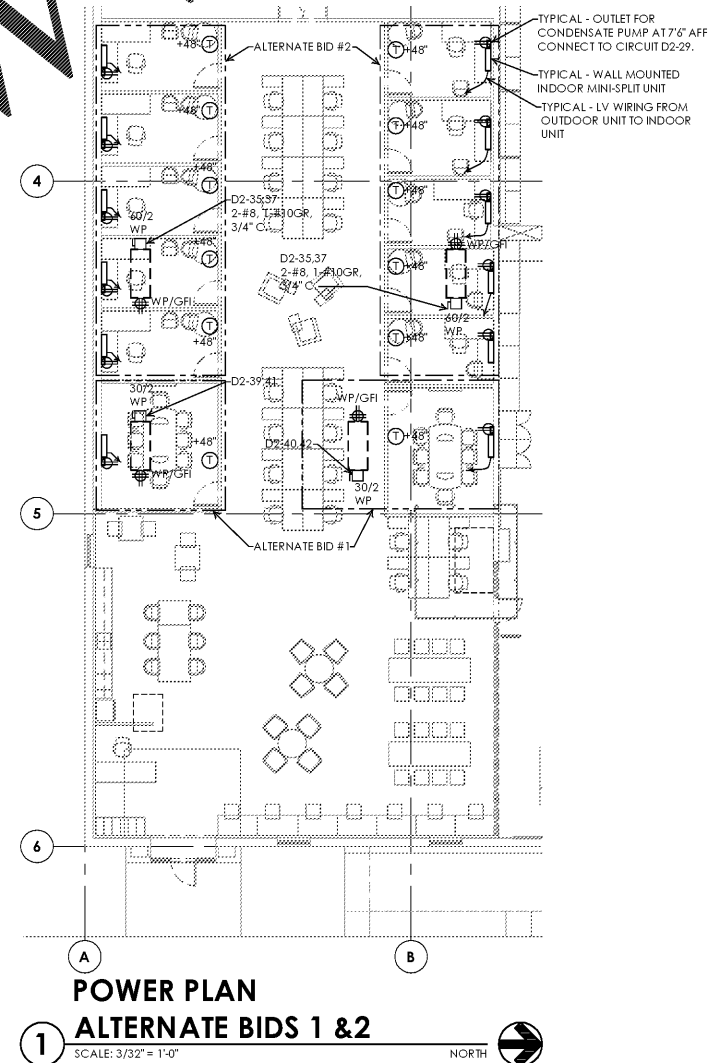


LEGEND

SYMBOL	DESCRIPTION	HEIGHT
—	HOME RUN	
—	HARD WIRED CIRCUITING	
—	CONDUIT RISE/DROP	
—	PANEL BOARD	TOP @ 6'-6"
—	TRANSFORMER	FLOOR
—	JUNCTION BOX (JBOX)	
—	DUPLEX RECEPTACLE, WHITE, 5-20R —: HUBBELL #HBL532W USB: USB - HUBBELL #USB20X2W WP: WITH WEATHER PROOF COVER SW: SWITCHED RECEPTACLE CONTROLLED BY EMS, PROVIDE LABEL STATING 'SWITCHED BY EMS' BLK: PROVIDE BLACK OUTLET & COVER PLATE	+18"
—	DUPLEX GFCI RECEPTACLE, WHITE, 5-20R —: HUBBELL #GFR532WTR	+18"
—	QUADPLEX RECEPTACLE —: (2) DUPLEX RECEPTACLES SW: DUAL CIRCUIT RECEPTACLE WITH ONE DUPLEX SWITCHED	+18"
—	MANUAL TOGGLE SWITCH, 277/120V, WHITE —: HUBBELL #1221W M: MOTOR - HUBBELL #HBL7832D	+48"
—	LOW VOLTAGE WIRING, #14 AWG UNO	
—	BELL: 24V, BRASS, 8W —: EDWARDS #432-G5	9'-0" AFF 12" B50
—	PUSHBUTTON: 24V, N/O, 6W —: EDWARDS #1784C-8 M: MULLION - EDWARDS #620	
—	DOOR BUZZER: 24V, 6W, LOUVERED COVER PLATE —: EDWARDS #1065-G5	9'-0" AFF 12" BFC
—	LV TRANSFORMER: 120/24VAC —: 45VA - EDWARDS #599	9'-0" AFF 6" AFC

SYMBOL	DESCRIPTION	HEIGHT
—	TEMPERATURE SENSOR: PROVIDE JBOX WITH 1/2" CONDUIT TO JOIST SPACE OR 6" AFC & 18 GA/2C SHIELDED CABLE TO RTU, REUSE EXISTING WHERE POSSIBLE.	+72"
—	FIRE ALARM AUDIO - VISUAL DEVICE	
—	CO2 SENSOR: PROVIDE JBOX WITH 1/2" CONDUIT TO JOIST SPACE OR 6" AFC.	+72"
—	DATA PORT: PROVIDE JBOX & 3/4" EMT WITH PULL WIRE TO 12" AFC OR INTO JOISTSPACE	+18"
—	CASEWORK PORT: PROVIDE JBOX IN CASEWORK	
—	TELEVISION OUTLET: PROVIDE JBOX & 3/4" EMT WITH PULL WIRE TO 12" AFC OR INTO JOISTSPACE	
—	WIRELESS ACCESS POINT: PROVIDE STEM MOUNTED JBOX FROM JOIST WITH 3/4" CONDUIT, SWIVEL MOUNT & PULL WIRE TO 12" AFC OR INTO JOISTSPACE	+13'-6"
—	PLUG & PLAY BOX WITH (2) STANDARD POWER CONNECTORS	101
—	SWITCHED PLUG & PLAY BOX, SWITCHED BY EMPLOYEE EMPLOYEE LEVEL.	4/E401
—	PLUG & PLAY BOX WITH (2) STANDARD POWER CONNECTORS CONNECTED TO SEPARATE 208V SINGLE PHASE CIRCUIT	4/E401
—	IN-RACK LIGHTING PLUG & PLAY BOX WITH (2) POWER CONNECTORS, SWITCHED BY EMS ON CUSTOMER LEVEL.	4/E401
—	FLOOR BOX, FLUSH, 18 GA SHIELDED LV CABLE TO NICKEL COATED FLOOR, LEAVE RECEPTACLES, DATA OUTLET, A/V CONNECTIONS, PROVIDE ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. A: 4-GANG BOX WITH 4 DUPLEX RECEPTACLES, 4 CAT6 JACKS & 1 GROUND FOR A/V CONNECTORS BY OWNER, BOX ASS-OG-4-COVER 'EB45CTNK'. GANG BOX WITH 4 DUPLEX RECEPTACLES & 8 CAT6 JACKS, BOX 'EB85-OG' & COVER 'EBF610CTNK'. GANG BOX WITH 5 DUPLEX RECEPTACLES & 10 CAT6 JACKS, BOX 'EB85-OG' & COVER 'EBF610CTNK'.	

ALTERNATE BID #1 - CO-OP MINI-SPLITS FOR CONFERENCE ROOMS
ALTERNATE BID #2 - CO-OP MINI-SPLITS FOR OFFICES
PROVIDE 120V TO MINI-SPLIT CONDENSING UNITS ON ROOF, WITH LOCAL DISCONNECT SWITCHES & VENT OUTLET
PROVIDE LV POWER FROM CONDENSING UNITS TO WALL MOUNTED INDOOR UNITS.
PROVIDE OUTLETS NEAR INDOOR UNITS FOR CONDENSATE PUMPS. PROVIDE J-BOXES FOR THE MOSTATS AT 48" AFF. CONDUITS STUBBED ABOVE CEILING.



**POWER PLAN
ALTERNATE BIDS 1 & 2**

SCALE: 3/32" = 1'-0" NORTH

GENERAL NOTES

- CONTENT OF DRAWINGS REFLECTS WORK BY MULTIPLE PARTIES. SEE "RESPONSIBILITY SCHEDULE", SHEET (G100) "COVER SHEET" FOR COORDINATION, DIVISION OF LABOR & REQUIRED VENDORS.
- ALL NOTES, GENERAL NOTES, KEYNOTES & LEGEND ENTRIES ARE SHEET SPECIFIC AND DON'T APPLY TO OTHER SHEETS, UNLESS NOTED OTHERWISE.
- NOT ALL SYMBOLS IN LEGEND ARE USED. "-" IN LEGEND INDICATES DEFAULT DEVICE TYPE. LEGEND "NOTES" COLUMN LIST DEFAULT MOUNTING HEIGHT TO CENTER, INSTALLATION TYPE OR LOCATION OF INSTALLATION INFORMATION.
- BRANCH CIRCUITS SHALL BE (2) #12, #12 GR IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE. USE (2) #10, #10 GR IN 1/2" CONDUIT FOR 120V CIRCUITS OVER 125' IN LENGTH OR 277V CIRCUITS OVER 250' IN LENGTH FOR VOLTAGE DROP.
- ADJACENT RECEPTACLES MAY BE COMBINED INTO MULTI-GANG BOXES.

POWER NOTES

- RELOCATE EXISTING FIRE ALARM DEVICES & EQUIPMENT AS REQUIRED DUE TO ALTERATIONS. COORDINATE REQUIREMENTS WITH OWNER & LOCAL AUTHORITIES. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING HVAC EQUIPMENT IS TO REMAIN UNLESS NOTED OTHERWISE.
- EXISTING RTU SENSORS & DEVICES ARE TO REMAIN UNLESS NOTED OTHERWISE. VERIFY IN FIELD. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING NOVAR EMS CONTROLS & DEVICES ARE TO REMAIN UNLESS NOTED OTHERWISE. PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING SECURITY, CCTV DEVICES & EQUIPMENT ARE TO REMAIN UNLESS NOTED OTHERWISE. PROTECT FROM DAMAGE DURING CONSTRUCTION.

KEYNOTES

- ◇ AUTOMATIC DOOR: PROVIDE JBOX ABOVE CEILING WITH CIRCUIT FOR AUTOMATIC DOOR POWER. COORDINATE WITH VENDOR.
- ◇ SAW CUT FLOOR FOR COUNTER POWER & DATA. PROVIDE (2) 3/4" CONDUITS, ONE FOR POWER, ONE FOR DATA, PARTITION & SAW CUT IN FLOOR TO COUNTER. PROVIDE BUSHINGS & PULL WIRE FOR DATA CONDUIT. TERMINATE POWER CONDUIT IN FLOOR MOUNTED JBOX, UNO. VERIFY STUB UP LOCATION WITH CASEWORK CONSTRUCTION & OWNER.
- ◇ PROVIDE FLUSH MOUNTED JBOX AT DOOR FOR CARD ACCESS. PROVIDE CONDUIT WITH PULL WIRE TO JOIST SPACE. VERIFY LOCATION WITH OWNER. COORDINATE WITH VENDOR. THE EGRESS / ACCESS CONTROL CARD READER SYSTEM'S DESIGN AND OPERATION SHALL CONFORM TO CFC 1010.1.9.8 AND 1010.1.9.9.
- ◇ PROVIDE NEW FLOOR BOX, FLUSH IN FLOOR WHERE SHOWN. PROVIDE ALL ACCESSORIES FOR COMPLETE INSTALLATION. INSTALL FLOORING IN COVER LEAVE OUT. PROVIDE 3/4" CONDUIT FOR POWER ROUTED FROM BOX TO PANEL. PROVIDE 1-1/4" (2" FOR TYPE 'C') CONDUIT FOR DATA FROM BOX TO WALL INDICATED NEAR PANEL. PROVIDE DIVIDERS TO SEPARATE POWER & DATA.
- ◇ PROVIDE NEW FLOOR BOX, FLUSH IN FLOOR WHERE SHOWN. PROVIDE ALL ACCESSORIES FOR COMPLETE INSTALLATION. INSTALL FLOORING IN COVER LEAVE OUT. PROVIDE (3) 3/4" CONDUITS FOR POWER, DATA & A/V FROM BOX TO TV. PROVIDE DIVIDERS TO SEPARATE POWER, DATA & A/V.
- ◇ SUSPENDED TV'S: PROVIDE RECEPTACLES MOUNTED TO BACK OF TV MOUNTING BRACKET. ROUTE POWER THRU BRACKET SUSPENSION COLUMNS. VERIFY AVAILABLE CIRCUIT NUMBERS.
- ◇ UNDERSLAB CONDUITS: ROUTE THROUGH TRENCH AREAS SHOWN.
- ◇ PROVIDE DPDT TOGGLE SWITCH AT 48" WITH 2 CONDUCTOR / 18 GA SHIELDED LV CABLE TO TEMPERATURE SENSOR IN CONFERENCE ROOM & TEMPERATURE SENSOR IN OPEN AREA. WIRE OUTPUT FROM SWITCH (2C/18GA SHIELDED) TO DESIGNATED RTU. CONNECT SWITCHES SO THAT UP POSITION CONNECTS THE RTU TO THE SENSOR IN THE CONFERENCE ROOM. PROVIDE "OCCUPIED" & "UNOCCUPIED" LABELS. COORDINATE WITH ENTIC.
- ◇ FIRE ALARM STROBE / HORN TO REMAIN. VERIFY LOCATIONS OF FIRE ALARM DEVICES & RELOCATE IF NECESSARY. PROTECT DURING CONSTRUCTION.

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STORE NUMBER: #0409
LEASABLE AREA: 29,701 S.F.
GROSS FLOOR AREA: 28,752 S.F.
JOB NUMBER: 2018.012000

ISSUE	ISSUED FOR BID	DATE
		11/09/18

JOHN M. BRUNS
LICENSE
No. 54430
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JOHN M. BRUNS
#54430 | EXP. 02/28/2019

POWER PLAN

DRAWN: JEC
CHECKED: JMB

E102