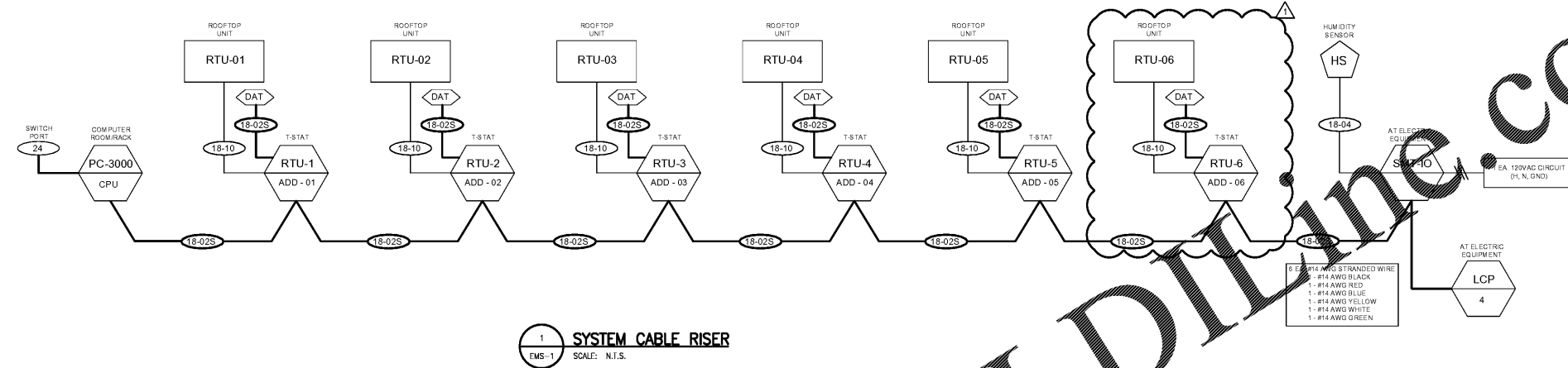


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Rev. No.	Description	Date
▲	ISSUED FOR BID AND PERMIT	03/29/19
▲	ISSUED FOR BID	05/30/19
▲	RE-ISSUED FOR BID AND PERMIT	10/18/20



1 SYSTEM CABLE RISER
EMS-1 SCALE: N.T.S.

GENERAL NOTES:
1. CMS MECHANICAL IS THE DESIGNATED VENDOR OF CHOICE FOR THE "CLIENT" ENERGY MANAGEMENT SYSTEM. EMS WILL BE FURNISHED AND INSTALLED BY CMS. FOR QUOTES OR OTHER INFORMATION PLEASE CONTACT:
CMS MECHANICAL SERVICE
(321) 473-1759
SUPPORT@CLIENTSIS.COM

2. ELECTRICAL CONTRACTOR AND MECHANICAL CONTRACTOR SHALL HAVE ALL RESPECTIVE TRADE WORK / SYSTEMS COMPLETE AND FULLY OPERATIONAL PRIOR TO CMS MECHANICAL ARRIVAL TO PROJECT SITE. CMS MECHANICAL TYPICALLY IS SCHEDULED BY THE GENERAL CONTRACTOR / TO ARRIVE JUST PRIOR TO SCHEDULED CONSTRUCTION COMPLETION DATE. E.C. AND M.C. SHALL VERIFY CMS MECHANICAL'S EXACT SCHEDULED ARRIVAL DATE WITH THE GENERAL CONTRACTOR.
3. ALL NETWORK EQUIPMENT AND CONNECTIVITY TO NIT CORPORATE FACILITY SHALL BE COMPLETE PRIOR TO CMS COMPLETING THE CLIENT SYSTEM INSTALLATION.
4. SEE SPECIFIC PROJECT PLANS FOR EXACT QUANTITY OF RTUS.

ELECTRICAL CONTRACTOR (E.C.):
1. E.C. SHALL COMPLETE ALL WORK ASSOCIATED WITH "CLIENT" ENERGY MANAGEMENT SYSTEM IN A NEAT AND WORKMANLIKE MANNER. ALL WORK SHALL COMPLY WITH LOCAL AND NATIONAL CODES GOVERNING WORK PERFORMED.
2. E.C. SHALL PROVIDE ALL CONDUIT, JUNCTION BOXES, MUD RINGS, HIGH VOLTAGE WIRE, ETC. REQUIRED FOR A COMPLETE SYSTEM INSTALLATION.
3. THE MINIMUM SIZE CONDUIT USED SHALL BE 3/4" EMT. ALL MOUNTING BOXES FOR THERMOSTATS SHALL BE 4" SQUARE BOX WITH A SINGLE GANG MUD RING. REFER TO MECHANICAL SHEETS FOR LOCATIONS AND MOUNTING HEIGHTS.
4. E.C. SHALL INSTALL ALL THERMOSTAT CABLE AND LOW VOLTAGE CABLE AS SHOWN ON THE DRAWINGS. REFER TO MECHANICAL SHEET FOR THERMOSTAT LOCATIONS. DASTY CHAINING OF LOW VOLTAGE WIRING WORK IS TO OCCUR IN SEQUENCE (i.e. RTU1, RTU2, RTU3, etc.) CMS SHALL PROVIDE ALL LOW VOLTAGE CABLE FOR THE SYSTEM INSTALLATION.
5. CMS MECHANICAL HIRED BY G.C. SHALL PROVIDE THE LIGHTING CONTROL PANEL (LCP) COMPLETE WITH INTEGRAL / PRE-MOUNTED LIGHTING CONTACTORS. E.C. SHALL INSTALL THE LIGHTING CONTROL PANEL (LCP), INCLUDING LINE / LOAD WIRING CONNECTIONS. TERMINATIONS TO / WITHIN THE LCP AS DIRECTED BY CMS MECHANICAL CONTRACTOR SHALL PROVIDE ONE (1) 120V/20A CIRCUIT TO THE LIGHTING CONTROL PANEL (LCP).
6. UPON RECEIPT / NOTICE BY ELECTRICAL CONTRACTOR TO CMS MECHANICAL, CMS MECHANICAL SHALL SHIP SYSTEM COMPONENTS (i.e. LOW VOLTAGE WIRING / LIGHTING CONTROL PANEL (LCP), etc.) TO THE ELECTRICAL CONTRACTOR IMMEDIATELY. INSTALLATION PER THE PROJECT'S SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR INVENTORYING, SECURING / STORAGE OF RECEIVED MATERIALS. WHEN RECEIVED, CONTRACTOR SHALL PAY FOR ANY DAMAGED OR MISSING MATERIALS. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR REPLACING, DAMAGING OR LOST EQUIPMENT / MATERIALS SHIPPED.
7. CONTRACTOR SHALL HAVE A QUALIFIED TECHNICIAN ON-SITE WHEN CMS IS INSTALLING/COMMISSIONING CLIENT SYSTEM TO CORRECT ANY DEFICIENCIES.

MECHANICAL CONTRACTOR (M.C.):
1. M.C. SHALL HAVE ALL RTUS / HVAC SYSTEMS COMPLETE, TESTED AND CAPABLE OF COMPLETE / FULL OPERATION PRIOR TO CMS MECHANICAL ARRIVAL. M.C. SHALL VERIFY/ COORDINATE WITH THE GENERAL CONTRACTOR REGARDING DATE OF CMS MECHANICAL ARRIVAL TO THE PROJECT. UPON ARRIVAL, CMS MECHANICAL SHALL MAKE ALL NECESSARY FINAL CONNECTIONS, ETC. FOR COMPLETION / OPERATION OF THE "CLIENT" ENERGY MANAGEMENT SYSTEM UPON ARRIVAL.
2. M.C. SHALL PROVIDE AND INSTALL ANY TEMPORARY THERMOSTATS FOR HVAC DURING THE CONSTRUCTION PHASE FOR HEATING/COOLING PRIOR TO CLIENT SYSTEM INSTALLATION. CLIENT THERMOSTATS SHALL NOT BE USED FOR TEMPORARY CONTROL OF HVAC EQUIPMENT.
3. M.C. SHALL PROVIDE AND INSTALL ANY REQUIRED INTERFACES, BOARDS, AND/OR PROVIDE WIRING IN ORDER THAT ALL HVAC EQUIPMENT CAN BE OPERATED WITH A "STANDARD" 24VAC THERMOSTAT CONSISTING OF NOT LESS THAN R.G.Y, Y, W, W1 & WIRING TERMINALS.
4. M.C. SHALL HAVE A QUALIFIED TECHNICIAN ON-SITE WHEN CMS IS INSTALLING/COMMISSIONING CLIENT SYSTEM TO CORRECT ANY DEFICIENCIES.

CONTROLS CONTRACTOR (C.C.) HIRED BY G.C.:
1. C.C. FOR NORTHERN TOOL + EQUIPMENT SHALL BE CMS MECHANICAL SERVICE COMPANY.
2. CMS SHALL PROVIDE, INSTALL AND PROGRAM ALL PERMANENT "CLIENT" THERM. C.C. SHALL PROVIDE AND DELIVER TO NIT CLIENT SYSTEM PROGRAMMING AND SOFTWARE TO COMPLY WITH ESTABLISHED SEQUENCE OF OPERATION.
3. C.C. PROVIDES INDICATED TYPES OF LOW VOLTAGE WIRE. E.C. INSTALLS. SEE EMS-1 SCHEMATIC AND ELECTRICAL CONTRACTOR NOTES FOR FURTHER DETAILS.
4. C.C. PROVIDES INDICATED LIGHTING CONTROL PANEL (LCP) WITH INTEGRAL LIGHTING CONTACTORS. E.C. INSTALLS. SEE EMS-1 SCHEMATIC AND ELECTRICAL CONTRACTOR NOTES / FURTHER DETAILS.
5. C.C. PROVIDES HUMIDITY SENSORS. E.C. INSTALLS PER (1) 120V / WIRE / SENSOR.

DEVICE ID	DESCRIPTION	PART #	PROVIDED BY	INSTALLED BY	NOTES
PC-3000	Client™ CPU	CLIENT-PC3000	CMS/Nextech	CMS/Nextech	PC3000 equipment typically installed in NTE server cage located within offices.
18-02S	18-02 Shield Cable, Plenum	18-02C PLUJ WHT	CMS/Nextech	Electrical Contractor	Route exactly as shown. Runs in bar joint square with building and wire led as required.
18-04	18-04 Non-Shielded Cable	18-04C NS FLUJ WHT	CMS/Nextech	Electrical Contractor	Route from Client I/O Panel at electrical switchgear to humidity sensor on center sales floor column.
18-10	18-10 TSTAT Cable PVC	18-10C TSTAT BRO PVC	CMS/Nextech	Electrical Contractor	Route from thermostat location to rooftop unit control section where thermostat connections are located. Leave enough slack to route/connect conductors.
RTU-01-06	Client™ Thermostat	T32P-CLIENT	CMS/Nextech	CMS/Nextech	Mount at 8" A.F.F. on sales area columns as shown on Mechanical sheets. Install 4" square box with 12" rise - 1 gang mud ring in horizontal orientation. Sub: 3/4" E.M.T. to bar joint level.
DAT	Client™ Thermostat	Discharge Air Sensor	CMS/Nextech	CMS/Nextech	Pull 18-02S cable to supply duct and coil up 15 ft. for use by CMS/Nextech installation.
HS	Humidity Sensor	HEW2V5X	CMS/Nextech	CMS/Nextech	Mount at 8" A.F.F. on sales area columns as shown on Mechanical sheets. Install 4" square box with 12" rise - 1 gang mud ring in horizontal orientation. Sub: 3/4" E.M.T. to bar joint level.
INT-I/O	Client™ I/O Panel	CLIENT-IO-NTE	CMS/Nextech	CMS/Nextech	Field installed by CMS/Nextech. Physical dimensions are 15 1/2" x 14 1/2" x 3 1/2". Requires one (1) 120V 15 amp circuit for power provided by the electrical contractor.
LCP	Client™ Lighting Control Panel	CLIENT-LCP4	CMS/Nextech	Electrical Contractor	Lighting Control Panel includes: 4 N.C. - 4 Pole lighting contactors, 2 ea. for Sales/Warehouse lights, 1 ea. for Signs and 1 ea. for Wall Pack Lights. Requires conductors by electrical contractor to SMT-IG Panel (3 colors and 1 neutral). Electrical contractor to connect all line/load circuit connections.

Order Plans @

Salem Gate Market

NORTHERN TOOL + EQUIPMENT



ANCHOR 2B
1454 OLD SALEM ROAD
CONYERS, GEORGIA

EMS SPECIFICATIONS & DETAILS

Date:	03/29/19	Drawn by:	AK	Sheet No.:	EMS-1
Project No.:	18.112	Rev.:	AR		

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