ELECTRICAL SYMBOL LEGEND

SYMBOL	GENERAL
1	NOTE REFERENCE NUMBER.
ELECT ROOM 101	TYPICAL ROOM NAME AND NUMBER FOR COMMON SPACES.
1 EA.4.01	INDICATES DETAIL NUMBER DETAIL REFERENCE BUBBLE INDICATES SHEET ON WHICH DETAIL IS LOCATED
	POINT OF CONNECTION; NEW BUILDING WORK TO EXISTING EARLY SITE PACKAGE WORK.
	DENOTES AN ADA ROOM. REFER TO 'EP' SHEETS FOR ROOM LOCATIONS AND SEE ENLARGED TYPICAL 'ADA' ROOMS FOR DEVICE SPECIFICS.
	DENOTES A HEARING IMPAIRED ROOM. REFER TO 'EP SHEETS FOR HEARING IMPAIRED ROOM LOCATIONS AND SEE ENLARGED TYPICAL 'ADA' ROOMS FOR DEVICE SPECIFICS.

SYMBOL	TELECOM DEVICE OUTLETS
	TELECOMMUNICATIONS COMMUNICATIONS SCOPE NOTES: 1. COORDINATE INFRASTRUCTURE SHOWN WITH CAMPUS 'IT' DEPARTMENT PRIOR TO INSTALLATION. 2. REFER TO DIVISION 27 OF THE SPECIFICATIONS FOR DEFINITION OF SCOPE OF WORK BETWEEN THE TRADES AND THE OWNER. 3. REFER TO DIVISION 27 OF THE SPECIFICATIONS FOR SPECIFIC INSTALLATION, CABLING AND TERMINATION REQUIREMENTS. GENERAL TELECOMMUNICATION DEVICE NOTES: 1. SEE TELECOM RACEWAY LEGEND SECTION BELOW FOR ASSOCIATED TELECOM RACEWAY REQUIREMENTS. 2. NUMERAL WHEN USED DENOTES NUMBER OF CABLES REQUIRED AT EACH OUTLET OTHER THAN ONE. 3. DEVICES TO BE MOUNTED AT 18" AFF, U.O.N. 4. 'W' WHEN USED INDICATES WALL MOUNTED DEVICE AT 42" AFF TO CENTER OF OUTLET BOX. 5. REFER TO TYPICAL TELECOM DEVICE DETAIL ON 'ET' DETAIL SHEET FOR ADDITIONAL SPECIFICS.
2	DATA OUTLET BOX . ONE DATA CABLE, UNLESS OTHERWISE NOTED.
W	COURTESY PHONE. VOICE COMMUNICATIONS OUTLET BOX WALL MOUNTED AT 42"AFF WITH ADJACENT ADA JACK.
	INFORMATION OUTLET BOX - COMBINATION VOICE (VOIP) AND DATA. TWO VOICE, TWO DATA.
WAP	CEILING MOUNTED WIRELESS ACCESS POINT. TWO DATA.
TV DS	FLAT SCREEN COMMON AREA TELEVISION OUTLET BOX WITH DUPLEX RECEPTACLE AND TWO DATA JACKS. MOUNTED 4'-0" AFF, UON. WHEN NOTED "DS" INDICATES DIGITAL SIGNAGE OUTLET.
CM	INFORMATION OUTLET MOUNTED IN CASEWORK. POWER AND CABLE WIRED THROUGH FURNITURE. TWO DATA, TWO VOICE.
EBS	TWO-WAY EMERGENCY COMMUNICATION BASE STATION. NOMINAL 15"H x 12"W x 6"D, SURFACE MOUNTED POWER-COATED STEEL ENCLOSURE WITH TWIST LOCK CLOSURE (CAPABLE OF ACCEPTING FIREMAN'S LOCK), FACEPLATE, COIL CORD HANDSET, SERVING UP TO 10 REMOTE CALL STATIONS . WALL MOUNT CABINET TO ENSURE OPERABLE DEVICES ARE NO HIGHER THAN 48" AFF. RATH #2500-210B OR EQUIVALENT. PROVIDE ONE VOICE LINE FOR BASE STATION.
E	TWO-WAY EMERGENCY COMMUNICATION RECESSED REMOTE STATION. BACKBOX 6"W x 8"H x3"D WITH STAINLESS STEEL PHONE FACEPLATE. WALL MOUNT TO ENSURE BRAILLE FACEPLATE IS NO HIGHER THAN 48" AFF. RATH #2100-958NSD OR EQUIVALENT.

	TELECOMMUNICATIONS RACEWAYS
	GENERAL NOTES 1. PROVIDE (1) 1" EMT CONDUIT FROM EACH TELECOM OUTLET BOX TO TELECOMMUNICATIONS PATHWAY SYSTEM ABOVE ACCESSIBLE CEILING IN CORRIDOR (UNLESS OTHERWISE NOTED). 2. PROVIDE J-HOOKS IN ACCESSIBLE CORRIDOR CEILINGS WITH CONDUIT SLEEVES IN INACCESSIBLE CEILING LOCATIONS. J-HOOKS NOT TO EXCEED 5'-0" ON CENTER WITH MINIMUM 3" CLEARANCE BETWEEN BOTTOM OF J-HOOK AND CEILING GRID. 3. NO JUNCTION BOXES SHALL BE INSTALLED BETWEEN OUTLET BOXES AND CORRIDOR PATHWAY SYSTEM, UNLESS OTHERWISE NOTED.
OR	4" EMT CONDUIT SLEEVE, UON. PROVIDE WITH PLASTIC BUSHING AT EACH END AND FIRE RATE AS REQUIRED. PROVIDE LENGTH AS REQUIRED TO BRIDGE WALLS OR INACCESSIBLE LOCATIONS IN WALLS OR CEILING SPACES.

	POWER DEVICES
	WHEN USED: AFI = ARC FAULT CURRENT INTERRUPTING DEVICE INSTALLED AT FIRST OUTLET OF BRANCH CIRCUIT. GFI = GROUND FAULT CIRCUIT INTERRUPTING DEVICE OR GROUND FAULT PROTECTED DEVICE EWC = DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE RECEPTACLE PLACEMENT WITH UNIT PROVIDED. WP = WEATHERPROOF. "WR" RATED RECEPTACLE. RD = ROOF DECK MOUNTED RECEPTACLE WITH CONDUIT STUBBED UP THRU ROOF AND WEATHER SEALED. CM = CASEWORK MOUNTED AND WIRED THROUGH FURNITURE. V = VENDING RECEPTACLE WIRED THROUGH REMOTE DEAD-FRONT GFI DEVICE GENERAL: 1. COMMON AREA AND STAFF APARTMENT WALL MOUNTED RECEPTACLES NOTED TO BE MOUNTED AT 18" AFF, UON. 2. STANDARD SINGLE GANG OUTLET BOXES ARE REQUIRED, U.O.N.
	WALL MOUNTED DUPLEX CONVENIENCE RECEPTACLE, 20A, 125 VAC.
	WALL MOUNTED DOUBLE DUPLEX CONVENIENCE RECEPTACLE, 20A, 125 VAC. IN 2-GANG BOX.
	DUPLEX CONVENIENCE RECEPTACLE WALL MOUNTED ABOVE COUNTERTOP BACKSPLASH, 20A, 125 VAC.
	SPECIAL PURPOSE RECEPTACLE. WALL MOUNTED, U.O.N WITH NEMA CONFIGURATION AS INDICATED ON PLANS IN 2-GANG BOX.
	DEAD FRONT SELF TEST GFCI DEVICE, 20A, 125 VAC, SERVING WATER COOLERS AND VENDING MACHINES. FLUSH WALL MOUNTED 6'-6" AFF ADJACENT TO EQUIPMENT.
EPO	EMERGENCY STOP-SWITCH FOR GAS POWERED EQUIPMENT.
TSD	300VA, 120-24VAC CONTROL POWER TRANSFORMER FOR FIRE SMOKE DAMPER ACTUATORS AND SMOKE DAMPER ACTUACTORS. EACH TRANSFORMER SHALL POWER NO MORE THAN (9) 25VA ACTUATORS OR EQUIVALENT. NO MORE THAN (4) CONTROL TRANSFORMERS PER CIRCUIT. SEE FIRE PROTECTION PLANS FOR SMOKE DAMPER WIRING DETAILS.
4	COMBINATION POWER AND DATA FLOOR BOX. WIREMOLD EFB45BTCBK OR APPROVED EQUAL.

SYMBOL	DISTRIBUTION
MSB	MAIN SWITCHBOARD - 208Y/120V 3PH, 4-WIRE. DASHED OUTLINE INDICATES REQUIRED NEC WORKING SPACE CLEARANCE.
	PANELBOARD - 208Y/120V 3 PH , 4W. DASHED OUTLINE INDICATES REQUIRED WORKING SPACE CLEARANCE. SEE POWER RISER AND PANELBOARD SCHEDULES FOR SPECIFICS. MAXIMUM MOUNTING HEIGHT SHALL BE 6'-0" TO TOP OF PANELBOARD CAN. MOUNTING HEIGHTS SHALL BE CONSISTENT THROUGHOUT BUILDING.
M	EXTERNALLY MOUNTED DIGITAL MULTIMETER.
C	ENCLOSED CIRCUIT BREAKER, RATING AS INDICATED ON PLANS.
	GROUNDING ELECTRODE SYSTEM. SEE DETAILS SHEET EP501.
GB	POWER SYSTEM GROUND BAR FOR CONNECTION TO BUILDING GROUNDING ELECTRODE SYSTEM.
	TEST WELL FOR GROUNDING ELECTRODE SYSTEM. SEE SHEET 0ES-101 FOR LOCATIONS. SEE DETAIL 8 ON SHEET 0EP-501.
	GROUND ROD.
G	#4/0 AWG BARE COPPER GROUND LOOP.
	GROUNDING TRIAD. SEE DETAIL 1 ON SHEET 0EP-501 .

SYMBOL	HEARING IMPAIRED DEVICES - VISUAL VISITOR NOTIFICATION SYSTEM
	GENERAL NOTE: SEE ALSO VISUAL VISITOR NOTIFICATION WIRING DIAGRAM ON SYSTEMS DETAIL SHEET.
HI	EDWARD SIGNALS PUSH-BUTTON WITH IVORY CENTER AND CHROME RIM, 24V, PART #620, OR APPROVED EQUIVALENT, AND STAINLESS STEEL PUSH-BUTTON FACEPLATE, PART #147-1. FACEPLATE SHALL BE BLANK, WITHOUT ANY LABELS.
HI	SYSTEM SENSOR WALL-MOUNTED STROBE,PART #SWL-P, WITH AMBER COLORED LENS, PART #LENS-A, OR APPROVED EQUIVALENTS.
Y	SYSTEM SENSOR SYNC MODULE, PART #MDL3W. MOUNT ONTO 4" SQUARE, 1-1/2" DEEP JUNCTION BOX. THE ENTIRE ASSEMBLY SHALL BE MOUNTED ABOVE ACCESSIBLE CEILING IN CORRIDOR OUTSIDE STUDENT APARTMENT.
PS	ALTRONIX BOOSTER POWER SUPPLY FOR HEARING IMPAIRED STROBE DEVICES, PART #AL400ULX OR APPROVED EQUIVALENT. PROVIDE WITH GRAY ENCLOSURE.

SYMBOL	LIGHTING
	GENERAL: 1. REFER TO SHEET 0EL-600 FOR LUMINAIRE SPECIFICS AND LUMINAIRE SCHEDULE , TYPE DESCRIPTIONS AND LIGHTING DETAILS. 2. WHEN USED: 'NL' REFERS TO LUMINAIRE THAT IS UNSWITCHED AND WIRED AHEAD OF LOCAL SWITCHING.
A	LIGHT EMITTING DIODE (LED) LIGHTING FIXTURE. (⊣ INDICATES BRACKET, WALL MOUNTED FIXTURES).
	LED LIGHTING FIXTURE (⊣ INDICATES BRACKET, WALL MOUNTED FIXTURES).
	EMERGENCY LED LIGHTING FIXTURE (⊣ INDICATES BRACKET, WALL MOUNTED FIXTURES).
	LED EXIT LIGHTING FIXTURE. ARROW, WHEN USED, INDICATES DIRECTION. (⊣ INDICATES BRACKET, WALL MOUNTED FIXTURES). FILLED IN QUADRANT(s) OF SYMBOL INDICATES NUMBER AND ORIENTATION OF ILLUMINATED FACES.
	EMERGENCY BATTERY UNIT.
S	SINGLE POLE SWITCH.
SD	SINGLE-POLE DIMMER SWITCH.
S3	THREE-WAY SWITCH
S4	FOUR-WAY SWITCH
SOS	WALL MOUNT DUAL TECHNOLOGY (INFRARED AND ULTRA-SONIC) SENSOR SWITCH.
SP	PILOT LIGHT SWITCH.
SS	TWO-SINGLE POLE SWITCHES FOR DUAL LEVEL LIGHTING CONTROL. SEE LIGHTING PLANS FOR SWITCHING ARRANGEMENT.
OS	DUAL TECHNOLOGY (INFRARED AND ULTRA-SONIC) CEILING MOUNTED OCCUPANCY SENSOR. SENSORS SHALL BE WIRED IN PARALLEL IN AREAS CONTAINING MULTIPLE SENSORS.
R	EMERGENCY LIGHTING OVERRIDE RELAY.
PC	PHOTOCELL.
LC	LIGHTING CONTACTOR.
TC	TIMECLOCK.

	MISCELLANEOUS TELECOMMUNICATIONS EQUIPMENT
TGB OR TMGB	GROUND BAR MOUNTED ABOVE HORIZONTAL LADDER RACK IN TELECOM ROOMS. SEE DETAIL ON SHEET 0EP-502.
OR	PLYWOOD BACKBOARD. PAINT WITH FIRE RETARDANT PAINT AND LABEL WITH ASSOCIATED FIRE RATINGS PER UNIVERSITY STANDARDS. REFER TO SPECIFICATION SECTION 27 FOR SPECIFICS.
TEP	2VA, 120V-24VAC CONTROL POWER TRANSFORMER FOR TWO-WAY EMERGENCY CALL STATIONS. TRANSFORMER INCLUDED WITH EMERGENCY PHONE SYSTEM. MOUNT TRANSFORMER IN A NEMA 1 ENCLOSURE IN ACCESSIBLE HUNG CEILING LOCATION NEAREST TO PHONE.

	EQUIPMENT CONNECTIONS
	GENERAL NOTE: SEE EQUIPMENT DATA SCHEDULE FOR CONNECTION REQUIREMENTS.
E	EQUIPMENT CONNECTION.
J	STANDARD SIZE WALL OR CEILING MOUNTED JUNCTION BOX, UNLESS OTHERWISE NOTED.
NEMA 3R, L 3P 30/20	DISCONNECT SWITCH. RATINGS AND CHARACTISTICS AS INDICATED ON EQUIPMENT SCHEDULE. WHEN USED: NEMA 3R= NEMA 3R ENCLOSURE REQUIRED L = PERMANENT PROVISIONS FOR LOCKING DISCONNECT IN OPEN POSITION. 3P = NUMBER OF POLES 30 = DEVICE RATING 20 = FUSE RATING, OR "NF" = NON-FUSED, "FPN" = FUSE PER NAMEPLATE
	DISCONNECT SWITCH PROVIDED WITH EQUIPMENT. NEMA 1 ENCLOSURE FOR INDOOR INSTALLATIONS, AND NEMA 3R ENCLOSURE FOR EXTERIOR INSTALLATIONS.
SM	THERMAL SWITCH. HORSEPOWER RATED.
HSS	KITCHEN HOOD SUPPRESSION SYSTEM WITH ELECTRIC SHUT-OFF. ELECTRIC SHUT-OFF ASSEMBLY (ELECTRICAL CONTACTOR BOX) SHALL BE RECESSED IN WALL APPROXIMATELY 8" AFF (FROM BOTTOM OF BOX). RANGE CORD SHALL BE HARDWIRED TO ELECTRIC SHUT-OFF ASSEMBLY. PROVIDE 110VAC CONNECTION BETWEEN HOOD AND ELECTRIC SHUT-OFF FOR SOLENOID OPERATION.

SYMBOL	SECURITY
	SECURITY SCOPE NOTES: 1. CONTRACTOR TO PROVIDE CAMERAS, ANCILLARY EQUIPMENT, AND ALL PARTS NECESSARY FOR A COMPLETE SYSTEM. 2. CONTRACTOR TO PROVIDE INFRASTRUCTURE, PULL AND LABEL ALL WIRE AND CABLING. 3. CONTRACTOR TO ENSURE LATEST FIRMWARE APPROVED FOR USE WITH LENEL VIDEO SOFTWARE IS INSTALLED ON ALL CAMERAS. 4. CONTRACTOR TO PROGRAM CAMERAS WITH IP ADDRESS, USER NAME AND PASSWORD. CONTRACTOR TO LABEL ALL CAMERAS. LABELLING INFORMATION SHALL BE PROVIDED BY THE OWNER. 5. CONTRACTOR TO SCHEDULE FINAL SYSTEM INSPECTION WITH THE OWNER AND SHALL RE-AIM AND RE-FOCUS CAMERAS AS REQUIRED FOR FINAL SYSTEM APPROVAL. 6. CAMERA SECURITY SYSTEM SHALL BE PROVIDED WITH A SURGE SUPPRESSION SYSTEM PER OWNER REQUIREMENTS AS NOTED IN PROJECT SPECIFICATIONS AND DETAILS. 7. OWNER TO PROVIDE, INSTALL AND MAINTAIN SYSTEM VIDEO SERVERS. 8. OWNER TO PROVIDE NETWORK EQUIPMENT AND NETWORK SWITCHES. 9. OWNER TO ASSIGN SWITCHES FOR CAMERAS AND PROVIDE USER NAMES, PASSWORDS, AND IP ADDRESSES TO THE CONTRACTOR. WHEN USED: CLG = CEILING MOUNTED CAMERA NM = NON-MONITORED CAMERA BKT = BRACKET MOUNTED CAMERA.
	WALL MOUNTED SECURITY CAMERA. PELCO SARIX MODEL #IMP221-1IS, COMPATIBLE WITH LENEL 7.2 SOFTWARE VERSION.

SYMBOL	WIRING, CONDUIT AND RACEWAY
	BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT RUN CONCEALED ABOVE CEILING OR INSIDE COLUMN OR WALL. REFER TO PLANS AND/OR GENERAL NOTES FOR ADDITIONAL NEUTRALS THAT MAY BE REQUIRED. REFER TO PANEL SCHEDULES FOR CONDUIT AND WIRE SIZES.
CKT EXAMPLE: 1A5-2(SC)	HOMERUNS TO PANEL. PANEL AND BRANCH CIRCUIT AS INDICATED. SUFFIXES (WHEN USED: (SC)- SPLIT CIRCUIT. CIRCUIT HAS MULTIPLE HOMERUN DESIGNATIONS. THE ELECTRICAL CONTRACTOR SHALL INSTALL ONLY ONE CONDUCTOR PER CIRCUIT BREAKER POLE. SPLICES NECESSARY TO COMPLY WITH THIS REQUIREMENT SHALL BE MADE IN A SEPARATE SPLICE BOX OUTSIDE THE PANELBOARD ENCLOSURE.
	RACEWAY INSTALLED WITH-IN PRE-CAST SLAB, THEN TURNED UP OR DOWN AT AN ACCESSIBLE LOCATION, UON.

SYMBOL	ACCESS CONTROL DEVICES
	ACCESS CONTROL SCOPE: 1. CONTRACTOR TO PROVIDE SYSTEM PANELS, POWER SUPPLIES, MISCELLANEOUS ELECTRONIC EQUIPMENT, CONDUIT INFRASTRUCTURE, LINE AND LOW VOLTAGE POWER AND DATA CABLING FOR A COMPLETE SYSTEM. 2. CONTRACTOR TO PULL ALL WIRE, CABLING AND MAKE ALL TERMINATIONS. 3. OWNER TO PROVIDE ALL NETWORK SWITCHES AND NETWORK EQUIPMENT, ASIGN SWITCH PORTS AND IP ADDRESSES. 4. OWNER TO SETUP STATUS LEVELS, DOOR SCHEDULES, AND ASSIGN ACCESS AS APPROPRIATE. GENERAL: 1. REFER TO SPECIFICATION SECTION 28000 FOR SPECIFICS AND SYSTEMS DETAILS FOR ADDITIONAL INFORMATION. 2. 'PM' WHEN USED INDICATES PEDESTAL MOUNTED DEVICE.
CR	CARD READER.
DS	DOOR CONTACT SWITCH.
DA	LOCAL DOOR ALARM.
ADA	ADA MOTORIZED DOOR OPERATOR.
IAB	INTERIOR WALL MOUNTED RELEASE TO EXIT MOTORIZED DOOR ACTUATOR BUTTON.
EAB	EXTERIOR WALL MOUNTED RELEASE TO EXIT MOTORIZED DOOR ACTUATOR BUTTON.
PT	POWER TRANSFER HINGE.
RX	ELECTRIFIED RELEASE TO EXIT PANIC HARDWARE.
EL	ELECTRIFIED LOCKSET
PS	ACCESS CONTROL DOOR POWER SUPPLY

SYMBOL	SITE
T	EXISTING PAD MOUNTED TRANSFORMER UNDER SEPARATE CONTRACT BY DUKE ENERGY.
SW	ENERGY PAD MOUNTED MEDIUM VOLTAGE SWITCH UNDER SEPARATE CONTRACT BY DUKE ENERGY.
GEN	PAD MOUNTED GENERATOR TO BE PROVIDED UNDER BUILDING CONTRACT.
E	PRECAST CONCRETE ELECTRICAL HANDHOLE.
C	PRECAST COMMUNICATION HANDHOLE.
C	EXISTING COMMUMICATIONS MANHOLE TO REMAIN.
MV	EXISTING UNDERGROUND 15 KV MEDIUM VOLTAGE ELECTRICAL UNDER SEPARATE CONTRACT BY DUKE ENERGY.
UG	EXISTING CONCRETE ENCASED UNDERGROUND GENERATOR POWER DUCTBANK CONDUITS.
UGC	GENERATOR CONTROL CONDUITS
UE	EXISTING CONCRETE ENCASED UNDERGROUND 600V RATED LOW VOLTAGE ELECTRICAL DUCTBANK.
UT	EXISTING CONCRETE ENCASED UNDERGROUND TELECOMMUMICATIONS DUCTBANK.
E	ELECTRICAL UNDERGROUND BRANCH CIRCUIT.
ET	NEW EMERGENCY BLUE PHONE. REFER TO DETAIL ON SHEET 0EP-503.
HH	NEW POLYMER-CONCRETE HANDHOLE. REFER TO DETAIL 7 ON SHEET 0EP-501.
	DUCTBANK DESIGNATOR FOR UNDERGROUND UTILITIES. REFER TO THE EARLY SITE PACKAGE FOR SPECIFICS, SHEET ES101.

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF DEVICES ONLY.
2. TERMINALS/LUGS SHALL BE 60/75 DEGREE RATED.
3. LIGHT SWITCHES SHALL BE MOUNTED A MINIMUM OF 6" FROM EDGE OF DOOR FRAME, MAXIMUM OF 12". FOR EXCEPTIONS, CONTACT ARCHITECT PRIOR TO INSTALLATION.
4. DEVICE OUTLETS SHOWN BACK TO BACK IN FIRE RATED WALLS OR PARTITIONS SHALL BE INSTALLED WITH A MINIMUM OF 24" BETWEEN DEVICES MEASURED FROM INSIDE EDGE OF BOXES. WHERE IMPRACTICAL TO PROVIDE 24" SPACING BETWEEN BOXES, PUTTY PADS SHALL BE INSTALLED WITHIN BOX INTERIOR. PUTTY PADS SHALL BE PREFABRICATED INTUMESCENT PADS DESIGNED SPECIFICALLY FOR INSTALLATION IN JUNCTION BOX INTERIORS (STI SPECSEAL EP POWERSHIELD OR APPROVED EQUIVALENT).
5. TWO OR MORE ADJACENT POWER OR COMMUNICATION DEVICES SHALL BE GANGED WITH A COMMON FACEPLATE. IF THEY CANNOT BE GANGED THEY SHALL BE INSTALLED WITH A MINIMUM DISTANCE BETWEEN UNITS.
6. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, VIDEO OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY AND WITHIN THE RACEWAY SHALL BE FIRE STOPPED.
7. FIRE RATED WALLS, FLOORS/CEILINGS AND PARTITIONS, OPENINGS FOR THE INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY TO ENSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
8. WHERE A HOMERUN IS SHOWN, THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED RACEWAY (DO NOT COMBINE WITH OTHER CIRCUITS). WHERE A CIRCUIT-HOMERUN IS NOT SHOWN, COMBINE CIRCUITS IN ACCORDANCE WITH THE NEC AS FOLLOWS:
   - SINGLE PHASE CIRCUITS SHALL HAVE A DEDICATED NEUTRAL A MAXIMUM OF THREE 20A, 1-POLE BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY.
   - SHARING NEUTRAL NOT ALLOWED.
   - BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO PANEL.
9. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST POINT. ADJUST CONDUCTOR SIZES INDICATED IN THE PANELBOARD SCHEDULES BASED ON THE FOLLOWING GUIDELINES, UNLESS NOTED OTHERWISE.
   - FOR 120V, 1-PHASE, 20A RECEPTACLE BRANCH CIRCUITS:
     0-50 FEET RUNS: #12 AWG
     51-100 FEET RUNS: #10 AWG
     101-150 FEET RUNS: # 8 AWG
     RUNS OVER 150 FEET: # 6 AWG
   - FOR 120V, 1-PHASE, 20A LIGHTING BRANCH CIRCUITS:
     0-75 FEET RUNS: #12 AWG
     76-125 FEET RUNS: #10 AWG
     126-200 FEET RUNS: # 8 AWG
     RUNS OVER 200 FEET: # 6 AWG
10. EXTERIOR ELECTRICAL BRANCH CIRCUITS SHALL UTILIZE MINIMUM CONDUCTOR SIZE #10 AWG AND MINIMUM CONDUIT SIZE 1" UNLESS OTHERWISE NOTED.
11. PROVIDE 4" CONCRETE HOUSEKEEPING PADS FOR INDOOR FLOOR MOUNTED EQUIPMENT AND OUTDOOR PAD MOUNTED EQUIPMENT. EXTEND PAD MINIMUM 4" BEYOND EQUIPMENT FOOTPRINT.
12. TELECOM OUTLET RACEWAYS SHALL BE FITTED WITH PLASTIC BUSHINGS AT EACH END BEFORE ANY CABLING IS INSTALLED.
13. UNLESS OTHERWISE NOTED ON THE ELECTRICAL CONTRACT DRAWINGS OR SPECIFICATIONS, MOUNTING HEIGHTS SHALL BE AS NOTED ON ARCHITECTURAL PLANS.
14. WHEN SHOWN ADJACENT TO ELECTRICAL DEVICES THE FOLLOWING SUBSCRIPTS SHALL BE DEFINED AS FOLLOWS:
    - WP = WEATHERPROOF
    - +72" = MOUNTING HEIGHT IN INCHES MEASURED TO TOP OF DEVICE.
15. INSTALL 1" CONDUIT FROM THE OUTLET BOX TO WITHIN ONE FOOT OF CORRIDOR PATHWAY SYSTEM. FOR LOCATIONS WHERE ABOVE CEILING PLACEMENT IS NOT POSSIBLE, THEN THE OUTLET BOXES SHALL BE PLACED AS EITHER PENDANT OR ON THE WALL 12" BELOW CEILING IN LOCATIONS AS DETERMINED BY OWNER.
16. ROUTE EMT CONDUIT FROM PANELBOARDS TO OUTLETS AND LIGHTING FIXTURES WHERE CONCEALED IN COMMON WALLS AND/OR CEILINGS. USE PVC SHEDULE 40 RACEWAY FOR CONDUITS CONCEALED IN THE FLOOR SLAB. UTILIZE RIGID STEEL OR IMC WHERE EXPOSED AND/OR SUBJECT TO PHYSICAL DAMAGE. MC CABLE ALLOWED WITHIN WALLS OF THE STUDENT BEDROOMS ONLY.

ABBREVIATIONS

A	AMPERE	KVA	KILOVOLT AMPERE
AC	ABOVE COUNTER (6" ABOVE BACKSPLASH)	LTG	LIGHTING
AF	AMPERE FRAME	MC	METAL CLAD CABLE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCA	MINIMUM CIRCUIT AMPACITY
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MGMT	MANAGEMENT
AHU	AIR HANDLING UNIT	MFGR.	MANUFACTURER
APT	APARTMENT	MICRO	MICROWAVE
AT	AMPERE TRIP	MLO	MAIN LUG ONLY
ATL	ACROSS THE LINE	MOCP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MSB	MAIN SWITCHBOARD
AV	AUDIO VISUAL	MT	MOUNT
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
BAS	BUILDING AUTOMATION SYSTEM	MTG	MOUNTING
BG	BELOW GRADE	MV	MEDIUM VOLTAGE
BK/BD	BACKBOARD	NAC	NOTIIFICATION APPLIANCE CIRCUIT
BLDG	BUILDING	NAS	NON-AUTOMATIC SWITCH
BRKR	BREAKER	NEC	NATIONAL ELECTRICAL CODE
B.S.	BUSSED SPACE	NEU	NEUTRAL
C	CONDUIT	NF	NON-FUSED
CATV	CABLE TELEVISION	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	OC	ON CENTER
CD	CANDELA	P	POLE
CKT	CIRCUIT	PB	PULL BOX
CLG	CEILING	PH	PHASE
CORR	CORRIDOR	PNL	PANEL
CTLR	CONTROLLER	POS	POINT OF SALE
dBA	DECIBELS ADJUSTED	PSI	POUNDS PER SQUARE INCH
DISC	DISCONNECT	PVC	POLY VINYL CHLORIDE
DIST.	DISTRIBUTION	QTY	QUANTITY
DWG	DRAWING	RECEPT	RECEPTACLE
DSHWSHR	DISHWASHER	REFRIG	REFRIGERATOR
EB	ELECTRONIC BALLAST	REQ'D	REQUIRED
EC	EMPTY CONDUIT	REQ'MTS	REQUIREMENTS
ECB	ENCLOSED CIRCUIT BREAKER	RMC	RIGID METAL CONDUIT
E.F.	EACH FACE	SC	SPLIT CIRCUIT
ELEV.	ELEVATOR	SF	SUPPLY FAN
EMER.	EMERGENCY	SLC	SIGNALING LINE CIRCUIT
EMT	ELECTRICAL METALLIC TUBING	S/N	SOLID NEUTRAL
EQ.	EQUAL	SPD	SURGE PROTECTION DEVICE
EQUIP	EQUIPMENT	STD	STANDARD
E.W.	EACH WAY	SW	SWITCH
EWC	ELECTRIC WATER COOLER	SWBD	SWITCHBOARD
FACU	FIRE ALARM CONTROL UNIT	TC	TIME CLOCK
FLA	FULL LOAD AMPS	TEL	TELEPHONE
FLUOR	FLUORESCENT	TDD	TELECOMMUNICATIONS DEVICE FOR THE DEAF
GB	GROUND BAR	TGB	TELEPHONE TERMINAL GROUND BAR
GEN	GENERATOR	TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
GFI	GROUND FAULT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GFP	GROUND FAULT PROTECTION	TV	TELEVISION
GND	GROUND	UL	UNDERWRITER'S LABORATORIES, INC.
GRS	GALVANIZED RIGID STEEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
HDG	HOT DIPPED GALVANIZED	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	UT	UNDERGROUND TELEPHONE
HT.	HEIGHT	V	VOLTS
ID	INSIDE DIAMETER	VAC	VOLTS ALTERNATING CURRENT
IMC	INTERMEDIATE METAL CONDUIT	VDC	VOLTS DIRECT CURRENT
IT	INFORMATION TECHNOLOGY	W	WIRE
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
KAIC	THOUSAND AMP SYMMETRICAL INTERRUPTING CAPACITY RMS	WWF	WELDED WIRE FABRIC
KCMIL	THOUSAND CIRCULAR MILS	XFMR	TRANSFORMER

UNCW

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Balfour Beatty Construction

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PROFESSIONAL SEAL

RETAIL/COMMON SPACES UPFITS PRICING SET - 11/1/2019

NOT FOR CONSTRUCTION

SUBMITTAL

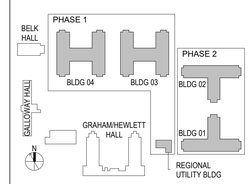
11 JULY 2019

PHASE 1 (BLDGS 3 & 4) FOR CONSTRUCTION SET

REVISIONS

1	ASI#6

KEY PLAN



SHEET

LEGEND, GENERAL NOTES, & ABBREVIATIONS

0E-001

DESIGN: AJM
DRAWN: CRS
REVIEW: AJM

CN 7368

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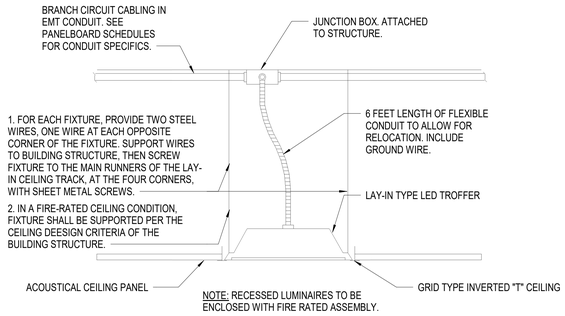
DESIGN LIGHTING LEVELS

PER ILLUMINATING ENGINEERING SOCIETY. THE LIGHTING HANDBOOK 10TH EDITION

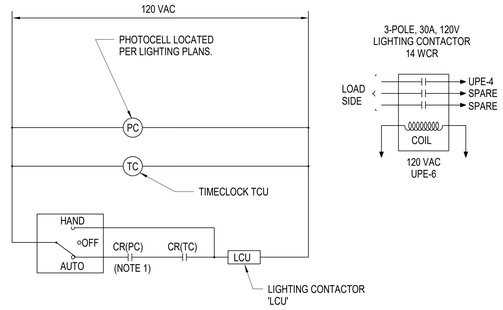
AREA	AVERAGE ILLUMINATION
BEDROOMS	5-10 FOOT-CANDLES (GENERAL ILLUMINATION)
BATHROOMS	SHOWERS/BATHTUBS - 5 FOOT-CANDLES TOILETS - 5 FOOT-CANDLES VANITIES - 10-20 FOOT-CANDLES VERTICAL
OFFICES	35 FOOT-CANDLES
CORRIDORS	10 FOOT-CANDLES
STAIRWELLS	10 FOOT-CANDLES
COMMON ROOMS	30-FOOT-CANDLES
MEETING ROOMS	35-FOOT-CANDLES
RETAIL AREAS	20-FOOT-CANDLES (GENERAL ILLUMINATION)
RECEPTION AREAS	35 FOOT-CANDLES
UTILITY CLOSETS	20 FOOT-CANDLES
TELECOM ROOMS	50 FOOT-CANDLES
SITE (PARKING LOT)	2.0-2.5 FOOT-CANDLES
SITE (WALKWAYS)	2.0-2.5 FOOT-CANDLES



7 TYPICAL LED TROFFER MOUNTING DETAIL
NO SCALE

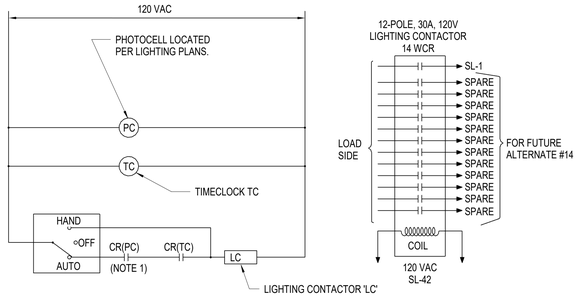
LUMINAIRE SCHEDULE

TYPE	Description	LAMPS TYPE	VOLTAGE	MOUNTING	MANUFACTURER	MODEL NO.	NOTES	DLC PRODUCT ID
L1	10"x48" SURFACE MOUNT WITH FROSTED LENS.	LED	120 V	SURFACE CEILING	METALUX	4WPLD4035		PZ4NNCFK
L1S	IDENTICAL TO TYPE L1 EXCEPT SURFACE MOUNTED.	LED	120 V	SURFACE CEILING	METALUX	4WPLD4035C		PZ4NNCFK
L2	4" SQUARE SURFACE LUMINAIRE.	LED	120 V	SURFACE CEILING	HALO	SMD4S-6935WH		N/A
L4	2'X2' RECESSED TROFFER. 3000 NOMINAL LUMENS.	LED	120 V	RECESSED CEILING	METALUX	22RTC3435		PVHV2Y01
L5	2'X2' RECESSED TROFFER.	LED		RECESSED CEILING	AXIS LIGHTING	AULED22-2500-8035		
L6	2'X2' RECESSED DIMMABLE TROFFER.	LED	120 V	RECESSED CEILING	AXIS LIGHTING	DAYFLED22-3000-8035		PLP202L2
L7	IDENTICAL TO TYPE L5 EXCEPT 2'X4'	LED		RECESSED CEILING	AXIS LIGHTING	AULED24-4500-8035		
L8	4" ROUND RECESSED DOWNLIGHT.	LED		RECESSED CEILING	IRIS	P406TAT-MH4LED-20-V935		
L11	4"x48" STRIP LUMINAIRE WITH ADJUSTABLE STEM SET.	LED		PENDANT MTD. 7'-6" AFF. TO BOTTOM	METALUX	4SNLED-LD54-4SL-LW-UNV-L835-SCA		
L12	4"x48" WET LOCATION LUMINAIRE.	LED	120 V	SURFACE	METALUX	4APVTLD-40L835		PLGHRAC4KCQ5
L13	4"X12" EXTERIOR WALL SCONCE.	LED	120 V	WALL MTD. 10' AFG	LIGMAN	UGN-18W-W40-02-120/277V		
L14	4" SQUARE RECESSED WALLWASH DOWNLIGHT.	LED	120 V	RECESSED CEILING	IRIS	P406TAT-MH4LED-20-V935-E4LVW		N/A
L16	4"X48" RECESSED LINEAR LUMINAIRE.	LED		RECESSED CEILING	AXIS LIGHTING	CLKLED-500-80-35-SO-4		
L17	24" DIAMETER EXTRUDED ALUMINUM LED RING.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	LUMENWERX	TOGPDI-24-ULOST-90-2500LM-35-120-1-A		N/A
L18	36" DIAMETER EXTRUDED ALUMINUM LED RING.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	LUMENWERX	TOGPDI-36-ULOST-90-3800LM-35-120-1-A		N/A
L19	48" DIAMETER EXTRUDED ALUMINUM LED RING.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	LUMENWERX	TOGPDI-48-ULOST-90-5000LM-35-120-1-A		N/A
L21	0.67"X0.67" CORNER MOUNT CHANNEL WITH LED TAPELIGHT. LENGTH PER PLANS.	LED	120 V	SURFACE CEILING	GENLED	CH-AC2-F-S2-65-24-3.0-35		N/A
L22	0.31"X0.35" CORNER MOUNT CHANNEL WITH LED TAPELIGHT. LENGTH PER PLANS.	LED	120 V	SURFACE FURNITURE	GENLED	CH-AS9-M-MC-HI-20-24-3.0-35-ND		N/A
L23	0.93"X0.42" LINEAR LED TAPE LIGHT. LENGTH PER PLANS.	LED		SURFACE FURNITURE	GENLED	CH-AS3-F-S2-24-3.0-35-ND		
L24	0.93"X0.42"X3'-6" LINEAR LED TAPE LIGHT.	LED	120 V	WALL, CENTERED WITH MIRROR AT 5'-5 1/2"	GENLED	CH-AS3-M-S2-24-3.0-35-ND-3'-6"		N/A
L25	10"x17" EXTERIOR WALL SCONCE.	LED		WALL MTD. 9' AFG, UON.	LUMARK	LDWP-GL-4B-ED-120-7040-DB		
L26	4"X4"X6" PENDANT LED WITH CONCRETE SHADE.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	BESA LIGHTING	1XP-SKIPWH-LED-BR-DIM010-T29X		N/A
L27	7"x8" EXTERIOR WALL SCONCE.	LED	120 V	WALL MTD. HEIGHT PER PLANS	LUMARK	XTOR1B-W-DP		P0B6IVB4
L28	NOT USED.							
L29	7-1/2" x 7-13/16" LED EMERGENCY BATTERY UNIT.	LED	120 V	WALL MTD. 8'-0" AFF	SURE-LITES	LEM2-SD		N/A
L30	18 7/8" DIAMETER LED GLASS PENDANT LUMINAIRE.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	ARTEMIDE	1713018A		N/A
L31	13" DIAMETER WEBBED NYLON LED LANTERN PENDANT.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	RICH BRILLIANT WILLING	MP-G-35		N/A
L32	24"X12" DIAMETER WEBBED NYLON LED LANTERN PENDANT.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	RICH BRILLIANT WILLING	MP-N-35		N/A
L33	24" DIAMETER WEBBED NYLON LED LANTERN PENDANT.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	RICH BRILLIANT WILLING	MP-S-35		N/A
L34	2' WALL MOUNTED LINEAR LED LUMINAIRE.	LED	120 V	WALL MTD. 8'-0" AFF	COLUMBIA	LBIL-2-35-VW-E-U-NS		JJJNDC
L35	33" DIAMETER PENDANT MOUNTED LUMINAIRE. CLUSTER OF INTERLOCKING ACRYLIC PETALS, DIMMABLE.	LED	120 V	PENDANT MTD. 7'-6" AFF. TO BOTTOM	MODERN FORMS	PD-59933		N/A
L36	2.5" WIDE X 14'-0" LONG DIRECT/INDIRECT LINEAR PENDANT LED.	LED	120 V	PENDANT MTD. 8'-0" AFF	ARCHITECTURAL LIGHTING WORKS	SP2.5S-S14-MIN/80/3500-0/10V/S-CR/S-MIN/90/3500-0/10V/S-CR/S-WH-UNV		N/A
L37	2'X4' LED FLAT PANEL LUMINAIRE. 4000K.	LED	120 V	RECESSED CEILING	C-LITE	C-TR-A-FP24-HE		N/A
L38	14" DIAMETER LED PENDANT. METALLIC CHROME FINISH.	LED	120 V	PENDANT MTD.	BARN LIGHT			N/A
L39	14" DIAMETER GOOSE NECK, WALL MOUNTED LED LUMINAIRE. METALLIC CHROME FINISH.	LED	120 V	WALL MTD.8'-6" AFF	BARN LIGHT			
L40	RECESSED LED PUCK LUMINAIRE, INSTALLED IN FIXED FAUX SHUTTERS.	LED	120 V	RECESSED			COORDINATE EXACT INSTALLATION WITH FAUX SHUTTERS.	N/A
L41	PENDANT MOUNTED LED DRUM LUMINAIRE.	LED	120 V	PENDANT MTD. 7'-6" AFF				N/A
L42	2" ROUND RECESSED DOWNLIGHT.	LED	120 V	RECESSED	PATHWAY LIGHTING	2LFK-E1-2LDW-3K-M35-2DMWH		
L43	6" DIAMETER PENDANT LUMINAIRE. TEXTURED BRASS FINISH.	LED	120 V	PENDANT MTD. 7'-6" AFF	STILNOVO	TUMBA		N/A
L44	8" DIAMETER PENDANT LUMINAIRE.	LED	120 V	PENDANT MTD. 7'-6" AFF	BLACK STEEL	KICHLER PISTON MINI PENDANT		N/A
L45	13.5" TRACK FLOOD WALL WASH LED LUMINAIRE. 4' TRACK, WHITE FINISH.	LED	120 V	SUSPENDED/ TRACK	LEVITON	TRACK HEAD: ITLED12Y TRACK: IS4		N/A
L46	3" DIAMETER TRACK HEAD WITH 4'-0" TRACK.	LED	120 V	SUSPENDED	NUVO	TRACK HEAD: TH401 TRACK: TR120	COORDINATE TRACKHEAD LOCATION AND AIMING WITH C-STORE DESIGN MANAGER. FOR EACH CIRCUIT, PROVIDE CURRENT LIMITING ELECTRICAL FEED.	N/A
L47	16" DOME PENDANT, BLACK SHADE, BLACK CORD.	LED	120 V	PENDANT MTD. HEIGHT PER PLANS.	TROY LIGHTING	DOME PENDANT		
L48	EXTERIOR LINE VOLTAGE NON-DIMMABLE LED STRING LIGHTS, 27K WITH CLEAR BULBS 2'-0" ON CENTER. PROVIDE WITH CABLE HOOKS SECURED TO BUILDING AND AIRCRAFT CABLE FOR MOUNTING. FIELD COORDINATE EXACT LOCATION OF RUN WITH APPROXIMATELY 2'-0" SWAYED DIP IN EACH RUN LENGTH.	LED	120 V	SWAYED RUN - BLDG 3 TO BLDG 4	CALLI LIGHTING	ML2000-24*O/C-LED2.7K-SSC-WET		
L49	2.5" WIDE X 4'-0" LONG DIRECT LINEAR RECESSED LED.	LED	120 V	RECESSED CEILING	ARCHITECTURAL LIGHTING WORKS	SP2.5R/F-TRIM-S4-MED-80-4000K-CR/S-BR S-UNV		
X1	SINGLE FACE EXIT SIGN.	LED	120 V	WALL MTD. 8'-0" AFF	SURE-LITES	LPX-6		N/A
X2	DOUBLE FACE EXIT SIGN.	LED	120 V	SURFACE CEILING	SURE-LITES	LPX-6		N/A
X3	DOUBLE FACE EXIT SIGN, END MOUNT	LED	120 V	WALL MTD. 8'-0" AFF	SURE-LITES	LPX-6		N/A
X4	SINGLE FACE EXIT SIGN, WET RATED.	LED	120 V	WALL MTD. 8'-0" AFF	SURE-LITES	LPXW-6		N/A



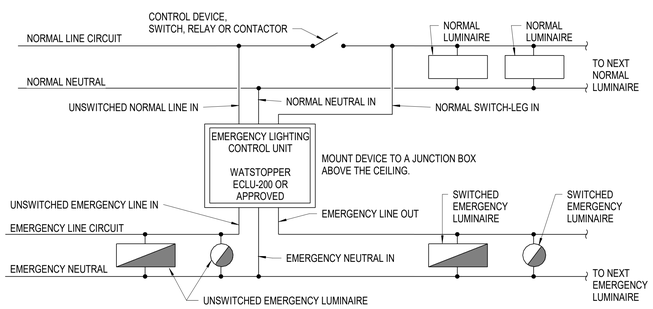
NOTES:
1. PHOTOCELL CONTACTS CLOSE AT DUSK, OPEN AT DAYBREAK.
2. LIGHTING CONTACTOR AND H.O.A. SELECTOR SWITCH SHALL BE PROVIDED WITH HINGED DOOR AND LOCKABLE COVER

5 EXTERIOR EGRESS LIGHTING CONTROL VIA CONTACTOR 'LCU' (PHASE I ONLY)
NO SCALE



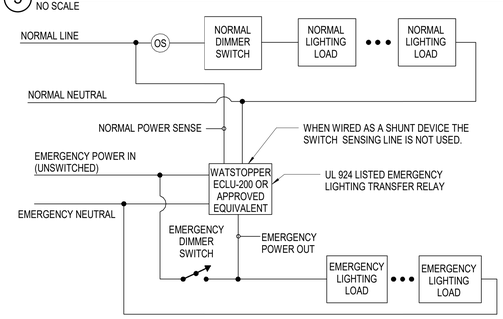
NOTES:
1. PHOTOCELL CONTACTS CLOSE AT DUSK, OPEN AT DAYBREAK.
2. LIGHTING CONTACTOR AND H.O.A. SELECTOR SWITCH SHALL BE PROVIDED WITH HINGED DOOR AND LOCKABLE COVER

4 EXTERIOR EGRESS LIGHTING CONTROL VIA CONTACTOR 'LC' (PHASE I ONLY)
NO SCALE



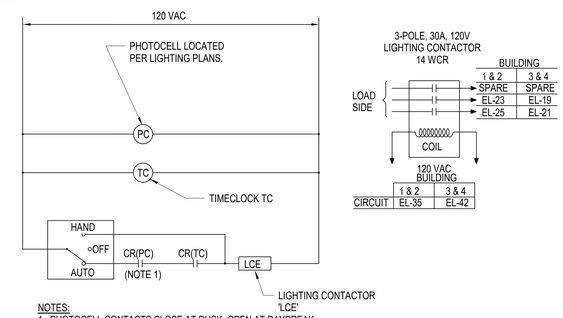
NOTE:
1. DEVICE MONITORS A NORMAL LIGHTING CIRCUIT. WHILE NORMAL POWER IS PRESENT THE DEVICE WILL SWITCH EMERGENCY IN CONJUNCTION WITH NORMAL LUMINAIRES. IF NORMAL POWER IS LOST THE DEVICE WILL AUTOMATICALLY TURN ON EMERGENCY SUPPLIED FROM AN EMERGENCY CIRCUIT.
2. EXIT LIGHTING, LIGHTING IN EXIT CORRIDORS, AND LIGHTING IN EXIT STAIRWELLS SHALL MAINTAIN CODE COMPLIANT LIGHT LEVELS AND SHALL NOT BE SWITCHED.

3 SWITCHED EMERGENCY LIGHTING
NO SCALE



NOTES:
1. WIRING DIAGRAM SHOWN IS BASED ON WATTSTOPPER 'ELCU' SERIES TRANSFER RELAY REQUIREMENTS. VERIFY SPECIFIC WIRING REQUIREMENTS WITH MANUFACTURER OF CONTROL RELAY PROVIDED.
2. EXIT LIGHTING, LIGHTING IN EXIT CORRIDORS, AND LIGHTING IN EXIT STAIRWELLS SHALL MAINTAIN CODE COMPLIANT LIGHT LEVELS AND SHALL NOT BE DIMMED.

2 DIMMED EMERGENCY LIGHTING TRANSFER RELAY DETAIL
NO SCALE



NOTES:
1. PHOTOCELL CONTACTS CLOSE AT DUSK, OPEN AT DAYBREAK.
2. LIGHTING CONTACTOR AND H.O.A. SELECTOR SWITCH SHALL BE PROVIDED WITH HINGED DOOR AND LOCKABLE COVER

1 EXTERIOR EGRESS LIGHTING CONTROL VIA CONTACTOR 'LCE' (PHASE I & II)
NO SCALE

UNCW
University of North Carolina at Wilmington

Student Village Public-Private Partnership
601 S College Rd, Wilmington NC 28403

Balfour Beatty Campus Solutions

Balfour Beatty Construction

SCO# 18-19231-01E

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NORTH CAROLINA CORPORATE ENGINEERING LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

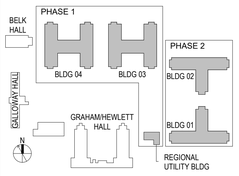
RETAIL/COMMON SPACES UPFITS PRICING SET - 11/1/2019
NOT FOR CONSTRUCTION

SUBMITTAL
11 JULY 2019
PHASE 1 (BLDGS 3 & 4) FOR CONSTRUCTION SET

REVISIONS

1	8/8/2019	ASI#3
2	10/22/19	ASI#5
3		ASI#6

KEY PLAN



SHEET
LUMINAIRE SCHEDULE & LIGHTING DETAILS

0EL-600

DESIGN: AJM
DRAWN: AJM
REVIEW: AJM

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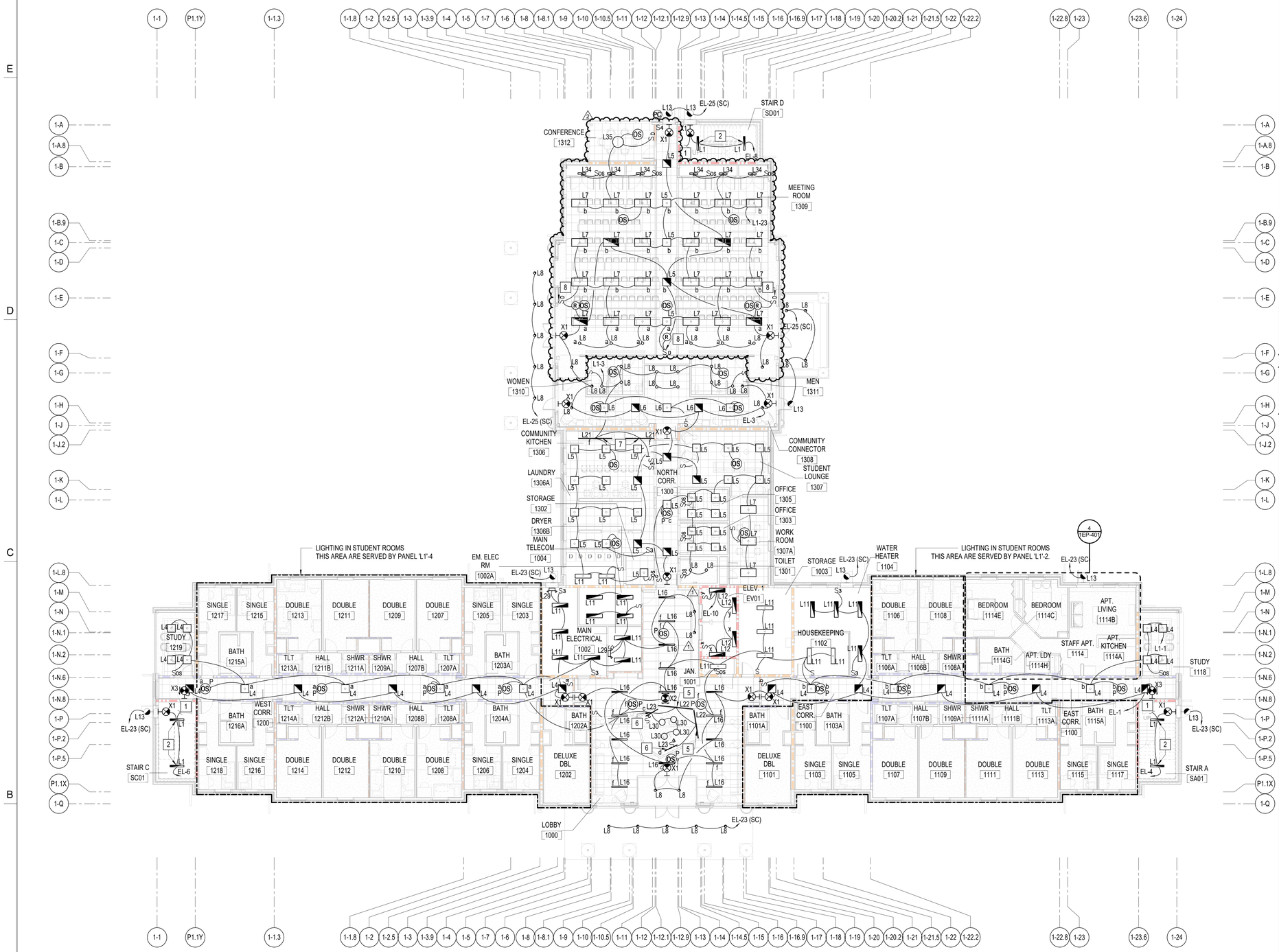

1 BLDG 01 - LEVEL 01 - LIGHTING PLAN

3/32" = 1'-0"

GENERAL NOTES

1. EMERGENCY LIGHTING SHALL BE SWITCHED TOGETHER WITH NORMAL LIGHTING IN ROOMS/AREAS WITH NORMAL SWITCHED LIGHTING. SEE DETAIL 3/0EL600.
2. LIGHTING CONTROLS AND LUMINAIRES DESIGNATED WITH LOWER CASE LETTERS INDICATE WHICH LUMINAIRE OR LAMPS SHALLBE CONTROLLED BY EACH LIGHTING CONTROL DEVICE.
3. LIGHTING CONTROLS AND LUMINAIRES WITHIN ENCLOSED SPACES WITHOUT LOWER CASE LETTER DESIGNATIONS SHALL CONTROL LUMINAIRES WITHIN THE SPACE; UNLESS OTHERWISE NOTED.
4. PROVIDE ROUND 3/8" DIAMETER GREEN-COLORED STICKER FOR INDICATING LUMINAIRES CONNECTED TO EMERGENCY POWER.

KEY NOTES

1 UP TO STAIRWELL LUMINAIRES.
2 INSTALL STAIRWELL LUMINAIRES PER PLAN LOCAITON. DO NOT CENTER ON LANDING.
3 NOT USED.
4 NOT USED.
5 SEE DETAIL C1, SHEET A-400 FOR INSTALLATION DETAIL.
6 SEE DETAIL 3, SHEET A-400 FOR INSTALLATION DETAIL FOR STRIP LIGHT AND SWITCH.
7 SEE DETAIL 3, SHEET A-425 FOR INSTALLATION DETAIL.
8 DIMMER SWITCH WITH ABILITY TO INDIVIDUALLY CONTROL TWO ZONES OF LIGHTING (MINIMUM), WITH TWO PRESETS (MINIMUM).

RATED PARTITION LEGEND

1 HR RATED WALL
2 HR RATED WALL

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

UNCW

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NORTH CAROLINA CORPORATE ENGINEERING LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

RETAIL/COMMON SPACES UPFITS PRICING SET - 11/1/2019

NOT FOR CONSTRUCTION

SUBMITTAL

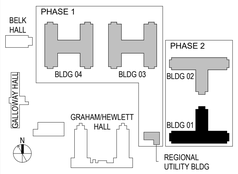
21 AUGUST 2019

PHASE 2 (BLDGS 1 & 2) FOR CONSTRUCTION SET

REVISIONS

1	10/22/19	ASI#5
2		ASI#6

KEY PLAN



SHEET

BUILDING 01 LEVEL 01 - LIGHTING PLAN

1EL-101

DESIGN: AJM
DRAWN: AJM
REVIEW: AJM

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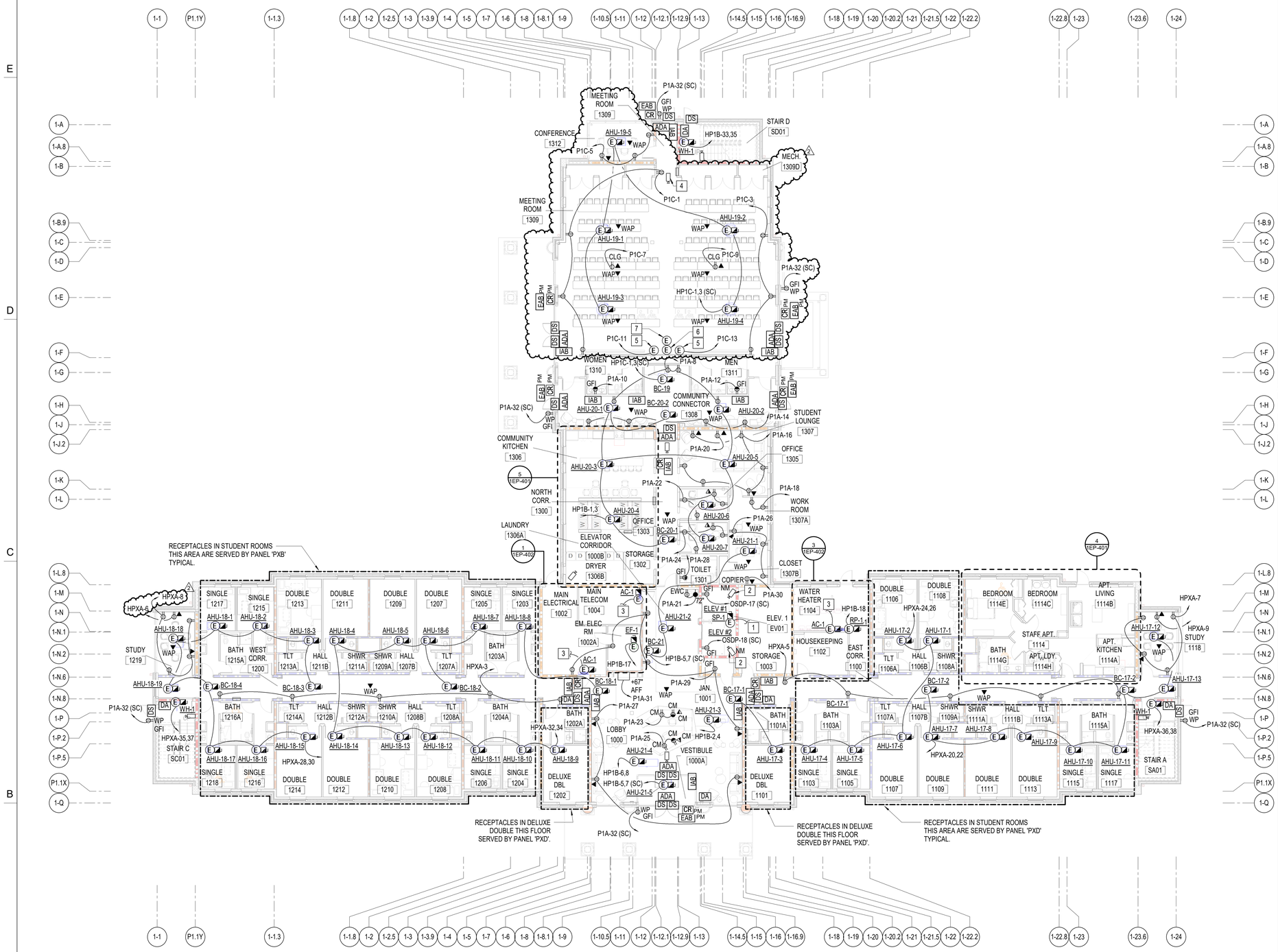

1 BLDG 01 - LEVEL 01 - POWER & TELECOM PLAN
3/32" = 1'-0"

GENERAL NOTES

1. REFER TO TYPICAL ENLARGED UNIT PLANS SHEET FOR ADDITIONAL WORK IN STUDENT BEDROOMS.
2. REFER TO ENLARGED POWER PLANS FOR ADDITIONAL WORK PER CALLOUT NOTED.

KEY NOTES

1. CONNECT TO SUMP PUMP CONTROLLER IN HOUSKEEPING RM. REFER TO SHEET 1EP402 FOR CONTINUATION.
2. NON-MONITORED SECURITY CAMERAS IN ELEVATOR. FIELD COORDINATE WITH ELEVATOR SUPPLIER.
3. TO ACHP-1 ON ROOF.
4. CEILING MOUNTED CAMERA WITH 180-DEGREE FIELD OF VIEW CAPABILITIES, THIS LOCATION ONLY.
5. SINGLE GANG BOX, MOUNTED 48" AFF FOR SCREEN CONTROLS. RUN 3/4" CONDUIT TO ABOVE SUSPENDED CEILING AND STUB OUT. INSTALL SCREEN CONTROLS PER MANUFACTURER'S RECOMMENDATONS.
6. DOUBLE GANG BOX AT 18" AFF. RUN 3/4" CONDUIT TO SINGLE GANG BOX ABOVE.
7. SINGLE GANG BOX AT 48" AFF FOR CONTROL PANEL. RUN 3/4" CONDUIT FOR AV TO ABOVE SUSPENDED CEILING AND STUB OUT.

RATED PARTITION LEGEND

1 HR RATED WALL

2 HR RATED WALL

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

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NORTH CAROLINA CORPORATE ENGINEERING LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

RETAIL/COMMON SPACES UPFITS PRICING SET - 11/1/2019

NOT FOR CONSTRUCTION

SUBMITTAL

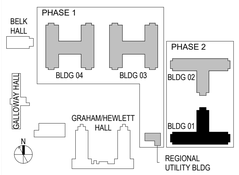
21 AUGUST 2019

PHASE 2 (BLDGS 1 & 2) FOR CONSTRUCTION SET

REVISIONS

1	8/30/2019	ASI#4
2		ASI#6

KEY PLAN



SHEET

BUILDING 01 LEVEL 01 - POWER & TELECOM PLAN

1EP-101

DESIGN: CRS
DRAWN: CRS
REVIEW: AJM

CN 7368

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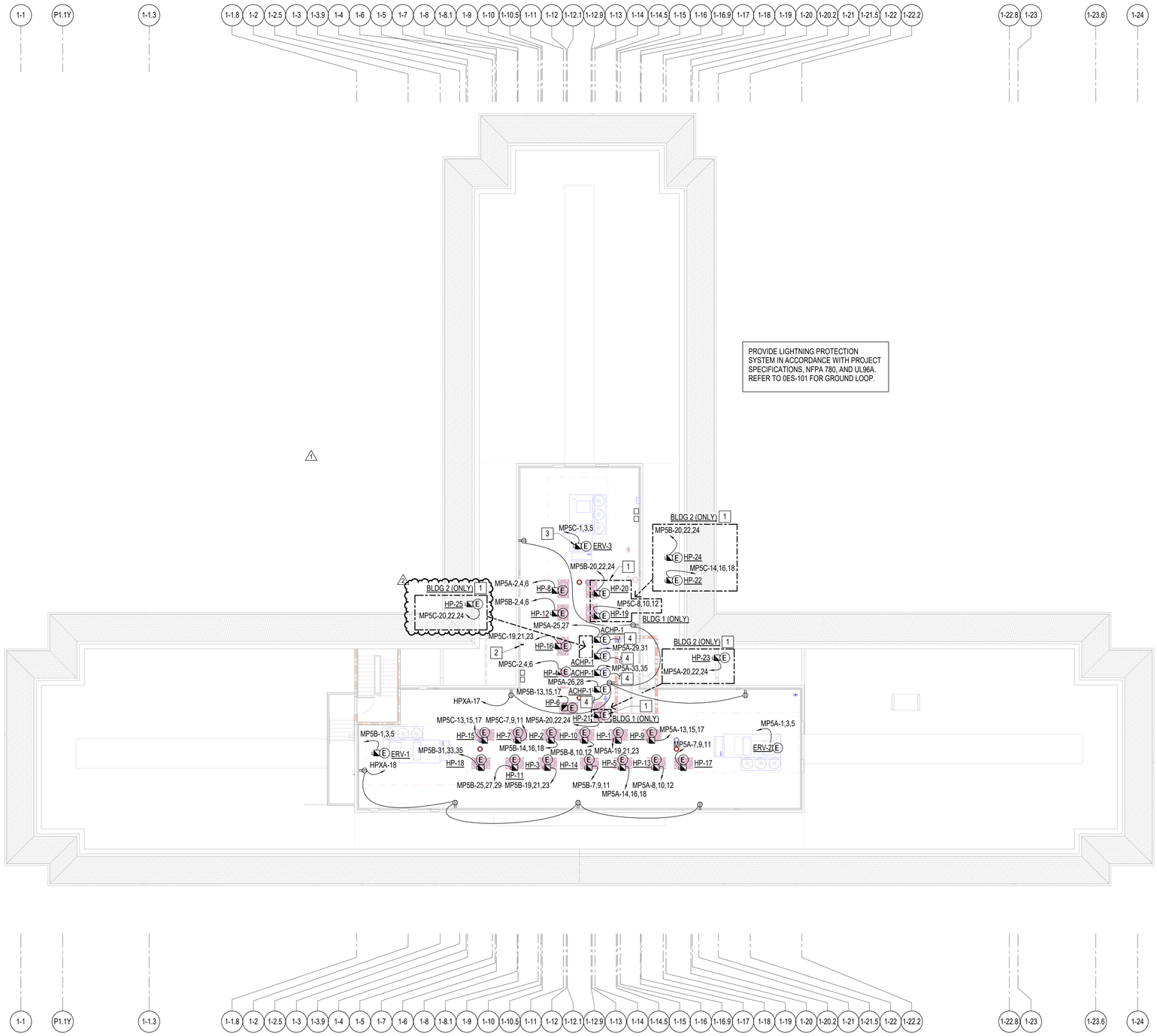


1 BLDG 01 - ATTIC & MECHANICAL PLATFORM POWER PLAN
3/32" = 1'-0"

(NOTE: BLDG 02 IS OPPOSITE HAND.)

GENERAL NOTES

KEY NOTES

1
2 (2) 2" CONDUITS STUBBED UP 6" ABOVE FLOOR IN MECHANICAL PLATFORM AND CAPPED. CONDUITS ORIGINATE FROM THE CEILING OF THE FOURTH FLOOR TELECOM ROOM TO SERVE THE FUTURE DAS SYSEM AS REQUIRED. FIELD COORDINATE SPECIFCS WITH OWNER.
3 ENERGY RECOVERY UNIT ERV-3 SERVES BUILDING 1 ONLY. THIS UNIT TO BE REPLACED WITH ERV-4 IN BUILDING 2. REFER TO MECHANICAL PLANS FOR THE EXACT LOCATION. TYPICAL.
4 TO AC-1 UNIT.

RATED PARTITION LEGEND

1 HR RATED WALL

2 HR RATED WALL

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

UNCW

University of North Carolina at Wilmington

Student Village Public-Private Partnership

601 S College Rd, Wilmington NC 28403

Balfour Beatty Campus Solutions

Balfour Beatty Construction

SCO# 18-19231-01F

DESIGNER

CLARKNEXSEN

1523 ELIZABETH AVENUE, SUITE 300
CHARLOTTE, NORTH CAROLINA 28204
704·377·8800

McKIM&CREED

CIVIL ENGINEER
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA
28401
910.343.1048

NORTH CAROLINA CORPORATE ENGINEERING LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

RETAIL/COMMON SPACES UPFITS PRICING SET - 11/1/2019

NOT FOR CONSTRUCTION

SUBMITTAL

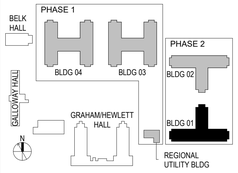
21 AUGUST 2019

PHASE 2 (BLDGS 1 & 2) FOR CONSTRUCTION SET

REVISIONS

1	8/30/2019	ASI#4
2		ASI#6

KEY PLAN



SHEET

BUILDING 01 - MECHANICAL PLATFORM & ATTIC POWER PLAN

1EP-106

DESIGN: CRS
DRAWN: CRS
REVIEW: AJM

CN 7368

11/1/2019 2:20:55 PM
C:\Revit Projects\18-19231_UNCW P3 HOUSING_PHASE 1 E17_REV_AMoody.rvt

PANEL HP1C SCHEDULE

225 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	BC-19, AHU-19-1-5 (BLDG 1)	3/4	12	20	3.5	0.4	A	0.3	3.3	20	12	3/4	AHU-24-1,2,3,4,5,6,BC-24 (BLDG 2)	2
3	AHU-23-1-6,BC-23-1(BLDG 2) NOTE 1				3.5	0.4	B	0.3	3.3				NOTE 5	4
5	AHU-23-7-11, BC-23-2 (BLDG 2)	3/4	12	20	3.4	0.4	C	0.3	3.1	20	12	3/4	BC-25, AH-25-1-7 (BLDG 2)	6
7	NOTE 5				3.4	0.4	A	0.3	3.1				NOTE 5	8
9	RECEPTS - MTG ROOM 1309 (BLDG 1)	3/4	12	20	6.0	0.7	B			20			SPARE	10
11	RECEPTS - MTG ROOM 1309 (BLDG 1)	3/4	12	20	4.5	0.5	C			20			SPARE	12
13	BUSSED SPACE						A			20			SPARE	14
15	BUSSED SPACE						B			20			SPARE	16
17	BUSSED SPACE						C						BUSSED SPACE	18
19	BUSSED SPACE						A						BUSSED SPACE	20
21	BUSSED SPACE						B						BUSSED SPACE	22
23	BUSSED SPACE						C						BUSSED SPACE	24
25	BUSSED SPACE						A						BUSSED SPACE	26
27	BUSSED SPACE						B						BUSSED SPACE	28
29	BUSSED SPACE						C						BUSSED SPACE	30
31	BUSSED SPACE						A	0.7	6.0	20	12	3/4	RECEPT OFFICE 1322 (BLDG 2) NOTE 2	32
33	RECEPT - SUCCESS CENTER (BLDG 2) NOTE 2	3/4	12	20	3.0	0.4	B	0.7	6.0	20	12	3/4	RECEPT OFFICE 1321 (BLDG 2) NOTE 2	34
35	RECEPT - SUCCESS CENTER (BLDG 2) NOTE 2	3/4	12	20	4.5	0.5	C	0.7	6.0	20	12	3/4	RECEPT - CONF. RM 1323 (BLDG 2) NOTE 2	36
37	RECEPT OFFICE 1320 (BLDG 2) NOTE 2	3/4	12	20	6.0	0.7	A			20			SPARE	38
39	RECEPT OFFICE 1319 (BLDG 2) NOTE 2	3/4	12	20	6.0	0.7	B			20			SPARE	40
41	SPARE			20			C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 23.5 B: 26.8 C: 20.7
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 23.5 B: 26.8 C: 20.7

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. SAME BRANCH CIRCUIT IS USED TO SERVE DIFFERENT EQUIPMENT IN BLDG. 1 AND BLDG. 2 AS NOTED. EQUIPMENT LOAD VARIES BETWEEN BUILDINGS, HIGHER LOAD IS SHOWN.
2. EQUIPMENT NOTED IS IN BLDG. 2 ONLY. CKT TO BE BUSSED SPACE IN BLDG 1.
3. NOT USED.
4. EQUIPMENT IS TEMPORARY. BRANCH CIRCUITS TO REMAIN AS SPARES FOR FUTURE.
5. EQUIPMENT NOTED IS IN BLDG. 2 ONLY. BRANCH CIRCUIT TO REMAIN AS SPARE IN BLDG. 1.

PANEL EL SCHEDULE

100 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	1ST LEVEL EMERGENCY LIGHTING	3/4	12	20	8.2	1.0	A	1.2	10.0	20	12	3/4	FACU (NOTE 2)	2
3	1ST LEVEL EMERGENCY LIGHTING	3/4	12	20	4.5	0.5	B	0.4	2.9	20	12	3/4	STAIRWELL A LIGHTING	4
5	2ND LEVEL EMERGENCY LIGHTING	3/4	12	20	2.7	0.3	C	0.4	2.9	20	12	3/4	STAIRWELL C LIGHTING	6
7	2ND LEVEL EMERGENCY LIGHTING	3/4	12	20	4.0	0.5	A	0.4	2.9	20	12	3/4	STAIRWELL D LIGHTING	8
9	3RD LEVEL EMERGENCY LIGHTING	3/4	12	20	2.7	0.3	B	0.2	1.7	20	12	3/4	ELEV. - 1ST FLOOR HOISTWAY LIGHTING	10
11	3RD LEVEL EMERGENCY LIGHTING	3/4	12	20	4.0	0.5	C	0.7	6.0	20	10	3/4	EMERGENCY BLUEPHONES (NOTE 2)	12
13	4TH LEVEL EMERGENCY LIGHTING	3/4	12	20	2.7	0.3	A	0.2	2.0	20	12	3/4	NAC EXTENDER (LEVEL 1) (NOTE 2)	14
15	4TH LEVEL EMERGENCY LIGHTING	3/4	12	20	4.0	0.5	B	0.2	2.0	20	12	3/4	NAC EXTENDER (LEVEL 2) (NOTE 2)	16
17	5TH LEVEL EMERGENCY LIGHTING	3/4	12	20	2.7	0.3	C	0.2	2.0	20	12	3/4	NAC EXTENDER (LEVEL 3) (NOTE 2)	18
19	5TH LEVEL EMERGENCY LIGHTING	3/4	12	20	4.0	0.5	A	0.2	2.0	20	12	3/4	NAC EXTENDER (LEVEL 4) (NOTE 2)	20
21	MECH. PLTF. LIGHTING	3/4	12	20	1.9	0.2	B	0.2	2.0	20	12	3/4	NAC EXTENDER (LEVEL 5) (NOTE 2)	22
23	EXTERIOR EGRESS LIGHTING	3/4	12	20	1.4	0.2	C	0.2	1.9	20	12	3/4	TSD -1 (LEVEL 1) (NOTE 2)	24
25	EXTERIOR EGRESS LIGHTING	3/4	12	20	2.0	0.2	A	0.2	1.9	20	12	3/4	TSD-2 (LEVEL 1) (NOTE 2)	26
27	ELEV #1 CAB LIGHTS	3/4	12	20	2.0	0.2	B	0.2	1.9	20	12	3/4	TSD-1 (LEVEL 2) (NOTE 2)	28
29	ELEV #2 CAB LIGHTS	3/4	12	20	2.0	0.2	C	0.2	1.9	20	12	3/4	TSD-2 (LEVEL 2) (NOTE 2)	30
31	ELEV. - 5TH FLOOR HOISTWAY LIGHTING	3/4	12	20	1.7	0.2	A	0.2	1.9	20	12	3/4	TSD-1 (LEVEL 3) (NOTE 2)	32
33	SPARE			20			B	0.2	1.9	20	12	3/4	TSD-2 (LEVEL 3) (NOTE 2)	34
35	LCE CONTACTOR COIL	3/4	12	20	2.0	0.2	C	0.2	1.9	20	12	3/4	TSD-1 (LEVEL 4) (NOTE 2)	36
37	SPD	3/4	10	30			A	0.2	1.9	20	12	3/4	TSD-2 (LEVEL 4) (NOTE 2)	38
39	(NOTE 1)						B	0.2	1.9	20	12	3/4	TSD-1 (LEVEL 5) (NOTE 2)	40
41							C	0.2	1.9	20	12	3/4	TSD-2 (LEVEL 5) (NOTE 2)	42

TOTAL AMPS (CONN. LOAD) A: 45.2 B: 29.4 C: 33.4
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 45.2 B: 29.4 C: 33.4

PANELBOARD OPTIONS:
1. PROVIDE EXTERNALLY MOUNTED SPD.

PANELBOARD NOTES:
1. BREAKER RATING AND WIRE SIZE MAY VARY PER MANUFACTURER. PROVIDE BREAKER AND WIRE SIZE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. PROVIDE LOCK OUT HANDLE FOR BREAKER IN "ON" POSITION. PAINT BREAKER HANDLE RED.

PANEL OSDP SCHEDULE

225 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	SPARE			20			A			20			SPARE	2
3	SPARE			20			B			20			SPARE	4
5	SPARE			20			C			20			SPARE	6
7	SPARE			20			A			20			SPARE	8
9	SMOKE CURTAIN - ELEV 1 FLR 2	3/4	12	20	2.0	0.2	B	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 2 FLR 2	10
11	SMOKE CURTAIN - ELEV 1 FLR 3	3/4	12	20	2.0	0.2	C	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 2 FLR 3	12
13	SMOKE CURTAIN - ELEV 1 FLR 4	3/4	12	20	2.0	0.2	A	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 2 FLR 4	14
15	SMOKE CURTAIN - ELEV 1 FLR 5	3/4	12	20	2.0	0.2	B	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 2 FLR 5	16
17	RECEPT - GFI ELEV 1 MACH/PIT/SHAFT	3/4	12	20	4.5	0.5	C	0.5	4.5	20	12	3/4	RECEPT - GFI ELEV 2 MACH/PIT/SHAFT	18
19	SPARE			20			A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
25	BUSSED SPACE						A						BUSSED SPACE	26
27	BUSSED SPACE						B						BUSSED SPACE	28
29	BUSSED SPACE						C	1.2	10.0	20	12	3/4	EMERG. COMM BASE STATION	30
31	BUSSED SPACE						A			20	12	3/4	SPARE	32
33	BUSSED SPACE						B	0.2	2.0	20	12	3/4	EMERG. COMM REMOTE STATION	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	PANEL T1	*	*	100	38.8	4.7	A			30	10	3/4	SPD (NOTE 1)	38
39	NOTE 2)				38.8	4.7	B							40
41					24.0	2.9	C							42

TOTAL AMPS (CONN. LOAD) A: 42.8 B: 48.8 C: 47.0
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 42.8 B: 48.8 C: 47.0

PANELBOARD OPTIONS:
1. PROVIDE EXTERNALLY MOUNTED SPD.

PANELBOARD NOTES:
1. BREAKER RATING AND WIRE SIZE MAY VARY PER MANUFACTURER. PROVIDE BREAKER AND WIRE SIZE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. * INDICATES WIRE AND CONDUIT SIZE ARE SHOWN ON THE FEEDER SCHEDULE, SHEET 1EP-600.

PANEL P1C SCHEDULE

225 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	RECEPTS - MTG ROOM 1309	3/4	12	20	6.0	0.7	A			20			SPARE	2
3	RECEPTS - MTG ROOM 1309	3/4	12	20	4.5	0.5	B			20			SPARE	4
5	RECEPTS - CONFERENCE 1312	3/4	12	20	4.5	0.5	C			20			SPARE	6
7	PROJECTOR - MTG ROOM 1309	3/4	12	20	3.5	0.4	A			20			SPARE	8
9	PROJECTOR - MTG ROOM 1309	3/4	12	20	3.5	0.4	B			20			SPARE	10
11	PROJECTOR SCREEN CONTROL	3/4	12	20			C			20			SPARE	12
13	PROJECTOR SCREEN CONTROL	3/4	12	20			A			20			SPARE	14
15	INSTRUCTOR'S PC	3/4	12	20	4.2	0.5	B			20			SPARE	16
17	DA AMPLIFIER	3/4	12	20	0.5	0.1	C			20			SPARE	18
19	XPA AMPLIFIER	3/4	12	20			A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
25	SPARE			20			A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	SPARE			20			A			20			SPARE	32
33	SPARE			20			B			20			SPARE	34
35	SPARE			20			C			20			SPARE	36
37	SPARE			20			A			20			SPARE	38
39	SPARE			20			B			20			SPARE	40
41	SPARE			20			C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 9.5 B: 12.2 C: 5.0
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 9.5 B: 12.2 C: 5.0

PANELBOARD OPTIONS:

PANELBOARD NOTES:

PANEL T1 SCHEDULE

100 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	L620R RECEPTACLE	3/4	12	20	12.0	1.3	A	1.3	12.0	20	12	3/4	L620R RECEPTACLE	2
3					12.0	1.3	B	1.3	12.0					4
5	RECEPTACLE	3/4	12	20	3.0	0.4	C	0.4	3.0	20	12	3/4	RECEPTACLE	6
7	RECEPTACLE	3/4	12	20	3.0	0.4	A	0.4	3.0	20	12	3/4	RECEPTACLE	8
9	RECEPTACLE	3/4	12	20	3.0	0.4	B	0.4	3.0	20	12	3/4	RECEPTACLE	10
11	RECEPTACLE	3/4	12	20	3.0	0.4	C	0.4	3.0	20	12	3/4	RECEPTACLE	12
13	RECEPTACLE	3/4	12	20	3.0	0.4	A	0.4	3.0	20	12	3/4	RECEPTACLE	14
15	RECEPTACLE	3/4	12	20	3.0	0.4	B	0.4	3.0	20	12	3/4	RECEPTACLE	16
17	RECEPTACLE	3/4	12	20	3.0	0.4	C	0.4	3.0	20	12	3/4	RECEPTACLE	18
19	RECEPTACLE	3/4	12	20	3.0	0.4	A	0.4	3.0	20	12	3/4	RECEPTACLE	20
21	RECEPTACLE	3/4	12	20	3.0	0.4	B	0.4	3.0	20	12	3/4	RECEPTACLE	22
23	RECEPTACLE	3/4	12	20	3.0	0.4	C	0.4	3.0	20	12	3/4	RECEPTACLE	24
25	SPARE			20			A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A			30	10	3/4	SPD (NOTE 1)	38
39	BUSSED SPACE						B							40
41	BUSSED SPACE						C							42

TOTAL AMPS (CONN. LOAD) A: 38.8 B: 38.8 C: 24.0
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 38.8 B: 38.8 C: 24.0

PANELBOARD OPTIONS:
1. PROVIDE EXTERNALLY MOUNTED SPD.

PANELBOARD NOTES:
1. BREAKER RATING AND WIRE SIZE MAY VARY PER MANUFACTURER. PROVIDE BREAKER AND WIRE SIZE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

PANEL LR SCHEDULE

100 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	ELEV - 1	*	*	60	34.0	4.1	A	3.2	27.0	50	*	*	ELEV - 2	2
3	(VIA ATS2)				34.0	4.1	B	3.2	27.0				(VIA ATS2)	4
5					34.0	4.1	C	3.2	27.0					6
7	SHUNT TRIP						A						SHUNT TRIP	8
9	BUSSED SPACE						B						BUSSED SPACE	10
11	BUSSED SPACE						C						BUSSED SPACE	12
13	BUSSED SPACE						A						BUSSED SPACE	14
15	BUSSED SPACE						B						BUSSED SPACE	16
17	BUSSED SPACE						C						BUSSED SPACE	18
19	BUSSED SPACE						A						BUSSED SPACE	20
21	BUSSED SPACE						B						BUSSED SPACE	22
23	BUSSED SPACE						C						BUSSED SPACE	24
25	BUSSED SPACE						A						BUSSED SPACE	26
27	BUSSED SPACE						B						BUSSED SPACE	28
29	BUSSED SPACE						C						BUSSED SPACE	30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A			30	10	3/4	SPD (NOTE 1)	38
39	BUSSED SPACE						B							40
41	BUSSED SPACE						C							42

TOTAL AMPS (CONN. LOAD) A: 61.0 B: 61.0 C: 61.0
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 61.0 B: 61.0 C: 61.0

PANELBOARD OPTIONS:
1. PROVIDE EXTERNALLY MOUNTED SPD.

PANELBOARD NOTES:
1. BREAKER RATING AND WIRE SIZE MAY VARY PER MANUFACTURER. PROVIDE BREAKER AND WIRE SIZE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. * INDICATES WIRE AND CONDUIT SIZE ARE SHOWN ON THE FEEDER SCHEDULE, SHEET 1EP-600.

PANEL L1 SCHEDULE

150 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	1ST LEVEL GENERAL LIGHTING	3/4	12	20	11.8	1.4	A	0.8	6.6	20	12	3/4	1ST LEVEL STUDENT BDRM LTG (NOTE 1)	2
3	1ST LEVEL GENERAL LIGHTING	3/4	12	20	13.3	1.6	B	1.2	10.2	20	12	3/4	1ST LEVEL STUDENT BDRM LTG (NOTE 1)	4
5	2ND LEVEL GENERAL LIGHTING	3/4	12	20	4.4	0.5	C	1.4	12.0	20	12	3/4	2ND LEVEL STUDENT BDRM LTG (NOTE 1)	6
7	2ND LEVEL GENERAL LIGHTING	3/4	12	20	3.1	0.4	A	1.4	11.4	20	12	3/4	2ND LEVEL STUDENT BDRM LTG (NOTE 1)	8
9	3RD LEVEL GENERAL LIGHTING	3/4	12	20	4.4	0.5	B	1.4	12.0	20	12	3/4	2ND LEVEL STUDENT BDRM LTG (NOTE 1)	10
11	3RD LEVEL GENERAL LIGHTING	3/4	12	20	3.1	0.4	C	1.4	12.0	20	12	3/4	3RD LEVEL STUDENT BDRM LTG (NOTE 1)	12
13	4TH LEVEL GENERAL LIGHTING	3/4	12	20	4.4	0.5	A	1.4	11.4	20	12	3/4	3RD LEVEL STUDENT BDRM LTG (NOTE 1)	14
15	4TH LEVEL GENERAL LIGHTING	3/4	12	20	3.1	0.4	B	1.4	12.0	20	12	3/4	3RD LEVEL STUDENT BDRM LTG (NOTE 1)	16
17	5TH LEVEL GENERAL LIGHTING	3/4	12	20	4.4	0.5	C	1.4	12.0	20	12	3/4	4TH LEVEL STUDENT BDRM LTG (NOTE 1)	18
19	5TH LEVEL GENERAL LIGHTING	3/4	12	20	3.1	0.4	A	1.4	11.4	20	12	3/4	4TH LEVEL STUDENT BDRM LTG (NOTE 1)	20
21	MECH. PLTF. LIGHTING	3/4	12	20	2.4	0.3	B	1.4	12.0	20	12	3/4	4TH LEVEL STUDENT BDRM LTG (NOTE 1)	22
23	LIGHTING - MEETING ROOM 1309	3/4	12	20	10.5	1.3	C	1.4	12.0	20	12	3/4	5TH LEVEL STUDENT BDRM LTG (NOTE 1)	24
25	SPARE			20			A	1.4	11.4	20	12	3/4	5TH LEVEL STUDENT BDRM LTG (NOTE 1)	26
27	SPARE			20			B	1.4	12.0	20	12	3/4	5TH LEVEL STUDENT BDRM LTG (NOTE 1)	28
29	SPARE			20			C	1.2	10.2	20	12	3/4	1ST LEVEL SOUTHEAST LTG (NOTE 2)	30
31	SPARE			20			A			20			SPARE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: 74.9 B: 81.5 C: 80.6
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 74.9 B: 81.5 C: 80.6

PANELBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.

PANELBOARD NOTES:
1. PROVIDE COMBINATION ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER FOR THIS CIRCUIT.
2. CIRCUITRY AND LOAD APPLY TO BUILDING 2 ONLY. CIRCUIT TO REMAIN AS A SPARE IN BUILDING 1.

PANEL 1A SCHEDULE

100 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	RECEPT - KITCHEN/DINING	3/4	12	20	1.5	0.2	A	0.3	2.4	20	12	3/4	LIGHTING (NOTE 2)	2
3	RECEPT - LIVING ROOM	3/4	12	20	10.5	1.3	B	0.4	3.0	20	12	3/4	GFI RECEPT - KITCHEN COUNTER	4
5	RECEPT - BEDROOM	3/4	12	20	9.0	1.1	C	0.4	3.0	20	12	3/4	GFI RECEPT - KITCHEN COUNTER	6
7	TV - BEDROOM	3/4	12	20	6.0	0.7	A	0.4	3.0	20	12	3/4	GFI RECEPT - KITCHEN COUNTER	8
9	GFI - BATHROOM	3/4	12	20	1.5	0.2	B	1.6	13.0	20	12	3/4	WASHER	10
11	DISHWASHER	3/4	12	20	16.0	1.9	C	0.7	6.0	20	12	3/4	TV - LIVING ROOM	12
13	TV - BEDROOM	3/4	12	20	6.0	0.7	A	0.2	2.0	20	12	3/4	EXHAUST HOOD	14
15	RECEPT - BEDROOM	3/4	12	20	7.5	0.9	B	0.2	1.5	20	12	3/4	EXTERIOR RECEPTACLE	16
17	REFRIGERATOR	3/4	12	20	12.5	1.5	C	2.5	24.0	30	10	3/4	DRYER	18
19	RANGE	3/4	8	40	32.0	3.3	A	2.5	24.0					20
21					32.0	3.3	B	0.2	2.0	15	12	3/4	AHU-17-14	22
23	SPARE			20			C	0.2	2.0					24
25	SPARE			20			A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	BUSSED SPACE						C			20			SPARE	30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: 69.5 B: 66.5 C: 69.1
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 69.5 B: 66.5 C: 69.1

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. PANELBOARD TO BE METERED. FIELD COORDINATE SPECIFICS WITH OWNER.
2. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.

SWBD MSB SCHEDULE

2500 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN FLOOR MOUNTED SE RATED

	COMPARTMENT DESCRIPTION LOAD SERVED	COND	WIRE	AF AT	AMPS	KVA	PH
	INCOMING CABLE COMPARTMENT		7 sets 500				
	MAIN CIRCUIT BREAKER			2500 2500			
	CUSTOMER METERING COMPARTMENT						
A1	PANEL EL	*	*	100	45.2	5.4	A
	(VIA 1-ATS1)			100	29.4	3.5	B
					33.4	4.0	C
A2	PANEL OSDP	*	*	250	42.8	5.1	A
	(VIA 1-ATS2)			200	48.8	5.9	B
					47.0	5.6	C
A3	DISTRIBUTION PANEL DP1	*	*	600	448.1	53.8	A
				600	459.3	55.1	B
					430.9	51.7	C
A4	DISTRIBUTION PANEL DPX	*	*	600	234.0	28.1	A
	(LEVEL 2)			600	287.1	34.4	B
					307.0	36.8	C
A5	DISTRIBUTION PANEL DPX	*	*	600	234.0	28.1	A
	(LEVEL 3)			600	287.1	34.4	B
					307.0	36.8	C
A6	DISTRIBUTION PANEL DPX	*	*	600	234.0	28.1	A
	(LEVEL 4)			600	287.1	34.4	B
					307.0	36.8	C
A7	DISTRIBUTION PANEL DPX	*	*	600	234.0	28.1	A
	(LEVEL 5)			600	287.1	34.4	B
					307.0	36.8	C
A8	PANEL L1	*	*	250	74.9	9.0	A
				150	81.5	9.8	B
					80.6	9.7	C
A9	PANEL LP	*	*	300	214.7	25.8	A
				300	214.7	25.8	B
					214.7	25.8	C
A10	PANEL MP5A	*	*	600	446.9	53.6	A
				600	446.9	53.6	B
					433.9	52.1	C
A11	PANEL MP5B	*	*	600	454.1	54.5	A
				600	454.1	54.5	B
					454.1	54.5	C
A12	PANEL MP5C	*	*	600	420.3	50.4	A
				600	420.3	50.4	B
					420.3	50.4	C
A13	PANEL SL	*	*	100			A
				100			B
							C
A14							A
							B
							C
A15							A
							B
							C
A16							A
							B
							C
A17							A
							B
							C
A18							A
							B
							C

TOTAL CONNECTED AMPS A: 3083.1 B: 3303.3 C: 3343.0

SWITCHBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.
2. PROVIDE 100% RATED MCB.
3. PROVIDE GROUND FAULT PROTECTION.
4. PROVIDE INTERNALLY MOUNTED SPD.

SWITCHBOARD NOTES:

LOAD DESCRIPTION	PANEL CONN. LOAD		SUBFEED CONN. LOAD		TOTAL LOAD		D.F.	TOTAL DEMAND	
LIGHTING		KVA	36.0	KVA	36.0	KVA	1.25	45.0	KVA
RECEPTACLES		KVA	332.1	KVA	332.1	KVA	NEC	171.0	KVA
MECH EQUIP		KVA	532.1	KVA	532.1	KVA	0.83	441.6	KVA
ELECTRIC HEAT		KVA	43.9	KVA	43.9	KVA	1.25	54.9	KVA
MISCELLANEOUS		KVA	121.3	KVA	121.3	KVA	0.80	97.1	KVA
ELEVATOR		KVA		KVA		KVA	0.80		KVA
		KVA		KVA		KVA			KVA
		KVA		KVA		KVA			KVA
		KVA		KVA		KVA			KVA
		KVA		KVA		KVA			KVA
		KVA		KVA		KVA			KVA
		KVA		KVA		KVA			KVA
TOTALS (CONN. KVA)		KVA	1065.5	KVA	1065.5	KVA		809.7	KVA
TOTALS (CONN. KVA + 0% SPARE)		KVA	1065.5	KVA	1065.5	KVA		809.7	KVA
TOTALS (CONN. AMPS)		AMPS	2957.4	AMPS	2957.4	AMPS		2247.5	AMPS
TOTALS (CONN. KVA + 0% SPARE)		AMPS	2957.4	AMPS	2957.4	AMPS		2247.5	AMPS

PANEL LP SCHEDULE

300 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	WASHER	3/4	12	20	12.0	1.4	A	1.4	12.0	20	12	3/4	WASHER	2
3	WASHER	3/4	12	20	12.0	1.4	B	1.4	12.0	20	12	3/4	WASHER	4
5	WASHER	3/4	12	20	12.0	1.4	C	1.4	12.0	20	12	3/4	WASHER	6
7	WASHER	3/4	12	20	12.0	1.4	A	1.4	12.0	20	12	3/4	WASHER	8
9	WASHER	3/4	12	20	12.0	1.4	B	1.4	12.0	20	12	3/4	WASHER	10
11	WASHER	3/4	12	20	12.0	1.4	C	1.4	12.0	20	12	3/4	WASHER	12
13	DRYER	3/4	10	30	24.0	2.5	A	2.5	24.0	30	10	3/4	DRYER	14
15					24.0	2.5	B	2.5	24.0					16
17	DRYER	3/4	10	30	24.0	2.5	C	2.5	24.0	30	10	3/4	DRYER	18
19					24.0	2.5	A	2.5	24.0					20
21	DRYER	3/4	10	30	24.0	2.5	B	2.5	24.0	30	10	3/4	DRYER	22
23					24.0	2.5	C	2.5	24.0					24
25	DRYER	3/4	10	30	24.0	2.5	A	2.5	24.0	30	10	3/4	DRYER	26
27					24.0	2.5	B	2.5	24.0					28
29	DRYER	3/4	10	30	24.0	2.5	C	2.5	24.0	30	10	3/4	DRYER	30
31					24.0	2.5	A	2.5	24.0					32
33	DRYER	3/4	10	30	24.0	2.5	B	2.5	24.0	30	10	3/4	DRYER	34
35					24.0	2.5	C	2.5	24.0					36
37	SPARE			20			A			20			SPARE	38
39	SPARE			20			B			20			SPARE	40
41	SPARE			20			C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 214.7 B: 214.7 C: 214.7
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 214.7 B: 214.7 C: 214.7

PANELBOARD OPTIONS:

PANELBOARD NOTES:

PANEL HP1B SCHEDULE

100 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	AHU-20-1-7, BC-20-1, BC-20-2 (BLDG 1)	3/4	12	20	5.6	0.6	A	0.5	5.2	20	12	3/4	AHU-21-3 LOBBY (BLDG 1) NOTE 1	2
3	NOTE 2				5.6	0.6	B	0.5	5.2				AHU-22-1 LOBBY (BLDG 2) NOTE 1	4
5	AHU'S-21-1, 21-2, 21-5, BC-21 (BLDG 1)	3/4	12	20	2.6	0.3	C	0.5	5.2	20	12	3/4	AHU-21-4 LOBBY (BLDG 1) NOTE 1	6
7	AHU-22-3-6, BC-22-1 (BLDG 2) NOTE 1				2.6	0.3	A	0.5	5.2				AHU-22-2 LOBBY (BLDG. 2) NOTE 1	8
9	SPARE			20			B			20			SPARE	10
11	SPARE			20			C			20			SPARE	12
13	SPARE			20			A			20			SPARE	14
15	SPARE			20			B			20			SPARE	16
17	EF-1 EMERG ELEC ROOM	3/4	12	15	1.1	0.1	C	0.5	4.4	15			RP-1 WATER HEATER RM.	18
19	SPARE			20			A	1.3	10.6	20	12	3/4	SP-1	20
21	BAS PANEL - HOUSEKEEPING RM	3/4	12	20	2.0	0.2	B	1.3	10.6				(WIRED VIA SUMP PUMP CONTROLLER)	22
23	RECEPT - HOUSEKEEPING	3/4	12	20	6.0	0.7	C	1.3	10.6				IN HOUSEKEEPING RM)	24
25	RECEPT - MICRO - HOUSEKEEPING	3/4	12	20	10.0	1.2	A	1.1	9.0	20	12	3/4	GWH-1, GWH-2 WATER HEATER RM	26
27	RECEPT - REFRIG - HOUSEKEEPING	3/4	12	20	12.5	1.5	B	1.1	9.0	20	12	3/4	GWH-3, GWH-4 WATER HEATER RM	28
29	WATER HEATER RM - EPO CNTRLR	3/4	12	20	2.0	0.2	C	1.1	9.0	20	12	3/4	GWH-5, GWH-6 WATER HEATER RM	30
31	RECEPT - WATER METER	3/4	12	20	2.0	0.2	A	1.1	9.0	20	12	3/4	GWH-7, GWH-8 WATER HEATER RM	32
33	WH-1	3/4	10	25	19.2	2.0	B	1.1	9.0	20	12	3/4	GWH-9, GWH-10 WATER HEATER RM	34
35					19.2	2.0	C	1.1	9.0	20	12	3/4	GWH-11, GWH-12 WATER HEATER RM	36
37	HEARING IMPAIRED SYSTEM			20	10.0	1.2	A			20			SPARE	38
39	HEARING IMPAIRED SYSTEM			20	10.0	1.2	B			20			SPARE	40
41	HEARING IMPAIRED SYSTEM			20	10.0	1.2	C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 66.8 B: 79.1 C: 75.6
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 66.8 B: 79.1 C: 75.6

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. SAME BRANCH CIRCUIT IS USED TO SERVE DIFFERENT EQUIPMENT IN BLDG. 1 AND BLDG. 2 AS NOTED. EQUIPMENT LOAD VARIES BETWEEN BUILDINGS, HIGHER LOAD IS SHOWN.
2. EQUIPMENT NOTED IS IN BLDG. 1 ONLY. BRANCH CIRCUIT TO REMAIN AS SPARE IN BUILDING 2.

PANEL SL SCHEDULE

100 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	BUSSED SPACE						A						BUSSED SPACE	2
3	BUSSED SPACE						B						BUSSED SPACE	4
5	BUSSED SPACE						C						BUSSED SPACE	6
7	BUSSED SPACE						A						BUSSED SPACE	8
9	BUSSED SPACE						B						BUSSED SPACE	10
11	BUSSED SPACE						C						BUSSED SPACE	12
13	BUSSED SPACE						A						BUSSED SPACE	14
15	BUSSED SPACE						B						BUSSED SPACE	16
17	BUSSED SPACE						C						BUSSED SPACE	18
19	BUSSED SPACE						A						BUSSED SPACE	20
21	BUSSED SPACE						B						BUSSED SPACE	22
23	BUSSED SPACE						C						BUSSED SPACE	24
25	BUSSED SPACE						A						BUSSED SPACE	26
27	BUSSED SPACE						B						BUSSED SPACE	28
29	BUSSED SPACE						C						BUSSED SPACE	30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: B: C:
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: B: C:

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. THIS PANELBOARD IS FOR FUTURE SITEWORK.

PANEL P1A SCHEDULE

150 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	REFRIGERATOR -KITCHEN	3/4	12	20	12.5	1.5	A	1.5	12.5	20	12	3/4	RECEPT - VENDING (NOTE 1)	2
3	REFRIGERATOR - KITCHEN	3/4	12	20	12.5	1.5	B	1.5	12.5	20	12	3/4	RECEPT - VENDING (NOTE 1)	4
5	RECEPT - GFI - KITCHEN	3/4	12	20	3.0	0.4	C	0.9	7.5	20	12	3/4	RECEPT -LAUNDRY	6
7	RECEPT - GFI - KITCHEN	3/4	12	20	3.0	0.4	A	0.9	7.5	20	12	3/4	RECEPT - BLDG 1 & 2 (NOTE 2 & 5)	8
9	MICRO - KITCHEN	3/4	12	20	10.0	1.2	B	0.2	1.5	20	12	3/4	RECEPT - GFI WOMENS	10
11	MICRO - KITCHEN	3/4	12	20	10.0	1.2	C	0.2	1.5	20	12	3/4	RECEPT - GFI MENS	12
13	RANGE - KITCHEN	3/4	8	40	32.0	3.3	A	0.7	6.0	20	12	3/4	RECEPT - BLDG 1 & 2 (NOTE 2 & 5)	14
15					32.0	3.3	B	1.1	9.0	20	12	3/4	RECEPT - BLDG 1 & 2 (NOTE 3 & 5)	16
17	EXHAUST HOOD - KITCHEN	3/4	12	20	2.0	0.2	C	0.7	6.0	20	12	3/4	RECEPT - WORKROOM	18
19	DISHWASHER - KITCHEN	3/4	12	20	16.0	1.9	A	0.7	6.0	20	12	3/4	RECEPT - BLDG 1 & 2 (NOTE 4 & 5)	20
21	RECEPT - GFI EWC (P-6)	3/4	12	15	4.4	0.5	B	0.7	6.0	20	12	3/4	RECEPT - OFFICE	22
23	RECEPT - RECEPTION DESK	3/4	12	20	3.0	0.4	C	0.7	6.0	20	12	3/4	RECEPT - OFFICE (BLDG 1) NOTE 6	24
25	RECEPT - RECEPTION DESK	3/4	12	20	3.0	0.4	A	0.7	6.0	20	12	3/4	RECEPT - WORKROOM	26
27	RECEPT - LOBBY	3/4	12	20	4.5	0.5	B	0.2	1.5	20	12	3/4	RECEPT - GFI TOILET	28
29	RECEPT - LOBBY	3/4	12	20	9.0	1.1	C	0.2	1.5	20	12	3/4	RECEPT - COPIER	30
31	RECEPT - LOBBY TV	3/4	12	20	6.0	0.7	A	1.1	9.0	20	12	3/4	RECEPT - EXTERIOR GFI	32
33	SPARE			20			B			20			SPARE	34
35	SPARE			20			C			20			SPARE	36
37	SPARE			20			A			20			SPARE	38
39	SPARE			20			B			20			SPARE	40
41	SPARE			20			C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 115.3 B: 89.7 C: 49.5
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 115.3 B: 89.7 C: 49.5

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. CIRCUIT VIA DEADFRONT GFCI DEVICE.
2. BRANCH CIRCUIT SERVES COMM. CONN. (BLDG 1) OFFICE (BLDG 2).
3. BRANCH CIRCUIT SERVES STUDENT LOUNGE (BLDG 1) LOBBY 2-1311 (BLDG 2).
4. BRANCH CIRCUIT SERVES LOUNGE TV (BLDG 1) LOBBY 2-1311 (BLDG 2)
5. THE HIGHEST LOAD FOR ROOM SPACES IS NOTED. CONTRACTOR TO PROVIDE RESPECTIVE BRANCH CIRCUIT LABEL FOR EACH SPACE. TYPICAL.
6. BRANCH CIRCUIT SERVES BLDG. 1 LOAD ONLY. CKT TO BE SPARE IN BLDG. 2.

HP1C	EL	OSDP
P1C	T1	LR
L1	1A	MSB
LP	HP1B	
SL	P1A	

UNCW®
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Public-Private Partnership
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Balfour Beatty
Construction

SCO# 18-19231-01F

DESIGNER

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NORTH CAROLINA CORPORATE ENGINEERING
LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

RETAIL/COMMON
SPACES UPFITS
PRICING SET - 11/1/2019

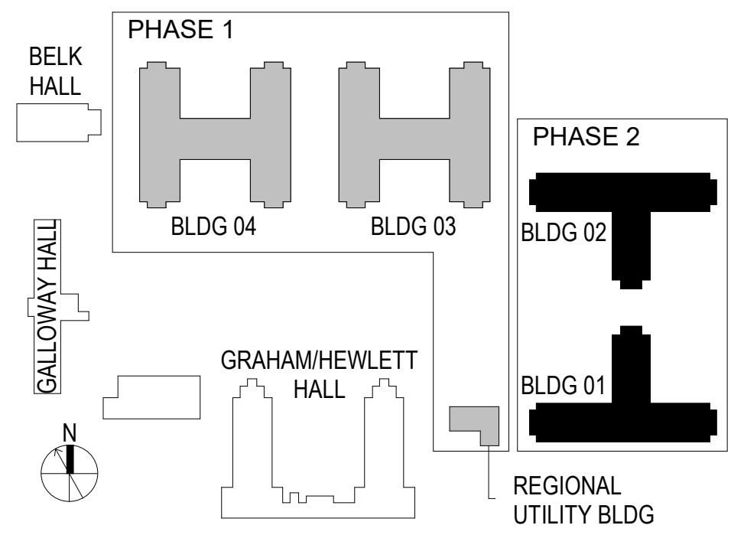
NOT FOR CONSTRUCTION

SUBMITTAL
21 AUGUST 2019
PHASE 2 (BLDGS 1 & 2)
FOR CONSTRUCTION SET

REVISIONS

1	8/30/2019	ASI#4
2	10/22/19	ASI#5
3		ASI#6

KEY PLAN



SHEET
FIRST FLOOR PANELBOARD
SCHEDULES

1EP-601

DESIGN: CRS
DRAWN: CRS
REVIEW: AJM

CN 7368

11/1/2019 2:19:03 PM
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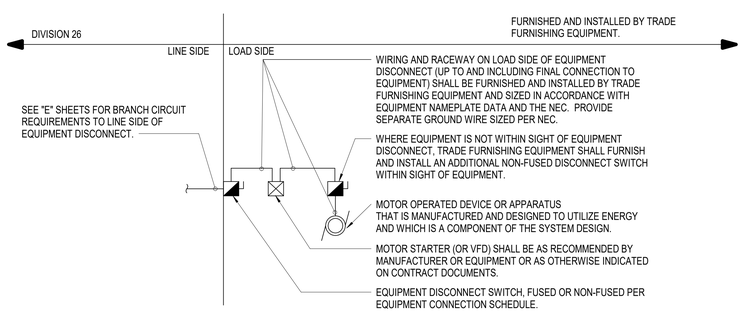
BUILDING EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT DESIGNATION	LOCATION	DESCRIPTION	HP / WATTS / TONS	VOLT	PH	FLA	KVA	OCPD	STARTER TYPE	DISCONNECT DATA TYPE	RATING	OCPD
ELEV - 1	5TH FLOOR ELEV SHAFT	ELEVATOR CONTROLLER	11 HP	208	3	34.0	12.25	60	MANUF	F	60	FPN
ELEV - 2	5TH FLOOR ELEV SHAFT	ELEVATOR CONTROLLER	8 HP	208	3	27.0	9.73	50	MANUF	F	60	FPN
ERV-1	MECHANICAL EQUIPMENT PLATFORM	ENERGY RECOVERY UNIT		208	3	173.0	62.33	225	VFD	F	100	80
ERV-2	MECHANICAL EQUIPMENT PLATFORM	ENERGY RECOVERY UNIT		208	3	167.0	60.16	225	VFD	F	100	80
ERV-3 (BLDG 1 ONLY)	MECHANICAL EQUIPMENT PLATFORM	ENERGY RECOVERY UNIT		208	3	173.0	62.33	225	VFD	F	100	80
ERV-4 (BLDG 2 ONLY)	MECHANICAL EQUIPMENT PLATFORM	ENERGY RECOVERY UNIT		206	3	173.0	62.33	225	VFD	F	100	80
AHU-13-1 THRU AHU-13-16	STUDENT ROOMS	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-13-17	STUDY	INDOOR AIR HANDLING UNIT		208	1	0.4	0.07	20	ECM	F	30	15
AHU-13-18	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-13-1, BC-13-2, BC-13-3	CORRIDOR	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-14-1 THRU AHU14-11	STUDENT ROOMS	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-14-12	ELEVATOR LOBBY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
BC-14-1, BC14-2	ELEVATOR LOBBY	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-15-1 THRU AHU-15-16	STUDENT ROOMS	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-15-17	STUDY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-15-18	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-15-1, BC-15-2, BC-15-3	CORRIDOR	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-16-1 THRU AHU-16-16	STUDENT ROOMS	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-16-17	STUDY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-16-18	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-16-1, BC-16-2, BC-16-3	CORRIDOR	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-17-1 THRU AHU-17-11	STUDENT ROOMS	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-17-12	STUDY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-17-13	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-17-14	STAFF APARTMENT	INDOOR AIR HANDLING UNIT		208	1	0.8	0.17	20	ECM	F	30	15
BC-17-1, BC-17-2, BC-17-3	CORRIDOR	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-18-1 THRU AHU-18-17	STUDENT ROOMS	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-18-18	STUDY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-18-19	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-18-1, BC-18-2, BC-18-3, BC-18-4	CORRIDOR	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-19-1 (BLDG 1 ONLY)	MEETING ROOM 1309	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-19-2 (BLDG 1 ONLY)	MEETING ROOM 1309	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-19-3 (BLDG 1 ONLY)	MEETING ROOM 1309	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-19-4 (BLDG 1 ONLY)	MEETING ROOM 1309	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-19-5 (BLDG 1 ONLY)	MEETING ROOM 1309	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-19-1 (BLDG 1 ONLY)	COMMUNITY ROOM	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-20-1 (BLDG 1 ONLY)	COMMUNITY CONNECTOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-20-2 (BLDG 1 ONLY)	COMMUNITY CONNECTOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-20-3 (BLDG 1 ONLY)	COMMUNITY KITCHEN	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-20-4 (BLDG 1 ONLY)	COMMUNITY LAUNDRY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-20-5 (BLDG 1 ONLY)	STUDENT LOUNGE	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-20-6 (BLDG 1 ONLY)	OFFICE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-20-7 (BLDG 1 ONLY)	OFFICE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-20-1, BC-20-2 (BLDG 1 ONLY)	COMMUNITY CONNECTOR	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-21-1 (BLDG 1 ONLY)	WORKROOM	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-21-2 (BLDG 1 ONLY)	ELEVATOR CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-21-3 (BLDG 1 ONLY)	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	2.1	0.43	20	ECM	F	30	15
AHU-21-4 (BLDG 1 ONLY)	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	2.1	0.43	20	ECM	F	30	15
AHU-21-5 (BLDG 1 ONLY)	VESTIBULE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-21 (BLDG 1 ONLY)	LOBBY	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-22-1 (BLDG 2 ONLY)	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	2.1	0.43	20	ECM	F	30	15
AHU-22-2 (BLDG 2 ONLY)	CORRIDOR	INDOOR AIR HANDLING UNIT		208	1	2.1	0.43	20	ECM	F	30	15
AHU-22-3 (BLDG 2 ONLY)	VENDING	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-22-4 (BLDG 2 ONLY)	LAUNDRY	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-22-5 (BLDG 2 ONLY)	LAUNDRY	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-22-6 (BLDG 2 ONLY)	VESTIBULE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
BC-22-1 (BLDG 2 ONLY)	ELEVATOR CORRIDOR	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-23-1 (BLDG 2 ONLY)	COMMUNITY KITCHEN	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-23-2 (BLDG 2 ONLY)	OFFICE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-23-3 (BLDG 2 ONLY)	OFFICE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-23-4 (BLDG 2 ONLY)	OFFICE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-23-5 (BLDG 2 ONLY)	OFFICE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-23-6 (BLDG 2 ONLY)	WORKROOM	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-23-7 (BLDG 2 ONLY)	WORKROOM	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-23-8 (BLDG 2 ONLY)	LOBBY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-23-9 (BLDG 2 ONLY)	LOBBY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-23-10 (BLDG 2 ONLY)	LOBBY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
AHU-23-11 (BLDG 2 ONLY)	LOBBY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
BC-23-1, BC-23-2 (BLDG 2 ONLY)	WORKROOM	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
AHU-24-1 (BLDG 2 ONLY)	STUDY	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-24-2 (BLDG 2 ONLY)	STUDY	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-24-3 (BLDG 2 ONLY)	VESTIBULE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-24-4 (BLDG 2 ONLY)	VESTIBULE	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-24-5 (BLDG 2 ONLY)	LOBBY	INDOOR AIR HANDLING UNIT		208	1	0.2	0.04	20	ECM	F	30	15
AHU-24-6 (BLDG 2 ONLY)	LOBBY	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
BC-24 (BLDG 2 ONLY)	MEETING ROOM	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
2 AHU-25-1 (BLDG 2 ONLY)	FUTURE UPFIT	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-25-2 (BLDG 2 ONLY)	FUTURE UPFIT	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-25-3 (BLDG 2 ONLY)	FUTURE UPFIT	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-25-4 (BLDG 2 ONLY)	FUTURE UPFIT	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-25-5 (BLDG 2 ONLY)	FUTURE UPFIT	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-25-6 (BLDG 2 ONLY)	FUTURE UPFIT	INDOOR AIR HANDLING UNIT		208	1	0.2	0.05	20	ECM	F	30	15
AHU-25-7 (BLDG 2 ONLY)	FUTURE UPFIT	INDOOR AIR HANDLING UNIT		208	1	0.3	0.06	20	ECM	F	30	15
BC-25 (BLDG 2 ONLY)	FUTURE UPFIT	BRANCH CONTROLLER		208	1	1.6	0.33	20	MANUF	MANUF	MANUF	MANUF
HP-1, HP-3 THRU HP-5	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	10 TON	208	3	34.4	12.39	50	MANUF	F	60	50
HP-2, HP-6, HP-10, HP-14	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	8 TON	208	3	30.2	10.89	50	MANUF	F	60	50
HP-7 THRU HP-9, HP-11 THRU HP-13	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	10 TON	208	3	34.4	12.39	50	MANUF	F	60	50
HP-15 THRU HP-18	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	10 TON	208	3	34.4	12.39	50	MANUF	F	60	50
HP-19 (BLDG 1 ONLY)	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	14 TON	208	3	52.8	19.02	80	MANUF	F	100	80
HP-20, HP-21 (BLDG 1 ONLY)	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	10 TON	208	3	34.4	12.39	50	MANUF	F	60	50
HP-22, HP-23 (BLDG 2 ONLY)	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	10 TON	208	3	34.4	12.39	30	MANUF	F	30	30
HP-24, HP-25 (BLDG 2 ONLY)	MECHANICAL EQUIPMENT PLATFORM	HEAT PUMP	6 TON	208	3	22.4	8.07	35	MANUF	F	60	35
ACHP-1/AC-1	TELECOM & ELEC. ROOMS	SPLIT SYSTEM		208	1	10.4	2.16	15	ECM	F	30	15
2 UH-1 REMOVED												
WH-1	STAIRWELLS	ELECTRIC WALL HEATER	4 KW	208	1	19.2	3.99	25	MANUF	NF	30	---
EF-1	ELECTRICAL ROOMS	EXHAUST FAN		120	1	1.1	0.14	15	MANUF	NF	30	---
EWC (P-6)	CORRIDORS	ELEC WATER COOLER/BOTTLE FILLER		120	1	4.4	0.53	15	---	CP	---	---
SP-1	ELEVATOR PIT	SUMP PUMP	2 HP	208	3	10.6	3.82	20	---	CP	---	---
GWH-1 THRU GWH-12	WATER HEATER ROOM	GAS FIRED INSTANTANEOUS WATER HEATER		120	1	2.9	0.35	20	---	CP	---	---
RP-1	WATER HEATER ROOM	RE-CIRC PUMP	1/6 HP	120	1	4.4	0.53	15	---	MSW	30	---

ABBREVIATIONS

NF	NON-FUSED	MAG	MAGNETIC STARTER
MANUF.	PROVIDE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION	VFD	VARIABLE FREQUENCY DRIVE
MRS	MOTOR RATED SWITCH	CP	CORD & PLUG
----	INDICATES NOT APPLICABLE	F	FUSED
MCCB	MOLDED CASE CIRCUIT BREAKER	FPN	FUSE PER NAMEPLATE
ECM	ELECTRICALLY COMMUTATED MOTOR	MSW	MOTOR-RATED SWITCH



NOTE: REQUIREMENTS FOR WIRING, MATERIALS, METHODS, AND COMPONENTS SHALL BE PER DIVISION 26 SPECIFICATIONS.

2 DIVISION OF WORK DETAIL FOR DIVISIONS 23/26

NO SCALE

University of North Carolina at Wilmington

Student Village Public-Private Partnership

601 S College Rd, Wilmington NC 28403

Balfour Beatty Campus Solutions

Balfour Beatty Construction

SCO# 18-19231-01F

DESIGNER

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NORTH CAROLINA CORPORATE ENGINEERING LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

RETAIL/COMMON SPACES UPFITS PRICING SET - 11/1/2019

NOT FOR CONSTRUCTION

SUBMITTAL

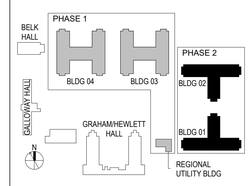
21 AUGUST 2019

PHASE 2 (BLDGS 1 & 2) FOR CONSTRUCTION SET

REVISIONS

1	8/30/2019	ASI#4
2		ASI#6

KEY PLAN



SHEET

MECHANICAL EQUIPMENT SCHEDULE & DETAILS

1EP-700

DESIGN: CRS
DRAWN: CRS
REVIEW: AJM

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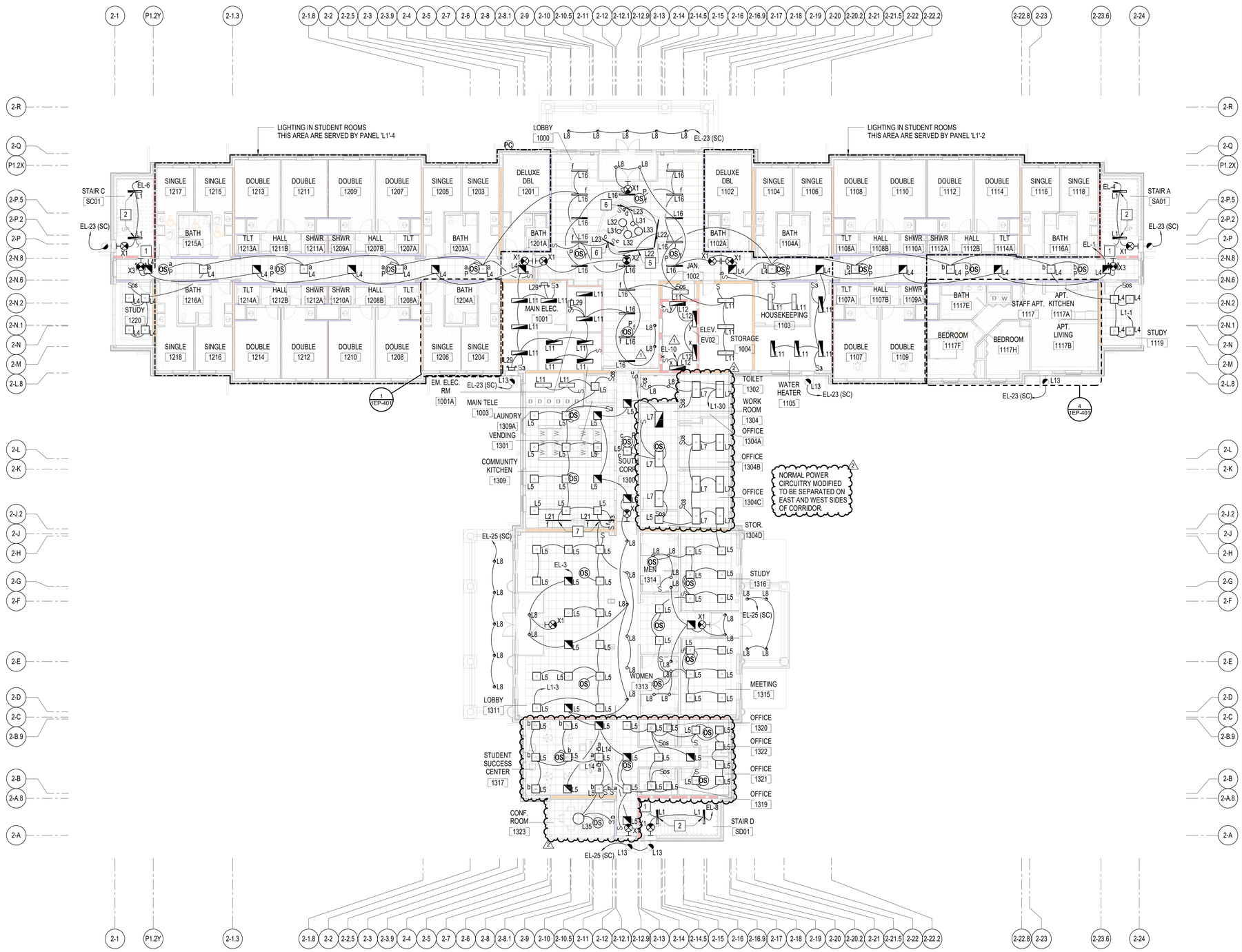

1 BLDG 02 - LEVEL 01 - LIGHTING PLAN

3/32" = 1'-0"

GENERAL NOTES

1. EMERGENCY LIGHTING SHALL BE SWITCHED TOGETHER WITH NORMAL LIGHTING IN ROOMS/AREAS WITH NORMAL SWITCHED LIGHTING. SEE DETAIL 3/0EL600.
2. LIGHTING CONTROLS AND LUMINAIRES DESIGNATED WITH LOWER CASE LETTERS INDICATE WHICH LUMINAIRE OR LAMPS SHALLBE CONTROLLED BY EACH LIGHTING CONTROL DEVICE.
3. LIGHTING CONTROLS AND LUMINAIRES WITHIN ENCLOSED SPACES WITHOUT LOWER CASE LETTER DESIGNATIONS SHALL CONTROL LUMINAIRES WITHIN THE SPACE; UNLESS OTHERWISE NOTED.
4. PROVIDE ROUND 3/8" DIAMETER GREEN-COLORED STICKER FOR INDICATING LUMINAIRES CONNECTED TO EMERGENCY POWER.

KEY NOTES

1 UP TO STAIRWELL LUMINAIRES.
2 INSTALL STAIRWELL LUMINAIRES PER PLAN LOCATION. DO NOT CENTER ON LANDING.
3 NOT USED.
4 NOT USED.
5 SEE DETAIL C1, SHEET A-400 FOR INSTALLATION DETAIL.
6 SEE DETAIL 3, SHEET A-400 FOR INSTALLATION DETAIL FOR STRIP LIGHT AND SWITCH.
7 SEE DETAIL 3, SHEET A-425 FOR INSTALLATION DETAIL.

RATED PARTITION LEGEND

1 HR RATED WALL
2 HR RATED WALL

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

UNCW
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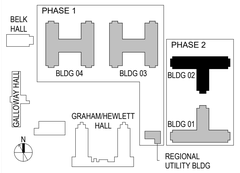
REVISIONS

1	10/22/19	ASI#5
2		ASI#6

KEY PLAN



SHEET
BUILDING 02 LEVEL 01 - LIGHTING PLAN

2EL-101

DESIGN: AJM
DRAWN: AJM
REVIEW: AJM

CN 7368

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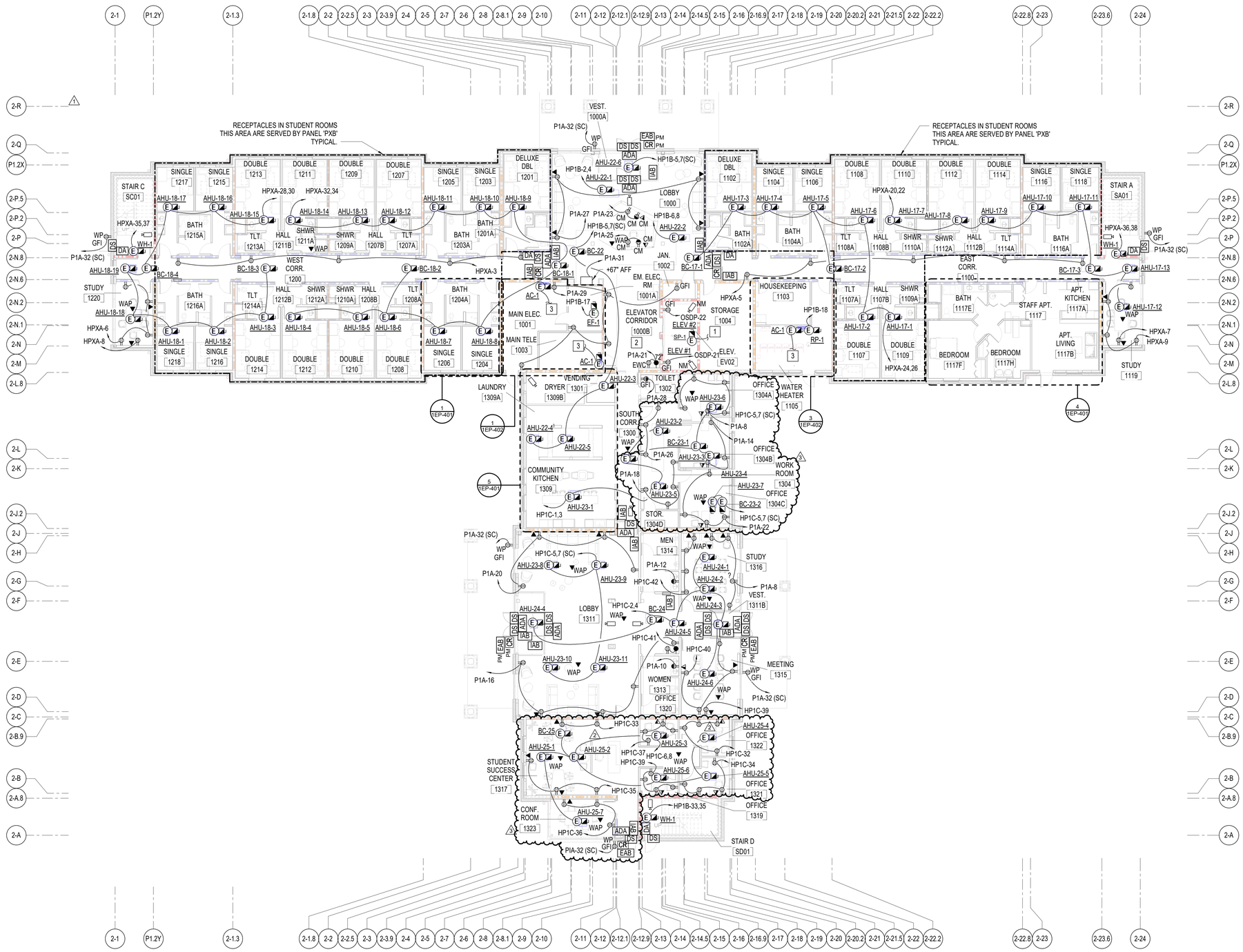

1 BLDG 02 - LEVEL 01 - POWER & TELECOM PLAN

3/32" = 1'-0"

GENERAL NOTES

1. REFER TO TYPICAL ENLARGED UNIT PLANS SHEET FOR ADDITIONAL WORK IN STUDENT BEDROOMS.
2. REFER TO ENLARGED POWER PLANS FOR ADDITIONAL WORK PER CALLOUT NOTED.

KEY NOTES

1. CONNECT TO SUMP PUMP CONTROLLER IN HOUSKEEPING RM. REFER TO SHEET 1EP402 FOR CONTINUATION.
2. NON-MONITORED SECURITY CAMERAS IN ELEVATOR. FIELD COORDINATE WITH ELEVATOR SUPPLIER.
3. TO ACHP-1 ON ROOF.
4. CEILING MOUNTED CAMERA WITH 180-DEGREE FIELD OF VIEW CAPABILITIES, THIS LOCATION ONLY.
5. SINGLE GANG BOX, MOUNTED 48" AFF FOR SCREEN CONTROLS. RUN 3/4" CONDUIT TO ABOVE SUSPENDED CEILING AND STUB OUT. INSTALL SCREEN CONTROLS PER MANUFACTURER'S RECOMMENDATONS.
6. DOUBLE GANG BOX AT 18" AFF. RUN 3/4" CONDUIT TO SINGLE GANG BOX ABOVE.
7. SINGLE GANG BOX AT 48" AFF FOR CONTROL PANEL. RUN 3/4" CONDUIT FOR AV TO ABOVE SUSPENDED CEILING AND STUB OUT.

RATED PARTITION LEGEND

1 HR RATED WALL

2 HR RATED WALL

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

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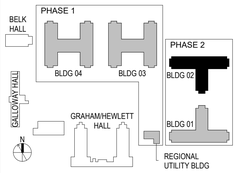
KEY PLAN



SHEET

BUILDING 02 LEVEL 01 - POWER & TELECOM PLAN

2EP-101

DESIGN: CRS
DRAWN: CRS
REVIEW: AJM

CN 7368

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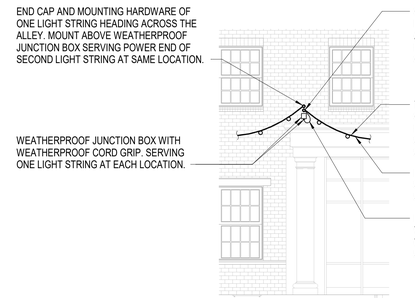
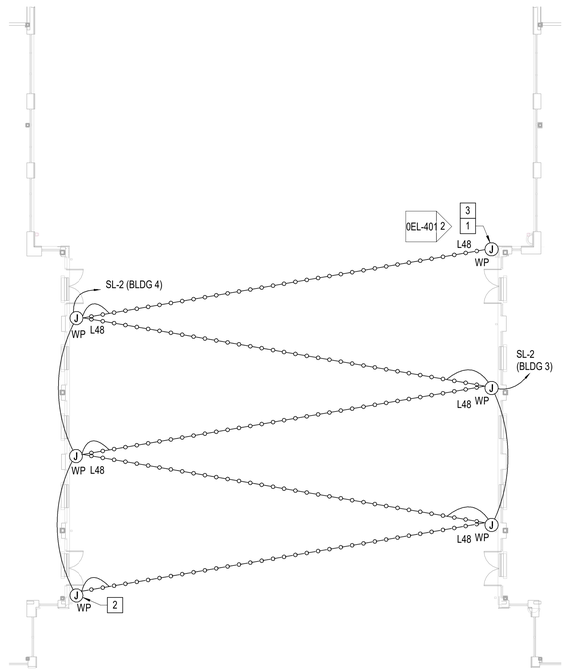


NOTE:
ALLEY LIGHTING JUNCTION BOX AND MOUNTING HARDWARE SHOWN LOCATED ON BRICK AT APPROXIMATELY 15'-6" AFG. MOUNTING HEIGHTS ON BUILDINGS 3 AND 4 MAY DIFFER. EXACT LOCATION TO BE INCONSPICUOUS AS POSSIBLE. COORDINATE FINAL LOCATION AND ELEVATION IN FIELD WITH ARCHITECT.

2 ALLEY LIGHTING ELEVATION
3/16" = 1'-0"



1 EXTERIOR STRING LIGHTING BETWEEN BUILDINGS 3 AND 4
3/32" = 1'-0"

GENERAL NOTES

KEY NOTES

1. LIGHT STRING WITH END CAP AND SUPPORT HARDWARE ONLY. POWER WIRING IS FED FROM OTHER END. TYPICAL. JUNCTION BOX TO REMAIN FOR ADDITIONAL FUTURE SITE LIGHTING.
2. AT EACH WEATHERPROOF JUNCTION BOX LOCATION, THE J-BOX FEEDS ONLY ONE STRING OF LIGHTS. WIRING CONNECTION SHOWN TO INDICATE WHICH STRING. TYPICAL.
3. REFER TO DETAIL 2/0EL-401 FOR ELEVATION VIEW OF LIGHTING THIS AREA. TYPICAL FOR STRING LIGHTS.

WALL LEGEND

1 HR RATED WALL

2 HR RATED WALL

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

UNCW
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Balfour Beatty Construction

SCO# 18-19231-01E

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NORTH CAROLINA CORPORATE ENGINEERING LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

RETAIL/COMMON SPACES UPFITS PRICING SET - 11/1/2019

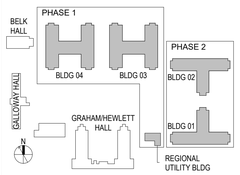
NOT FOR CONSTRUCTION

SUBMITTAL
11 JULY 2019
PHASE 1 (BLDGS 3 & 4)
FOR CONSTRUCTION SET

REVISIONS

1		ASI#6

KEY PLAN



SHEET
BUILDINGS 3 AND 4 EXTERIOR LIGHTING

0EL-401

DESIGN: AJM
DRAWN: CRS
REVIEW: WAZ

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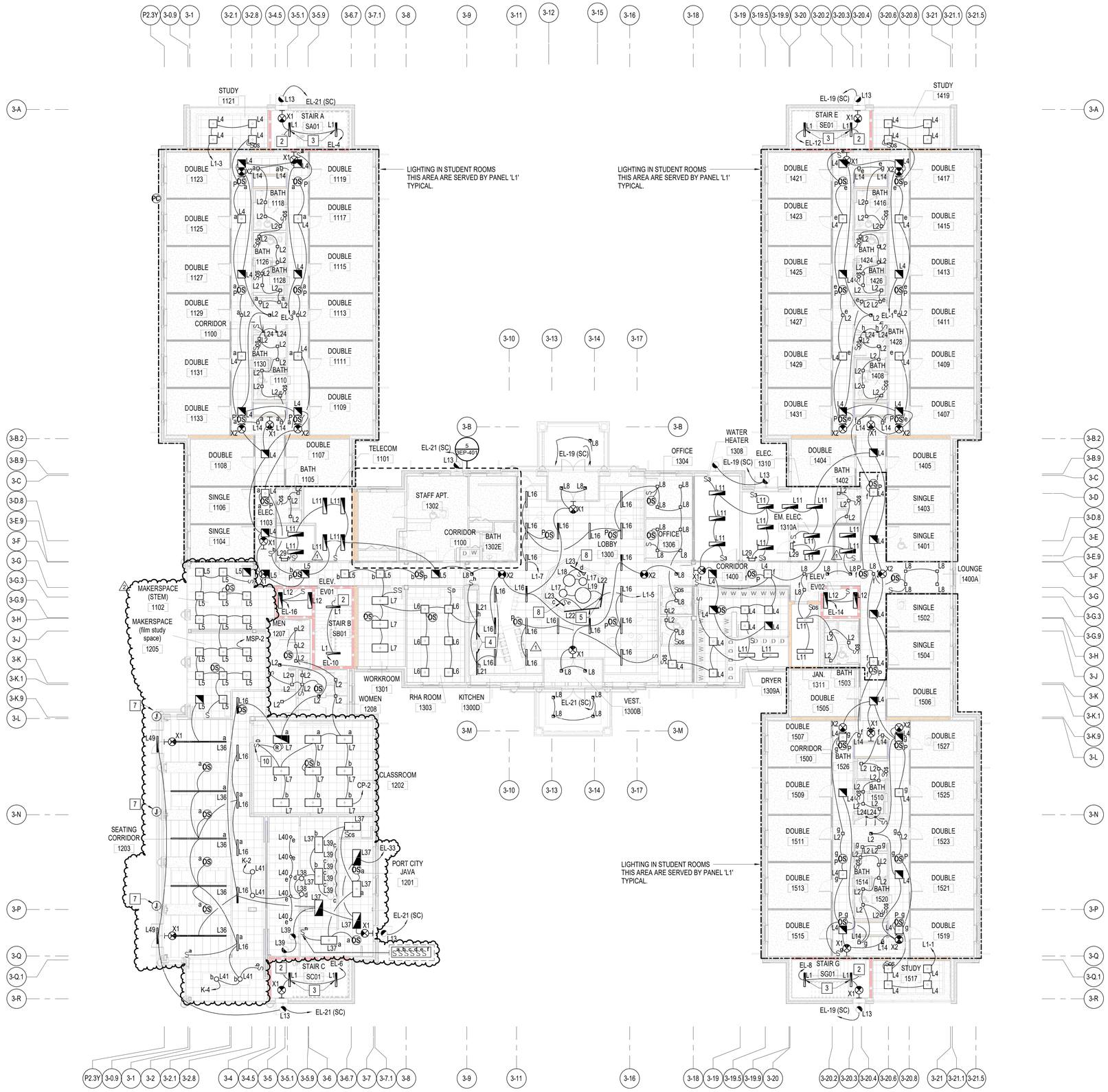

1 BLDG 03 LEVEL 01 - LIGHTING PLAN
3/32" = 1'-0"

GENERAL NOTES

1. EMERGENCY LIGHTING SHALL BE SWITCHED TOGETHER WITH NORMAL LIGHTING IN ROOMS/AREAS WITH NORMAL SWITCHED LIGHTING. SEE DETAIL 3/0EL600.
2. LIGHTING CONTROLS AND LUMINAIRES DESIGNATED WITH LOWER CASE LETTERS INDICATE WHICH LUMINAIRE OR LAMPS SHALLBE CONTROLLED BY EACH LIGHTING CONTROL DEVICE.
3. LIGHTING CONTROLS AND LUMINAIRES WITHIN ENCLOSED SPACES WITHOUT LOWER CASE LETTER DESIGNATIONS SHALL CONTROL LUMINAIRES WITHIN THE SPACE; UNLESS OTHERWISE NOTED.
4. PROVIDE ROUND 3/8" DIAMETER GREEN-COLORED STICKER FOR INDICATING LUMINAIRES CONNECTED TO EMERGENCY POWER.

KEY NOTES

1 NOT USED.
2 UP TO STAIRWELL LUMINAIRES.
3 INSTALL STAIRWELL LUMINAIRES PER PLAN LOCATION. DO NOT CENTER ON LANDING.
4 SEE DETAIL 3, SHEET A-425 FOR INSTALLATION DETAIL.
5 SEE DETAIL C1, SHEET A-400 FOR INSTALLATION DETAIL.
6 NOT USED.
7 RECESSED JUNCTION BOX FOR FUTURE LIGHT STRING. PROVIDE WITH TEMPORARY WEATHER-TIGHT GASKETED BLANK COVER PLATE . PROVIDE CONDUIT AND PULL STRING BACK TO PANELBOARD SL1. MOUNT JUNCTION BOX AT 15'-8" AFG AT LOCATION SHOWN. REFER TO SHEET 0EL-401 FOR LIGHTING LAYOUT.
8 SEE DETAIL 3, SHEET A-400 FOR INSTALLATION DETAIL FOR STRIP LIGHT AND SWITCH.
9 NOT USED.
10 DIMMER SWITCH WITH ABILITY TO INDIVIDUALLY CONTROL TWO ZONES OF LIGHTING (MINIMUM). WITH TWO PRESETS (MINIMUM).

WALL LEGEND

1 HOUR RATED FIRE PARTITION
2 HOUR RATED FIRE BARRIER

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

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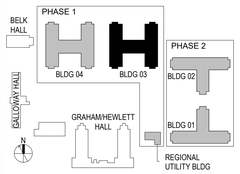
NOT FOR CONSTRUCTION

SUBMITTAL
11 JULY 2019
PHASE 1 (BLDGS 3 & 4) FOR CONSTRUCTION SET

REVISIONS

1	10/22/19	ASI#5
2		ASI#6

KEY PLAN



SHEET
BUILDING 03 LEVEL 01 - LIGHTING PLAN

3EL-101

DESIGN: AJM
DRAWN: AJM
REVIEW: AJM

CN 7368

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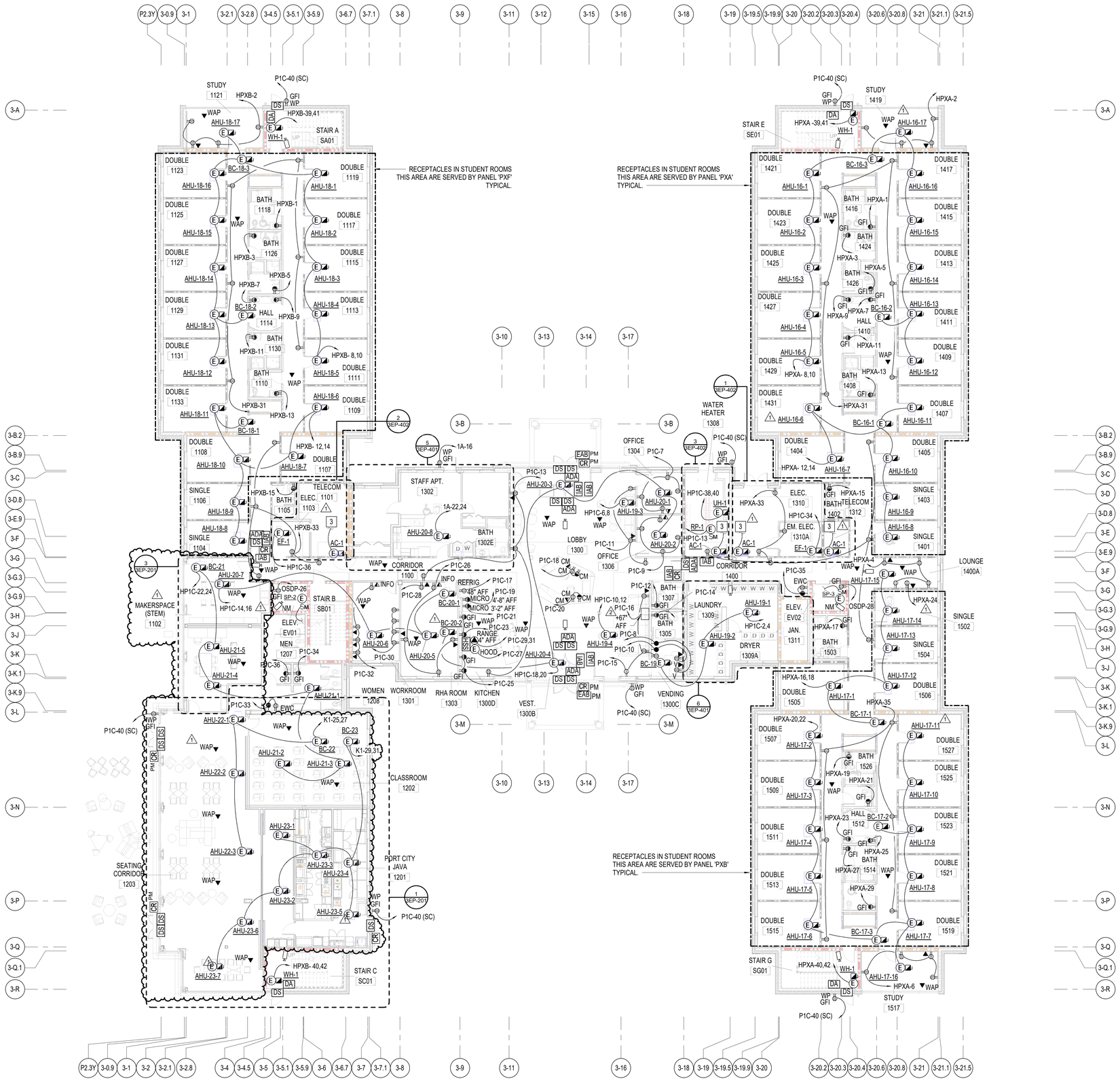

1 BLDG 03 LEVEL 01 - POWER & TELECOM PLAN
3/32" = 1'-0"

GENERAL NOTES

1. REFER TO TYPICAL ENLARGED UNIT PLANS SHEET FOR ADDITIONAL WORK IN STUDENT BEDROOMS.
2. REFER TO ENLARGED POWER PLANS FOR ADDITIONAL WORK PER CALLOUT NOTED.
3. THIRD FLOOR MECHANICAL EQUIPMENT TAGS SHOWN ONLY. EQUIPMENT TAGS DIFFER PER FLOOR. REFER TO MECHANICAL PLANS FOR SPECIFICS.

KEY NOTES

1 REFER TO DETAIL 1/3EP-402 FOR METER LOCATION SERVING THE RETAIL SPACE.
2 NOT USED.
3 TO ACHP-1 ON ROOF.

WALL LEGEND

1 HOUR RATED FIRE PARTITION
2 HOUR RATED FIRE BARRIER

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

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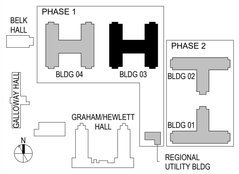
SUBMITTAL
11 JULY 2019
PHASE 1 (BLDGS 3 & 4) FOR CONSTRUCTION SET

REVISIONS

1	8/8/2019	ASI#3
2	10/22/19	ASI#5
3		ASI#6

KEY PLAN



SHEET
BUILDING 03 LEVEL 01 - POWER & TELECOM PLAN

3EP-101

DESIGN: AJM
DRAWN: CRS
REVIEW: AJM

CN 7368

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PORTY CITY JAVA - KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	LOCATION	DESCRIPTION	HP / WATTS / TONS	VOLT	PH	FLA	KVA	OCPD
EQUIPMENT DESIGNATION				EQUIPMENT RATINGS				
K-2	PORT CITY JAVA KITCHEN - BLDG 3	51" DUAL ZONE DISPLAY CASE	—	120	1	10.9	1.31	20
K-3	PORT CITY JAVA KITCHEN - BLDG 3	BROOD NITRO V2PX	—	120	1	2.8	0.33	20
K-4	PORT CITY JAVA KITCHEN - BLDG 3	POINT OF SALE	—	120	1	3.0	0.36	20
K-5	PORT CITY JAVA KITCHEN - BLDG 3	COFFEE SCALE	—	120	1	0.3	0.03	20
K-6	PORT CITY JAVA KITCHEN - BLDG 3	ESPRESSO MACHINE	4.7 KW	208	1	22.0	4.58	30
K-7	PORT CITY JAVA KITCHEN - BLDG 3	ON-DEMAND COFFEE GRINDER	3/4 HP	120	1	13.8	1.66	20
K-8	PORT CITY JAVA KITCHEN - BLDG 3	COFFEE GRINDER	—	120	1	11.0	1.32	20
K-9	PORT CITY JAVA KITCHEN - BLDG 3	COFFEE BREWER	3x5KW	208	3	32.0	11.53	40
K-11	PORT CITY JAVA KITCHEN - BLDG 3	MERRYCHEF RAPID COOK OVEN	—	208	1	22.8	4.75	30
K-12	PORT CITY JAVA KITCHEN - BLDG 3	BLENDER	—	120	1	11.5	1.38	20
K-13	PORT CITY JAVA KITCHEN - BLDG 3	HORIZONTAL FREEZER	—	120	1	5.7	0.68	20
K-16	PORT CITY JAVA KITCHEN - BLDG 3	SANDWICH TOP REFRIGERATED COUNTER	—	120	1	5.8	0.70	20
K-18	PORT CITY JAVA KITCHEN - BLDG 3	UNDERCOUNTER REFRIGERATOR	—	120	1	2.0	0.24	20
K-19	PORT CITY JAVA KITCHEN - BLDG 3	ICE MAKER	—	120	1	16.3	1.96	20
K-22	PORT CITY JAVA KITCHEN - BLDG 3	REACH-IN FREEZER	—	120	1	9.6	1.15	20
K-23	PORT CITY JAVA KITCHEN - BLDG 3	REACH-IN REFRIGERATOR	—	120	1	5.4	0.65	20
K-28	PORT CITY JAVA KITCHEN - BLDG 3	ESPRESSO GRINDER	—	120	1	2.4	0.29	20
K-31	PORT CITY JAVA KITCHEN - BLDG 3	MICROWAVE OVEN	—	120	1	13.0	1.56	20
K-36	PORT CITY JAVA KITCHEN - BLDG 3	VECTOR BUG SYSTEM	—	120	1	0.3	0.03	15
K-38	PORT CITY JAVA KITCHEN - BLDG 3	MENU BOARD	—	120	1	3.0	0.36	20
K-42	PORT CITY JAVA KITCHEN - BLDG 3	TICKET PRINTER	—	120	1	2.0	0.24	20
K-45	PORT CITY JAVA KITCHEN - BLDG 3	WORK TOP REFRIGERATOR	—	120	1	3.0	0.36	20

PANEL K2 (FORMERLY SP2) SCHEDULE

400 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

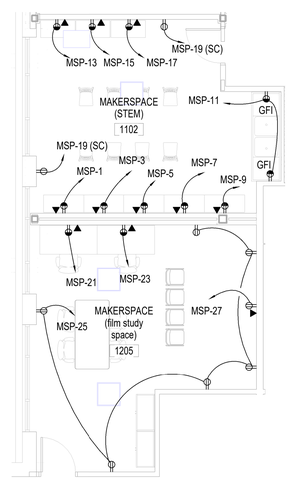
CKT. NO.		COND	WIRE	BKR			PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	K-2	3/4	12	20	10.9	1.3	A	1.6	13.0	20	12	3/4	K-31	2
3	K-3	3/4	12	20	2.8	0.3	B	0.0	0.3	15	12	3/4	K-36	4
5	K-4	3/4	12	20	3.0	0.4	C	1.1	9.0	20	12	3/4	K-38 (3 TOTAL)	6
7	K-5	3/4	12	20	0.3	0.0	A	0.2	2.0	20	12	3/4	K-42	8
9	K-6	3/4	10	30	22.0	2.3	B	0.4	3.0	20	12	3/4	K-45	10
11					22.0	2.3	C	2.3	22.0	30	10	3/4	K-6	12
13	K-7	3/4	12	20	13.8	1.7	A	2.3	22.0					14
15	K-8	3/4	12	20	11.0	1.3	B	2.4	22.8	30	10	3/4	K-11	16
17	K-9	3/4	8	40	32.0	3.8	C	2.4	22.8				(NOTE 1)	18
19					32.0	3.8	A	1.4	11.5	20	12	3/4	K-12	20
21					32.0	3.8	B	1.4	11.5	20	12	3/4	K-12	22
23	K-11	3/4	10	30	22.8	2.4	C			20			SPARE	24
25					22.8	2.4	A			20			SPARE	26
27	K-12	3/4	12	20	11.5	1.4	B	1.2	9.6	20	12	3/4	K-22	28
29	K-13	3/4	12	20	5.7	0.7	C	0.6	5.4	20	12	3/4	K-23	30
31	K-16	3/4	12	20	5.8	0.7	A			20			SPARE	32
33	K-18 (3 TOTAL)	3/4	12	20	6.0	0.7	B			20			SPARE	34
35	K-19	3/4	12	20	16.3	2.0	C			20			SPARE	36
37	K-22	3/4	12	20	9.6	1.2	A			20			SPARE	38
39	K-23	3/4	12	20	5.4	0.6	B			20			SPARE	40
41	K-28 (3 TOTAL)	3/4	12	20	7.3	0.9	C			20			SPARE	42

TOTAL AMPS (CONN. LOAD)	A: 137.7	B: 131.9	C: 156.4
TOTAL AMPS (FEEDTHRU)	A:	B:	C:
TOTAL AMPS (CONN. LOAD + FEED-THRU)	A: 137.7	B: 131.9	C: 156.4

PANELBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.

PANELBOARD NOTES:
1. EQUIPMENT CONNECTION TO BE PROVIDED NOW. EQUIPMENT TO BE CONNECTED IN FUTURE.

1 PORT CITY JAVA - POWER PLAN
1/4" = 1'-0"



3 BUILDING 3 - ENLARGED MAKER'S SPACES
3/16" = 1'-0"

GENERAL NOTES

1. SEE PORT CITY JAVA KITCHEN EQUIPMENT SCHEDULE FOR EQUIPMENT DESCRIPTIONS AND RATINGS. SEE KITCHEN CONSULTANT DRAWINGS FOR EQUIPMENT INFORMATION.
2. SEE PANEL SCHEDULE K-2 FOR KITCHEN EQUIPMENT BRANCH CIRCUIT NUMBERS. UNLESS OTHERWISE NOTED, PROVIDE DEDICATED BRANCH CIRCUIT FOR KITCHEN EQUIPMENT.

KEY NOTES

1. MULTIPLE DEVICES CONNECTED TO SAME BRANCH CIRCUIT.
2. RUN (1) 1-1/4" CONDUIT FOR DATA FROM FLOOR BOX TO WALL, STUB OUT TO CABLE TRAY. RUN (1) 3/4" CONDUIT FOR POWER FROM FLOOR BOX TO WALL, CONNECT TO ELECTRICAL JUNCTION BOX ABOVE CEILING. RUN (1) 1-1/4" CONDUIT FOR AV FROM FLOOR BOX TO WALL, STUB OUT ABOVE SUSPENDED CEILING.

GRAPHIC SCALE(S)

3/16" = 1' - 0" 0 5' 10' 20'

1/4" = 1' - 0" 0 1' 5' 10' 15'

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NOT FOR CONSTRUCTION

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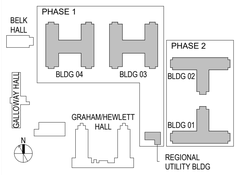
PHASE 1 (BLDGS 3 & 4) FOR CONSTRUCTION SET

REVISIONS

1		ASI#6

KEY PLAN



SHEET
PORT CITY JAVA UPFIT - POWER AND TELECOM

3EP-201

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

CN 7368

11/1/2019 2:24:23 PM
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PANEL HP1C SCHEDULE

400 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	WATER HEATER RM - GWH-1, GWH-3	3/4	12	20	5.8	0.7	A	0.2	2.2	20	12	3/4	AHU'S - LAUNDRY & BC-19	2
3	WATER HEATER RM - GWH-5, GWH-7	3/4	12	20	5.8	0.7	B	0.2	2.2					4
5	WATER HEATER RM - GWH-9, GWH-10	3/4	12	20	5.8	0.7	C	0.5	5.2	20	12	3/4	AHU-19-3 LOBBY	6
7	WATER HEATER RM - GWH-2, GWH-4	3/4	12	20	5.8	0.7	A	0.5	5.2					8
9	WATER HEATER RM - GWH-6, GWH-8	3/4	12	20	5.8	0.7	B	0.5	5.2	20	12	3/4	AHU-19-4 LOBBY	10
11	RECEPT - WATER METER	3/4	12	20	2.0	0.2	C	0.5	5.2					12
13	WATER HEATER RM - RP-1	3/4	12	20	4.4	0.5	A	0.3	2.8	20	12	3/4	AHU'S - MAKERSPACE, WORKRM, RHA & BC-20-1	14
15	WATER HEATER RM - EPO CNTRLR.	3/4	12	20	2.0	0.2	B	0.3	2.8				(NOTE 1)	16
17	SPARE			20			C	0.4	3.5	20	12	3/4	AHU'S - VESTIBULES, OFFICES, & BC-20-2	18
19	SPARE			20			A	0.4	3.5				MAKER SPACE (NOTE 1)	20
21	SPARE			20			B	0.4	3.4	20	12	3/4	AHU'S - WOMEN'S RM, CLASSRM, RETAIL	22
23	SPARE			20			C	0.4	3.4				CORRIDOR & BC-21 (NOTE 1) (NOTE 2)	24
25	SPARE			20			A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	SPARE			20			A			20			SPARE	32
33	SPARE			20			B	0.0	0.3	15	12	3/4	EF-1	34
35	SPARE			20			C	0.0	0.3	15	12	3/4	EF-1	36
37	TC-1	1-1/4	4	60	30.8	3.7	A	1.8	17.1	25	10	3/4	UH-1	38
39					30.8	3.7	B	1.8	17.1					40
41					30.8	3.7	C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 73.7 B: 71.6 C: 54.0
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 73.7 B: 71.6 C: 54.0

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. AHU'S AND BC CONTROLLERS ASSOCIATED WITH HP-20 & HP-21 SERVE BUILDING 3 ONLY. THIS EQUIPMENT IS REPLACED WITH A SINGLE UNIT HP-24 IN BUILDING 4. THE HIGHER OF THE TWO LOADS IS SHOWN.
2. LOADS SHOWN ARE FOR BUILDING 3 ONLY. CIRCUITS IN BUILDING 4 SHALL CONTAIN 20A SINGLE POLE BREAKERS AS SPARES.

PANEL P1C SCHEDULE

225 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	RECEPTS - LAUNDRY, JANITOR	3/4	12	20	9.0	1.1	A	0.7	6.0	20	12	3/4	BAS PANEL - MAIN ELEC RM	2
3	REFRIGERATOR - JANITOR	3/4	12	20	12.5	1.5	B	1.2	10.0	20	12	3/4	SP-2 CONTROLLER	4
5	MICROWAVE - JANITOR	3/4	12	20	10.0	1.2	C	1.2	10.0	20	12	3/4	SP-3 CONTROLLER	6
7	RECEPTS - LOBBY OFFICE	3/4	12	20	6.0	0.7	A	1.5	12.5	20	12	3/4	VENDING (NOTE 3)	8
9	RECEPTS - LOBBY OFFICE	3/4	12	20	6.0	0.7	B	1.5	12.5	20	12	3/4	VENDING (NOTE 3)	10
11	RECEPTS - LOBBY	3/4	12	20	4.5	0.5	C	0.2	1.5	20	12	3/4	LOBBY - BATH GFI	12
13	RECEPTS - LOBBY (NOTE 2)	3/4	12	20	7.5	0.9	A	0.2	1.5	20	12	3/4	LOBBY - BATH GFI	14
15	RECEPTS - LOBBY	3/4	12	20	6.0	0.7	B	0.7	6.0	20	12	3/4	LOBBY - TV	16
17	REFRIGERATOR - KITCHEN	3/4	12	20	12.5	1.5	C	0.4	3.0	20	12	3/4	LOBBY - DESK	18
19	MICROWAVE - KITCHEN	3/4	12	20	10.0	1.2	A	0.4	3.0	20	12	3/4	LOBBY - DESK	20
21	MICROWAVE - KITCHEN	3/4	12	20	10.0	1.2	B	0.2	1.5	20	12	3/4	GFI RECEPT - ELEV PIT	22
23	RECEPTS - KITCHEN GFI	3/4	12	20	3.0	0.4	C	0.2	1.5	20	12	3/4	GFI RECEPT - ELEV PIT	24
25	RECEPTS - KITCHEN GFI	3/4	12	20	3.0	0.4	A	0.7	6.0	20	12	3/4	RECEPTS - RHA ROOM (NOTE 1)	26
27	KITCHEN HOOD	3/4	12	20	2.0	0.2	B	0.7	6.0	20	12	3/4	TV- RHA RM (NOTE 1)	28
29	KITCHEN RANGE	3/4	8	40	32.0	3.3	C	0.7	6.0	20	12	3/4	RECEPTS - WORKROOM	30
31					32.0	3.3	A	0.7	6.0	20	12	3/4	RECEPTS - WORKROOM	32
33	RECEPT - EWC (P-6) NOTES 1 & 3	3/4	12	20	4.4	0.5	B	0.2	1.5	20	12	3/4	RECEPT GFI - WOMENS RM	34
35	RECEPT - EWC (P-6) NOTE 3	3/4	12	20	4.4	0.5	C	0.2	1.5	20	12	3/4	RECEPT GFI - MENS RM	36
37	SPARE			20			A	0.2	2.0	20	12	3/4	LC CONTACTOR COIL	38
39	SPARE			20			B	1.3	10.5	20	12	3/4	EXTERIOR RECEPTACLES	40
41	SPARE			20			C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 100.3 B: 88.9 C: 85.7
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 100.3 B: 88.9 C: 85.7

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. BRANCH CIRCUIT IN BLDG. 3 ONLY. BREAKER TO REMAIN 20A, 1P SPARE IN BLDG. 4.
2. RECEPTACLE LOAD VARIES IN BLDGS. 3 & 4, HIGHER LOAD IN BLDG. 4 IS SHOWN.
3. CIRCUIT VIA DEADFRONT GFCI DEVICE.

PANEL 1A SCHEDULE

125 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	RECEPT - KITCHEN/DINING	3/4	12	20	3.0	0.4	A	0.3	2.4	20	12	3/4	LIGHTING (NOTE 2)	2
3	RECEPT - LIVING ROOM	3/4	12	20	9.0	1.1	B	0.4	3.0	20	12	3/4	GFI RECEPT - KITCHEN COUNTER	4
5	RECEPT - BEDROOM	3/4	12	20	7.5	0.9	C	0.4	3.0	20	12	3/4	GFI RECEPT - KITCHEN COUNTER	6
7	TV - BEDROOM	3/4	12	20	6.0	0.7	A	0.4	3.0	20	12	3/4	GFI RECEPT - KITCHEN COUNTER	8
9	GFI - BATHROOM	3/4	12	20	1.5	0.2	B	1.6	13.0	20	12	3/4	WASHER	10
11	DISHWASHER	3/4	12	20	16.0	1.9	C	0.7	6.0	20	12	3/4	TV - LIVING ROOM	12
13	TV - BEDROOM	3/4	12	20	6.0	0.7	A	0.2	2.0	20	12	3/4	EXHAUST HOOD	14
15	RECEPT - BEDROOM	3/4	12	20	9.0	1.1	B	0.2	1.5	20	12	3/4	EXTERIOR RECEPTACLE	16
17	REFRIGERATOR	3/4	12	20	12.5	1.5	C	2.5	24.0	30	10	3/4	DRYER	18
19	RANGE	3/4	8	40	32.0	3.3	A	2.5	24.0					20
21					32.0	3.3	B	0.2	2.0	15	12	3/4	AHU-20-8 (BUILDING 3 ONLY)	22
23	EWH-1	3/4	12	20	12.5	1.5	C	0.2	2.0				(NOTE 1)	24
25					12.5	1.5	A			20			SPARE	26
27					12.5	1.5	B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	SPARE			20			A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: 83.5 B: 79.0 C: 80.1
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 83.5 B: 79.0 C: 80.1

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. AHU-20-8 SERVES BUILDING 3 ONLY. AHU-24-8 REPLACES AHU-20-8 IN BUILDING 4. THE LOAD IS TYPICAL.
2. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.

PANEL MSP SCHEDULE

225 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	SPARE			20			A	0.5	4.0	20	12	3/4	MAKER'S SPACE LIGHTING	2
3	SPARE			20			B			20			SPARE	4
5	SPARE			20			C			20			SPARE	6
7	SPARE			20			A			20			SPARE	8
9	SPARE			20			B			20			SPARE	10
11	SPARE			20			C			20			SPARE	12
13	SPARE			20			A			20			SPARE	14
15	SPARE			20			B			20			SPARE	16
17	SPARE			20			C			20			SPARE	18
19	SPARE			20			A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
25	SPARE			20			A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	SPARE			20			A			20			SPARE	32
33	SPARE			20			B			20			SPARE	34
35	SPARE			20			C			20			SPARE	36
37	SPARE			20			A			20			SPARE	38
39	SPARE			20			B			20			SPARE	40
41	SPARE			20			C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 4.0 B: C:
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 4.0 B: C:

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. PANEL FOR MAKER SPACE UPFIT.

PANEL CP SCHEDULE

225 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	SPARE			20			A	0.7	5.8	20	12	3/4	CLASSROOM/RESTROOM LIGHTING	2
3	SPARE			20			B			20			SPARE	4
5	SPARE			20			C			20			SPARE	6
7	SPARE			20			A			20			SPARE	8
9	SPARE			20			B			20			SPARE	10
11	SPARE			20			C			20			SPARE	12
13	SPARE			20			A			20			SPARE	14
15	SPARE			20			B			20			SPARE	16
17	SPARE			20			C			20			SPARE	18
19	SPARE			20			A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
25	SPARE			20			A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	SPARE			20			A			20			SPARE	32
33	SPARE			20			B			20			SPARE	34
35	SPARE			20			C			20			SPARE	36
37	SPARE			20			A			20			SPARE	38
39	SPARE			20			B			20			SPARE	40
41	SPARE			20			C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 5.8 B: C:
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 5.8 B: C:

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. PANEL FOR CLASSROOM UPFIT.

PANEL LP1 SCHEDULE

125 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	WASHER	3/4	12	20	12.0	1.4	A	1.4	12.0	20	12	3/4	WASHER	2
3	WASHER	3/4	12	20	12.0	1.4	B	1.4	12.0	20	12	3/4	WASHER	4
5	WASHER	3/4	12	20	12.0	1.4	C	1.4	12.0	20	12	3/4	WASHER	6
7	WASHER	3/4	12	20	12.0	1.4	A	1.4	12.0	20	12	3/4	WASHER	8
9	WASHER	3/4	12	20	12.0	1.4	B	1.4	12.0	20	12	3/4	WASHER	10
11	WASHER	3/4	12	20	12.0	1.4	C	1.4	12.0	20	12	3/4	WASHER	12
13	WASHER	3/4	12	20	12.0	1.4	A	1.4	12.0	20	12	3/4	WASHER	14
15	WASHER	3/4	12	20	12.0	1.4	B	1.4	12.0	20	12	3/4	WASHER	16
17	WASHER	3/4	12	20	12.0	1.4	C			20			SPARE	18
19	SPARE			20			A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
25	BUSSED SPACE						A						BUSSED SPACE	26
27	BUSSED SPACE						B						BUSSED SPACE	28
29	BUSSED SPACE						C						BUSSED SPACE	30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: 72.0 B: 72.0 C: 60.0
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 72.0 B: 72.0 C: 60.0

PANELBOARD OPTIONS:

PANELBOARD NOTES:

PANEL LP2 SCHEDULE

300 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN FLUSH MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	DRYER	3/4	10	30	24.0	2.5	A	2.5	24.0	30	10	3/4	DRYER	2
3					24.0	2.5	B	2.5	24.0					4
5	DRYER	3/4	10	30	24.0	2.5	C	2.5	24.0	30	10	3/4	DRYER	6
7					24.0	2.5	A	2.5	24.0					8
9	DRYER	3/4	10	30	24.0	2.5	B	2.5	24.0	30	10	3/4	DRYER	10
11					24.0	2.5	C	2.5	24.0					12
13	DRYER	3/4	10	30	24.0	2.5	A	2.5	24.0	30	10	3/4	DRYER	14
15					24.0	2.5	B	2.5	24.0					16
17	DRYER	3/4	10	30	24.0	2.5	C	2.5	24.0	30	10	3/4	DRYER	18
19					24.0	2.5	A	2.5	24.0					20
21	DRYER	3/4	10	30	24.0	2.5	B	2.5	24.0	30	10	3/4	DRYER	22
23					24.0	2.5	C	2.5	24.0					24
25	DRYER	3/4	10	30	24.0	2.5	A	2.5	24.0	30	10	3/4	DRYER	26
27					24.0	2.5	B	2.5	24.0					28
29	DRYER	3/4	10	30	24.0	2.5	C	2.5	24.0	30	10	3/4	DRYER	30
31					24.0	2.5	A	2.5	24.0					32
33	DRYER	3/4	10	30	24.0	2.5	B	2.5	24.0	30	10	3/4	DRYER	34
35					24.0	2.5	C	2.5	24.0					36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: 250.0 B: 250.0 C: 250.0
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 250.0 B: 250.0 C: 250.0

PANELBOARD OPTIONS:
1. PROVIDE 100% RATED MCB.

PANELBOARD NOTES:
1.

PANEL EL SCHEDULE

100 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	1ST LEVEL EMERGENCY LIGHTING	3/4	12	20	9.3	1.1	A	1.2	10.0	20	12	3/4	FACU (NOTE 2)	2
3	1ST LEVEL EMERGENCY LIGHTING	3/4	12	20	7.9	1.0	B	0.2	1.6	20	12	3/4	STAIRWELL LIGHTING	4
5	2ND LEVEL EMERGENCY LIGHTING	3/4	12	20	6.7	0.8	C	0.2	1.6	20	12	3/4	STAIRWELL LIGHTING	6
7	2ND LEVEL EMERGENCY LIGHTING	3/4	12	20	7.9	1.0	A	0.2	1.6	20	12	3/4	STAIRWELL LIGHTING	8
9	3RD LEVEL EMERGENCY LIGHTING	3/4	12	20	6.7	0.8	B	0.2	1.6	20	12	3/4	STAIRWELL LIGHTING	10
11	3RD LEVEL EMERGENCY LIGHTING	3/4	12	20	7.0	0.8	C	0.2	1.6	20	12	3/4	STAIRWELL LIGHTING	12
13	4TH LEVEL EMERGENCY LIGHTING	3/4	12	20	6.7	0.8	A	0.1	0.7	20	12	3/4	ELEV. 2 - 1ST FLOOR HOISTWAY LIGHTING	14
15	4TH LEVEL EMERGENCY LIGHTING	3/4	12	20	7.0	0.8	B	0.1	0.7	20	12	3/4	ELEV. 1 - 1ST FLOOR HOISTWAY LIGHTING	16
17	MECH. PLTF EMERGENCY LIGHTING	3/4	12	20	3.3	0.4	C	0.2	2.0	20	12	3/4	NAC EXTENDER 1ST FLOOR	18
19	EXTERIOR EGRESS LIGHTING	3/4	12	20	1.3	0.2	A	0.2	2.0	20	12	3/4	NAC EXTENDER 2ND FLOOR	20
21	EXTERIOR EGRESS LIGHTING	3/4	12	20	1.7	0.2	B	0.2	2.0	20	12	3/4	NAC EXTENDER 3RD FLOOR	22
23	ELEV 1 - CAB LIGHTS	3/4	12	20	1.0	0.1	C	0.2	2.0	20	12	3/4	NAC EXTENDER 4TH FLOOR	24
25	ELEV 2 - CAB LIGHTS	3/4	12	20	1.0	0.1	A	0.1	1.2	20	12	3/4	TSD-1 (LEVEL 1)	26
27	EMERGENCY BLUEPHONES (NOTE 2)	3/4	10	20	6.0	0.7	B	0.2	1.7	20	12	3/4	TSD-2 (LEVEL 1)	28
29	ELEV. 2 - 4TH FLOOR HOISTWAY LIGHTING	3/4	12	20	0.7	0.1	C	0.1	1.2	20	12	3/4	TSD-1 (LEVEL 2)	30
31	ELEV. 1 - 4TH FLOOR HOISTWAY LIGHTING	3/4	12	20	0.7	0.1	A	0.2	1.7	20	12	3/4	TSD-2 (LEVEL 2)	32
33	1ST LEVEL EMERGENCY LIGHTING	3/4	12	20	3.3	0.4	B	0.1	1.2	20	12	3/4	TSD-1 (LEVEL 3)	34
35	SPARE			20			C	0.2	1.7	20	12	3/4	TSD-2 (LEVEL 3)	36
37	SPD (NOTE 3)	3/4	10	30			A	0.1	1.2	20	12	3/4	TSD-1 (LEVEL 4)	38
39							B	0.2	1.7	20	12	3/4	TSD-2 (LEVEL 4)	40
41							C	0.2	2.0	20	12	3/4	LCE - CONTACTOR COIL	42

TOTAL AMPS (CONN. LOAD) A: 45.3 B: 43.3 C: 30.8
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 45.3 B: 43.3 C: 30.8

PANELBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.

PANELBOARD NOTES:
1. PANELBOARD CIRCUITS TYPICAL FOR BUILDINGS 3 AND 4. LOADS ARE NOT TYPICAL. HIGHEST LOADS SHOWN.
2. PROVIDE LOCK-OUT HANDLE FOR BREAKER IN "ON" POSITION. PAINT BREAKER HANDLE RED.
3. BREAKER RATING AND WIRE SIZE MAY VARY PER MANUFACTURER. PROVIDE BREAKER AND WIRE SIZE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

PANEL T1 SCHEDULE

100 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	RECEPT - 3-TB01 (1ST LEVEL)	3/4	12	20	3.0	0.4	A	0.4	3.0	20	12	3/4	RECEPT - 3-TB01 (1ST LEVEL)	2
3	RECEPT - 3-TB01 (1ST LEVEL)	3/4	12	20	3.0	0.4	B	0.4	3.0	20	12	3/4	RECEPT - 3-TB01 (1ST LEVEL)	4
5	RECEPT - 3-TB01 (1ST LEVEL)	3/4	12	20	3.0	0.4	C	0.4	3.0	20	12	3/4	RECEPT - 3-TB01 (1ST LEVEL)	6
7	RECEPT - 3-TB01 (1ST LEVEL)	3/4	12	20	3.0	0.4	A	1.4	12.0	20	12	3/4	RECEPT - RACK #4 (1ST LEVEL)	8
9	RECEPT - 3-TB01 (1ST LEVEL)	3/4	12	20	3.0	0.4	B	1.4	12.0	20	12	3/4	RECEPT - RACK #4 (1ST LEVEL)	10
11	RECEPT - RACK #3 (1ST LEVEL)	3/4	12	20	12.0	1.4	C	1.3	12.0					12
13	RECEPT - RACK #2 (1ST LEVEL)				12.0	1.3	A	0.4	3.0	20	12	3/4	RECEPT - 3-TB04 (4TH LEVEL)	14
15		3/4	12	20	12.0	1.3	B	0.4	3.0	20	12	3/4	RECEPT - 3-TB04 (4TH LEVEL)	16
17	RECEPT - RACK #2 (1ST LEVEL)	3/4	12	20	12.0	1.3	C	0.4	3.0	20	12	3/4	RECEPT - 3-TB04 (4TH LEVEL)	18
19	RECEPT - RACK #1 (1ST LEVEL)	3/4	12	20	12.0	1.4	A	1.4	12.0	20	12	3/4	RECEPT - RACK #3 (4TH LEVEL)	20
21	RECEPT - 3-TB04 (4TH LEVEL)	3/4	12	20	3.0	0.4	B	1.3	12.0	20	12	3/4	RECEPT - RACK #3 (4TH LEVEL)	22
23	RECEPT - 3-TB04 (4TH LEVEL)	3/4	12	20	3.0	0.4	C	1.3	12.0					24
25	RECEPT - 3-TB04 (4TH FLOOR)	3/4	12	20	3.0	0.4	A	0.7	6.0	20	12	3/4	ACCESS CONTROL HEADEND EQUIPMENT	26
27	RECEPT - 3-TB04 (4TH LEVEL)	3/4	12	20	3.0	0.4	B			20			SPARE	28
29	RECEPT - 3-TB04 (4TH LEVEL)	3/4	12	20	3.0	0.4	C			20			SPARE	30
31	RECEPT - RACK #2 (4TH LEVEL)	3/4	12	20	12.0	1.3	A			20			SPARE	32
33					12.0	1.3	B			20			SPARE	34
35	RECEPT - RACK #2 (4TH LEVEL)	3/4	12	20	12.0	1.4	C			20			SPARE	36
37	RECEPT - RACK #1 (4TH LEVEL)	3/4	12	20	12.0	1.4	A			30			SPD (NOTE 1)	38
39	SPARE			20			B							40
41	SPARE			20			C							42

TOTAL AMPS (CONN. LOAD) A: 89.8 B: 61.3 C: 70.3
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 89.8 B: 61.3 C: 70.3

PANELBOARD OPTIONS:
1. PROVIDE EXTERNALLY MOUNTED SPD.

PANELBOARD NOTES:
1. BREAKER RATING AND WIRE SIZE MAY VARY PER MANUFACTURER. PROVIDE BREAKER AND WIRE SIZE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. REFER TO POWER RISER DIAGRAM FEEDER SCHEDULE, SHEET 3EP-600 FOR FEEDER AND CONDUIT SIZES.

DISTRIBUTION PANEL OSDP SCHEDULE

200 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	PANEL T1	*	*	100	89.8	10.8	A			20			SPARE	2
3					61.3	7.4	B	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 1, LEVEL 2	4
5					70.3	8.4	C	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 1 , LEVEL 3	6
7	ELEV - 1	*	*	60	34.0	4.1	A	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 1, LEVEL 4	8
9	(VIA ATS 2)				34.0	4.1	B			20			SPARE	10
11					34.0	4.1	C	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 2, LEVEL 2	12
13	SHUNT TRIP						A	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 2, LEVEL 3	14
15	ELEV - 2	*	*	60	34.0	4.1	B	0.2	2.0	20	12	3/4	SMOKE CURTAIN - ELEV 2 , LEVEL 4	16
17	(VIA ATS 2)				34.0	4.1	C			20			SPARE	18
19					34.0	4.1	A			20			SPARE	20
21	SHUNT TRIP						B	0.2	1.5	20	12	3/4	ELEV MACH RM - GFI	22
23	BUSSED SPACE						C	0.2	1.5	20	12	3/4	ELEV MACH RM - GFI	24
25	BUSSED SPACE						A	0.2	1.5	20	12	3/4	ELEV 1 - PIT RECEPT - GFI	26
27	BUSSED SPACE						B	0.2	1.5	20	12	3/4	ELEV 2 - PIT RECEPT - GFI	28
29	BUSSED SPACE						C	1.2	10.0	20	12	3/4	EMERG. COMM. BASE STATION	30
31	BUSSED SPACE						A	0.2	2.0	20	12	3/4	REMOTE COMM. STATIONS ELEV. 1	32
33	BUSSED SPACE						B	0.2	2.0	20	12	3/4	REMOTE COMM. STATIONS ELEV. 2	34
35	BUSSED SPACE						C			20			SPARE	36
37	SPD (NOTE 1)	3/4	10	30			A			20			SPARE	38
39							B			20			SPARE	40
41							C			20			SPARE	42

TOTAL AMPS (CONN. LOAD) A: 165.4 B: 138.3 C: 153.8
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 165.4 B: 138.3 C: 153.8

PANELBOARD OPTIONS:

PANELBOARD NOTES:
1. BREAKER RATING AND WIRE SIZE MAY VARY PER MANUFACTURER. PROVIDE BREAKER AND WIRE SIZE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. * INDICATES WIRE AND CONDUIT SIZE ARE SHOWN ON THE FEEDER SCHEDULE, SHEET 3EP-600.

PANEL L1 SCHEDULE

100 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	1ST LEVEL LIGHTING	3/4	12	20	9.6	1.2	A	0.6	5.2	20	12	3/4	1ST LEVEL STU. BEDROOM LIGHTING (NOTE 2)	2
3	1ST LEVEL LIGHTING	3/4	12	20	9.3	1.1	B	0.6	5.2	20	12	3/4	1ST LEVEL STU. BEDROOM LIGHTING (NOTE 2)	4
5	1ST LEVEL LIGHTING	3/4	12	20	6.7	0.8	C	0.5	4.6	20	12	3/4	1ST LEVEL STU. BEDROOM LIGHTING (NOTE 2)	6
7	1ST LEVEL LIGHTING	3/4	12	20	6.6	0.8	A	1.2	9.8	20	12	3/4	2ND LEVEL STU. BEDROOM LIGHTING (NOTE 2)	8
9	2ND LEVEL LIGHTING	3/4	12	20	9.6	1.2	B	1.2	9.8	20	12	3/4	2ND LEVEL STU. BEDROOM LIGHTING (NOTE 2)	10
11	2ND LEVEL LIGHTING	3/4	12	20	9.4	1.1	C	0.1	0.7	20	12	3/4	2ND LEVEL STU. BEDROOM LIGHTING (NOTE 2)	12
13	2ND LEVEL LIGHTING	3/4	12	20	6.8	0.8	A	1.2	9.8	20	12	3/4	3RD LEVEL STU. BEDROOM LIGHTING (NOTE 2)	14
15	3RD LEVEL LIGHTING	3/4	12	20	9.6	1.2	B	1.2	9.8	20	12	3/4	3RD LEVEL STU. BEDROOM LIGHTING (NOTE 2)	16
17	3RD LEVEL LIGHTING	3/4	12	20	9.4	1.1	C	0.7	5.5	20	12	3/4	3RD LEVEL STU. BEDROOM LIGHTING (NOTE 2)	18
19	3RD LEVEL LIGHTING	3/4	12	20	6.8	0.8	A	1.2	9.8	20	12	3/4	4TH LEVEL STU. BEDROOM LIGHTING (NOTE 2)	20
21	4TH LEVEL LIGHTING	3/4	12	20	9.6	1.2	B	1.2	9.8	20	12	3/4	4TH LEVEL STU. BEDROOM LIGHTING (NOTE 2)	22
23	4TH LEVEL LIGHTING	3/4	12	20	9.4	1.1	C	0.7	5.5	20	12	3/4	4TH LEVEL STU. BEDROOM LIGHTING (NOTE 2)	24
25	4TH LEVEL LIGHTING	3/4	12	20	6.8	0.8	A			20			SPARE	26
27	MECH. PLTF. LIGHTING	3/4	12	20	4.8	0.6	B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	SPARE			20			A			20			SPARE	32
33	SPARE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: 71.2 B: 77.5 C: 51.2
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 71.2 B: 77.5 C: 51.2

PANELBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.

PANELBOARD NOTES:
1. PANELBOARD CIRCUITS TYPICAL FOR BUILDINGS 3 AND 4. LOADS ARE NOT TYPICAL. HIGHEST LOADS SHOWN.
2. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.

DISTRIBUTION PANEL DP1 SCHEDULE

600 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	PANEL HPXA	*	*	100	42.4	5.1	A	10.0	83.5	125	*	*	PANEL 1A	2
3					72.4	8.7	B	9.5	79.0					4
5					67.7	8.1	C	9.6	80.1					6
7	PANEL PXA	*	*	100	54.0	6.5	A	6.5	54.0	100	*	*	PANEL PXF	8
9					45.0	5.4	B	5.4	45.0					10
11					45.0	5.4	C	5.4	45.0					12
13	PANEL PXB	*	*	100	45.0	5.4	A	5.0	41.9	100	*	*	PANEL HPXB	14
15					45.0	5.4	B	8.2	67.9					16
17					36.0	4.3	C	8.4	70.2					18
19	SPARE			100			A						BUSSED SPACE	20
21							B						BUSSED SPACE	22
23							C						BUSSED SPACE	24
25	BUSSED SPACE						A						BUSSED SPACE	26
27	BUSSED SPACE						B						BUSSED SPACE	28
29	BUSSED SPACE						C						BUSSED SPACE	30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD) A: 320.8 B: 354.4 C: 343.9
TOTAL AMPS (FEEDTHRU) A: B: C:
TOTAL AMPS (CONN. LOAD + FEED-THRU) A: 320.8 B: 354.4 C: 343.9

PANELBOARD OPTIONS:
1. PROVIDE 100% RATED MCB.

PANELBOARD NOTES:
1. * INDICATES WIRE AND CONDUIT SIZE ARE SHOWN ON THE FEEDER SCHEDULE, SHEET 3EP-600.

SWBD MSB SCHEDULE

3000 AMP MCB 208Y/120 VOLTS 3PH, 4W, SN FLOOR MOUNTED SE RATED

COMPARTMENT DESCRIPTION	LOAD SERVED	COND	WIRE	AF AT	AMPS	KVA	PH
INCOMING CABLE COMPARTMENT		(NOTE 2)	(NOTE 2)				
MAIN CIRCUIT BREAKER				3000 3000			
CUSTOMER METERING COMPARTMENT							
A1	BUSSED SPACE						A B C
A2	BUSSED SPACE						A B C
A3	PANEL LP1	*	*	250 125	72.0 72.0 60.0	8.6 8.6 7.2	A B C
A4	PANEL LP2 (NOTE 3)	*	*	400 300	250.0 250.0 250.0	30.0 30.0 30.0	A B C
A5	PANEL K1 - BUILDING 3 PANEL CS1 - BUILDING 4	*	*	400 400	145.1 141.6 139.0	17.4 17.0 16.7	A B C
A6	PANEL K2 - BUILDING 3 PANEL CS2 - BUILDING 4	*	*	400 400	145.3 132.0 165.3	17.4 15.8 19.8	A B C
A7	PANEL SL	*	*	250 225	1.6 2.0	0.2 0.2	A B C
A8	PANEL L1	*	*	100 100	71.2 77.5 51.2	8.5 9.3 6.1	A B C
A9	DISTRIBUTION PANEL DP1	*	*	600 600	320.8 354.4 343.9	38.5 42.5 41.3	A B C
A10	PANEL EL VIA ATS1	*	*	100 100	45.3 43.3 30.8	5.4 5.2 3.7	A B C
A11	DISTRIBUTION PANEL OSDP VIA ATS2	*	*	250 200	165.4 138.3 153.8	19.8 16.6 18.5	A B C
A12	PANEL HP1C	*	*	400 400	73.7 71.6 54.0	8.8 8.6 6.5	A B C
A13	PANEL P1C	*	*	250 225	100.3 88.9 85.7	12.0 10.7 10.3	A B C
A14	PANEL MSP	*	*	250 225	11.5 7.5 6.0	1.4 0.9 0.7	A B C
A15	PANEL CP	*	*	250 225	8.8 6.0 6.0	1.1 0.7 0.7	A B C
A16	DISTRIBUTION PANEL DPX (SECOND FLOOR)	*	*	600 600	374.9 400.8 375.8	45.0 48.1 45.1	A B C
A17	DISTRIBUTION PANEL DPX (THIRD FLOOR)	*	*	600 600	374.9 400.8 375.8	45.0 48.1 45.1	A B C
A18	DISTRIBUTION PANEL DPX (FOURTH FLOOR)	*	*	600 600	374.9 400.8 375.8	45.0 48.1 45.1	A B C
A19	PANEL MP4A	*	*	600 600	465.3 465.3 465.3	55.8 55.8 55.8	A B C
A20	PANEL MP4B	*	*	600 600	431.6 431.6 431.6	51.8 51.8 51.8	A B C
A21	PANEL MP4C	*	*	600 600	346.5 346.5 346.5	41.6 41.6 41.6	A B C
A22	BUSSED SPACE						A B C
A23	BUSSED SPACE						A B C

TOTAL CONNECTED AMPS A: 3779.1 B: 3828.8 C: 3718.6

LOAD DESCRIPTION	PANEL CONN. LOAD	SUBFEED CONN. LOAD	TOTAL LOAD	D.F.	TOTAL DEMAND
LIGHTING	KVA	36.5 KVA	36.5 KVA	1.25	45.6 KVA
RECEPTACLES	KVA	451.4 KVA	451.4 KVA	NEC	230.7 KVA
MECH EQUIP	KVA	673.5 KVA	673.5 KVA	0.85	572.5 KVA
ELECTRIC HEAT	KVA	4.5 KVA	4.5 KVA	1.25	5.6 KVA
MISCELLANEOUS	KVA	168.9 KVA	168.9 KVA	0.80	135.1 KVA
ELEVATOR	KVA	24.5 KVA	24.5 KVA	0.80	19.6 KVA
	KVA	KVA	KVA		KVA
	KVA	KVA	KVA		KVA
	KVA	KVA	KVA		KVA
	KVA	KVA	KVA		KVA
	KVA	KVA	KVA		KVA
	KVA	KVA	KVA		KVA
TOTALS (CONN. KVA)	KVA	1359.2 KVA	1359.2 KVA		1009.0 KVA
TOTALS (CONN. KVA + 0% SPARE)	KVA	1359.2 KVA	1359.2 KVA		1009.0 KVA
TOTALS (CONN. AMPS)	AMPS	3772.7 AMPS	3772.7 AMPS		2800.8 AMPS
TOTALS (CONN. KVA + 0% SPARE)	AMPS	3772.7 AMPS	3772.7 AMPS		2800.8 AMPS

SWITCHBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.
2. PROVIDE 100% RATED MCB.
3. PROVIDE GROUND FAULT PROTECTION.
4. PROVIDE INTERNALLY MOUNTED SPD.

SWITCHBOARD NOTES:
1. * INDICATES WIRE AND CONDUIT SIZE ARE SHOWN ON THE FEEDER SCHEDULE, SHEET 3EP-600.
2. REFER TO RISER DIAGRAM 3EP-600 FOR CONDUIT AND WIRE SIZES.
3. PROVIDE 100% RATED BREAKER.

HP1C	LP1	L1
P1C	LP2	DP1
1A	EL	MSB
MSP	T1	
CP	OSDP	

University of North Carolina at Wilmington

Student Village
Public-Private Partnership
601 S College Rd, Wilmington NC 28403

Balfour Beatty
Campus Solutions

Balfour Beatty
Construction

SCO# 18-19231-01E

DESIGNER

CLARKNEXSEN
1523 ELIZABETH AVENUE, SUITE 300
CHARLOTTE, NORTH CAROLINA 28204
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CIVIL ENGINEER
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WILMINGTON, NORTH CAROLINA
28401
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NORTH CAROLINA CORPORATE ENGINEERING
LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

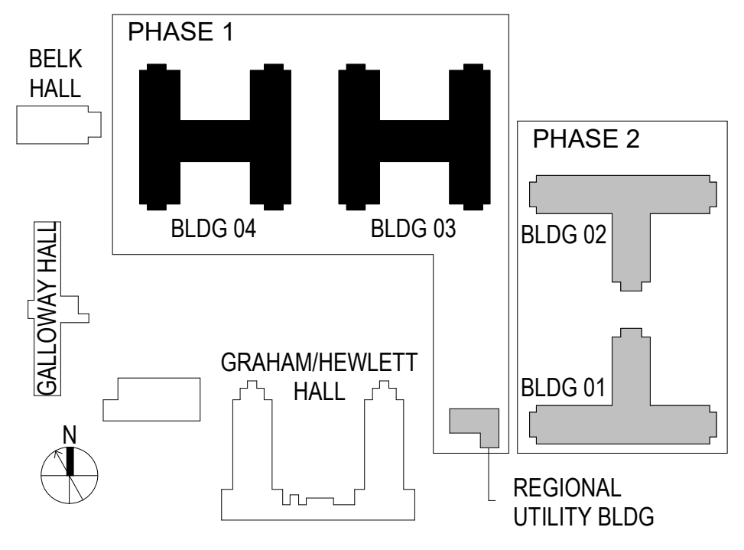
RETAIL/COMMON SPACES UPFITS
PRICING SET - 11/1/2019
NOT FOR CONSTRUCTION

SUBMITTAL
11 JULY 2019
PHASE 1 (BLDGS 3 & 4)
FOR CONSTRUCTION SET

REVISIONS

1	8/8/2019	ASI#3
2	8/30/2019	ASI#4
3	10/22/19	ASI#5
4		ASI#6

KEY PLAN



SHEET
FIRST FLOOR PANELBOARD SCHEDULES

3EP-601

DESIGN: AJM
DRAWN: CRS
REVIEW: AJM

CN 7368

11/1/2019 2:42:08 PM
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PANEL MP4A SCHEDULE

600 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	HP-1	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-2	2
3					34.4	4.1	B	4.1	34.4					4
5					34.4	4.1	C	4.1	34.4					6
7	HP-6	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-7	8
9					34.4	4.1	B	4.1	34.4					10
11					34.4	4.1	C	4.1	34.4					12
13	HP-11	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-12	14
15					34.4	4.1	B	4.1	34.4					16
17					34.4	4.1	C	4.1	34.4					18
19	HP-16	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-17	20
21					34.4	4.1	B	4.1	34.4					22
23					34.4	4.1	C	4.1	34.4					24
25	ERV-5	1-1/2	1	110	92.0	11.0	A	11.8	98.0	125	1	1-1/2	ERV-2	26
27					92.0	11.0	B	11.8	98.0					28
29					92.0	11.0	C	11.8	98.0					30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD)	A:	465.3	B:	465.3	C:	465.3	
TOTAL AMPS (FEEDTHRU)	A:		B:		C:		
TOTAL AMPS (CONN. LOAD + FEED-THRU)	A:	465.3	B:	465.3	C:	465.3	

PANELBOARD OPTIONS:

PANELBOARD NOTES:

PANEL MP4B SCHEDULE

600 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	HP-5	1-1/4	4	70	42.1	5.1	A	4.1	34.4	50	6	1	HP-4	2
3					42.1	5.1	B	4.1	34.4					4
5					42.1	5.1	C	4.1	34.4					6
7	HP-10	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-9	8
9					34.4	4.1	B	4.1	34.4					10
11					34.4	4.1	C	4.1	34.4					12
13	HP-15	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-14	14
15					34.4	4.1	B	4.1	34.4					16
17					34.4	4.1	C	4.1	34.4					18
19	HP-18	1	6	50	34.4	4.1	A	11.8	98.0	125	1	1-1/2	ERV-1	20
21					34.4	4.1	B	11.8	98.0					22
23					34.4	4.1	C	11.8	98.0					24
25	BUSSED SPACE						A	10.2	85.0	110	1	1-1/2	ERV-4	26
27	BUSSED SPACE						B	10.2	85.0					28
29	BUSSED SPACE						C	10.2	85.0					30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C						BUSSED SPACE	42

TOTAL AMPS (CONN. LOAD)	A:	431.6	B:	431.6	C:	431.6	
TOTAL AMPS (FEEDTHRU)	A:		B:		C:		
TOTAL AMPS (CONN. LOAD + FEED-THRU)	A:	431.6	B:	431.6	C:	431.6	

PANELBOARD OPTIONS:

PANELBOARD NOTES:

PANEL SL SCHEDULE

225 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	LIGHTING - SERVICE YARD	3/4	12	20	0.8	0.1	A						BUSSED SPACE	2
3	BUSSED SPACE						B						BUSSED SPACE	4
5	BUSSED SPACE						C						BUSSED SPACE	6
7	BUSSED SPACE						A						BUSSED SPACE	8
9	BUSSED SPACE						B						BUSSED SPACE	10
11	BUSSED SPACE						C						BUSSED SPACE	12
13	BUSSED SPACE						A						BUSSED SPACE	14
15	BUSSED SPACE						B						BUSSED SPACE	16
17	BUSSED SPACE						C						BUSSED SPACE	18
19	BUSSED SPACE						A						BUSSED SPACE	20
21	BUSSED SPACE						B						BUSSED SPACE	22
23	BUSSED SPACE						C						BUSSED SPACE	24
25	BUSSED SPACE						A						BUSSED SPACE	26
27	BUSSED SPACE						B						BUSSED SPACE	28
29	BUSSED SPACE						C						BUSSED SPACE	30
31	BUSSED SPACE						A						BUSSED SPACE	32
33	BUSSED SPACE						B						BUSSED SPACE	34
35	BUSSED SPACE						C						BUSSED SPACE	36
37	BUSSED SPACE						A						BUSSED SPACE	38
39	BUSSED SPACE						B						BUSSED SPACE	40
41	BUSSED SPACE						C	0.2	2.0	20	12	3/4	LC CONTACTOR COIL	42

TOTAL AMPS (CONN. LOAD)	A:	0.8	B:		C:	2.0	
TOTAL AMPS (FEEDTHRU)	A:		B:		C:		
TOTAL AMPS (CONN. LOAD + FEED-THRU)	A:	0.8	B:		C:	2.0	

PANELBOARD OPTIONS:

PANELBOARD NOTES:

1. PANEL FOR FUTURE SITE FEATURES.

PANEL MP4C SCHEDULE

600 AMP MLO 208Y/120 VOLTS 3PH, 4W, SN SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	HP-3	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-19	2
3					34.4	4.1	B	4.1	34.4					4
5					34.4	4.1	C	4.1	34.4					6
7	HP-8	1	6	50	34.4	4.1	A	4.1	34.4	50	6	1	HP-20 (BUILDING 3 - NOTES 1 & 2)	8
9					34.4	4.1	B	4.1	34.4				HP-24 (BUILDING 4 - NOTES 1 & 2)	10
11					34.4	4.1	C	4.1	34.4					12
13	HP-13	1	6	50	34.4	4.1	A	2.7	22.4	35	8	3/4	HP-21 (NOTES 1 & 3)	14
15					34.4	4.1	B	2.7	22.4				(BUILDING 3 ONLY)	16
17					34.4	4.1	C	2.7	22.4					18
19	ERV-3	2	1/0	150	116.0	13.9	A	1.1	10.4	15	12	3/4	ACHP-1 / AC-1	20
21					116.0	13.9	B	1.1	10.4					22
23					116.0	13.9	C	1.1	10.4	15	12	3/4	ACHP-1 / AC-1	24
25	BUSSED SPACE						A	1.1	10.4					26
27	BUSSED SPACE						B	1.1	10.4	15	12	3/4	ACHP-1 / AC-1	28
29	BUSSED SPACE						C	1.1	10.4					30
31	BUSSED SPACE						A	1.1	10.4	15	12	3/4	ACHP-1 / AC-1	32
33	BUSSED SPACE						B	1.1	10.4					34
35	BUSSED SPACE						C	1.1	10.4	15	12	3/4	ACHP-1 / AC-1	36
37	BUSSED SPACE						A	1.1	10.4					38
39	BUSSED SPACE						B	1.1	10.4	15	12	3/4	ACHP-1 / AC-1	40
41	BUSSED SPACE						C	1.1	10.4					42

TOTAL AMPS (CONN. LOAD)	A:	346.5	B:	346.5	C:	346.5	
TOTAL AMPS (FEEDTHRU)	A:		B:		C:		
TOTAL AMPS (CONN. LOAD + FEED-THRU)	A:	346.5	B:	346.5	C:	346.5	

PANELBOARD OPTIONS:

PANELBOARD NOTES:

1. HEAT PUMPS HP-20 & HP-21 ARE BEING REPLACED WITH SINGLE UNIT HP-24 IN BUILDING 4.
2. UTILIZE BRANCH CIRCUIT MP4C-8,10,12 TO SERVE HP-24. NOTE HIGHER LOAD FOR HP-24 IS SHOWN IN SCHEDULE.
3. BRANCH CIRCUIT MP4C-14,16,18 SHALL REMAIN A SPARE IN BUILDING 4.

	SP1	MP4A
	SP2	MP4B
	SL	MP4C

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NORTH CAROLINA CORPORATE ENGINEERING LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

RETAIL/COMMON SPACES UPFITS
PRICING SET - 11/1/2019
NOT FOR CONSTRUCTION

SUBMITTAL

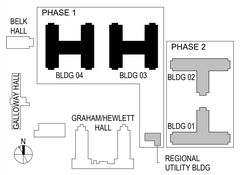
11 JULY 2019

PHASE 1 (BLDGS 3 & 4)
FOR CONSTRUCTION SET

REVISIONS

1	8/8/2019	ASI#3
2		ASI#6

KEY PLAN



SHEET

RETAIL & MECHANICAL PANELBOARD SCHEDULES

3EP-602

DESIGN: AJM
DRAWN: CRS
REVIEW: AJM

CN 7368

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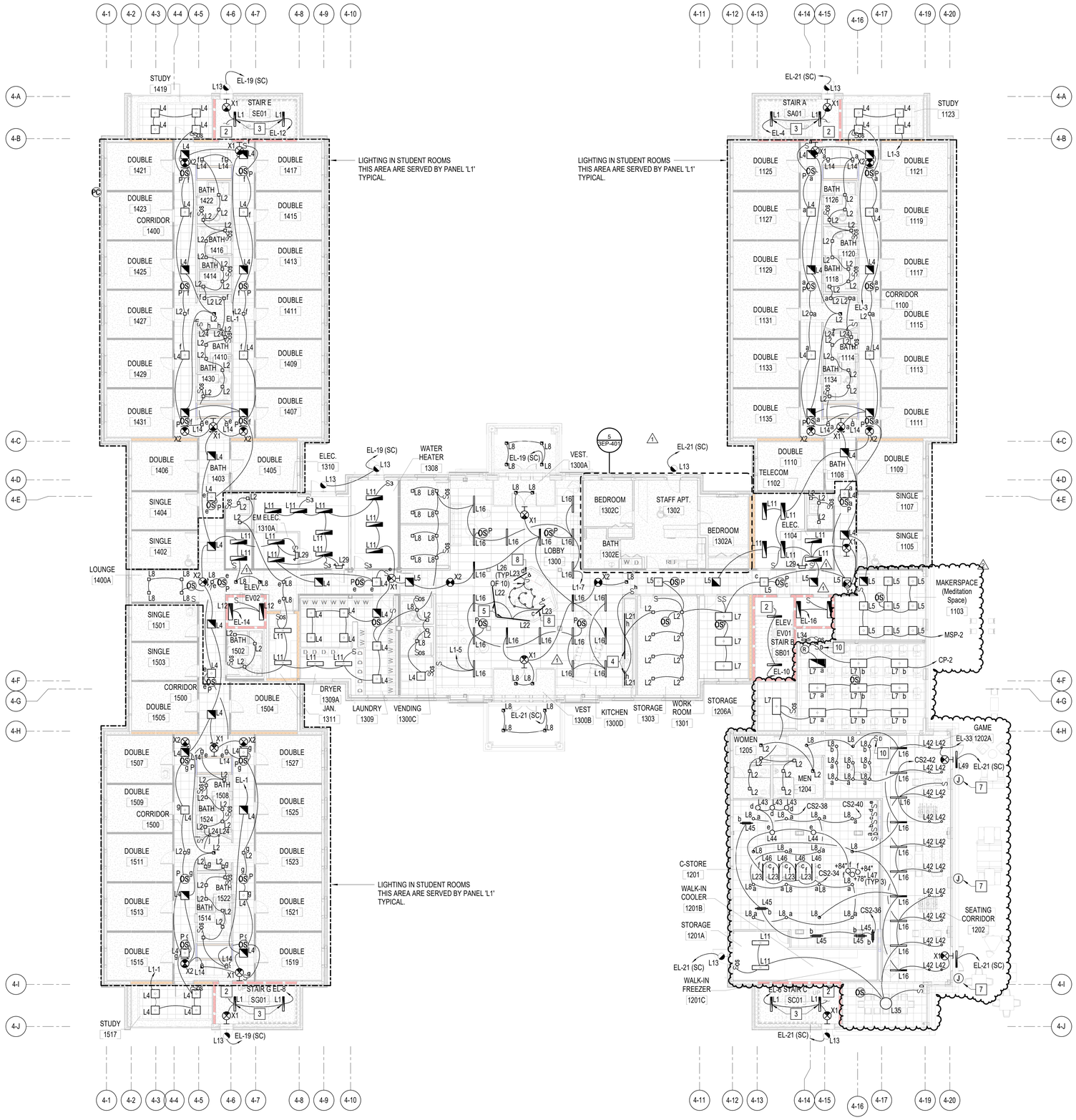

1 BLDG 04 LEVEL 01 - LIGHTING PLAN
3/32" = 1'-0"

GENERAL NOTES

1. EMERGENCY LIGHTING SHALL BE SWITCHED TOGETHER WITH NORMAL LIGHTING IN ROOMS/AREAS WITH NORMAL SWITCHED LIGHTING. SEE DETAIL 3/0EL600.
2. LIGHTING CONTROLS AND LUMINAIRES DESIGNATED WITH LOWER CASE LETTERS INDICATE WHICH LUMINAIRE OR LAMPS SHALLBE CONTROLLED BY EACH LIGHTING CONTROL DEVICE.
3. LIGHTING CONTROLS AND LUMINAIRES WITHIN ENCLOSED SPACES WITHOUT LOWER CASE LETTER DESIGNATIONS SHALL CONTROL LUMINAIRES WITHIN THE SPACE; UNLESS OTHERWISE NOTED.
4. PROVIDE ROUND 3/8" DIAMETER GREEN-COLORED STICKER FOR INDICATING LUMINAIRES CONNECTED TO EMERGENCY POWER.

KEY NOTES

1
2 UP TO STAIRWELL LUMINAIRES.
3 INSTALL STAIRWELL LUMINAIRES PER PLAN LOCATION. DO NOT CENTER ON LANDING.
4 SEE DETAIL 3, SHEET A-425 FOR INSTALLATION DETAIL.
5 SEE DETAIL C1, SHEET A-400 FOR INSTALLATION DETAIL.
6 NOT USED.
7 RECESSED JUNCTION BOX FOR FUTURE LIGHT STRING. PROVIDE WITH TEMPORARY WEATHER-TIGHT GASKETED BLANK COVER PLATE . PROVIDE CONDUIT AND PULL STRING BACK TO PANELBOARD SL1. MOUNT JUNCTION BOX AT 15'-8" AFG AT LOCATION SHOWN. REFER TO SHEET 0EL-401 FOR LIGHTING LAYOUT.
8 SEE DETAIL 3, SHEET A-400 FOR INSTALLATION DETAIL FOR STRIP LIGHT AND SWITCH.
9 NOT USED.
10 DIMMER SWITCH WITH ABILITY TO INDIVIDUALLY CONTROL TWO ZONES OF LIGHTING (MINIMUM), WITH TWO PRESETS (MINIMUM).

WALL LEGEND

1 HOUR RATED FIRE PARTITION

2 HOUR RATED FIRE BARRIER

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

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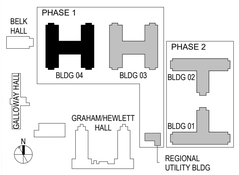
11 JULY 2019

PHASE 1 (BLDGS 3 & 4) FOR CONSTRUCTION SET

REVISIONS

1	10/22/19	ASI#5
2		ASI#6

KEY PLAN



SHEET

BUILDING 04 LEVEL 01 - LIGHTING PLAN

4EL-101

DESIGN: AJM
DRAWN: CRS
REVIEW: AJM

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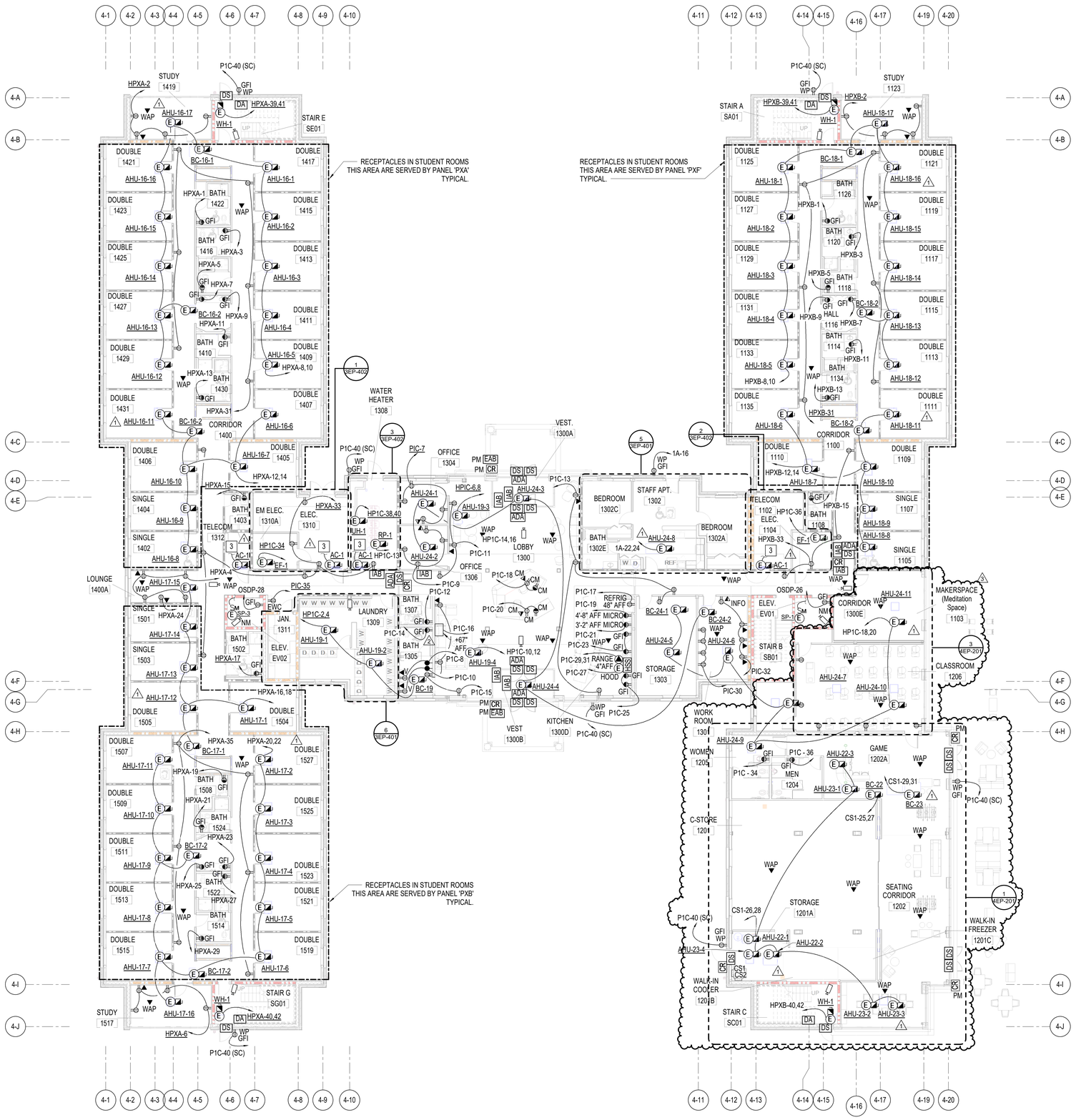

1 BLDG 04 LEVEL 01 - POWER & TELECOM PLAN
3/32" = 1'-0"

GENERAL NOTES

KEY NOTES

1 REFER TO DETAIL 1/3EP-402 FOR METER LOCATION SERVING THE RETAIL SPACE.
2 NOT USED.
3 TO ACHP-1 ON ROOF.

WALL LEGEND

1 HOUR RATED FIRE PARTITION
2 HOUR RATED FIRE BARRIER

GRAPHIC SCALE(S)

3/32" = 1' - 0" 0 5' 10' 20' 40'

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REVISIONS

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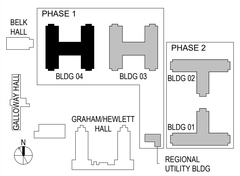
2	10/22/19	ASI#5
3		ASI#6

KEY PLAN



SHEET

BUILDING 04 LEVEL 01 - POWER & TELECOM PLAN

4EP-101

DESIGN: AJM
DRAWN: CRS
REVIEW: AJM

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C-STORE EQUIPMENT SCHEDULE

EQUIPMENT DESIGNATION	LOCATION	DESCRIPTION	HP / WATTS / TONS	VOLT	PH	FLA	KVA	OCPD	CONNECTION TYPE
EQUIPMENT DESIGNATION				EQUIPMENT RATINGS					
CS-1	C-STORE - BLDG 4	SLUSHY MACHINE (TAYLOR 432)	—	208	1	17.0	3.54	20	RECEPT - NEMA 6-20R
CS-2	C-STORE - BLDG 4	UNDERCOUNTER MICROWAVE (AMANA RMS10TS)	—	120	1	13.0	1.56	20	RECEPT - NEMA 5-20R
CS-3	C-STORE - BLDG 4	DIGITAL MENU BOARD	—	120	1	3.0	0.36	20	RECEPT - NEMA 5-20R
CS-4	C-STORE - BLDG 4	FOOD PREP TABLE (TRUE TSSU-27-08)	—	120	1	4.9	0.59	20	RECEPT - NEMA 5-20R
CS-5	C-STORE - BLDG 4	UNDERCOUNTER FREEZER (TRUE TUC-48F-LP-HC)	—	120	1	5.4	0.65	20	RECEPT - NEMA 5-20R
CS-6	C-STORE - BLDG 4	IMPINGER OVEN (OVENTION SHUTTLE 1200)	—	208	1	26.0	5.41	30	RECEPT - NEMA 6-30R
CS-7	C-STORE - BLDG 4	UNDERCOUNTER REFRIGERATOR (TRUE TUC-27-LP-HC)	—	120	1	2.0	0.24	20	RECEPT - NEMA 5-20R
CS-8	C-STORE - BLDG 4	MERRY CHEF OVEN	—	208	1	28.8	0.24	30	RECEPT - NEMA L6-30R
CS-9	C-STORE - BLDG 4	POINT OF SALE	—	120	1	5.0	0.60	20	RECEPT - NEMA 5-20R
CS-10	C-STORE - BLDG 4	SELF CHECKOUT	—	120	1	5.0	0.60	20	RECEPT - NEMA 5-20R
CS-11	C-STORE - BLDG 4	BEVERAGE FOUNTAIN / ICE MACHINE	—	120	1	3.0	0.36	20	RECEPT - NEMA 5-20R
CS-12	C-STORE - BLDG 4	HOT FOOD SLIDE	—	120	1	8.0	0.96	20	RECEPT - NEMA 5-20R
CS-13	C-STORE - BLDG 4	POD SIGN	—	120	1	2.0	0.24	20	RECEPT - NEMA 5-20R
CS-14	C-STORE - BLDG 4	REFRIGERATED SELF SERVE ISLAND	—	208	1	10.0	2.08	20	RECEPT - NEMA 6-20R
CS-15A	C-STORE - BLDG 4	WALK-IN COOLER - EVAPORATOR, LIGHTING	—	120	1	2.0	0.24	15	HARD WIRED
CS-15B	C-STORE - BLDG 4	WALK-IN COOLER - CONDENSING UNIT	—	208	1	11.5	2.39	20	HARD WIRED
CS-16A	C-STORE - BLDG 4	WALK-IN FREEZER - EVAPORATOR, LIGHTING	—	208	1	1.2	0.25	15	HARD WIRED
CS-16B	C-STORE - BLDG 4	WALK-IN FREEZER - CONDENSING UNIT	—	208	1	11.0	2.29	20	HARD WIRED
CS-16C	C-STORE - BLDG 4	WALK-IN FREEZER - DEFROST HEATERS	—	208	1	10.3	2.14	15	HARD WIRED
CS-17	C-STORE - BLDG 4	PROVISIONS ON DEMAND SIGN	—	120	1	2.0	0.24	20	RECEPT - NEMA 5-20R
WH-CS	C-STORE - BLDG 4	WATER HEATER	—	208	3	74.9	27.00	100	
AHU-22-1	C-STORE - BLDG 5	INDOOR AIR HANDLING UNIT	—	208	1	2.1	0.43	20	
AHU-22-2	C-STORE - BLDG 6	INDOOR AIR HANDLING UNIT	—	208	1	2.1	0.43	20	
AHU-22-3	C-STORE - BLDG 7	INDOOR AIR HANDLING UNIT	—	208	1	0.2	0.04	20	
AHU-23-1	C-STORE - BLDG 8	INDOOR AIR HANDLING UNIT	—	208	1	2.1	0.43	20	
AHU-23-2	C-STORE - BLDG 9	INDOOR AIR HANDLING UNIT	—	208	1	0.3	0.06	20	
AHU-23-3	C-STORE - BLDG 10	INDOOR AIR HANDLING UNIT	—	208	1	0.3	0.06	20	
AHU-23-4	C-STORE - BLDG 11	INDOOR AIR HANDLING UNIT	—	208	1	0.3	0.06	20	

PANEL CS1 (FORMERLY BLDG-4 SP1) SCHEDULE

400 AMP MLO | 208Y/120 VOLTS | 3PH, 4W, SN | SURFACE MOUNTED

CKT. NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	BUSSED SPACE						A						BUSSED SPACE	2
3	BUSSED SPACE						B						BUSSED SPACE	4
5	BUSSED SPACE						C						BUSSED SPACE	6
7	BUSSED SPACE						A						BUSSED SPACE	8
9	BUSSED SPACE						B						BUSSED SPACE	10
11	BUSSED SPACE						C						BUSSED SPACE	12
13	BUSSED SPACE						A						BUSSED SPACE	14
15	BUSSED SPACE						B						BUSSED SPACE	16
17	BUSSED SPACE						C						BUSSED SPACE	18
19	WH-CS	1-1/2	1	100	74.9	9.0	A						BUSSED SPACE	20
21					74.9	9.0	B						BUSSED SPACE	22
23					74.9	9.0	C						BUSSED SPACE	24
25	BC-22	3/4	12	20	1.6	0.2	A	0.8	7.3	20	12	3/4	AHU-22-1 THRU 22-3, AHU23-1 THRU 23-4	26
27					1.6	0.2	B	0.8	7.3					28
29	BC-23	3/4	12	20	1.6	0.2	C			25			SPARE	30
31					1.6	0.2	A							32
33	SPARE			25			B			25			SPARE	34
35							C							36
37	HP-22	1	6	50	30.2	3.6	A	3.6	30.2	50	6	1	HP-23	38
39					30.2	3.6	B	3.6	30.2					40
41					30.2	3.6	C	3.6	30.2					42
TOTAL AMPS (CONN. LOAD)				A:	144.7		B:	143.3		C:	136.9			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	144.7		B:	143.3		C:	136.9			

PANELBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.

PANELBOARD NOTES:

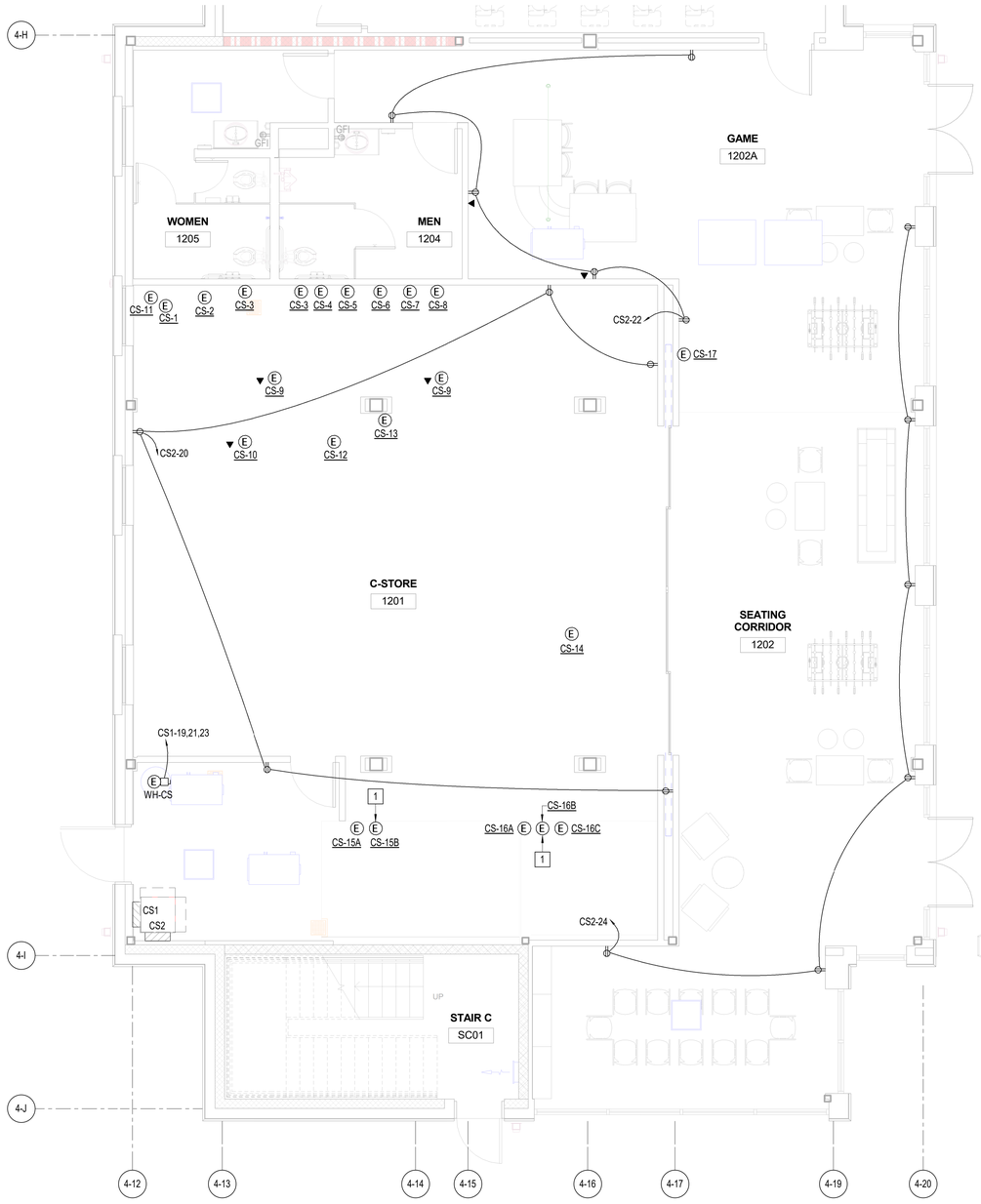
PANEL CS2 (FORMERLY BLDG-4 SP2) SCHEDULE

400 AMP MLO | 208Y/120 VOLTS | 3PH, 4W, SN | SURFACE MOUNTED

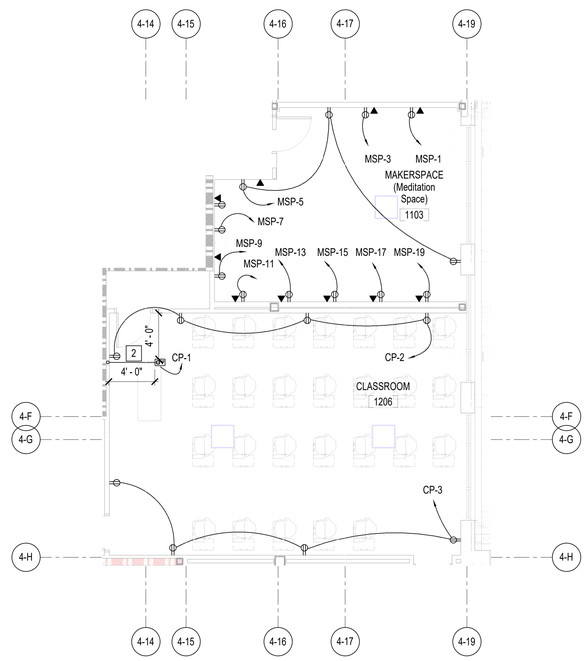
CKT. NO.		COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT. NO.
1	CS-1	3/4	12	20	17.0	1.8	A	0.1	1.2	15	12	3/4	CS-16A	2
3					17.0	1.8	B	0.1	1.2					4
5	CS-2	3/4	12	20	13.0	1.6	C	1.1	11.0	20	12	3/4	CS-16B	6
7	CS-3	3/4	12	20	3.0	0.4	A	1.1	11.0					8
9	CS-4	3/4	12	20	4.9	0.6	B	1.1	10.3	15	12	3/4	CS-16C	10
11	CS-5	3/4	12	20	5.4	0.6	C	1.1	10.3					12
13	CS-6	3/4	10	30	26.0	2.7	A	0.2	2.0	20	12	3/4	CS-17	14
15					26.0	2.7	B	0.6	5.0	20	12	3/4	CS-9	16
17	CS-7	3/4	12	20	2.0	0.2	C	0.4	3.0	20	12	3/4	CS-3	18
19	CS-8	3/4	10	30	28.8	0.1	A	0.9	7.5	20	12	3/4	RECEPTS - C-STORE	20
21					28.8	0.1	B	0.9	7.5	20	12	3/4	RECEPTS - GAMING	22
23	CS-9	3/4	12	20	5.0	0.6	C	1.1	9.0	20			RECEPTS - SEATING CORRIDOR	24
25	CS-10	3/4	12	20	5.0	0.6	A			20			SPARE	26
27	CS-11	3/4	12	20	3.0	0.4	B			20			SPARE	28
29	CS-12	3/4	12	20	8.0	1.0	C			20			SPARE	30
31	CS-13	3/4	12	20	2.0	0.2	A			20			SPARE	32
33	CS-14	3/4	12	20	10.0	1.0	B	1.2	10.0	20	12	3/4	LIGHTING - TRACK	34
35					10.0	1.0	C	1.5	12.5	20	12	3/4	LIGHTING - WALL WASHERS/TRACK	36
37	CS-15A	3/4	12	15	2.0	0.2	A			20	12	3/4	LIGHTING - PENDANTS C-STORE	38
39	CS-15B	3/4	12	20	11.5	1.2	B	0.2	1.7	20	12	3/4	LIGHTING - GENERAL C-STORE	40
41					11.5	1.2	C	1.0	8.3	20	12	3/4	LIGHTING - SEATING 1202/GAMING	42
TOTAL AMPS (CONN. LOAD)				A:	70.3		B:	98.9		C:	103.3			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	70.3		B:	98.9		C:	103.3			

PANELBOARD OPTIONS:
1. PROVIDE WITH DIGITAL MULTIMETER.

PANELBOARD NOTES:



1 BLDG 04 C-STORE POWER
1/4" = 1'-0"



3 BUILDING 4 - ENLARGED MAKER'S SPACE AND CLASSROOM
3/16" = 1'-0"

GENERAL NOTES

1. SEE C-STORE EQUIPMENT SCHEDULE FOR EQUIPMENT DESCRIPTIONS AND RATINGS. SEE ARAMARK, "PROVISIONS ON DEMAND" DRAWINGS FOR EQUIPMENT INFORMATION.
2. SEE PANEL SCHEDULE CS-2 FOR EQUIPMENT BRANCH CIRCUIT NUMBERS. UNLESS OTHERWISE NOTED, PROVIDE DEDICATED BRANCH CIRCUIT FOR C-STORE EQUIPMENT.

KEY NOTES

1. CONDENSING UNIT IS LOCATED ON ROOF. COORDINATE FINAL LOCATION WITH ARAMARK AND/OR MECHANICAL PLANS.
2. RUN (1) 1-1/4" CONDUIT FOR DATA FROM FLOOR BOX TO WALL, STUB OUT TO CABLE TRAY. RUN (1) 3/4" CONDUIT FOR POWER FROM FLOOR BOX TO WALL, CONNECT TO ELECTRICAL JUNCTION BOX ABOVE CEILING. RUN (1) 1-1/4" CONDUIT FOR AV FROM FLOOR BOX TO WALL, STUB OUT ABOVE SUSPENDED CEILING.

GRAPHIC SCALE(S)

3/16" = 1' - 0" 0 5' 10' 20'
1/4" = 1' - 0" 0 1' 5' 10' 15'

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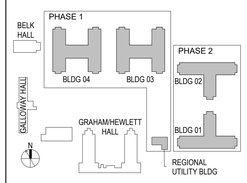
KEY PLAN


SHEET
C-STORE POWER AND TELECOM PLAN

4EP-201

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

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