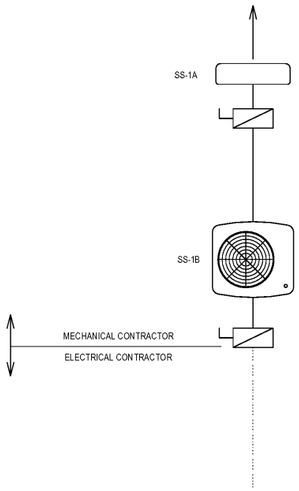
GRAPHIC SCALE 1"=1'-0"
GRAPHIC SCALE 1/8"=1'-0"
GRAPHIC SCALE 1/16"=1'-0"

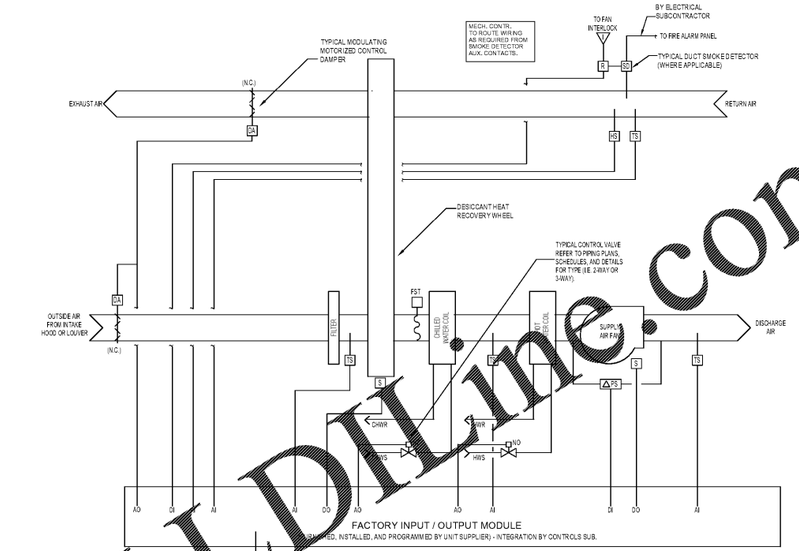


NOTE:
THE SPLIT SYSTEM A/C UNIT SPECIFIED ONLY REQUIRES A SINGLE BREAKER SPACE. THE INSIDE UNIT IS SUB-FED FROM THE OUTSIDE UNIT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING TO OUTSIDE UNIT. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR WIRING FROM OUTSIDE UNIT TO INDOOR UNIT. M.C. TO FURNISH BOTH DISCONNECTS.

4. SPLIT SYSTEM WIRING DIAGRAM — N.T.S.

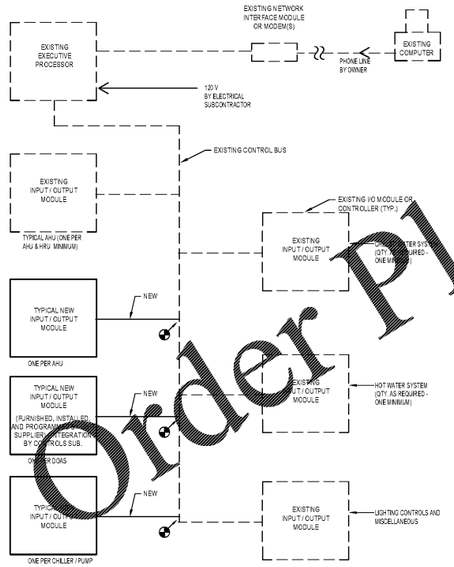
LEGEND	
DO	DIGITAL OUTPUT
DI	DIGITAL INPUT
DA	DAMPER ACTUATOR
HS	HUMIDITY SENSOR
TS	TEMPERATURE SENSOR
R	RELAY
AF	AIR FLOW SWITCH
SD	SMOKE DETECTOR - DUCT TYP. UNLESS NOTED OTHERWISE
DP △PS	DIFFERENTIAL PRESSURE SWITCH
S	STARTER
AI	ANALOG INPUT
AO	ANALOG OUTPUT
△	INTERLOCK WIRING
FST	MANUAL RESET FREEZESTAT
VFD	VARIABLE FREQUENCY DRIVE
SP	DUCT STATIC PRESSURE SENSOR
C	CARBON DIOXIDE SENSOR

NOTES:
1. DIAGRAMS ARE SCHEMATIC ONLY! CONTRACTOR TO REFER TO SPECIFICATIONS FOR EXACT CONTROL SEQUENCE. CONTRACTOR RESPONSIBLE FOR FURNISHING ALL HARDWARE, EQUIPMENT, WIRING, ETC. NECESSARY FOR A COMPLETE CONTROL SYSTEM - WHETHER SHOWN ON DRAWINGS OR NOT.
2. THIS DIAGRAM IS SCHEMATIC ONLY! NOT ALL CONTROL POINTS HAVE BEEN SHOWN ON THIS DIAGRAM. CONTRACTOR RESPONSIBLE FOR PROVIDING POINTS AS REQUIRED PER INDIVIDUAL CONTROL DIAGRAMS AND SPECIFICATIONS, TO PROVIDE A COMPLETE CONTROL SYSTEM.
3. ALL SPACE TEMPERATURE SENSORS LOCATED IN COMMON AREAS - CORRIDORS, LOBBIES, AND TOILETS, TO BE PROVIDED WITH CLEAR, LOCKING LEXAN COVERS.
4. AMP PROBES MAY BE SUBSTITUTED FOR DIFFERENTIAL PRESSURE SWITCHES FOR FAN / PUMP STATUS IF DESIRED.
5. ALTERNATE #4 - CONTROLS TO BE BY SCHNEIDER ELECTRIC (ONLY)
6. ALL DHW AND HW COILS TO RECEIVE 2-WAY VALVES EXCEPT FOR THE MOST REMOTE 6 UNITS (AT THE END OF BRANCH RUNS). THESE UNITS TO RECEIVE 3-WAY VALVES ON DHW AND HW COILS. SEE PLANS FOR UNIT LOCATIONS.



NOTES:
1. DETAIL TYPICAL FOR DEDICATED OUTDOOR AIR SYSTEMS
2. DOAS UNITS TO BE FURNISHED WITH INTEGRAL FACTORY INSTALLED AND PROGRAMMED CONTROLLERS. ALL CONTROLS TO BE FULLY INTEGRATED TO BUILDING EMS FOR FULL MONITORING, ACCESS, SETPOINT, AND SCHEDULE ADJUSTMENT, ETC.

3. TYPICAL DOAS UNIT CONTROL DIAGRAM — N.T.S.



ALTERNATE #4 - CONTROLS TO BE BY SCHNEIDER ELECTRIC TO MATCH EXISTING. FIELD VERIFY EXISTING CONTROLS PRIOR TO BIDDING AND SUBMITTALS.

2. EMS / DDC SYSTEM BLOCK DIAGRAM — N.T.S.

LEGEND	
DO	DIGITAL OUTPUT
DI	DIGITAL INPUT
DA	DAMPER ACTUATOR
HS	HUMIDITY SENSOR
TS	TEMPERATURE SENSOR
R	RELAY
AF	AIR FLOW SWITCH
SD	SMOKE DETECTOR - DUCT TYP. UNLESS NOTED OTHERWISE
DP △PS	DIFFERENTIAL PRESSURE SWITCH
S	STARTER
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NOTES:
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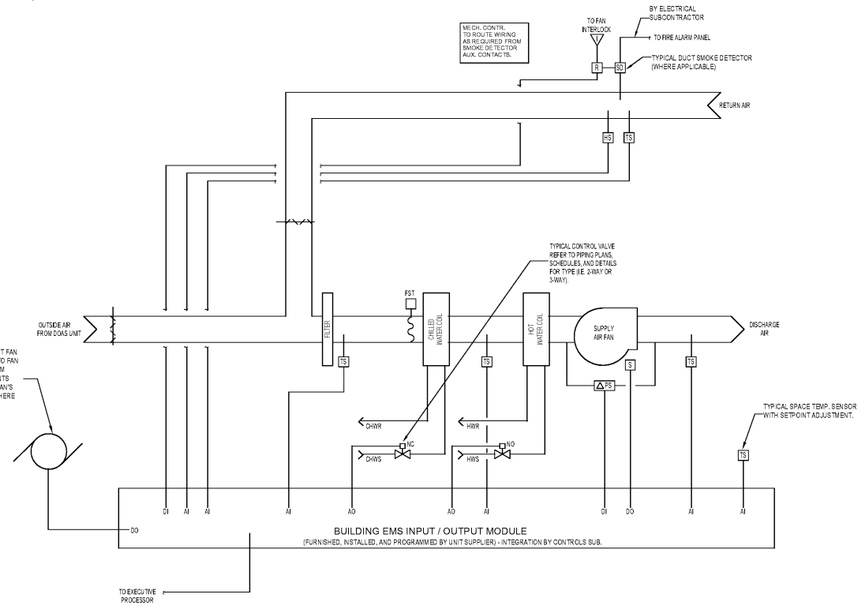

NOTE:
1. DETAIL TYPICAL FOR AIR HANDLING UNITS

1. TYPICAL AHU CONTROL DIAGRAM — N.T.S.

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DJM	MRM

Mechanical Details

sheet
M4.2

project no. 1716

date 4/25/19

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