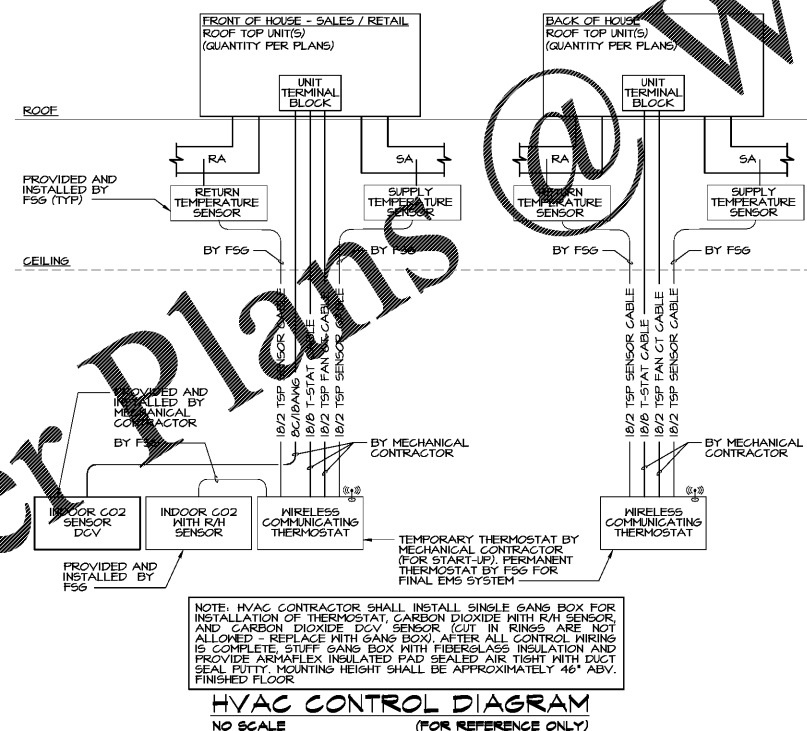
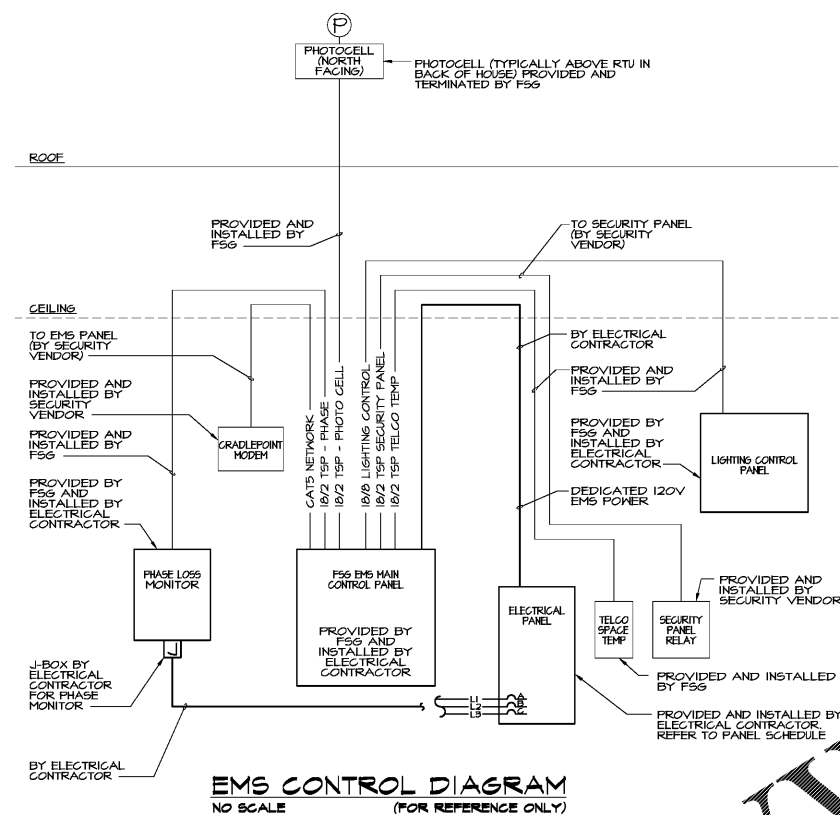




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SCOPE	MECHANICAL	SECURITY	ELECTRICAL	F56	PREREQUISITE TO EMS INSTALL
PROVIDE BUILDING PERMANENT POWER					
PROVIDE 120V FOR EMS POWER					
INSTALL EMS PANEL, LIGHTING CONTROL PANEL AND PHASELOSS,					
INSTALL AND TERMINATE LIGHTING SWITCH LEGS					
COMPLETE INSTALLATION OF ANY NEW HVAC EQUIPMENT					
FIELD VERIFY ALL EXISTING HVAC EQUIPMENT, INCLUDING ALL ACCESSORIES, FOR PROPER OPERATION					
PROVIDE CORRECT CONTROL WIRING TO THERMOSTAT, AND DCV CARBON DIOXIDE SENSOR					
PROVIDE/INSTALL CARBON DIOXIDE SENSOR DCV AND INSTALL TEMPORARY THERMOSTATS FOR HVAC STARTUP					
COMPLETE UNIT START-UP PROCEDURES OF ALL HVAC EQUIPMENT, INCLUDING ALL ACCESSORIES, FOR PROPER OPERATION					
PROVIDE EMS PANEL, LIGHTING CONTROL PANEL LV, AND PHASELOSS					
PROVIDE AND INSTALL SUPPLY AND RETURN AIR DUCT TEMPERATURE SENSORS WITH CONTROL WIRING					
PROVIDE AND INSTALL TELCO ROOM SENSOR					
PROVIDE AND INSTALL PHOTOCELL AND INTERIOR CO2 WITH R/H SENSOR					
PROVIDE AND INSTALL ALL SECURITY COMPONENTS INCLUDING CRADLEPOINT 4G ROUTER AND SECURITY RELAY					
CONNECT WIRE FROM SECURITY RELAY TO EMS					
CONNECT AND TERMINATE WIRELESS THERMOSTATS, FAN STATUS CT, AND CO2 WITH R/H SENSOR					
CONNECT TO CRADLEPOINT ROUTER VIA CAT5					
CONNECT AND TERMINATE RELAYS TO CONTROL LIGHTING CONTACTORS					
TEST FOR COMPLETE AND PROPER EMS SYSTEM OPERATION					

GENERAL NOTES:

- ENERGY MANAGEMENT SYSTEM (EMS) SHALL BE COMMISSIONED BY F56 SMART BUILDINGS.
- ALL COMPONENTS AND LOW VOLTAGE WIRING FOR THE EMS SYSTEM SHALL BE PROVIDED AND INSTALLED BY F56 SMART BUILDINGS UNLESS OTHERWISE NOTED. REFER TO DETAIL ON THIS SHEET.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS AND ASSOCIATED WIRING AS NOTED ON LIGHTING/POWER PLANS AND EMS DETAILS SHEET.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ASSOCIATED SYSTEM WIRING WITH EMS VENDOR PRIOR TO CLOSING UP HALLS.

EMS Cable
18/8 TSP - WINDYCITY #002352-S or equal
18/4 TSP - WINDYCITY #002340-S or equal
18/2 TSP - WINDYCITY # 002320-S or equal

EMS DETAILS FOR REFERENCE INFORMATION ONLY

EMS DETAILS BASED ON F56 SMART BUILDINGS TEMPLATE DRAWINGS. CONTRACTOR SHALL REQUEST COMPLETE SET OF ENERGY MANAGEMENT SYSTEM (EMS) DRAWINGS THROUGH VERIZON PROJECT MANAGER AND CONTACT EQUIPMENT MANUFACTURER ENGINEERING TEAM FOR TECHNICAL SUPPORT AS REQUIRED.

F56 SMART BUILDINGS
VERIZON SUPPORT
512-695-6100

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FILE	DRAWN	ISSUED
20013J	CBH	06/19/2020

SHEET TITLE
EMS Details

SHEET NUMBER

93.02

Bid/Permit Documents