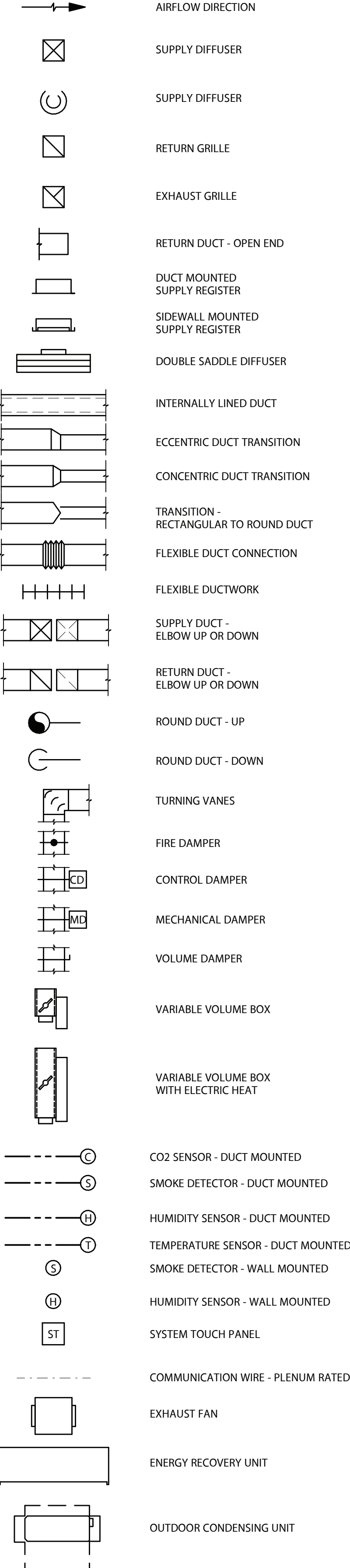


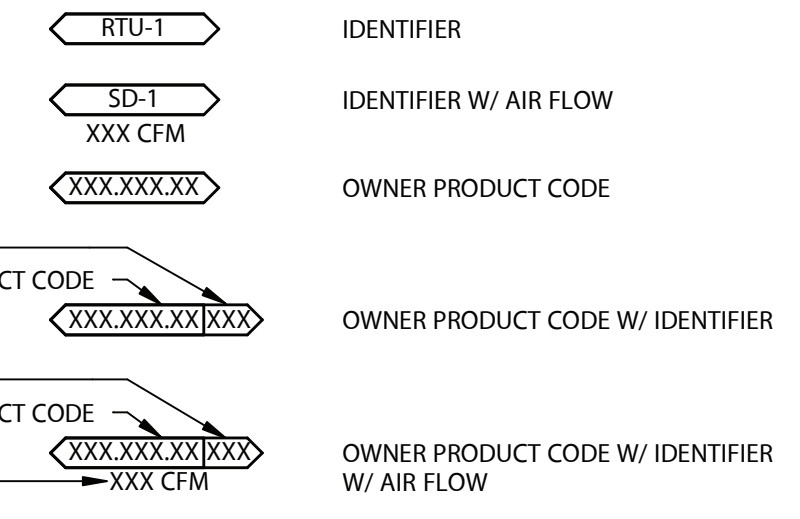
MECHANICAL ABBREVIATIONS

AABC	AMERICAN AIR BALANCE COUNCIL
AC	AIR CONDITIONING UNIT
ABV	ABOVE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
BC	BRANCH CONTROLLER
BDD	BACK DRAFT DAMPERS
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CSTD	COMBINATION FIRE/SMOKE DAMPER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB, DECIBEL
DEG	DEGREE
DISCH	DISCHARGE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRIC
EQUIV	EQUIVALENT
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FAHRENHEIT
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
FLD	FLEXIBLE DUCT
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
G	GAS
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HTR	HEATER
HWS	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IDU	INDOOR UNIT
IN	INCH
KW	KILOWATT
LB	POUND
LF	LINEAR FEET
LN DIFF	LINEAR DIFFUSER
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MC	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MFR	MANUFACTURER
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTR	MOTOR
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NC	NORMALLY CLOSED
NO	NOISE CRITERIA
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
OBD	OPPOSED BLADE DAMPER
ODU	OUTDOOR UNIT
OSA	OUTDOOR AIR
PD	PRESSURE DROP
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REX	REMOVE EXISTING
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SCH	SCHEDULE
SENS	SENSIBLE
SF	SUPPLY FAN, SQUARE FOOT
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SMD	SHEET METAL DUCT
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
U/C	UNDERCUT
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THROUGH ROOF
VVD	VARIABLE VOLUME DAMPER
WB	WET BULB
WC	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WMS	WIRE MESH SCREEN

MECHANICAL SYMBOLS



EQUIPMENT INDICATOR



EXISTING EXHAUST FAN SCHEDULE

EQUIPMENT INDICATOR		SERVICE	MANUFACTURER	MODEL	AIRFLOW DATA			UNIT CHARACTERISTICS				
OWNER PRODUCT CODE	IDENTIFIER				AIR FLOW	ESP	MOTOR (W)	VOLTAGE	PHASE	FREQUENCY	OPERATING WEIGHT	NOTES/ACCESSORIES
EX EF-1		RESTROOM	LOREN COOK	GN-620	500 CFM	0.375"	245	120 V	1	60 Hz	35 lb	1-2

NOTES/ACCESSORIES:
 1. EXISTING TO REMAIN (SCHEDULED FOR REFERENCE ONLY)
 2. RE-BALANCE TO CFM INDICATED

AIR TERMINAL SCHEDULE

EQUIPMENT INDICATOR		MANUFACTURER	MODEL	SIZE		MOUNTING		MATERIAL		FINISH	AIRFLOW DIRECTION	DAMPER	BORDER STYLE	NOISE CRITERIA	QUANTITY	REMARKS
OWNER PRODUCT CODE	IDENTIFIER			MOD	NECK	CEILING	OTHER	STEEL	ALUMINUM							
M.DF.GN.02	01	PRICE INDUSTRIES	SPD/SPD AS/ASPD SERIES	24" X 24"	8"	●	-	●	-	-	-	-	-	-	2	
M.GR.EXH.01	01	PRICE INDUSTRIES	10 SERIES	12" X 12"	10" X 10"	●	-	●	-	-	-	VCS3	-	-	4	RAPID MOUNT FRAME, SQUARE TO ROUND ADAPTER

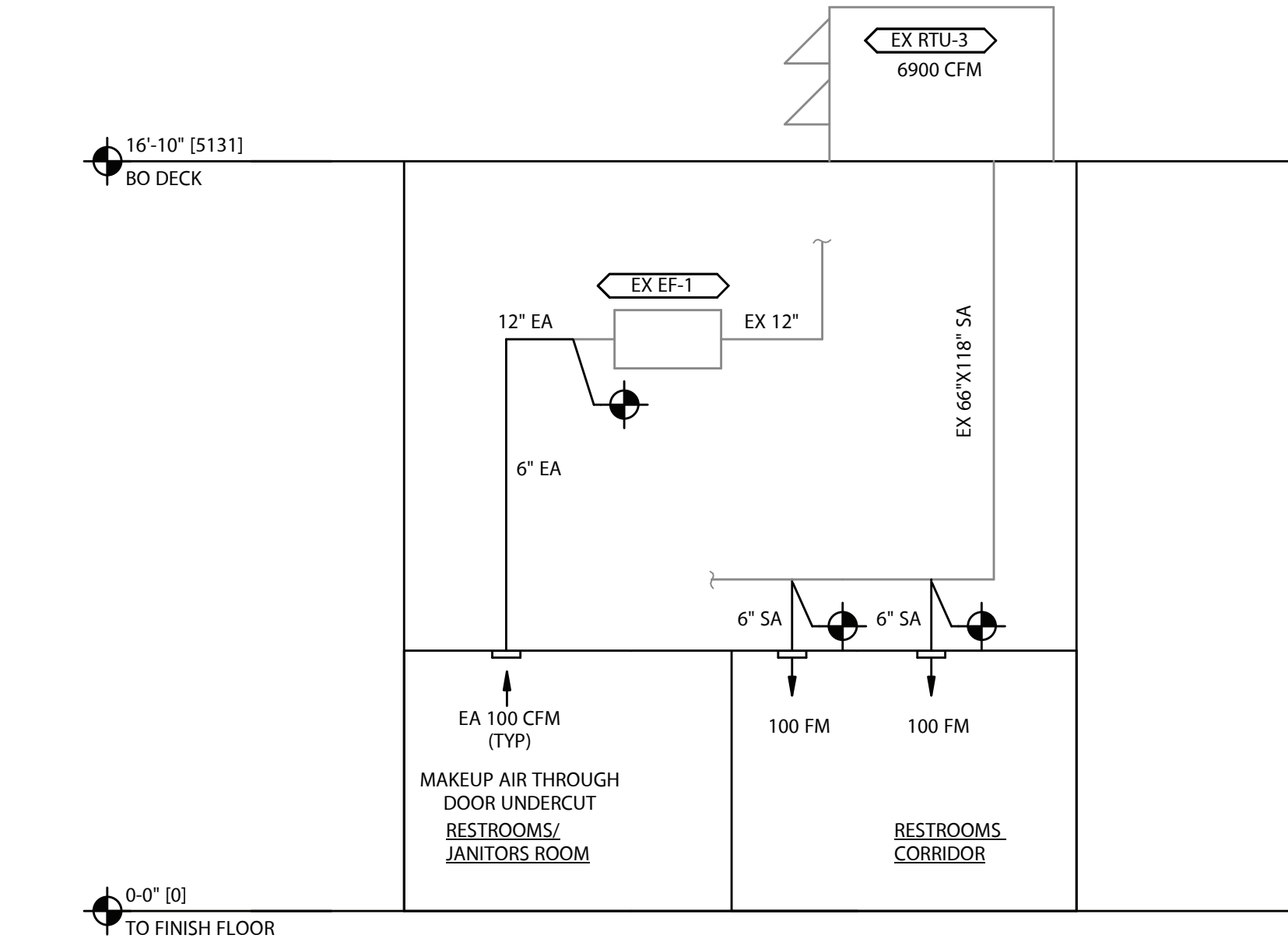
SYMBOLS KEY:
 AIRFLOW DIRECTION: A = AIRFLOW TOWARDS INLET, B = AIRFLOW AWAY FROM INLET
 FINISH: A = WHITE, B = BLACK, C = ALUMINUM
 DAMPER: A = OPPOSED BLADE, B = RADIAL OPPOSED BLADE, C = YOUNG'S REGULATOR DAMPER MODEL #5020-CC
 BORDER STYLE: A = SURFACE MOUNTED, B = T-BAR LAY-IN

RESPONSIBILITY SCHEDULE

REFER TO ARCHITECTURAL SHEETS FOR COMPLETE BREAKDOWN OF PROJECT RESPONSIBILITIES

GENERAL NOTES:

- ITEMS TAGGED WITH AN "OWNER PROJECT CODE" ARE STANDARD OWNER PRODUCTS AND SHALL NOT BE SUBSTITUTED. THE CODES MAY CONTAIN AN "IDENTIFIER SUFFIX" USED TO PROVIDE INFORMATION ABOUT SIZE, LOCATION OR OTHER CHARACTERISTICS OF AN OWNER SPECIFIC PRODUCT.
- ITEMS TAGGED ONLY WITH AN "IDENTIFIER" ARE NOT STANDARDIZED AND ARE SELETED APPROPRIATELY FOR THIS PROJECT BASED ON PROJECT CONDITIONS AND REQUIREMENTS PROVIDED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS. SUBSTITUTION REQUESTS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION. DRAWINGS INDICATE STANDARD REQUIREMENTS, ADDITIONAL REQUIREMENTS BY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS ARE PART OF THE CONTRACTORS WORK. THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS WITH NO INCREASE IN COSTS TO THE BUILDING OWNER.
- CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. THE CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE CONTRACT DOCUMENT SET WITH ALL OTHER TRADES FOR PROPER INSTALLATION OF WORK.
- BEFORE SELECTING MATERIALS AND/OR EQUIPMENT AND PROCEEDING WITH THE WORK, INSPECT ALL AREAS TO INSURE SUITABILITY, FIT, CLEARANCES, AND INTERCONNECTIONS.
- COORDINATE LOCATION AND ROUTING OF DUCTWORK AND PIPING TO MAINTAIN CEILING HEIGHT AS SHOWN ON REFLECTED CEILING PLAN, MAKE CHANGES IN DIRECTION AND FITTINGS TO MAINTAIN CLEARANCE ABOVE CEILING.
- FABRICATE AND INSTALL SUPPLY AND RETURN DUCTWORK IN PRE-MEASURED LENGTHS SO THAT DUCT FLANGES AND DUCT SUPPORTS CLEAR LIGHT FIXTURES AND STRUCTURAL SUPPORT STEEL TO MINIMIZE CLEARANCE REQUIREMENTS ABOVE CEILING SPACE. COORDINATE WORK WITH STRUCTURAL PLANS AND REFLECTED CEILING PLANS.
- PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCT AND BRANCH DUCT SERVING AN AIR INLET OR OUTLET INCLUSIVE OF THOSE NOT SHOWN ON PLANS. LOCATE DAMPER AS FAR AWAY FROM INLET/OUTLET AS POSSIBLE. DO NOT INSTALL DAMPERS AT OR INTEGRAL TO REGISTERS OR DIFFUSERS.
- ALLOW 6" MINIMUM CLEAR SPACE IN FRONT OF VOLUME DAMPER (VD) HANDLES IN CEILING PLENUMS AND MARK VD WITH AN IDENTIFIABLE FLAG.
- PROVIDE WIRE MESH SCREEN OVER ALL RETURN AND EXHAUST DUCT OPENINGS THAT ARE WITHOUT GRILLES.
- PROTECT AND FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS AS REQUIRED BY THE JURISDICTION. PERFORMANCE SHALL MATCH OR EXCEED THE RATING OF THE WALL AS NOTED BY THE ARCHITECTURAL DRAWINGS.
- CONTROLS CONTRACTOR TO PROVIDE BMS PANELS, COORDINATE LOCATIONS WITH DIVISION 26. REFER TO ELECTRICAL DRAWINGS FOR POWER CIRCUITING AND PROPOSED LOCATIONS.
- SUPPORT MECHANICAL EQUIPMENT INDEPENDENTLY FROM STRUCTURE, WHERE BUILDING RULES AND REGULATIONS DO NOT PERMIT ATTACHMENT TO METAL DECKS CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL BRACING AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AN INDOOR AIR QUALITY FLUSH-OUT PRIOR TO HAND-OVER AND SPACE OCCUPANCY. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE WITH APPLICABLE TRADES.



2 HVAC AIRFLOW SCHEMATIC
NOT TO SCALE



Apple Inc.
 One Apple Park Way
 Cupertino, CA
 95014

Architect:
 MBH Architects
 www.mbharch.com

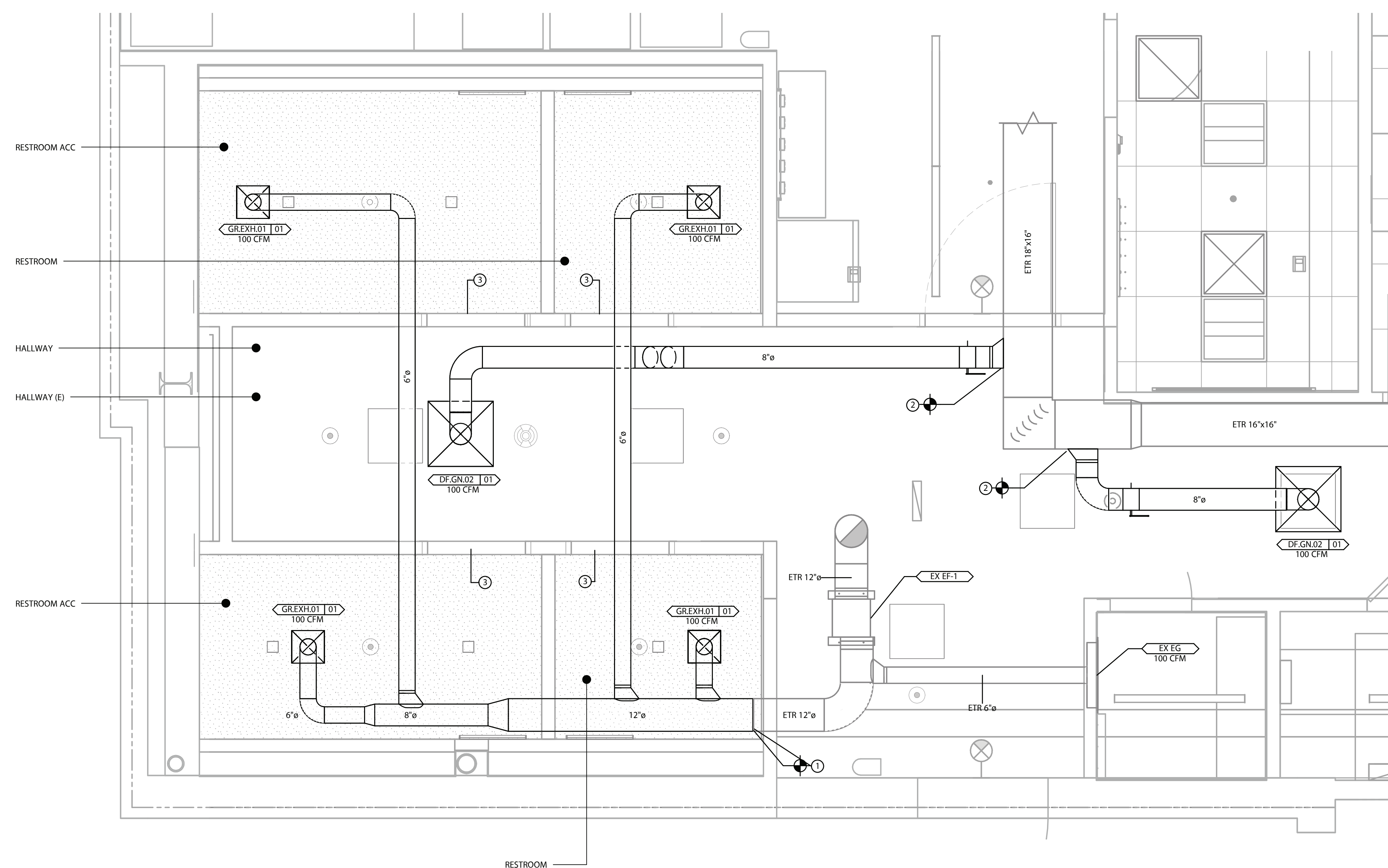
Consultant:
 TES Engineering
 www.tesengineering.com

Apple Store
 West Town Mall
 Nanuet, NY

Project Number:
 This set originated using
 Apple Imperial Bulletin 9
 Dated 04/16/2021
 Printed Full (30"x42"), Half (15"x21")

Issued/Revised Date
 90% CD SET 12/3/2021

MECHANICAL GENERAL
 NOTES, SCHEDULES,
 SYMBOLS & HVAC
 AIRFLOW SCHEMATIC



1 BACKSTAGE - MECHANICAL PLAN
1/2" = 1'-0"

SHEET NOTES

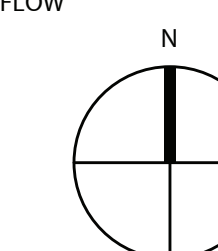
- LIMITED ABOVE CEILING CLEARANCES EXIST. COORDINATE LOCATION AND ELEVATIONS OF MECHANICAL WORK WITH ALL DUCTWORK, SPRINKLERS, LIGHT FIXTURES, AND OTHER CEILING BUILT-IN FIXTURES.

KEY NOTES

- CONNECT INTO EXISTING EXHAUST AIR DUCT MAIN.
- CONNECT TO EXISTING SUPPLY AIR DUCT.
- 3/4" UNDERCUT DOORS FOR TRANSFER AIR. REFER TO ARCHITECTURAL DRAWINGS.

SYMBOLS

- SUPPLY DIFFUSER
- CONCENTRIC DUCT TRANSITION
- EXHAUST GRILLE
- SUPPLY DUCT ELBOW UP OR DOWN
- RETURN DUCT ELBOW UP OR DOWN
- SERVICE CLEARANCES VAV BOX
- SUPPLY DIFFUSER WITH SECTORIZING BAFFLES - HATCHED QUADRANT INDICATES BLOCKED AIR FLOW



Apple Inc.
One Apple Park Way
Cupertino, CA
95014

Architect:
MBH Architects
www.mbharch.com

Consultant:
TES Engineering
www.tesengineering.com

Apple Store
West Town Mall
Nanuet, NY

Project Number:
This set originated using
Apple Imperial Bulletin 9
Dated 04/16/2021
Printed Full (30"x42"), Half (15"x21")

Issued/Revised Date
90% CD SET 12/3/2021

BACKSTAGE -
MECHANICAL PLAN

M-161