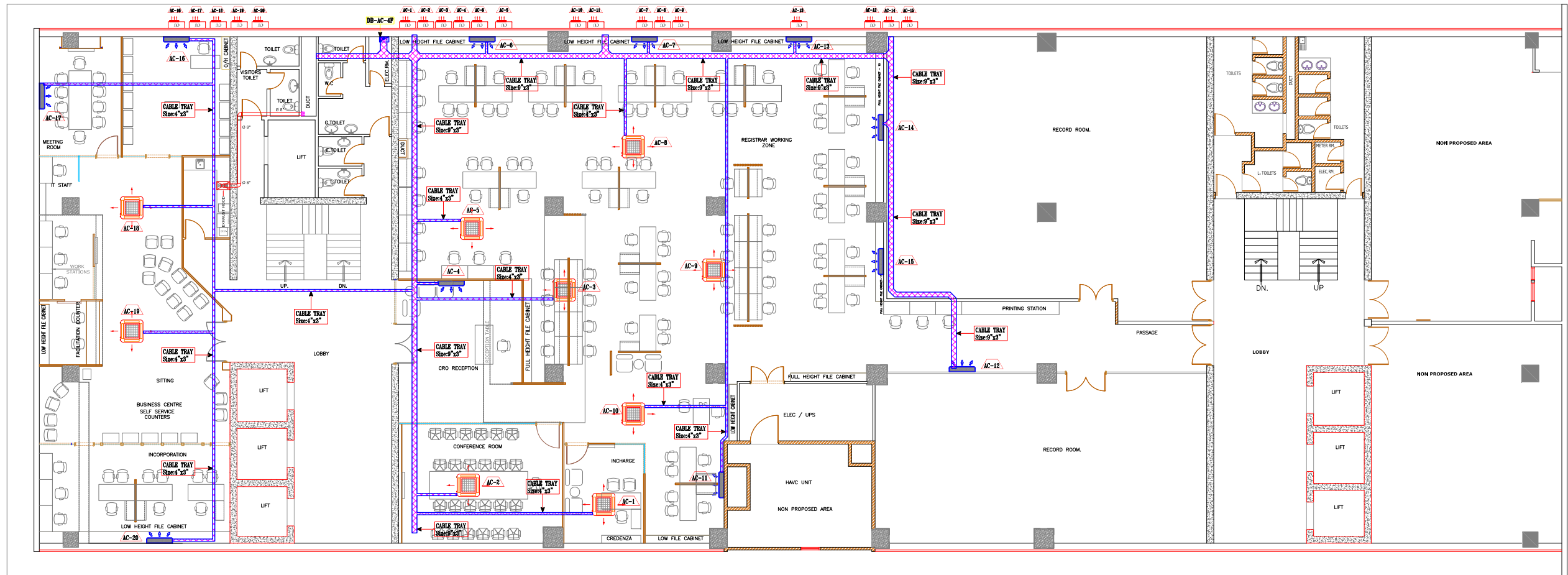


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DRAWING TITLE:	LEGEND AND GENERAL NOTES
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CH.USAMA	M.AKRAM	S.Y.B
SCALE:	DATE:	DWG.NO:
N.T.S	15.06.2020	HV-01



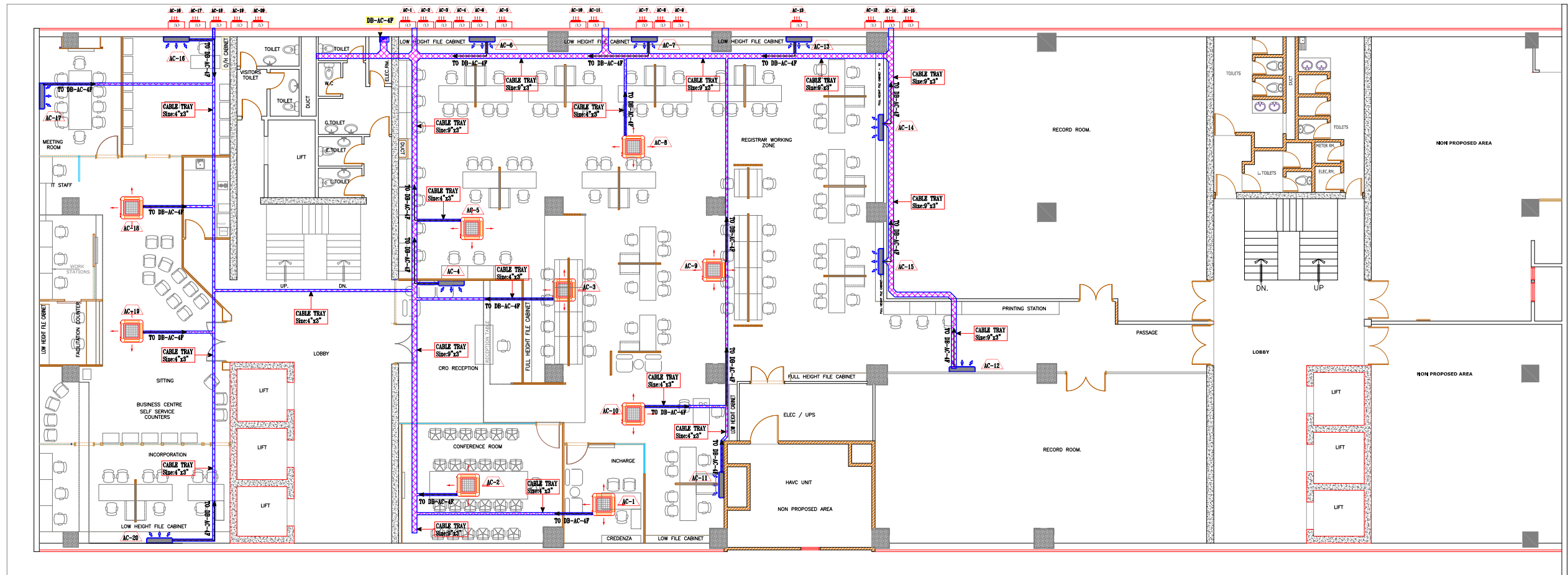
CLIENT:	SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN
PROJECT:	INTERIOR RENOVATION 4TH FLOOR COMPANIES

CONSULTANT:	SOHAIL A. KHAN ASSOCIATES Architecture and Designing House #159, Street 4, Race Course Road, Rawalpindi Tel: 5174329 - 5174098; Fax: 5125075 Email: mail@saka.net.pk
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MEP CONSULTANT:	RAAHIM ASSOCIATES MEP ENGINEERS & CONSULTANT FLAT 07, 1F SHERAZ PLAZA, GULBERG II, LHR Ph: 042-35764449, Cell no: 0333-4320990 E-mail: raahimassociates@gmail.com
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DRAWING TITLE:	AC COPPER LAYOUT
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DESIGN BY:	CH.USAMA	DRAWN BY:	M.AKRAM	CHECK BY:	S.Y.B
SCALE:	N.T.S	DATE:	15.06.2020	DWG.NO:	HV-02



CLIENT:
SECURITIES AND EXCHANGE
COMMISSION OF PAKISTAN

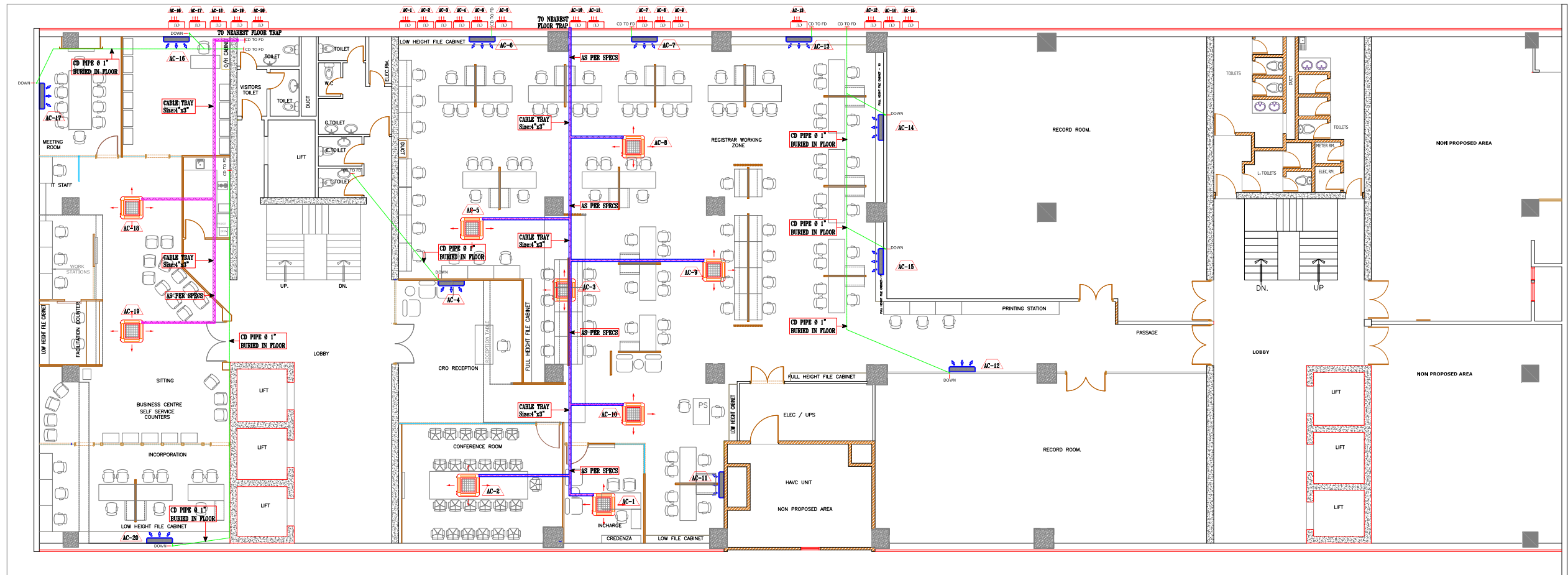
PROJECT:
INTERIOR RENOVATION
4TH FLOOR COMPANIES

CONSULTANT:
SOHAIL A. KHAN ASSOCIATES
Architecture and Designing
House #159, Street 4, Race Course Road, Rawalpindi
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RAAHIM ASSOCIATES
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FLAT 07, 1F SHERAZ PLAZA, GULBERG II, LHR
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DRAWING TITLE:
ELECTRICAL SYSTEM LAYOUT

DESIGN BY: CH.USAMA	DRAWN BY: M.AKRAM	CHECK BY: S.Y.B
SCALE: N.T.S	DATE: 15.06.2020	DWG.NO: HV-03



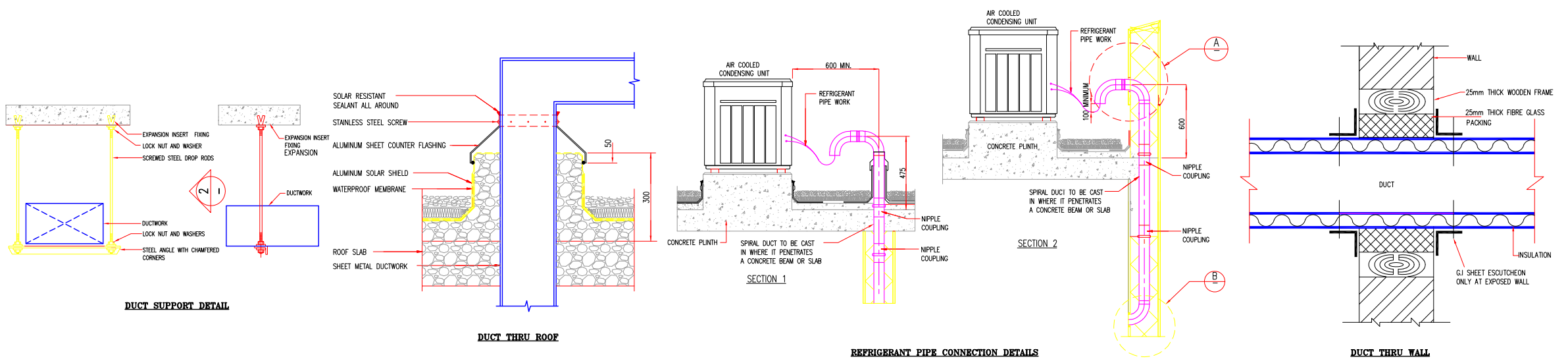
CLIENT:	SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN
PROJECT:	INTERIOR RENOVATION 4TH FLOOR COMPANIES

CONSULTANT:	SOHAIL A. KHAN ASSOCIATES Architecture and Designing House #159, Street 4, Race Course Road, Rawalpindi Tel: 5174329 - 5174098; Fax: 5125075 Email: mail@saka.net.pk
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MEP CONSULTANT:	RAAHIM ASSOCIATES MEP ENGINEERS & CONSULTANT FLAT 07, 1F SHERAZ PLAZA, GULBERG II, LHR Ph: 042-35764449, Cell no: 0333-4320990 E-mail: raahimassociates@gmail.com
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DRAWING TITLE:	HVAC CONDENSATE LAYOUT
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DESIGN BY:	CH.USAMA	DRAWN BY:	M.AKRAM	CHECK BY:	S.Y.B
SCALE:	N.T.S	DATE:	15.06.2020	DWG.NO:	HV-04



CLIENT: SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN		CONSULTANT: SOHAIL A. KHAN ASSOCIATES Architecture and Designing House #159, Street 4, Race Course Road, Rawalpindi Tel: 5174329 - 5174098; Fax: 5125075 Email: mail@saka.net.pk				MEP CONSULTANT:  RAAHIM ASSOCIATES MEP ENGINEERS & CONSULTANT FLAT 07, 1F SHERAZ PLAZA, GULBERG II, LHR Ph: 042-35764449, Cell no: 0333-4320990 E-mail: raahimassociates@gmail.com		DRAWING TITLE: HVAC STANDARD DETAILS		DESIGN BY: CH.USAMA		DRAWN BY: M.AKRAM		CHECK BY: S.Y.B	
PROJECT: INTERIOR RENOVATION 4TH FLOOR COMPANIES										SCALE: N.T.S		DATE: 15.06.2020		DWG.NO: HV-05	