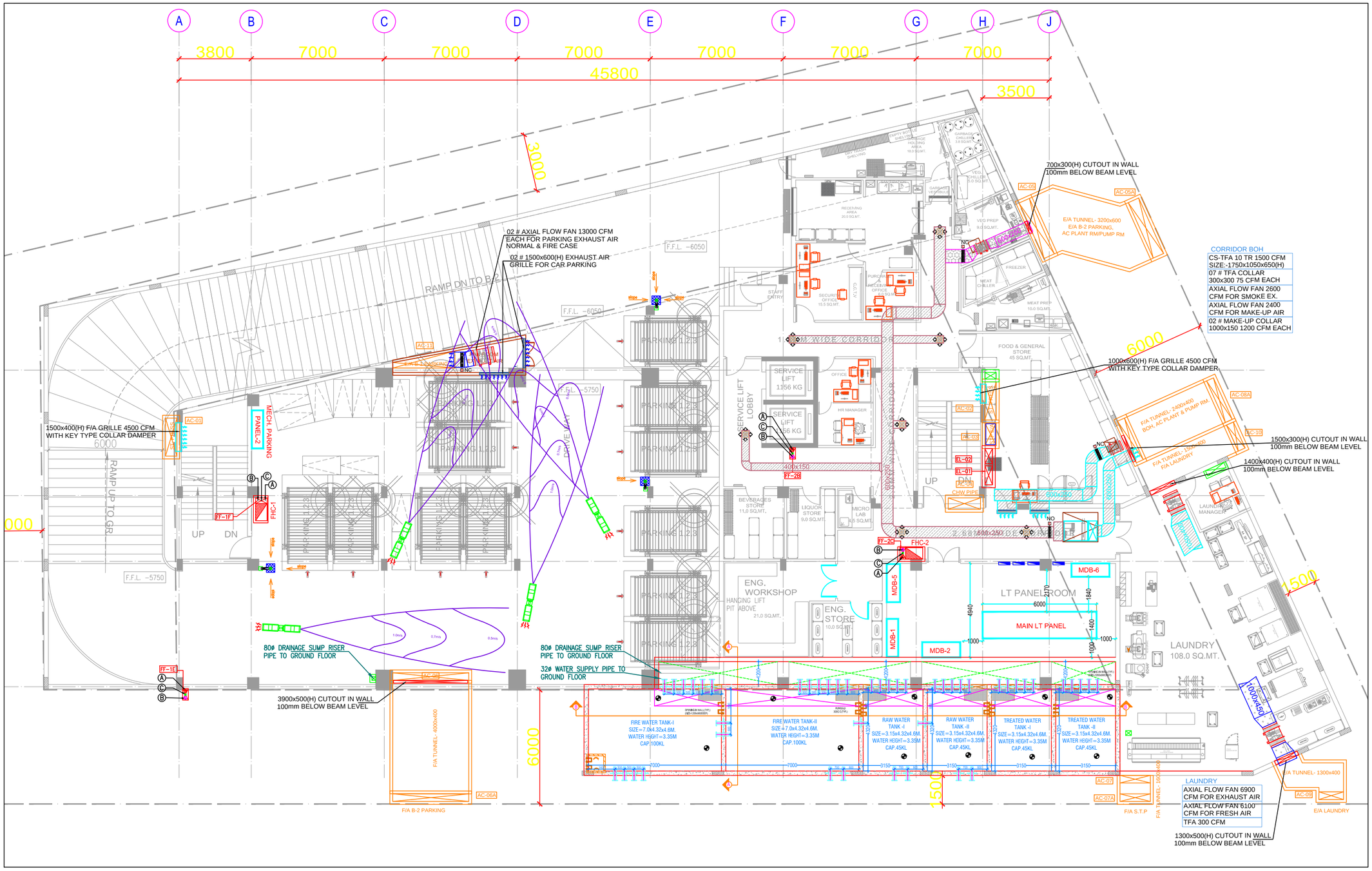
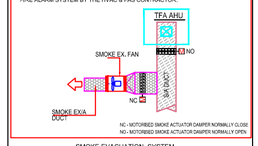


HVAC LEGENDS	
FLOOR MOUNT AHU / TFA	
CEILING SUPS. AHU / TFA	
AXIAL FLOW FAN	
TFA DUCT	
FRESH AIR DUCT	
EXHAUST AIR DUCT	
SMOKE EX. AIR DUCT	
FRESH AIR GRILLE	
EXHAUST AIR GRILLE	
FRESH/EXHAUST AIR LOUVER	
VOLUME CONTROL DAMPER	
MOTORIZED FIRE DAMPER (NC)	
MOTORIZED FIRE DAMPER (NO)	

SMOKE EVACUATION SYSTEM FOR CORRIDOR

GUEST CORRIDORS SHALL BE PROVIDED WITH SMOKE EVACUATION SYSTEM @ 12 ACPH. THE SMOKE EVACUATION DUCT SHALL BE CONNECTED TO THE SUPPLY AIR DUCT BEYOND THE SMOKE DAMPER INSTALLED. THE SMOKE EVACUATION DUCT SHALL BE PROVIDED WITH MOTORIZED SMOKE ACTUATOR DAMPER AT SUCTION SIDE WHICH SHALL BE IN NORMALLY CLOSED(NC) POSITION IN CASE OF FIRE. THE MOTORIZED DAMPER AT SUPPLY AIR DUCT AT INDOOR UNIT WILL CLOSE. THE NORMALLY CLOSED DAMPER (NC) AT SUCTION SIDE OF SMOKE EVACUATION DUCT WILL OPEN AND THE INSTALLED FAN WILL START DISCHARGING THE SMOKE THROUGH SMOKE EVACUATION DUCT TO OUTDOORS.

UPON SENSING SMOKE BY ANY DETECTOR ON THE GUEST FLOOR, THE TFA AHU WILL SHUT OFF. MOTORIZED DAMPER AT AHU FAN OUTLET SHALL CLOSE, MOTORIZED DAMPER AT SUPPLY AIR AXIAL FAN ON ROOF TOP WILL OPEN TRIGGERING THE AXIAL FLOW FAN WHICH WILL START SUPPLYING MAKE-UP AIR AT EVERY FLOOR THROUGH THE SUPPLY AIR DUCT. FIRE DAMPER SHALL BE HOOKED UP WITH THE CONTROL PANEL OF AHUs & AXIAL FAN THROUGH THE FIRE ALARM SYSTEM BY THE HVAC & FAS CONTRACTOR.



SMOKE EVACUATION SYSTEM
(BASEMENT CORRIDOR)

NO. OF PRINTS	ISSUED TO	DATE

S.N.	DATE	DETAILS
REVISIONS		

PROJECT TITLE:

PROPOSED SAROVAR HOTEL
AT ALWAR, RAJASTHAN

CLIENT/DEVELOPER:

ARCHITECTS:-

ASA A SHARMA ASSOCIATES
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New Delhi-110065 (INDIA)
Tel.: 011-43042523, 43052523

STAGE

SUBMISSION

DRAWING TITLE

FIRST BASEMENT PLAN
HVAC LAYOUT

Designed	Approved	
Avtar	V.K.	
Scale	Date	Rev. No.
1:100@A1	11.11.2021	R-0
Drawing No.		NORTH
CTOC.AC-02		N

ARCHITECT SIG.

OWNER SIG.

MEP CONSULTANTS SIG.