THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

DISCLAIMER

SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION DEPICTED ON THIS SHEET ARE FOR INFORMATION ONLY AND SHALL NOT CONSTITUTE A CHECKLIST FOR SCOPE INCLUDED IN THIS CONTRACT. ITEMS SHOWN ON THIS SHEET MAY NOT APPEAR AGAIN IN THE ELECTRICAL SERIES.

CIRCUITING

POWER

48" — INDICATES MOUNTING HEIGHT OTHER THAN STANDARD

UP-1A:9 — INDICATES PANEL AND/OR CIRCUIT NUMBER

LIGHTING

a,b — INDICATES SWITCHING

14 — INDICATES CIRCUIT NUMBER

P — INDICATES LUMINAIRE TYPE

(LCP#:R#) — INDICATES RELAY PANEL AND CONTACTOR NUMBER

L1B - 1:2

L1B - 1:2

DENOTES PANELBOARD FROM WHICH ALL CIRCUITS WITHIN DESIGNATED AREA SHALL BE SERVED, OR DENOTES SPECIFIC CIRCUIT FROM WHICH ALL CONNECTIONS SHALL BE MADE, UON. SEE PANELBOARD SCHEDULES FROM CIRCUITING REQUIREMENTS, THE MAXIMUM NUMBER OR BRANCH CIRCUIT PHASE CONDUCTORS INSTALLED IN SINGLE CONDUIT SHALL NOT EXCEED THREE (3), UON.

LUMINARIES

SYMBOL	DESCRIPTION
D D	LINEAR LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
F F	2' X 2' LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
S S	LINEAR WALL-MOUNTED LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
A A	CIRCULAR RECESSED OR SURFACE LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
A A	SQUARE RECESSED OR SURFACE LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
V V	WALL-MOUNTED LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
F F	STRIP LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
X X	EXIT LIGHT, CEILING, PENDANT, OR WALL-MOUNTED. DARKENED SECTIONS INDICATE FACES; ARROWS AS INDICATED. LETTER INDICATES TYPE, SEE SCHEDULE.
C C	2' X 4' LUMINAIRE. SHADED REGION INDICATES PROVISION FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
C	PEDESTRIAN POLE SITE LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
E	EMERGENCY BUG-EYE LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.

SPECIAL OUTLET SCHEDULE

TYPE	DESCRIPTION
A	40A, 208V, 1 PHASE, SPECIAL OUTLET FOR ELECTRIC RANGE. WALL MOUNTED AT 18" AFF UON. COORDINATE NEMA TYPE CONFIGURATION WITH ACTUAL EQUIPMENT EQUIPMENT PROVIDED.
B	30A, 208V, 4-WIRE GROUNDING OUTLET, 1 PHASE, SPECIAL OUTLET FOR STACKED CLOTHES DRYER. COORDINATE NEMA TYPE CONFIGURATION WITH ACTUAL EQUIPMENT PROVIDED.
C	NEMA L6-30R 30A, 208V, 1 PHASE, SPECIAL OUTLET FOR SERVER RACK. WALL MOUNTED AT 18" AFF UON.
D	NEMA L21-20P 20A, 208V, 3 PHASE, SPECIAL OUTLET FOR SERVER RACK. MOUNTED TO OVERHEAD POWER DISTRIBUTION BUSWAY.

ELECTRICAL EQUIPMENT

SYMBOL	DESCRIPTION
	RACEWAY CONCEALED IN FLOOR OR UNDERGROUND.
	RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
	RACEWAY EXPOSED TO VIEW UNLESS OTHERWISE NOTED.
	FLEXIBLE RACEWAY.
	RACEWAY HOMERUN TO PANEL, ONE ARROWHEAD PER CIRCUIT.
	3 WIRES #12 AWG IN CABLE OR CONDUIT, EXCLUDING GROUNDING CONDUCTOR. NOTE: NUMBER OF CROSS HATCHES INDICATES NUMBER OF # 12 AWG CONDUCTORS, LESS GROUNDING CONDUCTOR. SHORT CROSS HATCH = PHASE CONDUCTOR. LONG CROSS HATCH = NEUTRAL. NO CROSS HATCHES INDICATES 2 #12 AWG EXCLUDING GROUNDING CONDUCTOR IN CABLE OR CONDUIT.
	RACEWAY TURNED UP.
	RACEWAY TURNED DOWN.
UP	UNDERGROUND PRIMARY (EXISTING DASHED).
US	UNDERGROUND SECONDARY (EXISTING DASHED).
UE	UNDERGROUND ELECTRICAL FEEDER (EXISTING DASHED).
OR	GROUNDING ELECTRODE.
EP	GROUNDING ELECTRODE BONDED TO EQUIPOTENTIAL PLANE.
	GROUND BUS.
A A	DUCT BANK SECTION.
MH	MANHOLE.
T	DRY-TYPE TRANSFORMER.
TP	TRANSFORMER, PAD-MOUNTED.
	PANELBOARD, FLUSH-MOUNTED.
	PANELBOARD, SURFACE-MOUNTED.
M	ELECTRONIC POWER METER.
2	MOTOR, NUMERAL INDICATES HP. "F" INDICATES FRACTIONAL HORSE POWER.
	MOTOR CONTROLLER. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
	COMBINATION MOTOR CONTROLLER/DISCONNECT. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
30/3/20/3R	DISCONNECT SWITCH, SIZE/POLES/FUSE/ENCLOSURE TYPE IF OTHER THAN NEMA 1. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.
30/3	INDIVIDUAL CIRCUIT BREAKER, TRIP/POLES. MOUNT 48" AFF, UNLESS OTHERWISE NOTED.

LIGHTING CONTROL DEVICES

SYMBOL	DESCRIPTION	MOUNTING HEIGHT AFF, UON
S OS	SWITCH, WALL-MOUNTED, LOWERCASE LETTERING INDICATES CONTROLLED ZONE, TYPE DESIGNATED: BLANK - LOW VOLTAGE ON/OFF SWITCH M - MOTOR RATED TOGGLE SWITCH OS - OCCUPANCY SENSOR TYPE, DUAL TECHNOLOGY VS - VACANCY SENSOR TYPE, DUAL TECHNOLOGY TS - TIMER SWITCH WP - WEATHERPROOF LV - LOW-VOLTAGE OVERRIDE SWITCH PS - LOW-VOLTAGE PARTITION SWITCH	48"
D OS	DIMMER SWITCH, WALL-MOUNTED, LOWERCASE LETTERING INDICATES CONTROLLED ZONE, TYPE DESIGNATED: BLANK - SLIDER TYPE, 0-10V OS - OCCUPANCY SENSOR TYPE, DUAL TECHNOLOGY VS - VACANCY SENSOR TYPE WS - LOW VOLTAGE WALL SWITCH WITH ON/OFF BUTTON ADJACENT LOWER CASE LETTERS INDICATE LIGHTING ZONE CONTROLLED.	48"
TS	TIME SWITCH.	
PC	PHOTOCELL.	
DT PS VS	LIGHTING CONTROL SENSOR DEVICE, DUAL TECHNOLOGY OCCUPANCY SENSOR, PHOTOSENSOR, VACANCY SENSOR. WHERE NO LETTER IS SHOWN, SENSOR(S) SHALL CONTROL ALL LUMINAIRES IN CORRESPONDING ROOM. (D = DAMP RESISTANT, P = PENDANT-MOUNT PER MANUFACTURER'S RECOMMENDATIONS)	
	WALL-MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR. 2000 SQUARE FEET OF COVERAGE AND 180 DEGREE OF SENSING. AIM AS REQUIRED PER INDIVIDUAL ROOM REQUIREMENTS. MULTIPLE SENSORS IN A SINGLE SPACE SHALL PROVIDE PARALLEL CONTROL. LOWERCASE LETTERING INDICATES CONTROLLED ZONE.	9'-6"
A	CONTROL STATION	48"

ELECTRICAL DEVICES

SYMBOL	DESCRIPTION	MOUNTING HEIGHT AFF, UON
	DUPLEX RECEPTACLE. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER. TYPE DESIGNATED: BLANK - DUPLEX RECEPTACLE. USB - USB DUPLEX RECEPTACLE WITH TWO USB PORTS. TV - RECEPTACLE FOR TV MONITOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL AND AV DRAWINGS. MW - RECEPTACLE FOR MICROWAVE. DS - RECEPTACLE FOR DIGITAL SIGNAGE DISPLAY. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL AND AV DRAWINGS.	18"
	DOUBLE DUPLEX RECEPTACLE OUTLET. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	18"
	DUPLEX RECEPTACLE, ABOVE COUNTER. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
	GFCI DUPLEX RECEPTACLE. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER. 'WP' - WEATHER PROOF GFCI RECEPTACLE WITH COVERPLATE	18"
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	18"
	GFCI DUPLEX RECEPTACLE, ABOVE COUNTER. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
	SPECIAL CONNECTION OUTLET, TYPE AS NOTED. REFER TO SPECIAL CONNECTION SCHEDULE, THIS SHEET. SHADED REGION INDICATES PROVISION FOR EMERGENCY POWER.	
J	JUNCTION BOX, WALL-MOUNTED. TYPE DESIGNATED: F - JUNCTION BOX FOR POWER CONNECTION TO PRE-WIRED FURNITURE SYSTEM. COORDINATE EXACT REQUIREMENTS WITH THE PARTICULAR SUPPLIER, AND MAKE THE FINAL CONNECTIONS.	
J	JUNCTION BOX, FLOOR.	
J	JUNCTION BOX, ABOVE CEILING. TYPE DESIGNATED: PS - JUNCTION BOX FOR CONNECTION TO PROJECTION SCREEN. COORDINATE CONNECTION REQUIREMENTS WITH SELECTED EQUIPMENT. ADO - AUTOMATIC DOOR OPERATOR. COORDINATE EXACT REQUIREMENTS WITH THE PARTICULAR SUPPLIER, AND MAKE THE FINAL CONNECTIONS.	
	DUPLEX RECEPTACLE, CEILING-MOUNTED. TYPE DESIGNATED: PJ - OUTLET FOR CONNECTION TO PROJECTOR. COORDINATE EXACT LOCATION WITH ARCHITECTURAL AND AV DRAWINGS.	
A FB	FLOOR BOX. TYPE DESIGNATED: A - POWER ONLY FLOOR BOX WITH (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD RFB2S-FC OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. B - POWER/TELECOM FLOOR BOX WITH FLEXIBLE CONDUIT CONNECTION TO FURNITURE SYSTEM. WIREMOLD EVOLUTION WITH FURNITURE FEED OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. C - A/V FLOOR BOX. FSR500 OR EQUIVALENT. PROVIDE (2) 20A DUPLEX OUTLETS WITHIN THE BOX. REFER TO ELECTRONIC SYSTEM DRAWINGS FOR TYPE AND QUANTITIES OF DATA AND A/V DEVICES WITHIN THE BOX. COORDINATE COVER WITH ARCHITECT.	
A PT	POKE-TROUGH. TYPE DESIGNATED: A - POWER/TELECOM POKE THROUGH WITH FLEXIBLE CONDUIT CONNECTION TO FURNITURE SYSTEM. WIREMOLD EVOLUTION WITH FURNITURE FEED OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. B - A/V POKE THROUGH. PROVIDE (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD EVOLUTION 8AT OR APPROVED EQUAL. REFER TO ELECTRONIC SYSTEM DRAWINGS FOR TYPE AND QUANTITIES OF DATA AND A/V DEVICES WITHIN THE BOX. C - POWER ONLY POKE THROUGH WITH (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD EVOLUTION 4AT POKE THROUGH OR APPROVED EQUAL. COORDINATE COVER WITH ARCHITECT. D - POWER/TELECOM POKE THROUGH. PROVIDE (2) 20A DUPLEX OUTLETS WITHIN THE BOX. WIREMOLD EVOLUTION 6AT OR APPROVED EQUAL. REFER TO ELECTRONIC SYSTEM DRAWINGS FOR TYPE AND QUANTITIES OF DATA AND A/V DEVICES WITHIN THE BOX.	
EPO	EMERGENCY POWER OFF SWITCH WITH CLEAR PLASTIC COVER. MOUNT AT 66" UON.	

ABBREVIATIONS

AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR
ABV	ABOVE
AC	ALTERNATING CURRENT
ARCH	ARCHITECT/ARCHITECTURAL
A/V	AUDIO/VISUAL
AVC	AUDIO/VISUAL CREDENZA
BEL	BELOW
BF	BELOW FLOOR
BFC	BELOW FINISHED CEILING
BM	BEAM
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
COL	COLUMN
CONN	CONNECT/CONNECTION
CONT	CONTINUATION/CONTINUOUS
CTE	CONNECT TO EXISTING
DC	DIRECT CURRENT
DN	DOWN
EC	EMPTY CONDUIT
EO	ELECTRICALLY OPERATED
EI	ELECTRICALLY INTERLOCKED
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EX	EXISTING
ETR	EXISTING TO REMAIN
EXP	EXPOSED
GRC	RIGID METAL CONDUIT
F	FUSED
FA	FIRE ALARM
LCM	LIGHTING CONTROL MODULE
LMNR	LUMINAIRE
FL	FLOOR
G	GROUND
GFP	GROUND FAULT PROTECTION
GR	GRADE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INV	INVERTER
JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILLS
MC	METAL-CLAD CABLE
MCC	MOTOR CONTROL CENTER
NC	NORMALLY CLOSED
NL	NIGHT LIGHT
NF	NONFUSIBLE
NO	NORMALLY OPEN
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
PC	PHOTOCELL
PH OR Ø	PHASE
PL	PILOT LIGHT
PNL	PANEL
PV	PHOTO-VOLTAIC
RC	REMOTE CONTROL
REC	RECEPTACLE
REL	RELOCATE
REM	REMOVE
RS	RAPID START
SC	SPLIT CIRCUIT
SPEC	SPECIFICATION
SPDT	SINGLE-POLE DOUBLE-THROW
ST	SHUNT STRIP
SW	SWITCH
TELE	TELEPHONE
TS	TIGHT TO STRUCTURE
UG	UNDERGROUND
WP	WEATHER PROOF
XFMR	TRANSFORMER
UON	UNLESS OTHERWISE NOTED

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL LEGEND

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-001

TI GMP SET

11/19/2020 4:12:27 PM

4
E-001
E - LEGEND

1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL	SOURCE INFORMATION			ELECTRICAL INFORMATION		MOUNTING	DESCRIPTION
			MIN CRI	LUMEN OUTPUT	COLOR TEMP (K)	VOLTAGE	LOAD (W)		
A1	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	5000 LM	3500K	UNV	47W	RECESSED	2' X 4' RECESSED LED FIXTURE, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%.
A1E	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	5000 LM	3500K	UNV	47W	RECESSED	SAME AS TYPE A1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
A2	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	4400 LM	3500K	UNV	38W	RECESSED	SAME AS TYPE A1, EXCEPT WITH LOWER LUMEN OUTPUT AND WATTAGE
A2E	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 24	80	4400 LM	3500K	UNV	38W	RECESSED	SAME AS TYPE A2, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
B1	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 22	80	4000LM	3500K	UNV	38W	RECESSED	2' X 2' RECESSED LED FIXTURE, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%.
B1E	FLUXWERX (OR APPROVED EQUAL)	TRANSOM 22	80	4000LM	3500K	UNV	38W	RECESSED	SAME AS TYPE B1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
C1	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	1000LM/FT	3500K	UNV	10W/FT	RECESSED	4" WIDE RECESSED CONTINUOUS LED SLOT, FLUSH SHIELDING, WHITE FINISH, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
C1E	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	1000LM/FT	3500K	UNV	10W/FT	RECESSED	SAME AS TYPE C1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
C2	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	750LM/FT	3500K	UNV	7W/FT	RECESSED	SAME AS TYPE C1, EXCEPT WITH LOWER LUMEN OUTPUT AND WATTAGE
C2E	AXIS LIGHTING (OR APPROVED EQUAL)	BEAM4	80	750LM/FT	3500K	UNV	7W/FT	RECESSED	SAME AS TYPE C2, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
EM1	LITHONIA (OR APPROVED EQUAL)	ELM4L	N/A	640LM	5000K	UNV	3W	UNIVERSAL MOUNTED	UNIVERSAL MOUNTED EMERGENCY FIXTURE WITH INTEGRAL 90 MINUTE BATTERY BACK UP, WITH TWO LED LAMP HEADS, AND SELF TESTING.
EM2	EVENLITE (OR APPROVED EQUAL)	APERION LED	N/A	550LM	6500K	UNV	3W	RECESSED	4" SQUARE RECESSED CONCEALED LED EMERGENCY FIXTURE, AUTOMATIC RETRACTABILITY, SELF DIAGNOSTICS, WITH 90 MINUTES INTEGRAL BATTERY BACK UP.
F1	FINELITE (OR APPROVED EQUAL)	HP-6	80	1560LM/FT	3500K	UNV	14W/FT	RECESSED	6 1/2" WIDE RECESSED CONTINUOUS LED SLOT, FLUSH SHIELDING, WHITE FINISH, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS. FINISH BY ARCHITECT.
G1	ALW (OR APPROVED EQUAL)	RLP2C	80	750LM	3500K	UNV	9.7W	WALL MOUNTED	WALL MOUNTED LED VANITY FIXTURE, INTEGRAL DRIVER.
H1	LITHONIA (OR APPROVED EQUAL)	WL4	80	4000LM	3500K	UNV	40W	WALL MOUNTED	4' LONG WALL MOUNTED LED FIXTURE, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%, INTEGRAL BATTERY PACK.
J1	TBD	TBD	80	TBD	2700K	UNV	TBD	SUSPENDED	12" ROUND SUSPENDED DECORATIVE LED FIXTURE WITH DIRECT/INDIRECT DISTRIBUTION COORDINATE FIXTURE SUSPENSION HEIGHT WITH ARCH.
J2	TBD	TBD	80	TBD	2700K	UNV	TBD	SUSPENDED	SAME AS TYPE J1, EXCEPT 18" ROUND FIXTURE WITH HIGHER LUMEN OUTPUT AND WATTAGE
K1	PRUDENTIAL (OR APPROVED EQUAL)	BIO-PSTD	80	575LM/FT	3500K	UNV	7W/FT	RECESSED	4" WIDE RECESSED CONTINUOUS LED PERIMETER COVE FIXTURE, 3" REGRESS LENS, SATIN ACRYLIC LENS, DIRECT DISTRIBUTION, WALL-TO-WALL MOUNTING, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 1%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
L1	CALILIGHTING (OR APPROVED EQUAL)	ALS210T	80	285LM/FT	3500K	UNV	3W/FT	SURFACE	2" WIDE SURFACE MOUNTED CONTINUOUS LED COVE FIXTURE, CURVED SHIELDING, FROSTED LENS, WHITE FINISH, ADJUSTABLE MOUNTING CLIP, INTEGRAL 0-10V DIMMING DRIVERS, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
M1	GOTHAM (OR APPROVED EQUAL)	EVO4SQ	80	1500LM	3500K	UNV	14W	RECESSED	4" SQUARE RECEESED LED DOWNLIGHT, MEDIUM WIDE DISTRIBUTION, CLEAR REFLECTOR, SEMI-SPECULAR FINISH, INTEGRAL 0-10V DIMMING DRIVER, DIMMING TO 10%.
M1E	GOTHAM (OR APPROVED EQUAL)	EVO4SQ	80	1500LM	3500K	UNV	14W	RECESSED	SAME AS TYPE M1, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
M3	GOTHAM (OR APPROVED EQUAL)	EVO4SQSH	80	750LM	3500K	UNV	8W	RECESSED	4" SQUARE RECESSED LED SHOWER DOWNLIGHT, MEDIUM WIDE DISTRIBUTION, FLUSH LENSED TRIM WITH WHITE FLANGE, SMOOTH CLEAR LENS, INTEGRAL 0-10V DIMMING DRIVER.
N1	GOTHAM (OR APPROVED EQUAL)	EVO4	80	2000LM	4000K	UNV	19W	RECESSED	4" ROUND RECESSED LED CANOPY DOWNLIGHT, CLEAR SHOWER LENS, INTEGRAL 0-10V DIMMING DRIVER. FINISH BY ARCHITECT.
P1	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	9200LM	3500K	UNV	78W	SUSPENDED 18" BELOW THE CEILING	8' L X 10" W SUSPENDED INDIRECT/DIRECT LED FIXTURE, 20/80 UP/DOWN DISTRIBUTION, INTEGRAL 0-10V DIMMING DRIVER. DIMMING TO 10%. FINISH BY ARCHITECT.
P2	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	6800LM	3500K	UNV	57W	SUSPENDED 18" BELOW THE CEILING	SAME AS TYPE P1, EXCEPT WITH LOWER LUMEN OUTPUT AND WATTAGE.
P2E	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	6800LM	3500K	UNV	57W	SUSPENDED 18" BELOW THE CEILING	SAME AS TYPE P2, EXCEPT WITH INTEGRAL 90 MINUTE BATTERY PACK.
P3	LEDALITE (OR APPROVED EQUAL)	BOLDPLAY	80	4600LM	3500K	UNV	39W	SUSPENDED 18" BELOW THE CEILING	SAME AS TYPE P1, EXCEPT 4' LONG AND LOWER LUMEN OUTPUT AND WATTAGE.
S1	LITHONIA (OR APPROVED EQUAL)	ZL1D	80	5000LM	3500K	UNV	41W	SUSPENDED	4' LONG SUSPENDED LED STRIP LIGHT FIXTURE, DROP LENS, HANGER CHAIN ACCESSORY.
S2	LITHONIA (OR APPROVED EQUAL)	ZL1D	80	6000LM	3500K	UNV	60W	SUSPENDED	SAME AS TYPE S1, EXCEPT 8' LONG AND HIGHER LUMEN OUTPUT AND WATTAGE.
T1	ILIGHT TECHNOLOGIES (OR APPROVED EQUAL)	PLEXINEON COLOR SERIES	N/A	N/A	N/A	24V/277V	1.97W/FT	RECESSED IN COVE	0.5" W X 1.5" H RECESSED LED FLEXIBLE ROPE LIGHT, BLUE COLOR, SILVER HOUSING, REMOTE ELECTRONIC POWER SUPPLY. PROVIDE CUSTOM FIXTURE LENGTH PER LIGHTING PLANS. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE FIXTURE INSTALLATION.
U1	VODE (OR APPROVED EQUAL)	ZIPONE 707	80	400LM/FT	3500K	UNV	4.1W/FT	SURFACE	1.5" W X 0.5" D SURFACE MOUNTED LED UNDERCABINET FIXTURE, ASYMMETRIC OPTICS, REMOTE ELECTRONIC POWER SUPPLY AND 0-10V DIMMING DRIVER, DIMMING TO 10%. PROVIDE CONTINUOUS FIXTURE LENGTH PER LIGHTING PLANS.
V1	LITHONIA (OR APPROVED EQUAL)	FEM LED	80	4000LM	3500K	UNV	24W	WALL MOUNTED	4' LONG WALL MOUNTED VAPOR-TIGHT LED FIXTURE, POLYCARBONATE LOW PROFILE FROSTED LENS, MEDIUM DISTRIBUTION, INTEGRAL 0-10V DRIVER.
W1	BEGA (OR APPROVED EQUAL)	24371	80	806LM	4000K	UNV	15W	WALL MOUNTED	4.7" W X 5.1" W X 5.5" H SQUARE WALL MOUNTED EXTERIOR LED WALL FIXTURE, WITH DIRECT/INDIRECT DISTRIBUTION, INTEGRAL 0-10V DIMMING DRIVER AND DIE-CAST ALUMINUM HOUSING. FINISH BY ARCHITECT.
W2	LITHONIA (OR APPROVED EQUAL)	WST LED	70	3000LM	4000K	UNV	25W	WALL MOUNTED	17" W X 11" D X 9" H SURFACE MOUNTED EXTERIOR WALL SCONCE, VISUAL COMFORT FORWARD THROW OPTICS, INTEGRAL 0-10V DIMMING DRIVER AND DIE-CAST ALUMINUM HOUSING. FINISH BY ARCHITECT.
X1	LITHONIA (OR APPROVED EQUAL)	EDG	N/A	N/A	N/A	UNV	3W	UNIVERSAL MOUNTED	EDGE LIT LED EXIT SIGN, GREEN LETTERS, SELF DIAGNOSTICS WITH INTEGRAL BATTERY PACK. NUMBER OF FACES, TYPE OF MOUNTING AND DIRECTIONAL ARROWS INDICATED ON LIGHTING PLANS.
X2	LITHONIA (OR APPROVED EQUAL)	WLTE	N/A	N/A	N/A	UNV	3W	UNIVERSAL MOUNTED	WET LOCATION LED EXIT SIGN, GREEN LETTERS, SELF DIAGNOSTICS WITH INTEGRAL BATTERY PACK. NUMBER OF FACES, TYPE OF MOUNTING AND DIRECTIONAL ARROWS INDICATED ON LIGHTING PLANS.

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
LUMINAIRE SCHEDULE

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-002

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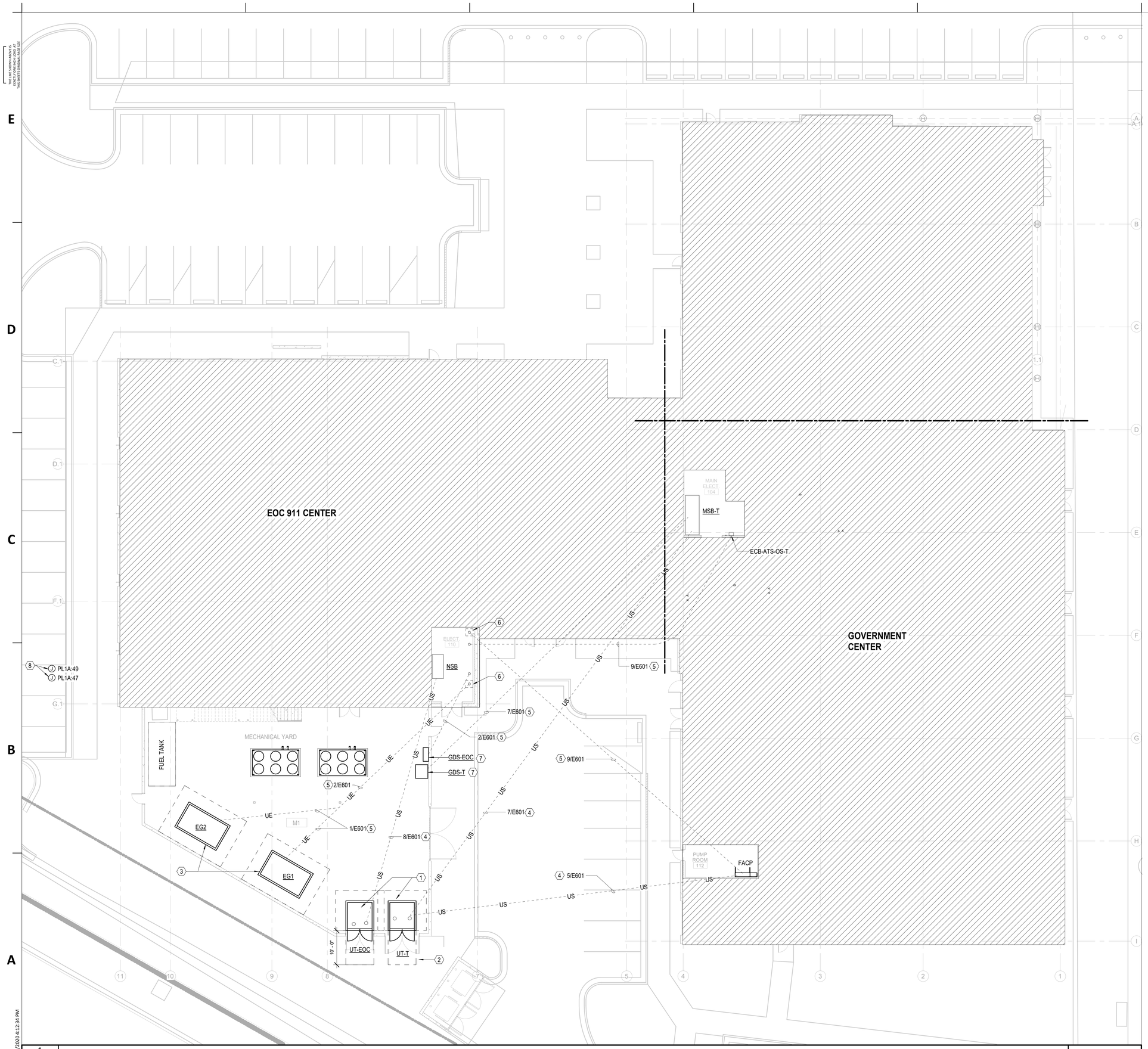

1 E-100 **ELECTRICAL POWER SITE PLAN** 3/32" = 1'-0"

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GENERAL NOTES:

1. REFER TO CIVIL PLANS FOR LOCATIONS OF OTHER UTILITIES. FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW DUCTS. OFFSET DUCTS TO AVOID CONFLICTS WITH EXISTING UNDERGROUND OBSTRUCTIONS. DUCTS SHALL CLEAR STEAM LINES AND COMMUNICATION LINES 4' 00" WHERE PARALLEL AND 18" WHERE CROSSING PERPENDICULAR. CLEAR ALL OTHER UTILITIES BY 1' 00".
2. ALL UNDERGROUND DUCTS SHALL BE CONCRETE ENCASED, UNLESS OTHERWISE NOTED.

KEY NOTES:

1. PAD MOUNTED UTILITY TRANSFORMER PROVIDED BY UTILITY COMPANY.
2. UTILITY TRANSFORMER WORKING CLEARANCE OUTLINE. PROVIDE MIN OF 10 FT CLEAR IN FRONT OF TRANSFORMER AND 3 FT MINIMUM ON ALL SIDES PER UTILITY REQUIREMENTS.
3. NEW DIESEL GENERATOR SET IN WEATHERPROOF ENCLOSURE. PROVIDE CONCRETE PAD FOR GENERATOR INSTALLATION AND A MINIMUM OF 4FT WORKING CLEARANCE AROUND GENERATOR.
4. NORMAL POWER SECONDARY CONCRETE ENCASED DUCTBANK. REFER TO SITE DETAILS SHEET FOR DUCTBANK DETAIL.
5. EMERGENCY POWER CONCRETE ENCASED DUCTBANK. REFER TO SITE DETAILS SHEET FOR DUCTBANK DETAIL.
6. STUB UP UNDERGROUND FEEDERS AND ROUTE VERTICALLY IN A CONCRETE ENCASED CHASE TO THE SECOND FLOOR EMERGENCY ELECTRICAL ROOM.
7. TEMPORARY GENERATOR CONNECTION BOXES, SEE RISER DIAGRAM FOR DETAILS.
8. FOR CONNECTION TO BACK FLOW PREVENTER HOT BOX LOCATED 90 FT AWAY FROM EOC BUILDING. SEE CIVIL PLANS FOR EXACT LOCATION.

PRICING NOTES:

PROVIDE BUDGET ALLOWANCE FOR LABOR AND MATERIALS FOR INSTALLATION OF THE FOLLOWING SITE LIGHTING FIXTURES:

1. LIGHTED BOLLARDS ALONG THE WEST SIDE OF THE PARK (EAST SIDE OF THE BUILDING). ASSUME 15' OC SPACING.
2. LIGHTED BOLLARDS FROM PARKING LOT TO EMPLOYEE ENTRANCE (NORTH VESTIBULE AT HUB). ASSUME 15' OC SPACING.
3. LIGHTED BOLLARDS AT REAR/SERVICE SIDE OF BUILDING (SOUTH SIDE OF HUB). ASSUME 12' OC SPACING.
4. LANDSCAPE LIGHTING IN PLANTER AREAS AROUND THE BUILDING.

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N&B PROJECT: 19N342
Firm License No. F-0312

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SHEET NAME:
ELECTRICAL POWER SITE PLAN

DATE:
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SHEET:
E-100

TI GMP SET

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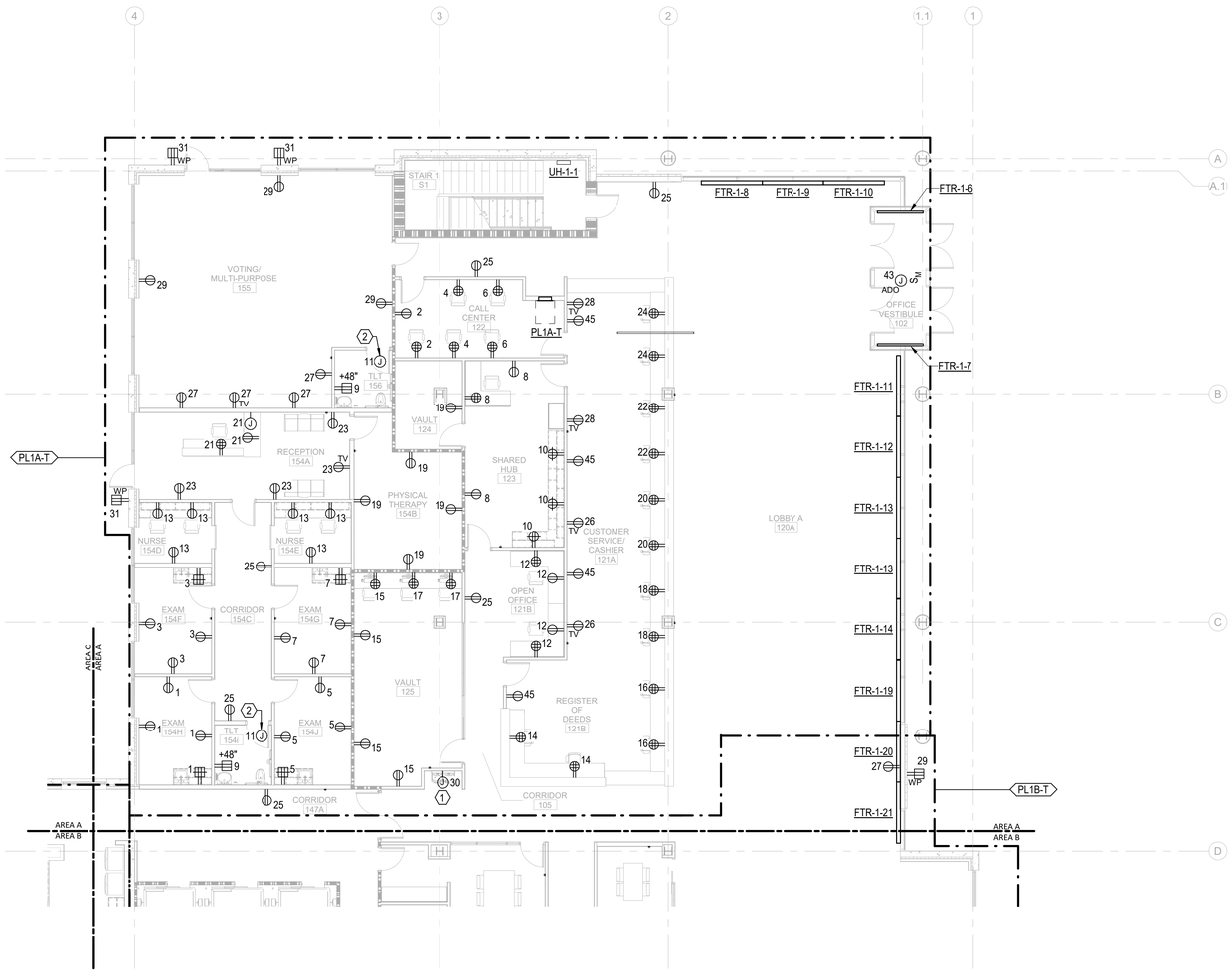

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.
5. PROVIDE TAMPER-RESISTANT OUTLET TYPES IN BUSINESS OFFICES, CORRIDORS, WAITING ROOMS AND SIMILAR TYPE AREAS WITHIN MEDICAL OFFICE AREAS OF THE BUILDING PER NEC 406.12.

KEY NOTES:

1. JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.
2. JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWER DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / E-101A	ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

11/19/2020 4:12:39 PM

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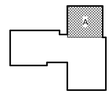
KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
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SHEET:
E-101A

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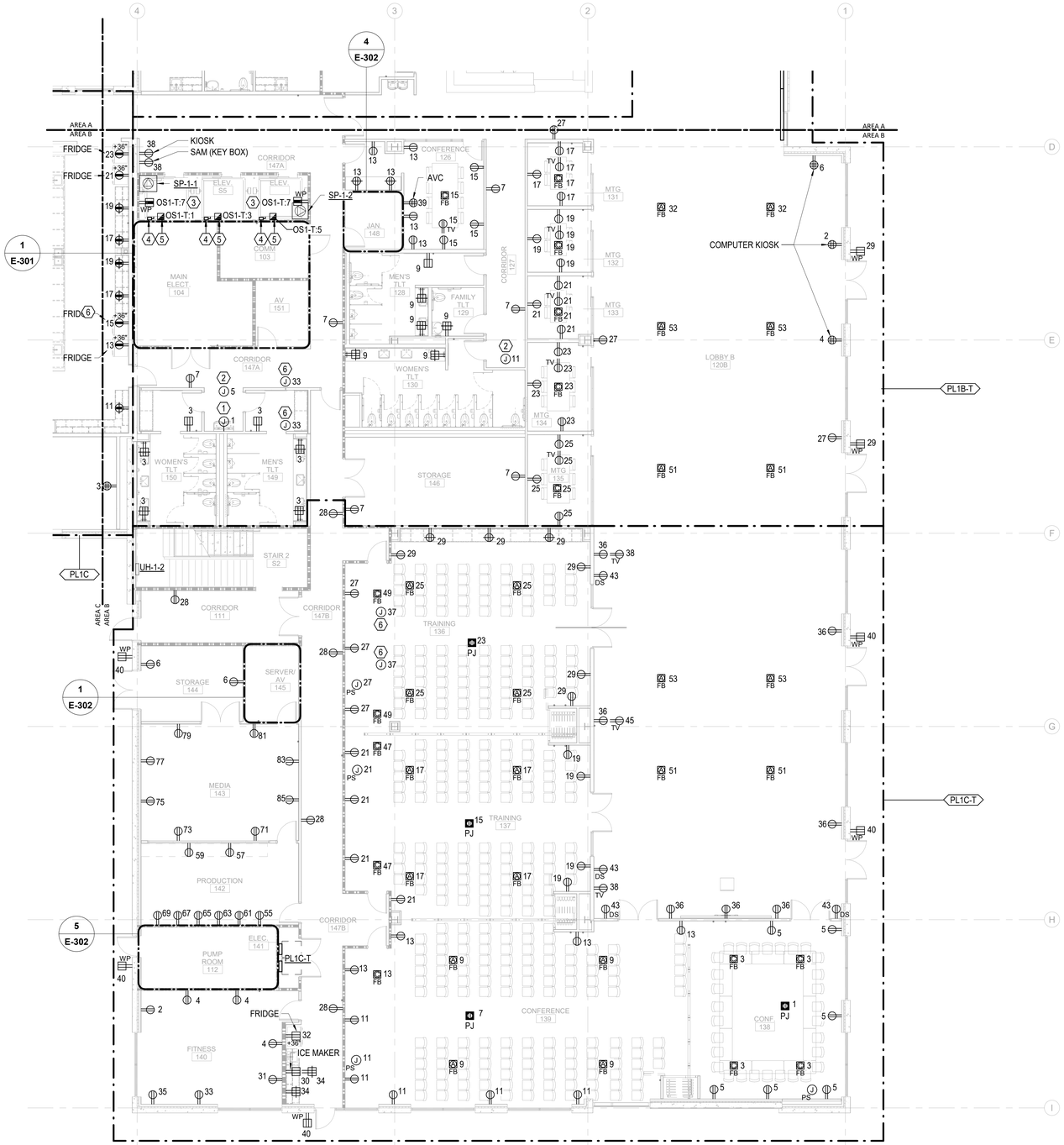

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2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.
2. JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. RECEPTACLE IN ELEVATOR PIT. INSTALL 24" AFG.
4. PROVIDE 480V. 30A FUSED DISCONNECT (25A FUSES) FOR ELEVATOR CONTROLLER. FINAL CONNECTIONS ARE BY ELEVATOR INSTALLER.
5. PROVIDE 20A/1PH ENCLOSED CKT FOR ELEVATOR CAB LIGHTING AND POWER. FINAL CONNECTIONS ARE BY ELEVATOR INSTALLER.
6. JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-101B **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B**

1/8" = 1'-0"

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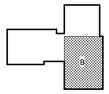
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: **2020.11.20**
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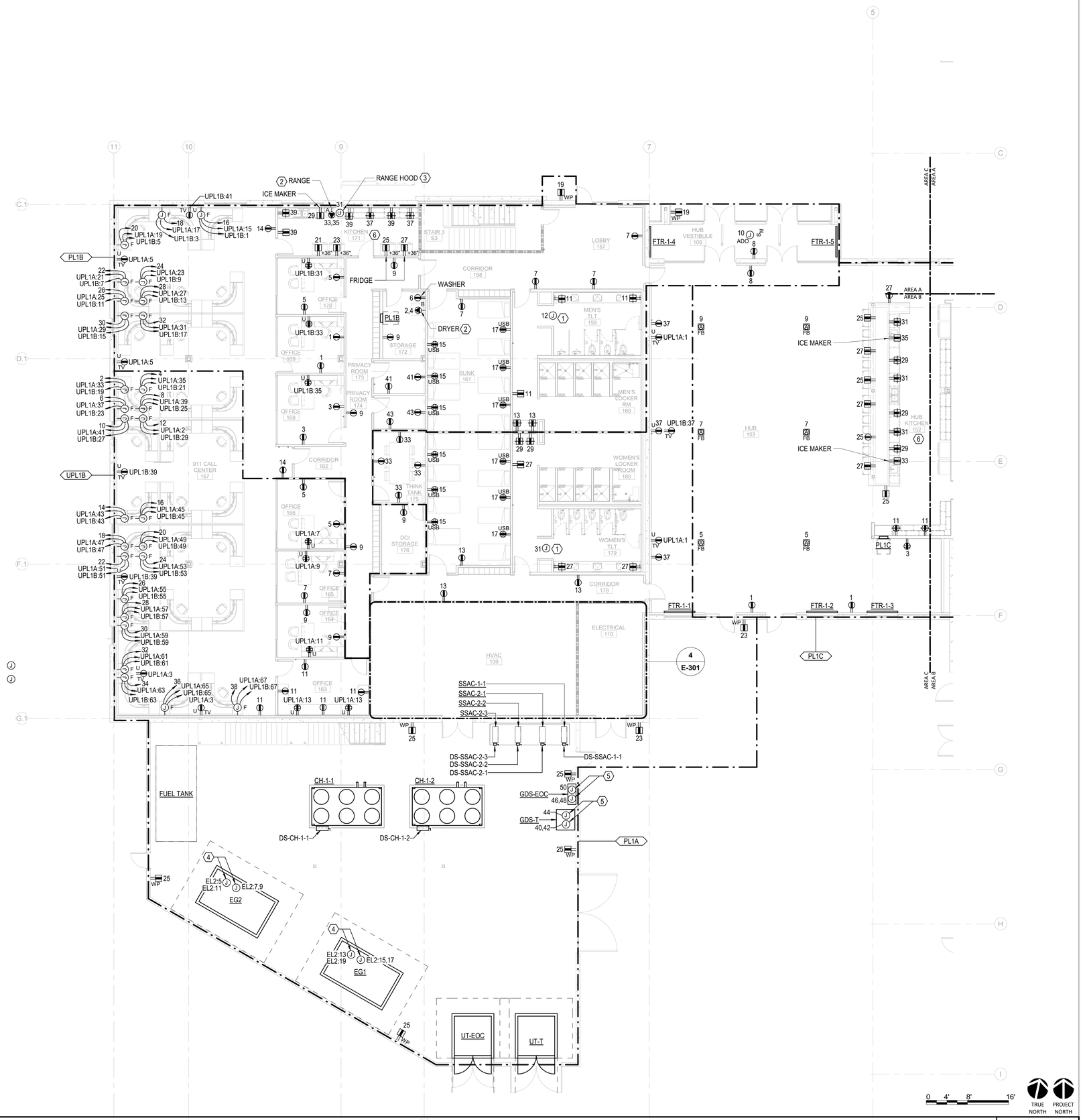

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4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

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2. CONFIRM NEMA RECEPTACLE TYPE CONFIGURATION WITH ACTUAL EQUIPMENT PROVIDED.
3. COORDINATE CONNECTION REQUIREMENTS WITH ACTUAL EQUIPMENT INSTALLED.
4. FOR CONNECTION TO GENERATOR BATTERY CHARGER, JACKET WATER HEATER, LTG AND RECEPTACLE LOADS.
5. FOR CONNECTION TO GENERATOR DOCKING STATION BATTERY CHARGER RECEPTACLE AND CONNECTION TO DOCKING STATION 50A TWIST-LOCK RECEPTACLE.
6. WHERE GFCI OUTLET LOCATIONS ARE NOT ACCESSIBLE, PROVIDE BLANK FACE SELF-TEST GFCI OUTLET IN ACCESSIBLE LOCATION, EQUIVALENT TO LEVITON GFRBF SERIES.

1 E-101C **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

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Δ	DATE	DESCRIPTION

KEY PLAN:

SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 1 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-101C

TI GMP SET

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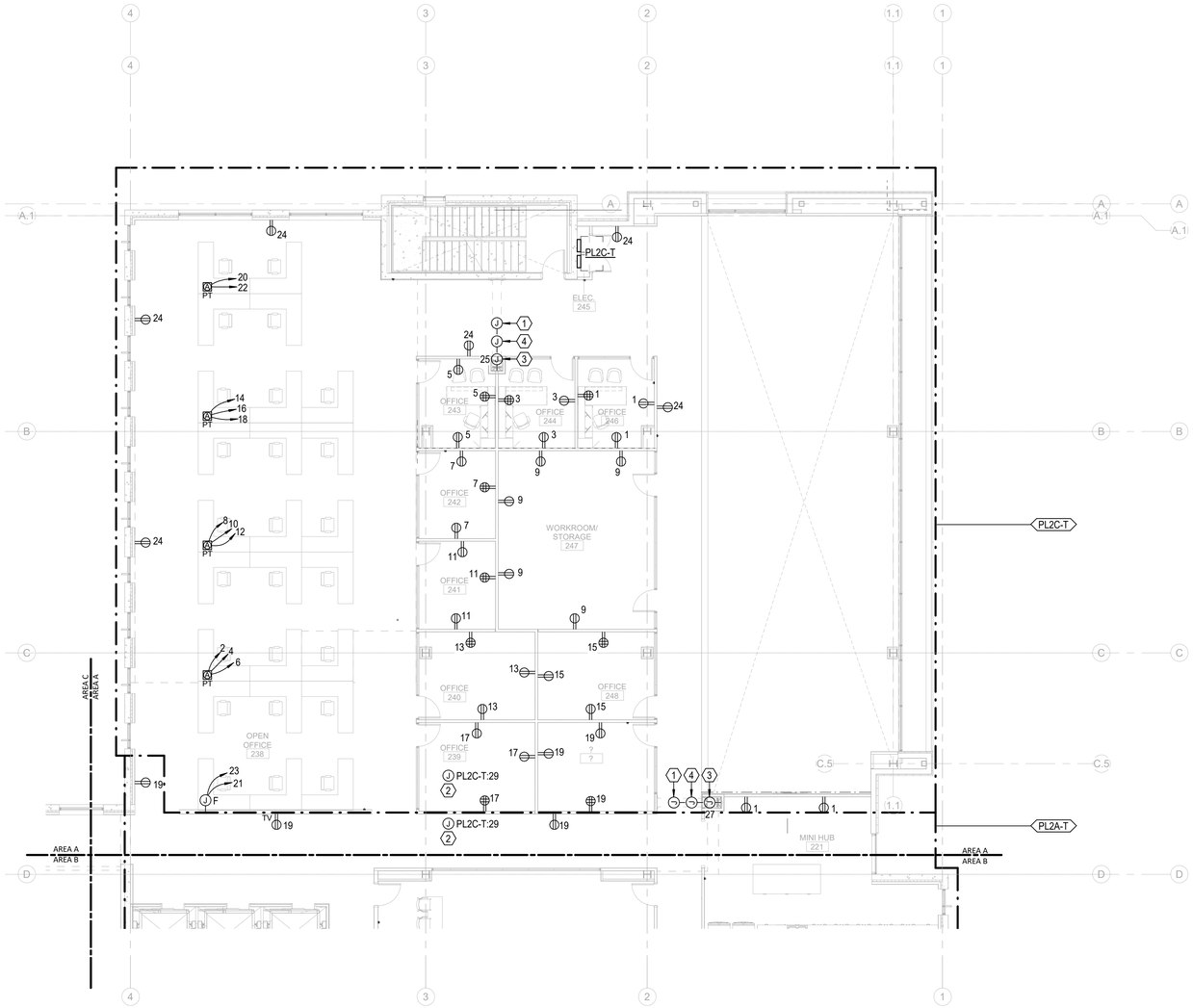

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3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. PROVIDE RECESS MOUNTED JUNCTION BOX FOR FIRE PARTITION KEY SWTICH AND OPTICAL OBSTRUCTION SENSOR (PROVIDED BY OTHERS). INSTALL KEY SWITCH JUNCTION BOX AT A MAXIMUM OF 5'-6" AFF, AND WITHIN LINE-OF-SIGHT OF PARTITION. PROVIDE AND INSTALL 3/4" CONDUIT AND WIRING PER THE MANUFACTURER'S REQUIREMENTS.
2. JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.
3. FOR CONNECTION TO SLIDING FIRE PARTITION. INSTALL JUNCTION BOX AT 4'-6" AFF.
4. PROVIDE RECESS MOUNTED JUNCTION BOX FOR FIRE PARTITION RELAY/ALARM MODULE. INSTALL JUNCTION BOX AT 5'-0" AFF. PROVIDE AND INSTALL 3/4" CONDUIT AND WIRING PER THE MANUFACTURER'S REQUIREMENTS. COORDINATE WITH FIRE ALARM DRAWINGS.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / E-102A	ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A	1/8" = 1'-0"

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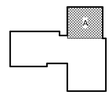
KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-102A

TI GMP SET

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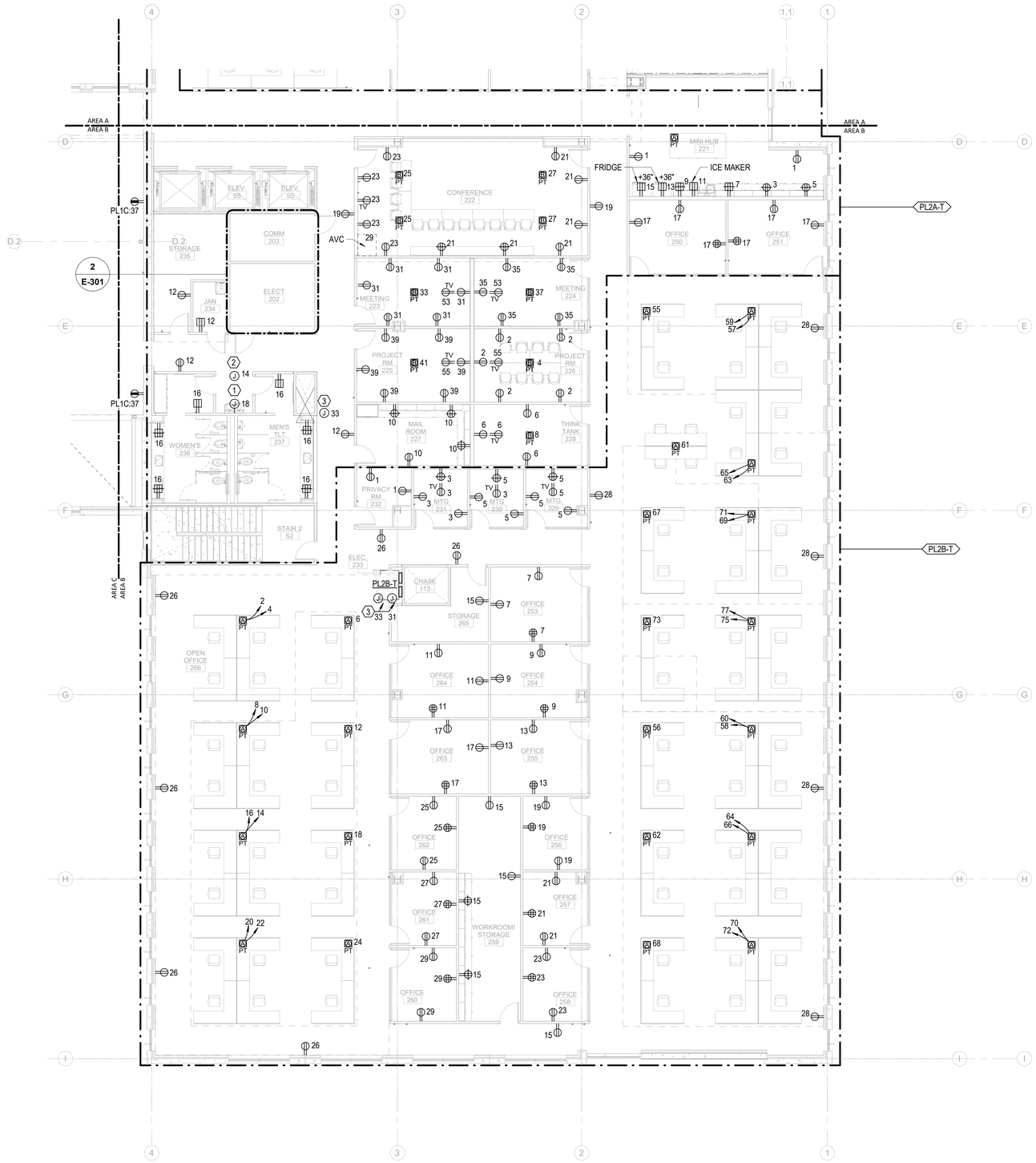

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-102B	ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B	1/8" = 1'-0"

11/19/2020 4:13:03 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GENERAL NOTES:

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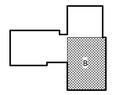
KEY PLAN:



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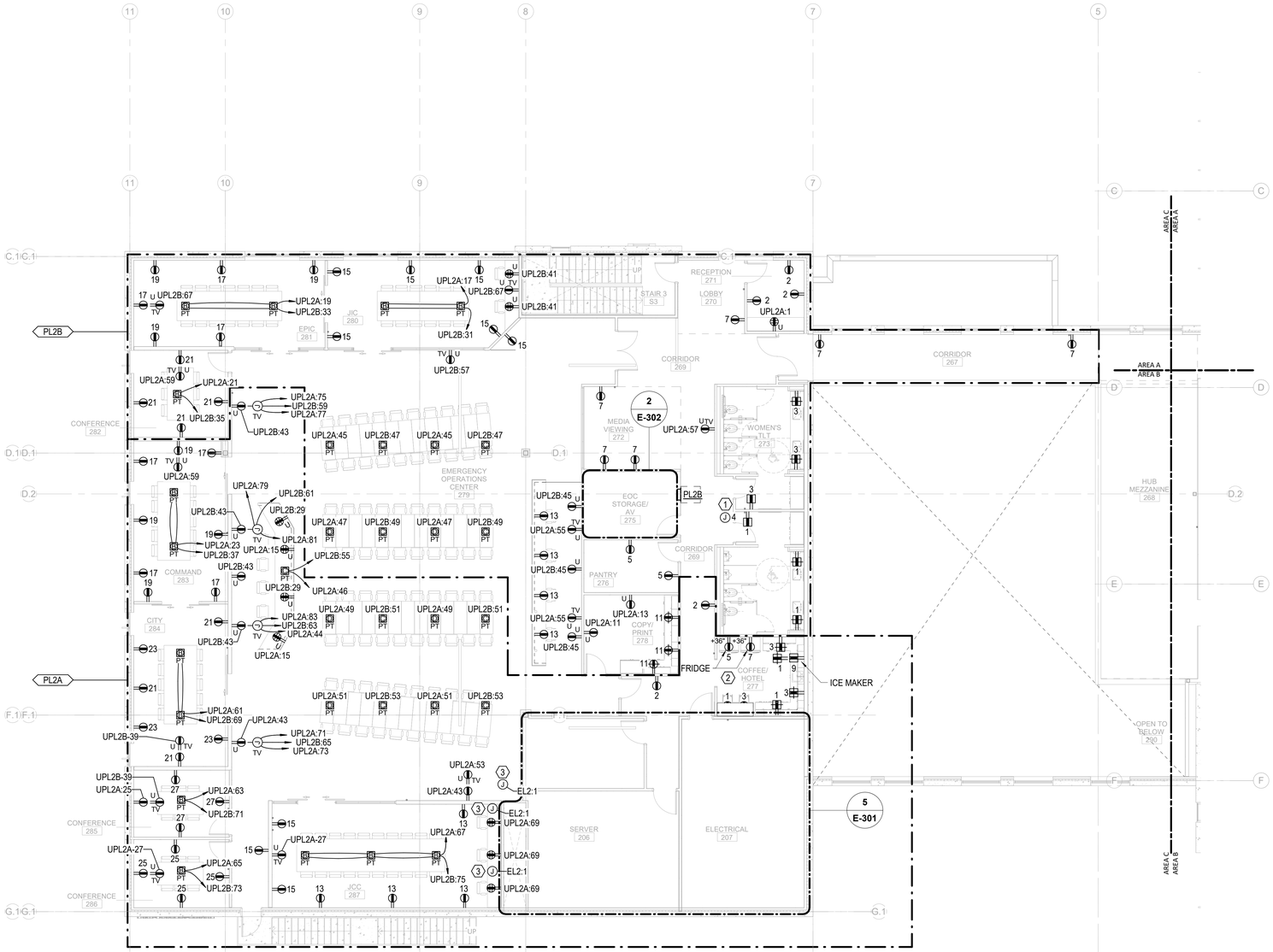
SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-102B

TI GMP SET



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0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-102C **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

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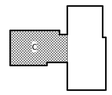

SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-102C

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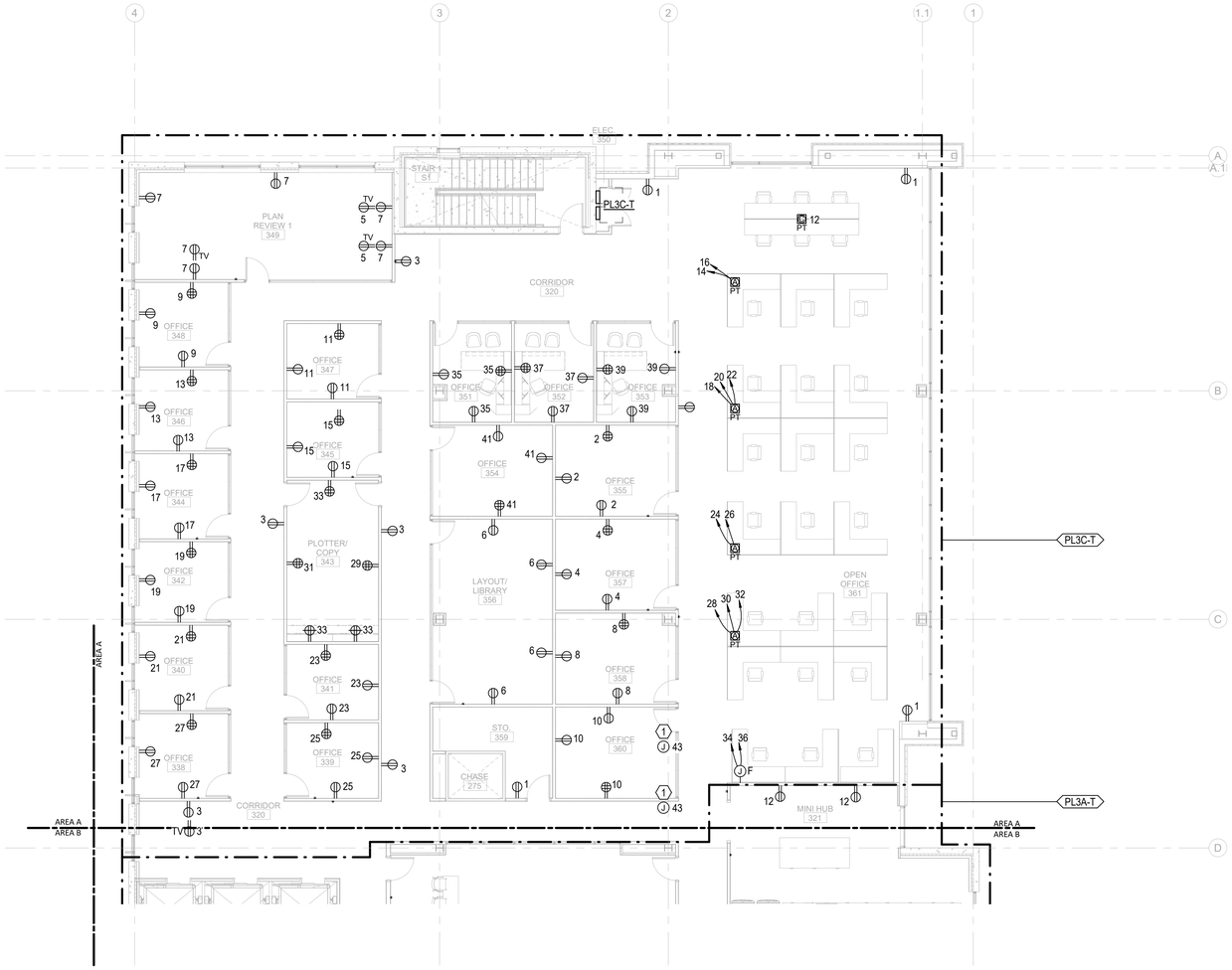
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



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KEY NOTES:

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0 4' 8' 16'

TRUE NORTH PROJECT NORTH

11/19/2020 4:13:13 PM

1 / E-103A	ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A	1/8" = 1'-0"

CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
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NHC Goverment Center 7702-190810

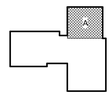
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

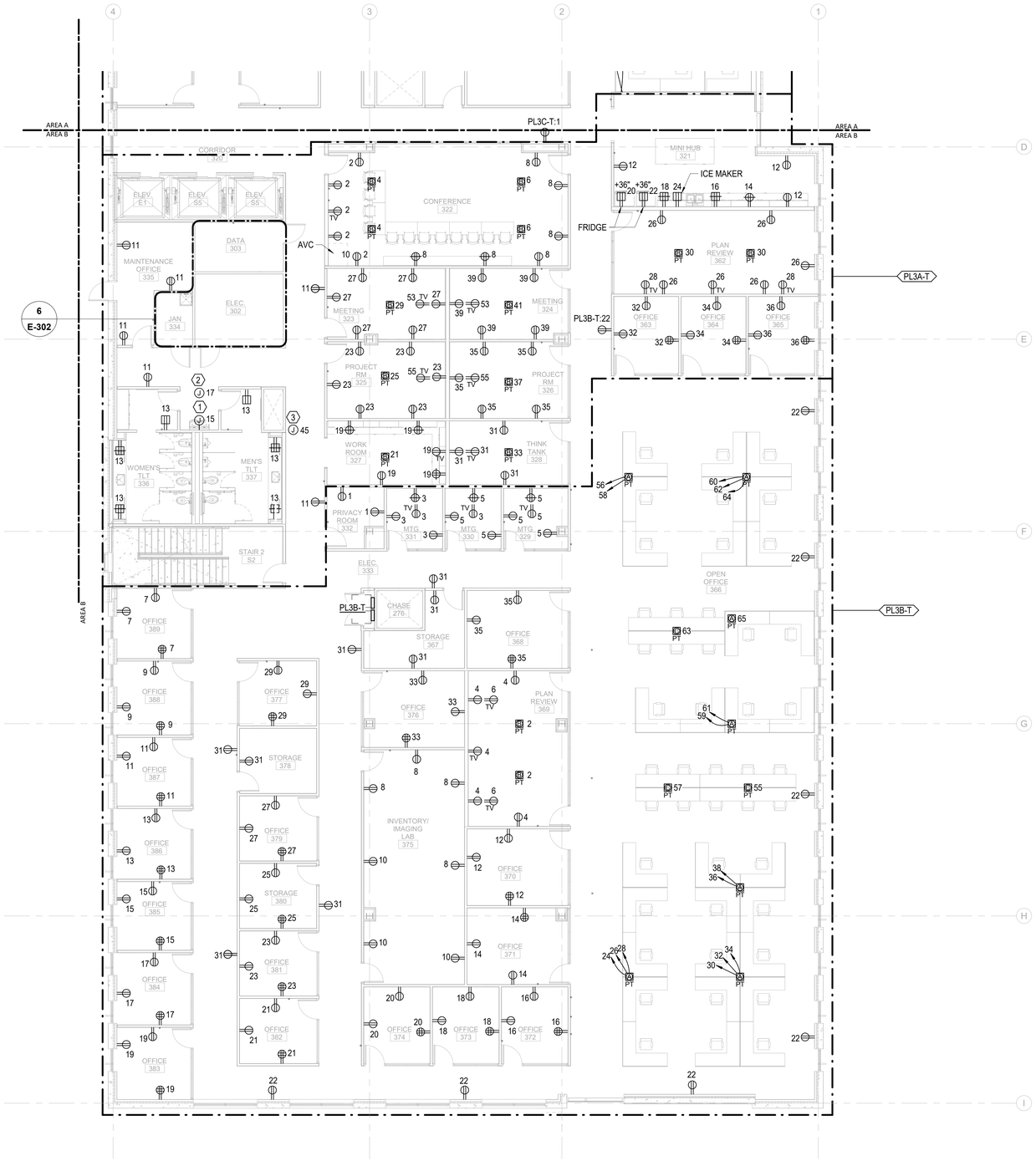


SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-103A

TI GMP SET



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.
2. JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-103B **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

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5425 Page Rd
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N&B PROJECT: 19N342
Firm License No. F-0312

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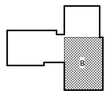
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

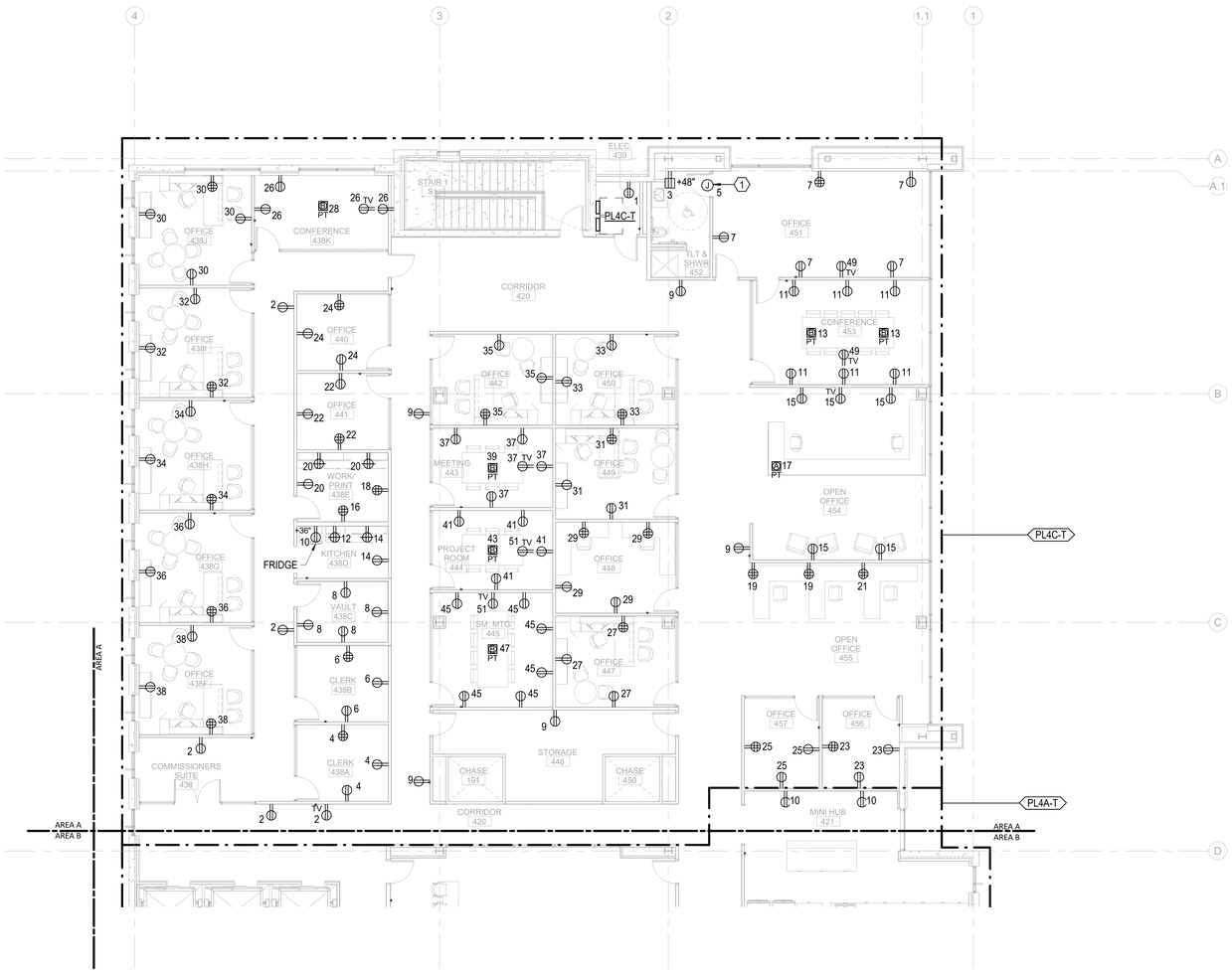
SHEET:
E-103B

TI GMP SET

11/19/2020 4:13:19 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

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N&B PROJECT: 19N342
Firm License No. F-0312

1 / E-104A	ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A	1/8" = 1'-0"

11/19/2020 4:13:24 PM

CAPE FEAR FD STONEWATER

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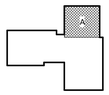
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

KEY PLAN:

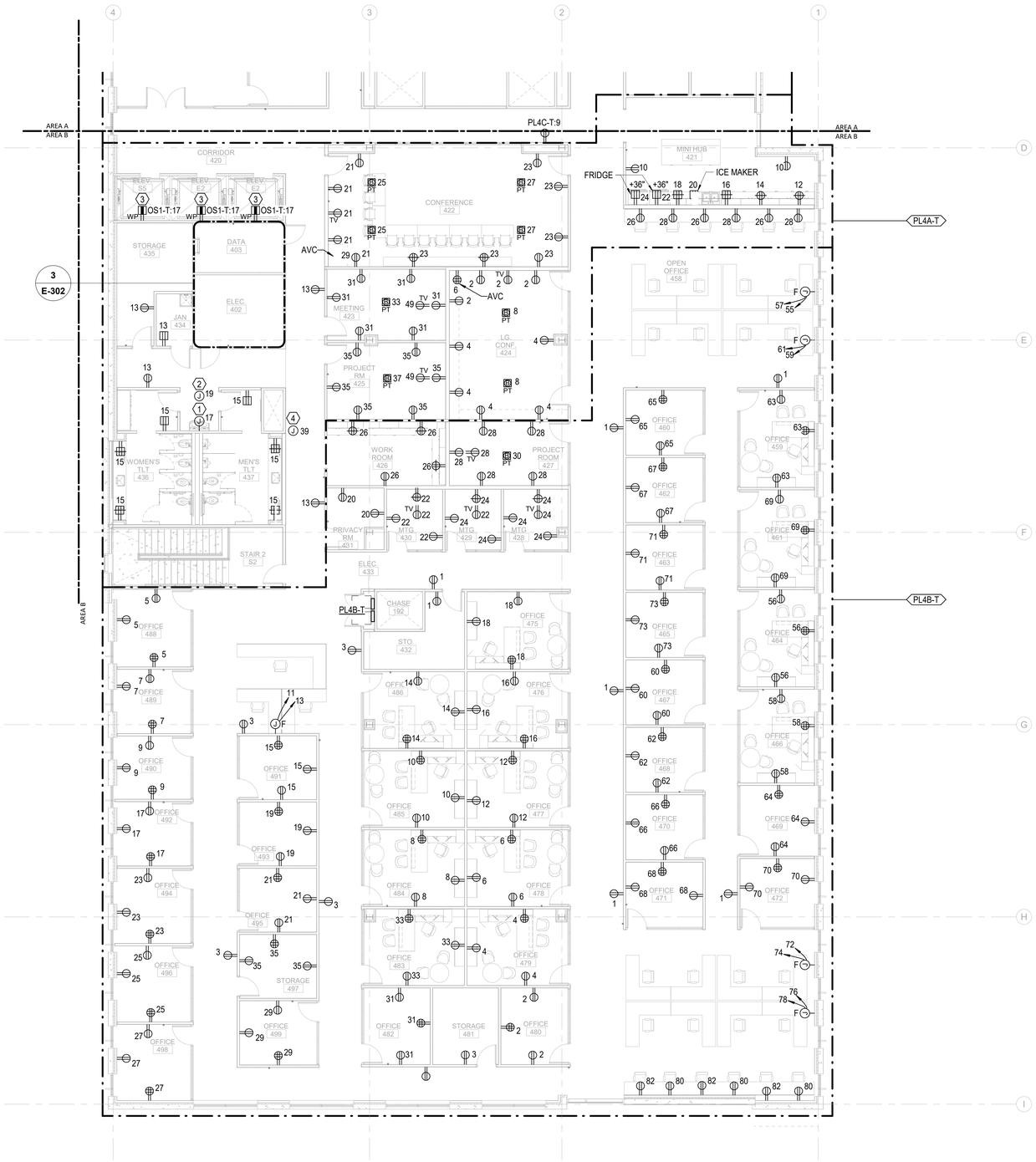


SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-104A

TI GMP SET



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.
4. COORDINATE FLOOR BOX LOCATIONS FOR PRE-WIRED FURNITURE SYSTEMS WITH FURNITURE VENDOR AND ARCHITECT.

KEY NOTES:

1. JUNCTION BOX FOR CONNECTION TO WATER COOLER/FOUNTAINS, PROVIDE DEDICATED GFCI 20A, 120V CIRCUIT.
2. JUNCTION BOX FOR AUTOMATIC FLUSH TOILETS, FAUCETS, SOAP AND PAPER TOWEL DISPENSERS TRANSFORMER POWER. COORDINATE LOCATION, CONNECTION REQUIREMENTS, AND QUANTITY WITH EQUIPMENT. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
3. INSTALL AT TOP OF ELEVATOR SHAFT
4. JUNCTION BOX FOR CONNECTION TO FIRE SMOKE DAMPERS SERVING THE AREA. REFER TO DIV 23 DRAWINGS AND SPECIFICATIONS FOR EXACT LOCATIONS AND CONNECTION REQUIREMENTS.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

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NHC Goverment Center 7702-190810

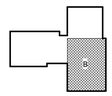
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL POWER FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

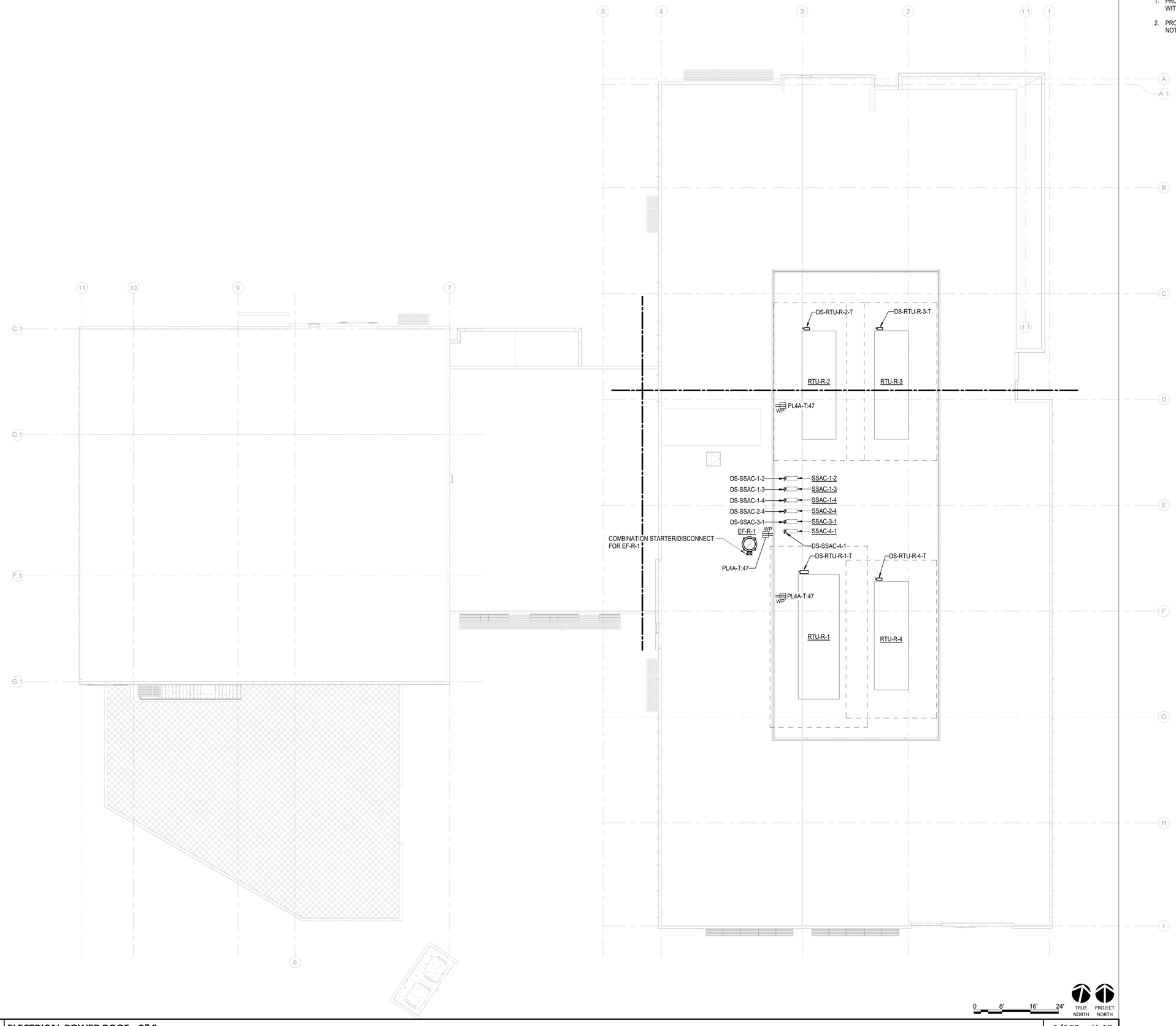
SHEET:
E-104B

TI GMP SET

1 / E-104B **ELECTRICAL POWER TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B** 1/8" = 1'-0"

11/19/2020 4:13:31 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT ORIGINAL PRINTED PLOT SIZE



GENERAL NOTES:

1. PROVIDE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH SECTION 264510, LIGHTNING PROTECTION SYSTEM.
2. PROVIDE UNISTRUT RACK FOR ALL ROOF RECEPTACLES NOT ABLE TO BE MOUNTED ON SCREEN WALL.

0 8' 16' 24'

TRUE NORTH PROJECT NORTH

11/19/2020 4:13:38 PM

1 E-105 **ELECTRICAL POWER ROOF - C&S**

3/32" = 1'-0"

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N&B PROJECT: 19N342
Firm License No. F-0312

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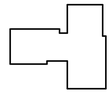
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

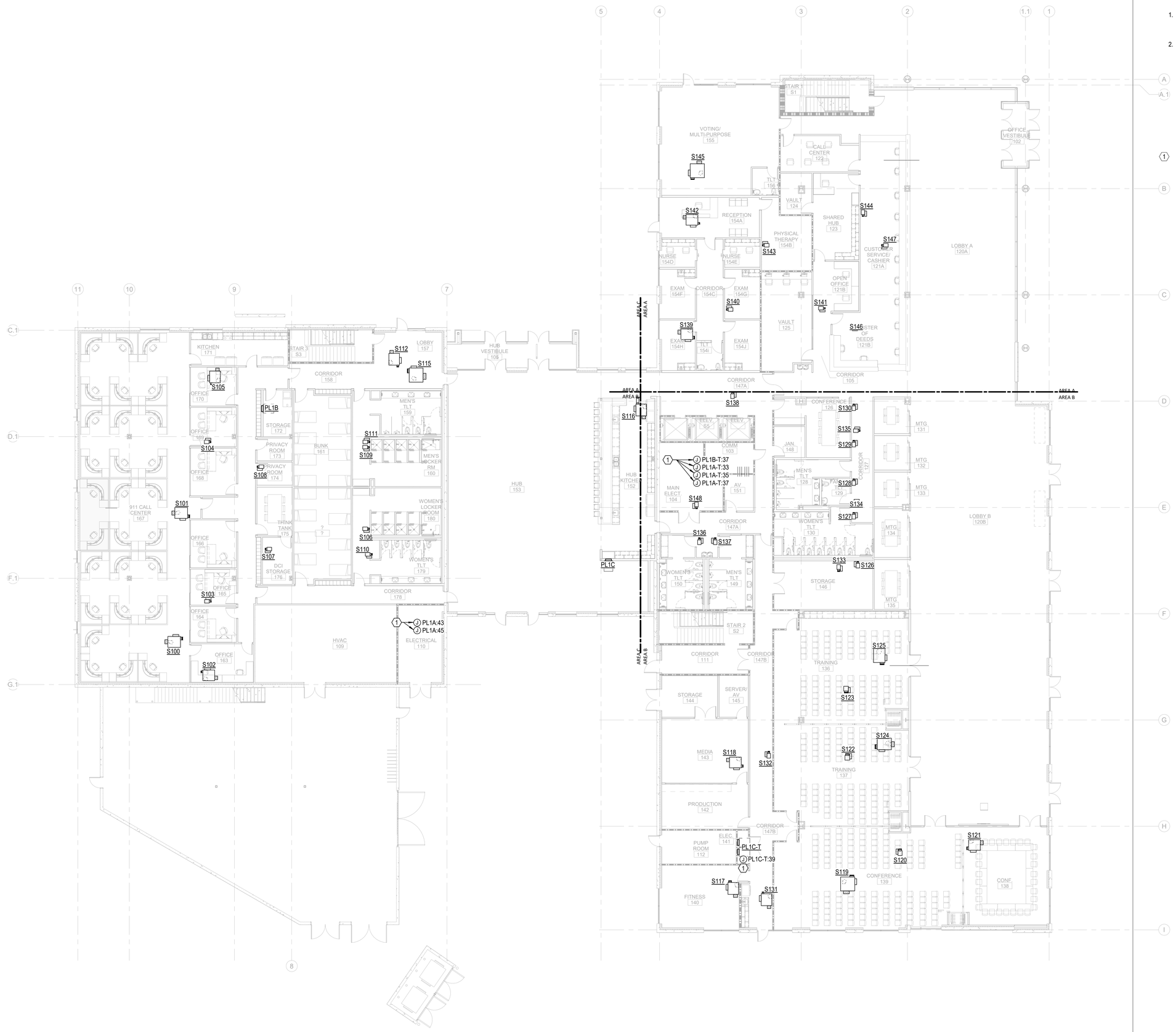


SHEET NAME:
ELECTRICAL POWER ROOF PLAN - OVERALL

DATE:
CURRENT: **2020.11.20**
TI GMP SET

SHEET:
E-105

TI GMP SET



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.

KEY NOTES:

1. JUNCTION BOX FOR 120V HVAC TERMINAL UNITS CONTROL/DAMPER POWER. SEE TERMINAL UNIT CONNECTION SCHEDULES FOR DETAILS. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

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WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 1

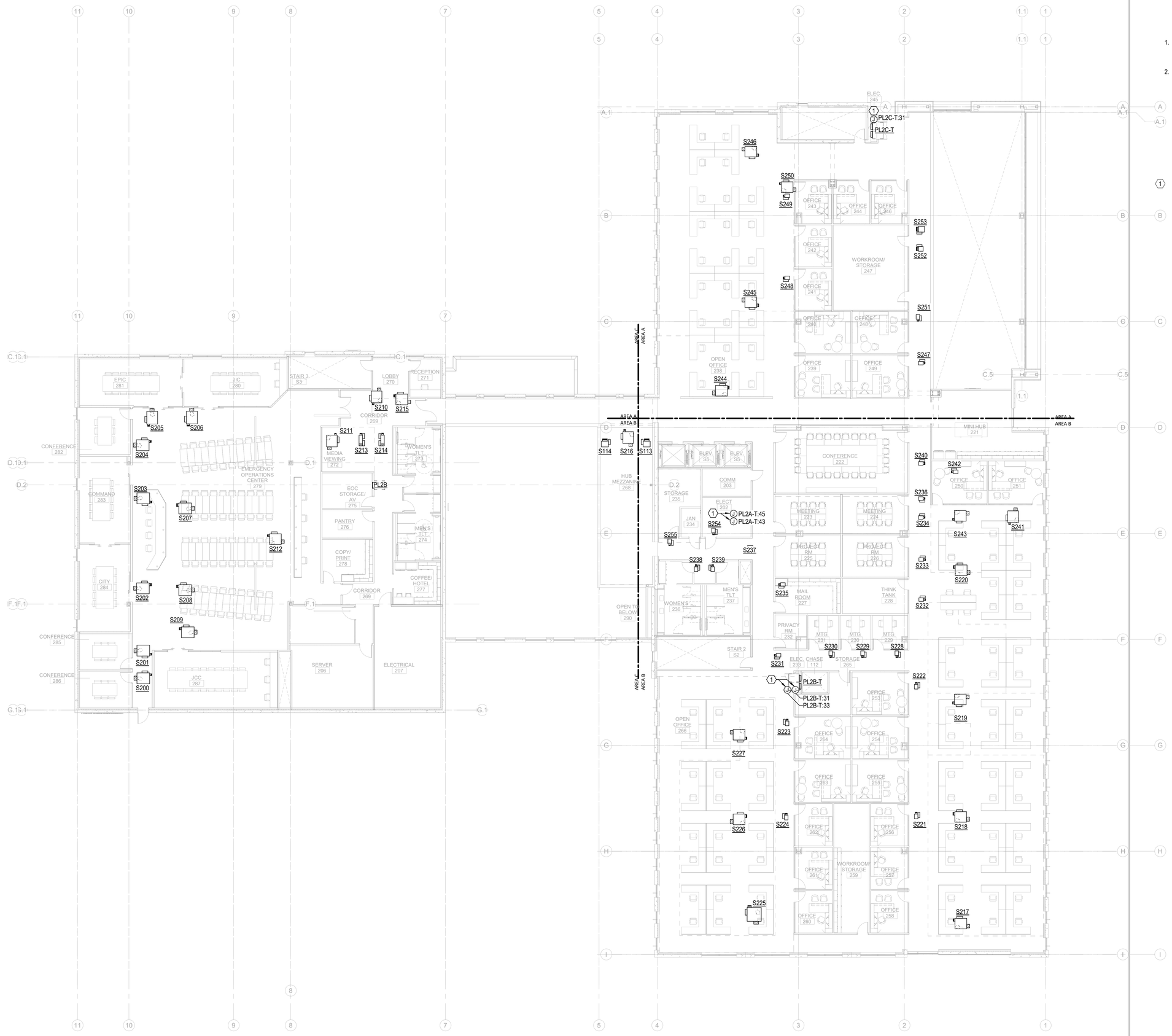
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-111

TI GMP SET

1 / E-111 **ELECTRICAL POWER EQUIPMENT LEVEL 1 - TI** 3/32" = 1'-0"

11/19/2020 4:13:50 PM



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.

KEY NOTES:

1. JUNCTION BOX FOR 120V HVAC TERMINAL UNITS CONTROL/DAMPER POWER. SEE TERMINAL UNIT CONNECTION SCHEDULES FOR DETAILS. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

1 E-112 **ELECTRICAL POWER EQUIPMENT LEVEL 2 - TI** 3/32" = 1'-0"

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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 2

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-112

TI GMP SET

11/19/2020 4:13:55 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.

KEY NOTES:

1. JUNCTION BOX FOR 120V HVAC TERMINAL UNITS CONTROL/DAMPER POWER. SEE TERMINAL UNIT CONNECTION SCHEDULES FOR DETAILS. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

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WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

Newcomb & Boyd
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Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 3

DATE:
CURRENT: 2020.11.20
TI GMP SET

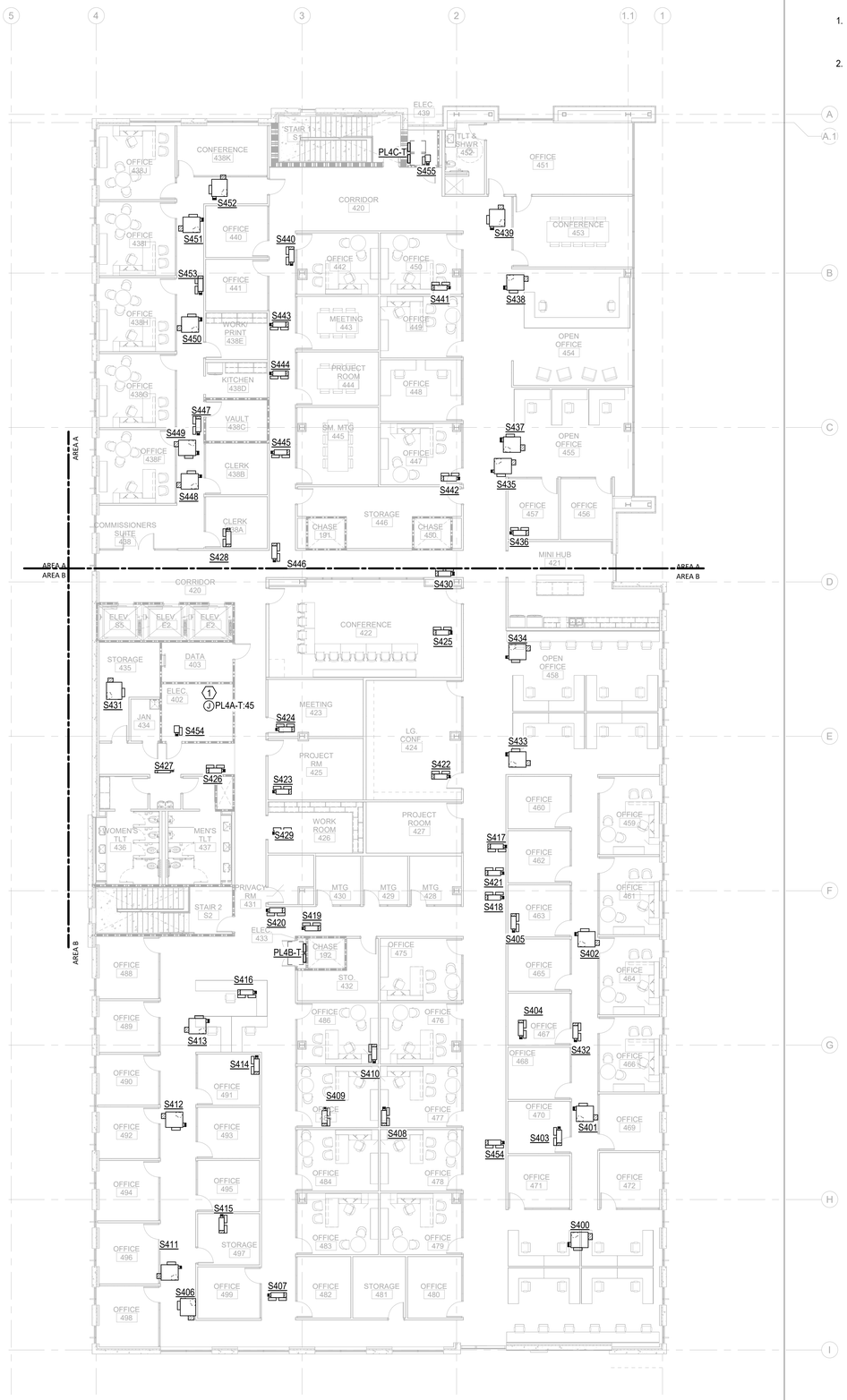
SHEET:
E-113

TI GMP SET

11/19/2020 4:14:03 PM

1 / E-113 **ELECTRICAL POWER EQUIPMENT LEVEL 3 - TI** 3/32" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. REFER TO ELECTRICAL SCHEDULES SHEETS FOR MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULES.
2. REFER TO MECHANICAL, PLUMBING, AND FIRE ALARM DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIRING POWER NOT SHOWN ON FLOOR PLANS.

1	ELECTRICAL POWER EQUIPMENT LEVEL 4 - TI	3/32" = 1'-0"
E-114		

Newcomb & Boyd
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Consulting Engineering Group
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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL POWER TERMINAL UNIT FLOOR PLAN - LEVEL 4

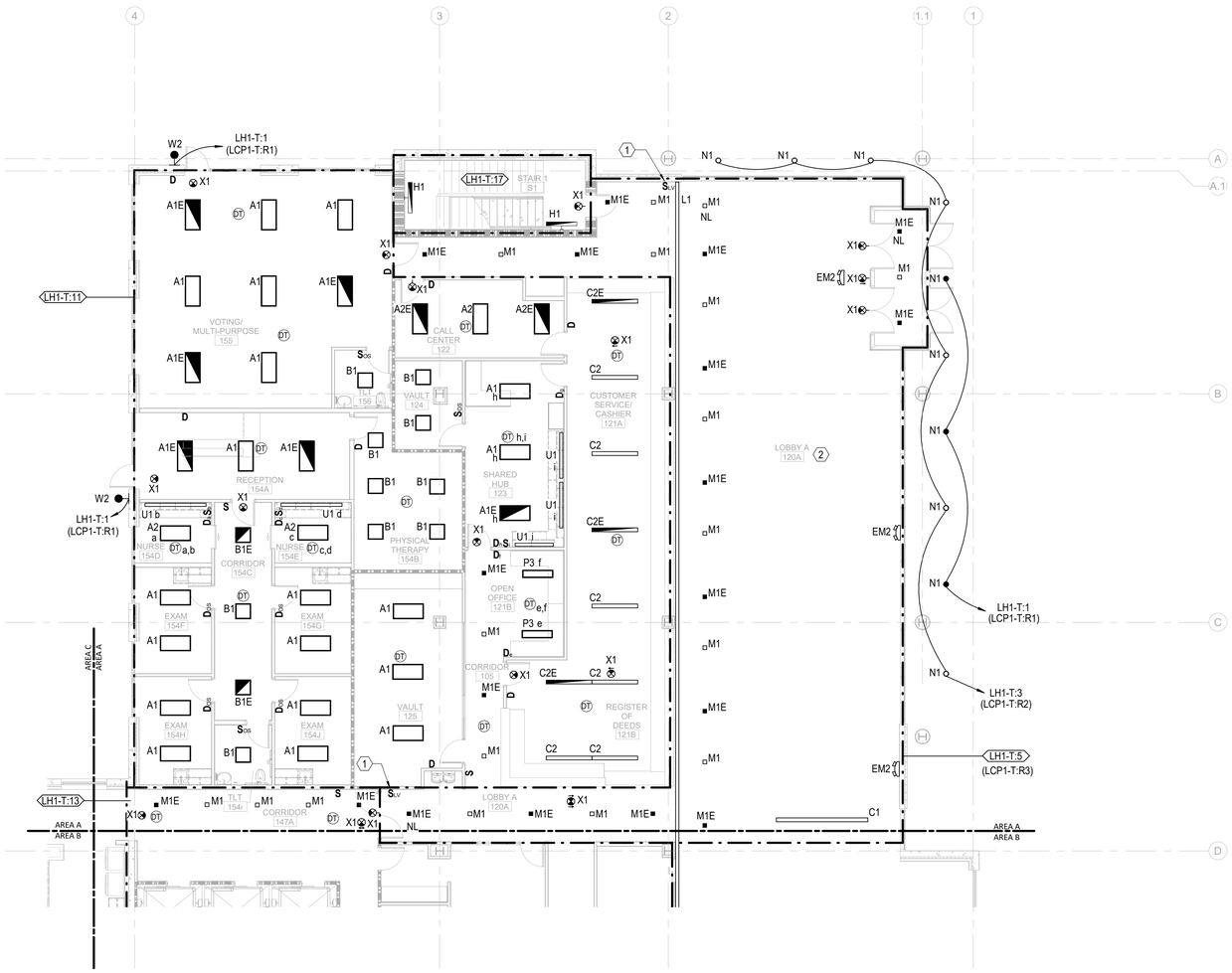
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-114

TI GMP SET

11/19/2020 4:14:11 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH1-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
7. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR SITE LIGHTING FIXTURE LOCATIONS, TYPES AND DESCRIPTIONS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. ALL LIGHTING FIXTURES SERVING LOBBY A 120A AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.

CAPE FEAR FD STONEWATER

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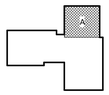
Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-201A

TI GMP SET

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
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5425 Page Rd
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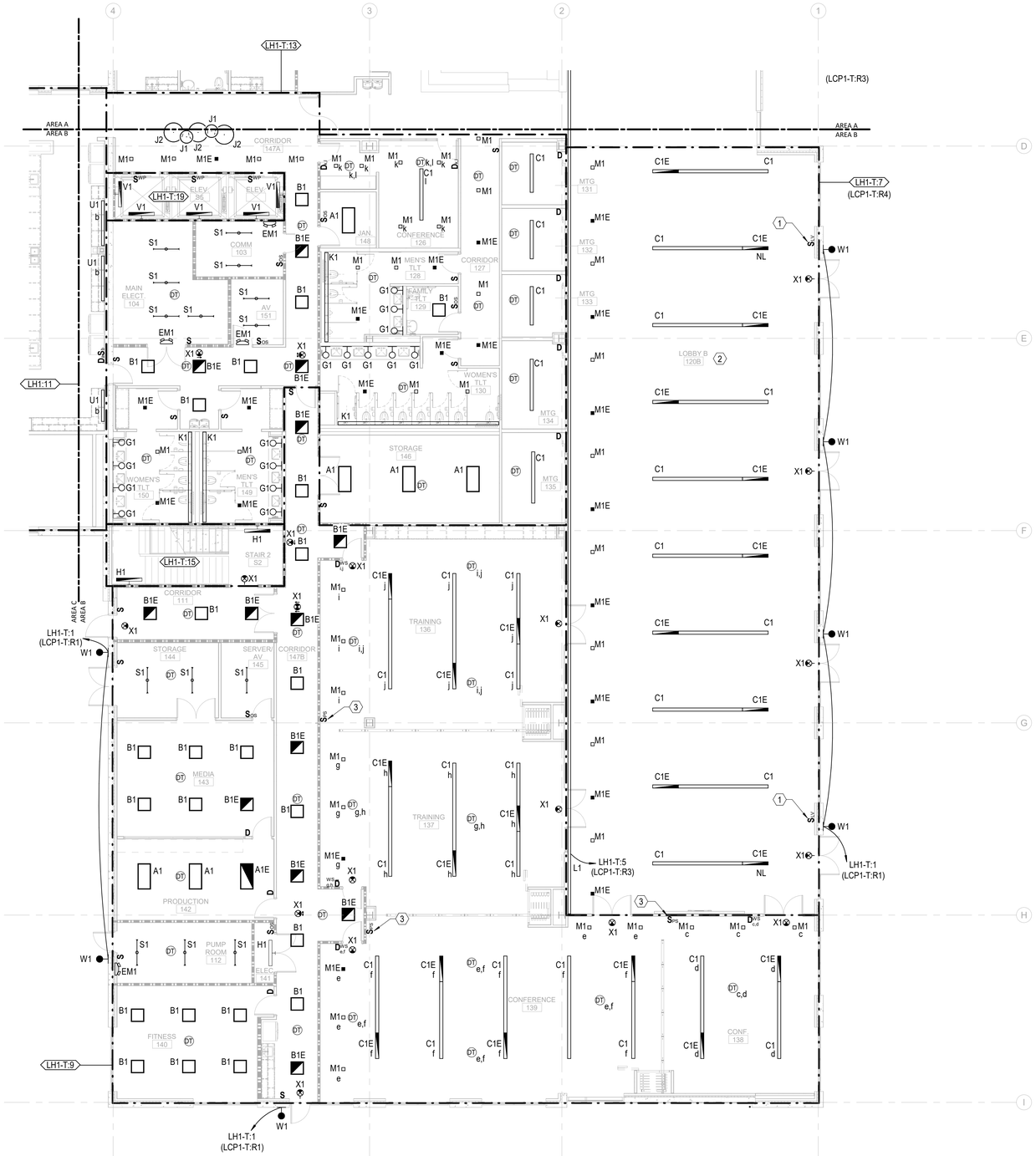
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / E-201A	ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"

11/19/2020 4:14:15 PM



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH1-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
7. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR SITE LIGHTING FIXTURE LOCATIONS, TYPES AND DESCRIPTIONS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. ALL LIGHTING FIXTURES SERVING LOBBY B 120B AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.
3. PROVIDE MANUAL ROOM PARTITION SWITCH FOR RECONFIGURATION OF CONNECTED LIGHTING CONTROL DEVICES BASED ON POSITION OF MOVABLE ROOM PARTITIONS. WHEN PARTITION IS OPEN BETWEEN ANY TWO CONFERENCE ROOMS THE LIGHTING CONTROL DEVICES IN EACH ROOM SHALL SIMULTANEOUSLY CONTROL LIGHTING FIXTURES IN BOTH ROOMS. SWITCH SHOULD BE PROGRAMMED TO RECONFIGURE MORE THAN (2) SPACES AT ONE TIME.

CAPE FEAR FD STONEWATER

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NHC Goverment Center 7702-190810

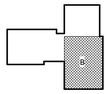
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-201B

TI GMP SET

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

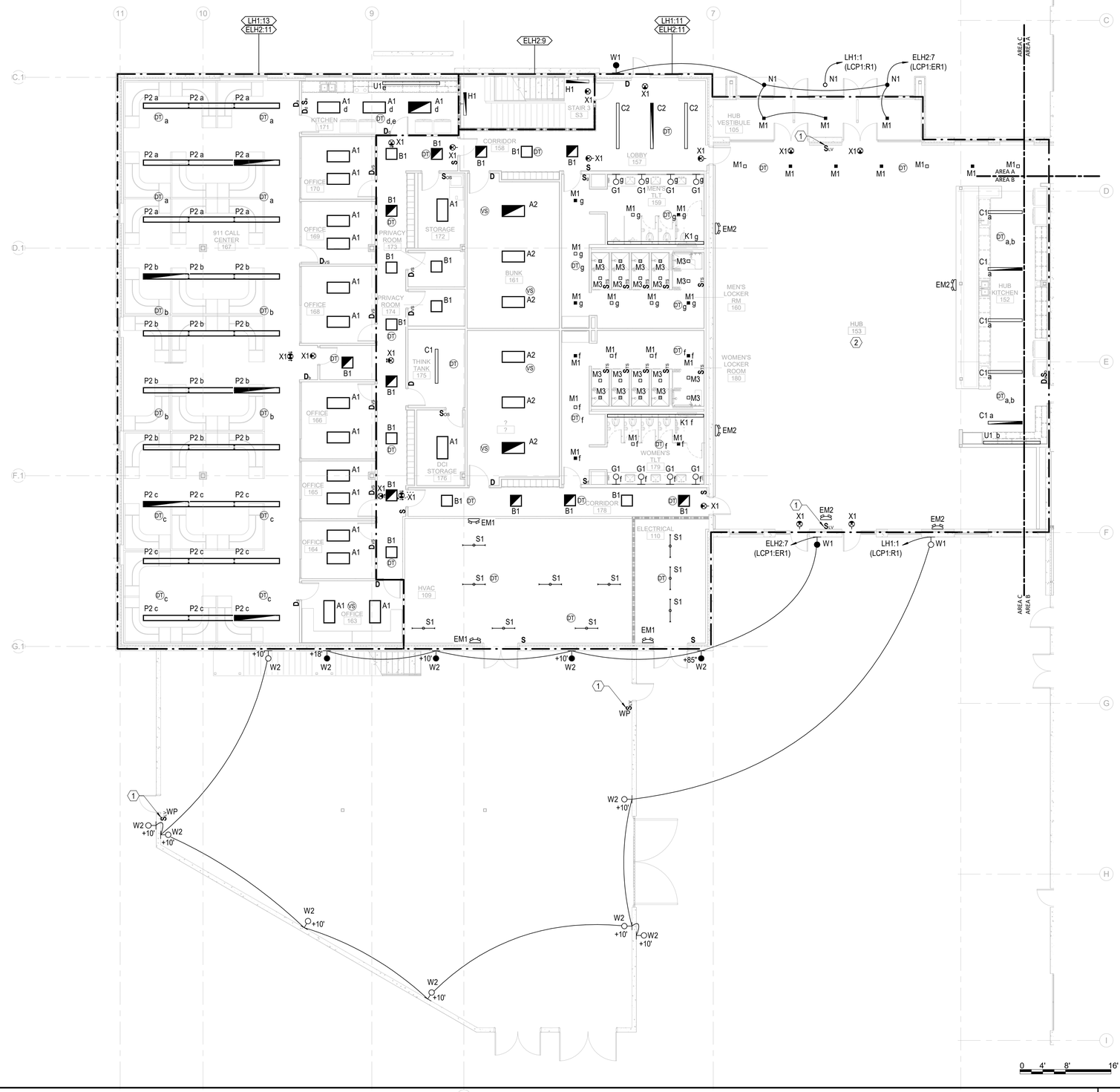
0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / E-201B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA B** 1/8" = 1'-0"

11/19/2020 4:14:22 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. NORMAL LUMINARIES SHALL BE HOMERUN TO PANEL "LH1", UON. EMERGENCY LUMINARIES SHALL BE HOMERUN TO PANEL "ELH2", UON.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME ROOM/AREA UNDER NORMAL CONDITIONS UON. UPON LOSS OF NORMAL POWER ALL EMERGENCY FIXTURES SHALL COME ON AT FULL BRIGHTNESS. PROVIDE EMERGENCY LIGHTING RELAYS AS REQUIRED.
3. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING AND SITE LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM FOR AUTOMATIC TIME CLOCK BASED CONTROL. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
4. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.
5. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR SITE LIGHTING FIXTURE LOCATIONS, TYPES AND DESCRIPTIONS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. ALL LIGHTING FIXTURES SERVING HUB 153 AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN ELECTRICAL 168.

1 E-201C **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C** 1/8" = 1'-0"

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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 1 - AREA C

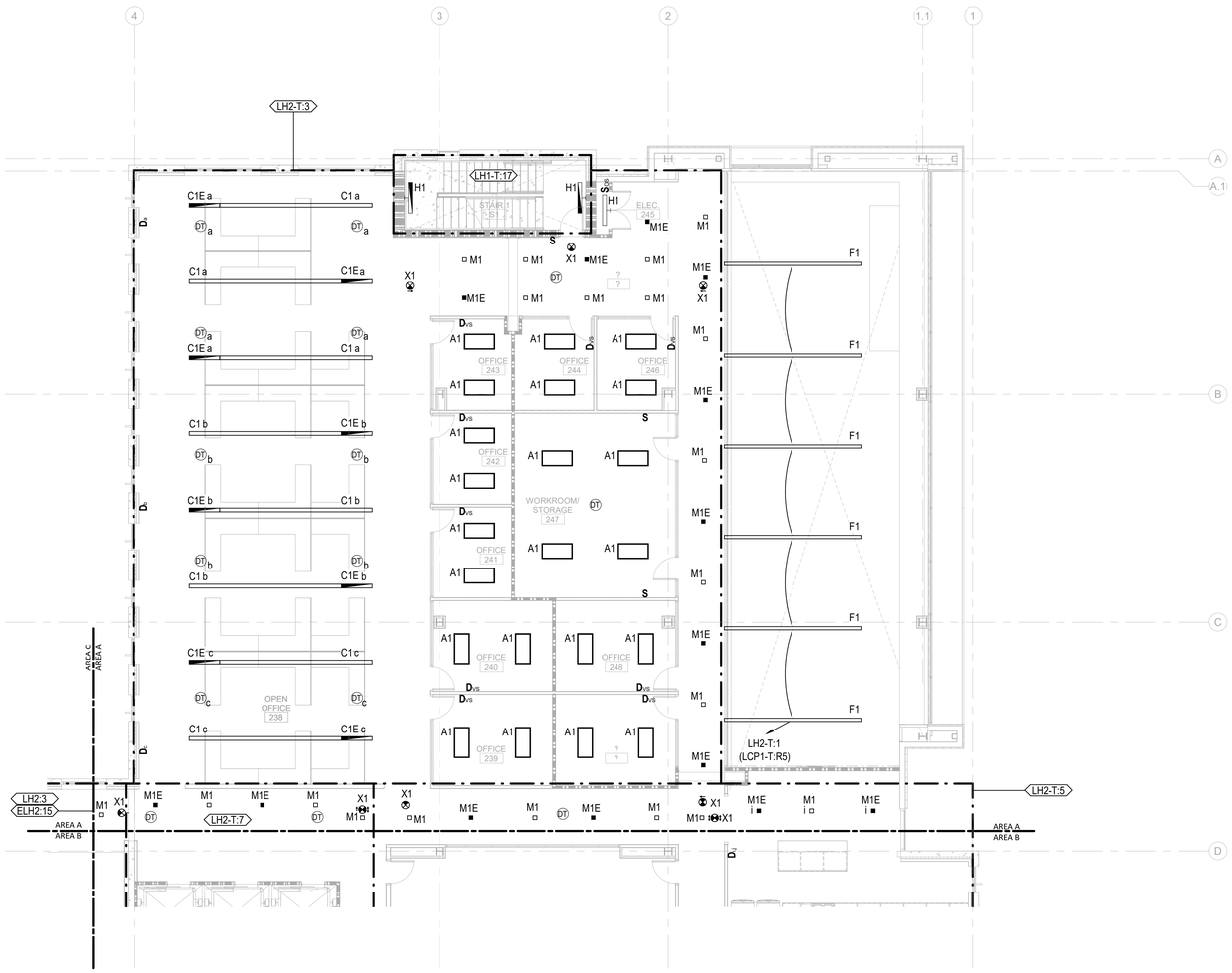
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-201C

TI GMP SET

11/19/2020 4:14:29 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH2-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. ALL LIGHTING FIXTURES SERVING LOBBY A 120A AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN MAIN ELECTRICAL ROOM.

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N&B PROJECT: 19N342
Firm License No. F-0312

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / E-202A	ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A	1/8" = 1'-0"

11/19/2020 4:14:33 PM

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NEW HANOVER COUNTY GOVERNMENT CENTER

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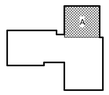
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:

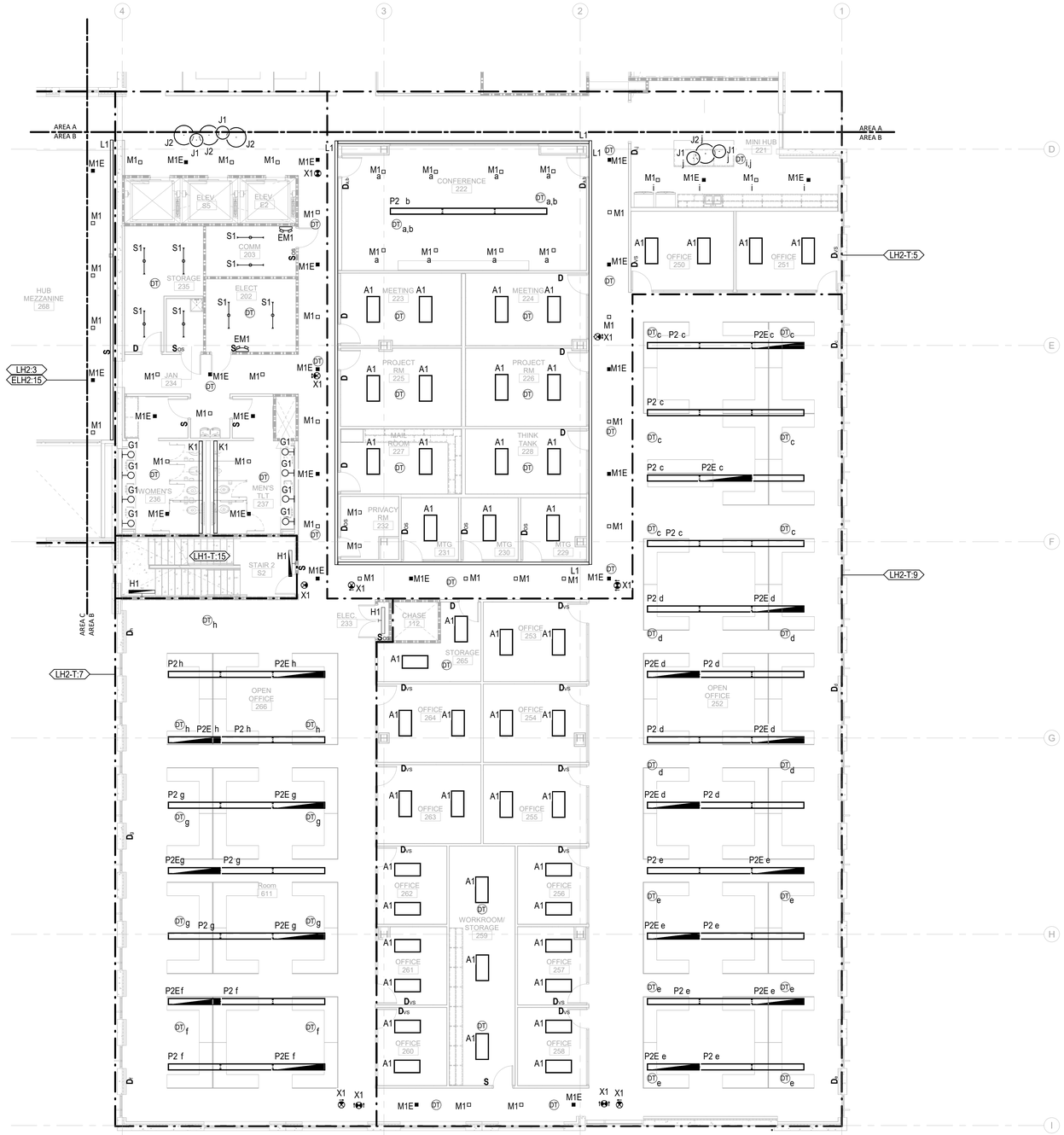


SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-202A

TI GMP SET



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH2-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-202B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B** 1/8" = 1'-0"

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N&B PROJECT: 19N342
Firm License No. F-0312

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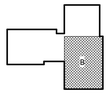
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA B

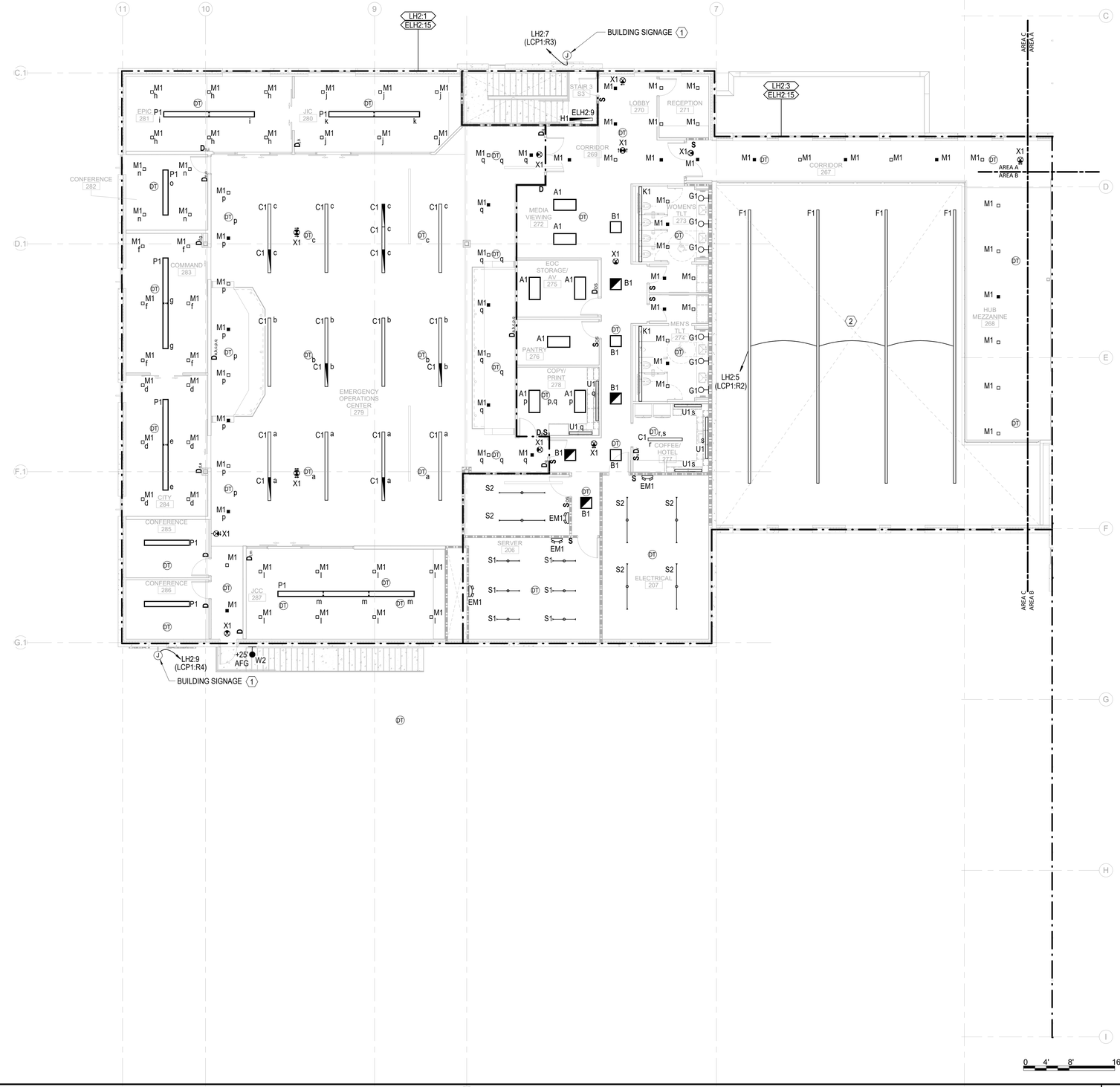
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-202B

TI GMP SET

11/19/2020 4:14:40 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. NORMAL LUMINARIES SHALL BE HOMERUN TO PANEL "LH2", UON. EMERGENCY LUMINARIES SHALL BE HOMERUN TO PANEL "ELH1", UON.
2. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME ROOM/AREA UNDER NORMAL CONDITIONS UON. UPON LOSS OF NORMAL POWER ALL EMERGENCY FIXTURES SHALL COME ON AT FULL BRIGHTNESS. PROVIDE EMERGENCY LIGHTING RELAYS AS REQUIRED.
3. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
4. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
5. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. PROVIDE POWER TO INTERNALLY ILLUMINATED SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH GC PRIOR TO FINAL ROUGH-IN. ROUTE CIRCUIT VIA LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL 168 FOR TIME CLOCK CONTROL.
2. ALL LIGHTING FIXTURES SERVING HUB 153 AREA SHALL BE AUTOMATICALLY CONTROLLED VIA LIGHTING CONTROL RELAY PANEL LOCATED IN ELECTRICAL 168.

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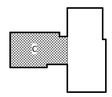
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 2 - AREA C

DATE:
CURRENT: 2020.11.20
TI GMP SET

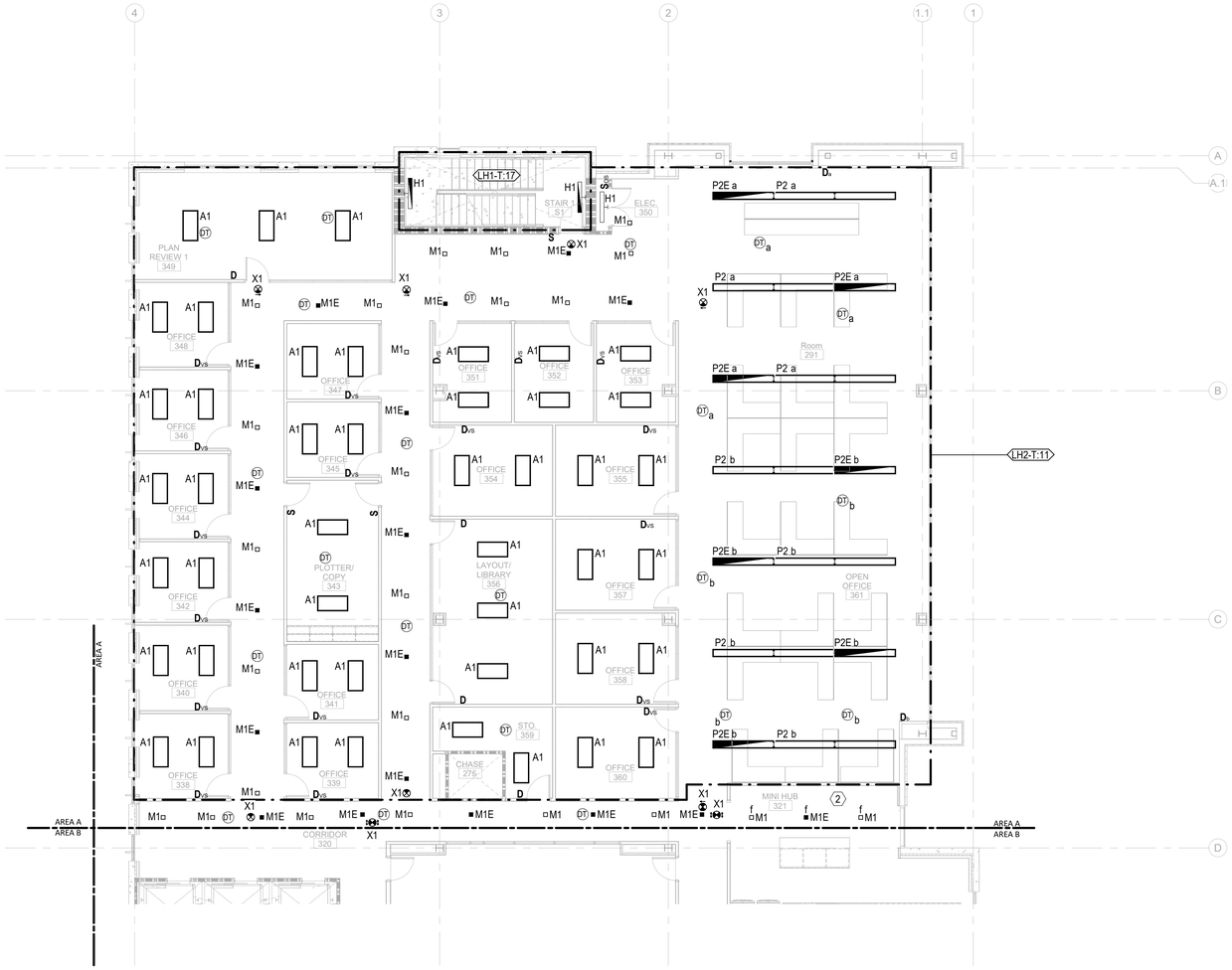
SHEET:
E-202C

TI GMP SET

1 / E-202C **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA C** 1/8" = 1'-0"

11/19/2020 4:14:45 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH3-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
2. LIGHTING FIXTURES IN MINI HUB SHALL BE CONTROLLED BY DIMMER SWITCH SHOWN ON PLAN AREA B.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / E-203A	ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A	1/8" = 1'-0"

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N&B PROJECT: 19N342
Firm License No. F-0312

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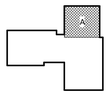
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



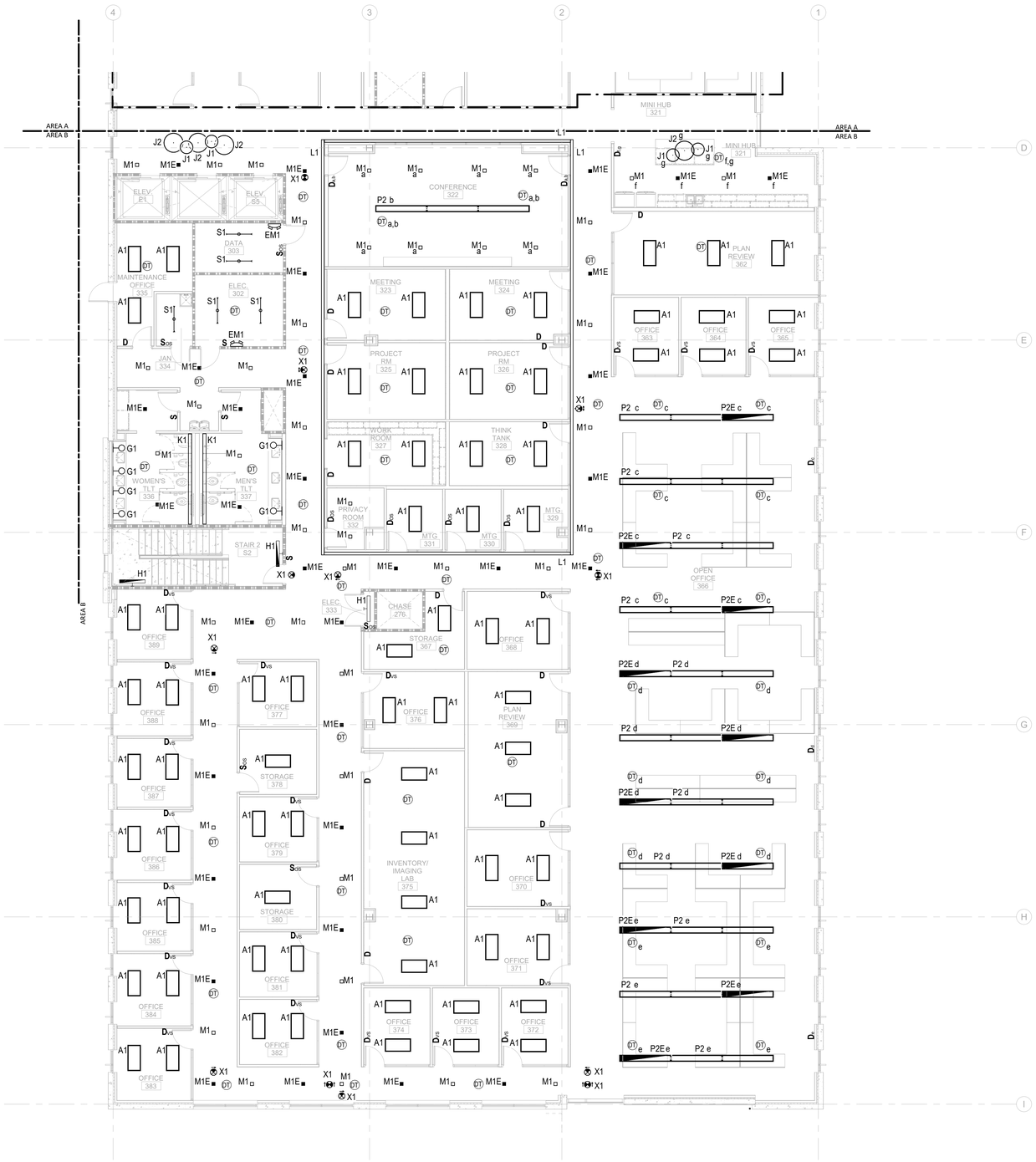
SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 3 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-203A

TI GMP SET

11/19/2020 4:14:50 PM



GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH3-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-203B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B** 1/8" = 1'-0"

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Firm License No. F-0312

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NHC Goverment Center 7702-190810

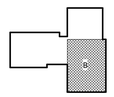
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 3 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-203B

TI GMP SET

11/19/2020 4:14:58 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH4-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. PROVIDE POWER TO INTERNALLY ILLUMINATED SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH GC PRIOR TO FINAL ROUGH-IN. ROUTE CIRCUIT VIA LIGHTING CONTROL PANEL LOCATED IN MAIN ELECTRICAL ROOM FOR TIME CLOCK CONTROL.
2. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.
3. LIGHTING FIXTURES IN MINI HUB SHALL BE CONTROLLED BY DIMMER SWITCH SHOWN ON PLAN AREA B.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 / E-204A	ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A	1/8" = 1'-0"

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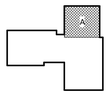
NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 4 - AREA A

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-204A

TI GMP SET

11/19/2020 4:15:03 PM

GENERAL NOTES:

1. LUMINARIES SHALL BE HOMERUN TO PANEL "LH4-T", UON.
2. EMERGENCY FIXTURES ARE PROVIDED WITH INTEGRAL 90 MINUTE BATTERY BACK UP, UON. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
3. EMERGENCY LIGHTING FIXTURES SHALL BE CONTROLLED TOGETHER WITH NORMAL LIGHTING FIXTURES WITHIN THE SAME AREA, UON.
4. ROUTE BRANCH CIRCUITS SERVING EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES VIA LIGHTING RELAY PANEL LOCATED IN THE MAIN ELECTRICAL ROOM. REFER TO RELAY PANEL SCHEDULE FOR DETAILS.
5. ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING CONTACTOR LC LOCATED IN MAIN ELECTRICAL ROOM. REFER TO CONTACTOR SCHEDULE FOR DETAILS.
6. PROVIDE UNSWITCHED HOT CONDUCTOR FOR ALL FIXTURES DESIGNATED AS NIGHT LIGHTS.

KEY NOTES:

1. PROVIDE POWER TO INTERNALLY ILLUMINATED SIGNAGE. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH GC PRIOR TO FINAL ROUGH-IN. ROUTE CIRCUIT VIA LIGHTING CONTROL PANEL LOCATED IN MAIN ELECTRICAL ROOM FOR TIME CLOCK CONTROL.
2. LOW VOLTAGE LIGHTING CONTROL RELAY PANEL 2-HOUR OVERRIDE SWITCH.

0 4' 8' 16'

TRUE NORTH PROJECT NORTH

1 E-204B **ELECTRICAL LIGHTING TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B** 1/8" = 1'-0"

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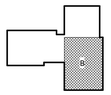
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

KEY PLAN:



SHEET NAME:
ELECTRICAL LIGHTING FLOOR PLAN - LEVEL 4 - AREA B

DATE:
CURRENT: 2020.11.20
TI GMP SET

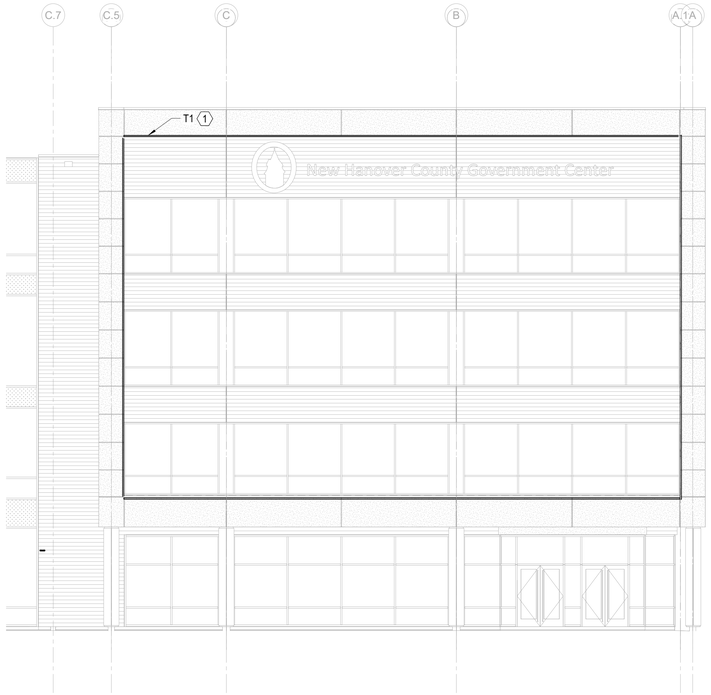
SHEET:
E-204B

TI GMP SET

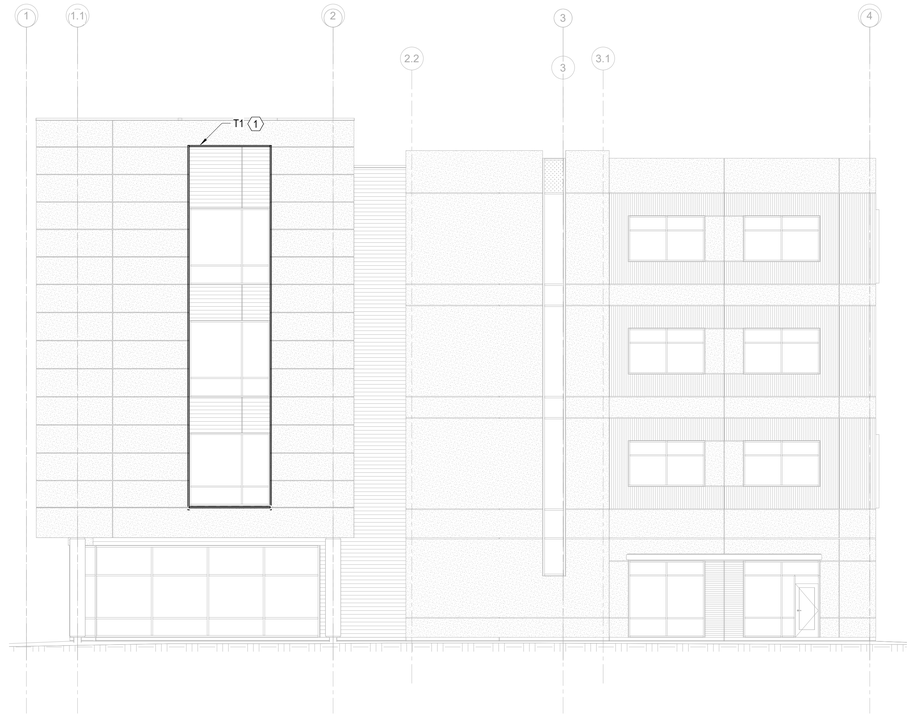
11/19/2020 4:15:10 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

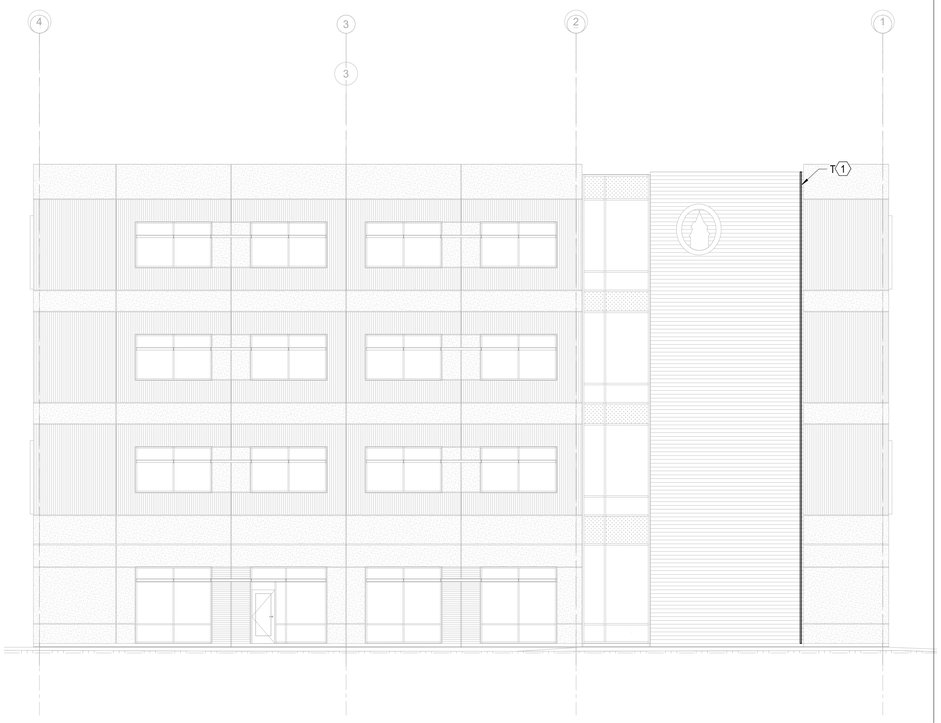
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE



1 E-205 ELECTRICAL LIGHTING - EXTERIOR FACADE - AREA A - EAST 1/8" = 1'-0"



2 E-205 ELECTRICAL LIGHTING - EXTERIOR FACADE - AREA A - NORTH 1/8" = 1'-0"



3 E-205 ELECTRICAL LIGHTING - EXTERIOR FACADE - AREA B - SOUTH 1/8" = 1'-0"

KEY NOTES:

1 INSTALL LED ROPE LIGHT CONTINUOUSLY IN ARCHITECTURAL COVE. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS. LOCATE REMOTE FIXTURE POWER SUPPLIES INSIDE THE BUILDING ACCESSIBLE ABOVE CEILING. ROUTE BRANCH CIRCUIT SUPPLYING THE ROPE LIGHT VIA LIGHTING CONTROL RELAY PANEL "LCP4-T" IN THE 4TH FLOOR ELECTRICAL ROOM FOR TIME CLOCK CONTROL.

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Firm License No. F-0312

SHEET NAME:
ELECTRICAL LIGHTING FACADE ELEVATIONS

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-205

TI GMP SET

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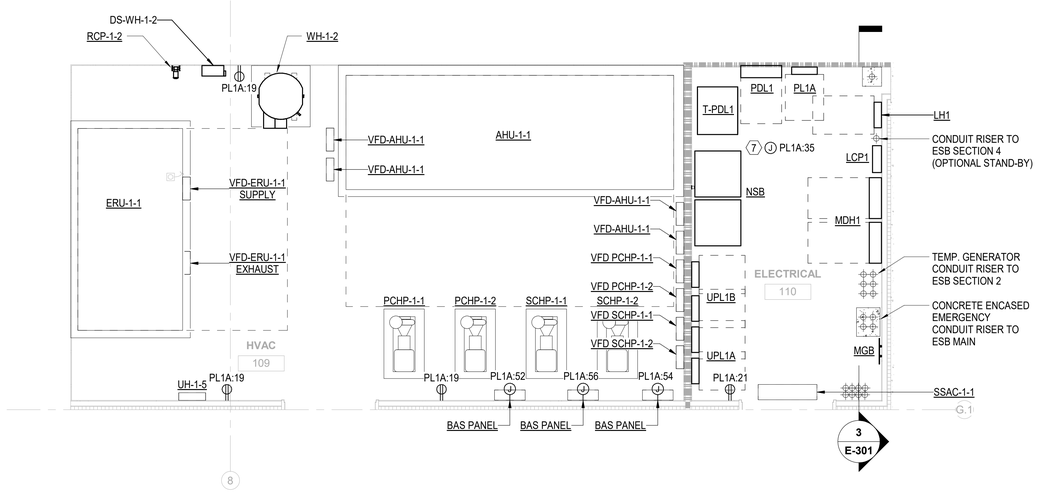
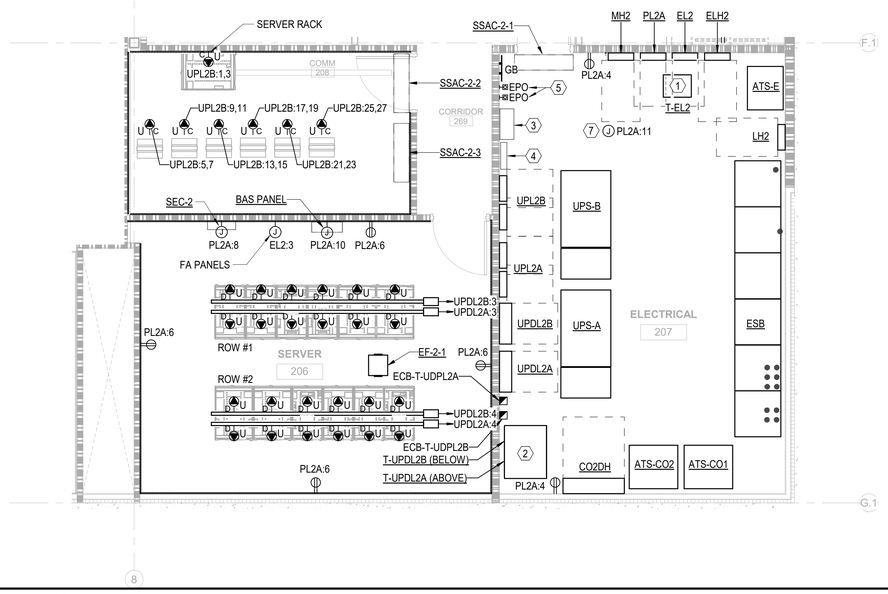
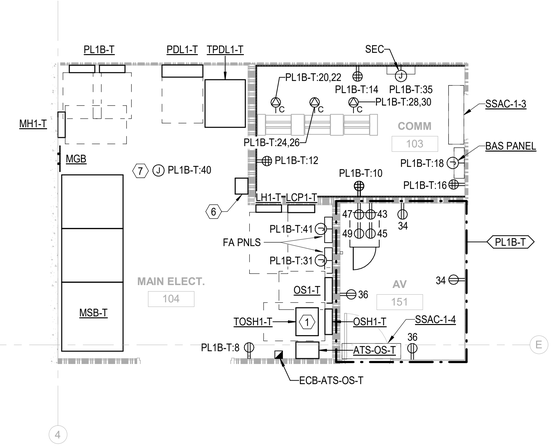


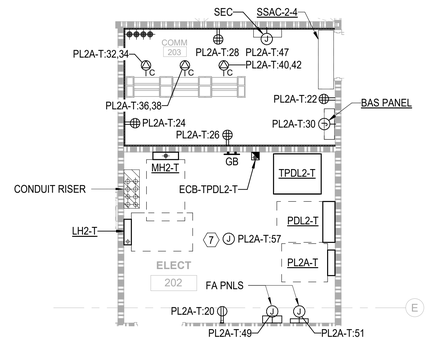
4 E-301	ELECTRICAL / HVAC ROOM - ENLARGED - LEVEL 1 - AREA C	NTS



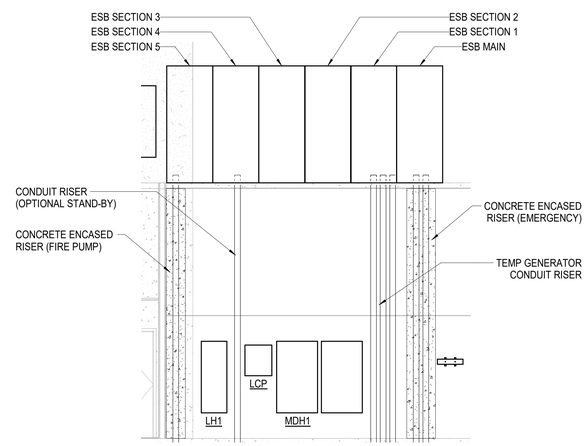
5 E-301	ELECTRICAL / SERVER ROOM - ENLARGED - LEVEL 2 - AREA C	NTS



1 E-301	ELECTRICAL / COMM / AV ROOM - ENLARGED - LEVEL 1 - AREA B	NTS



2 E-301	ELECTRICAL / COMM ROOM - ENLARGED - LEVEL 2 - AREA B	NTS



3 E-301	ELECTRICAL ROOM - CONDUIT RISER SECTION - AREA C	NTS

KEY NOTES:

1. INSTALL TRANSFORMER SUSPENDED FROM THE STRUCTURE ABOVE.
2. PROVIDE STRUCTURAL STEEL TO MOUNT T-UPDL2A TRANSFORMER ABOVE T-UPDL2B TRANSFORMER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF STRUCTURAL SUPPORT FOR APPROVAL PRIOR TO CONSTRUCTION.
3. PROVIDE WALL MOUNTED GENERATOR SET MASTER CONTROLLER WITH INTEGRAL LOAD SHED CONTROL RELAYS.
4. PROVIDE GENERATOR REMOTE ANNUNCIATOR PANEL FOR EACH GENERATOR SET.
5. PROVIDE EMERGENCY GENERATOR SHUT-OFF FOR EACH GENERATOR SET.
6. PROVIDE 277V, 250W LIGHTING INVERTER. INSTALL INVERTER MOUNTED TO THE WALL AT 8' AFF, AVOIDING SWITCHBOARD WORKING CLEARANCES.
7. JUNCTION BOX FOR 120V MISCELLANEOUS HVAC CONTROL POWER. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

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SHEET NAME:
ELECTRICAL ENLARGED POWER PLANS

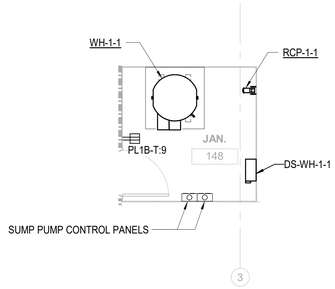
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-301

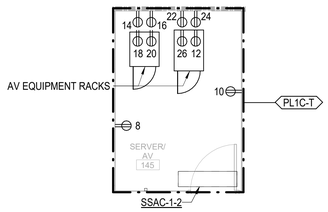
TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE (1) LINE AT FULL SCALE ON ORIGINAL DRAWING

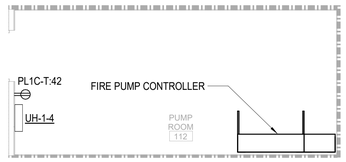
11/19/2020 4:15:24 PM



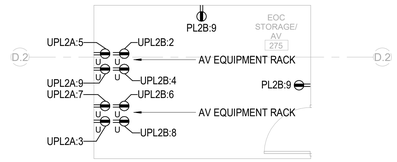
4 / E-302	JAN ROOM - ENLARGED - LEVEL 1 - AREA B	NTS



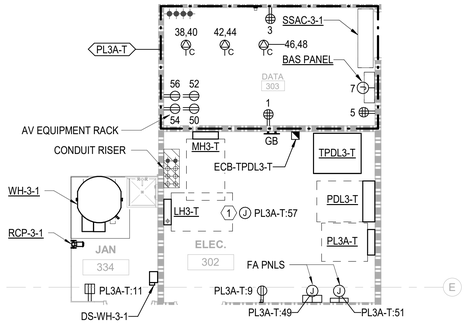
1 / E-302	SERVER - ENLARGED - LEVEL 1 - AREA B	NTS



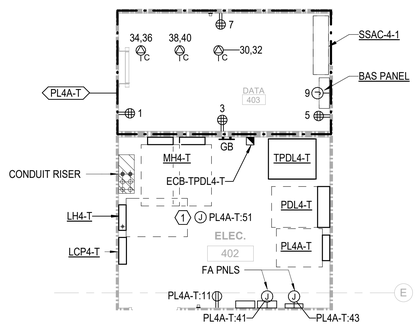
5 / E-302	PUMP ROOM - ENLARGED - LEVEL 1 - AREA B	NTS



2 / E-302	EOC STORAGE/AV - ENLARGED - LEVEL 2 - AREA C	NTS



6 / E-302	ELECTRICAL / JAN / DATA - ENLARGED - LEVEL 3 - AREA B	NTS



3 / E-302	ELECTRICAL ROOM - ENLARGED - LEVEL 4 - AREA B	NTS

KEY NOTES:

1. JUNCTION BOX FOR 120V MISCELLANEOUS HVAC CONTROL POWER. COORDINATE LOCATIONS AND LOADS OF ALL CONNECTION POINTS WITH DIVISION 23.

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SHEET NAME:
ELECTRICAL ENLARGED POWER PLANS

DATE:
CURRENT: 2020.11.20
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SHEET:
E-302

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

11/19/2020 4:15:28 PM

ESB SWITCHBOARD MANUAL TRANSFER SCHEME:

PROVIDE A (3) POSITION OPERATOR SWITCH FOR SELECTING MAIN - OFF - SEC 1.

- SELECTING "OFF" SHALL OPEN ALL BREAKERS AND SHALL BE USED FOR THE MAINTENANCE.
- SELECTING "MAIN" OR "SEC 1" SHALL INITIATE A 5 SECOND DELAY BEFORE THE SELECTED MAIN BREAKERS ARE CLOSED.

MAIN BREAKERS AND TEMPORARY GENERATOR BREAKER SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS.

MAIN AND TEMPORARY GENERATOR CIRCUIT BREAKERS SHALL BE ELECTRICALLY INTERLOCKED WITH EACH OTHER SO THAT THE TEMPORARY GENERATOR CIRCUIT BREAKER CAN NOT BE CLOSED UNTIL THE MAIN BREAKERS ARE OPEN.

GENERAL NOTES:

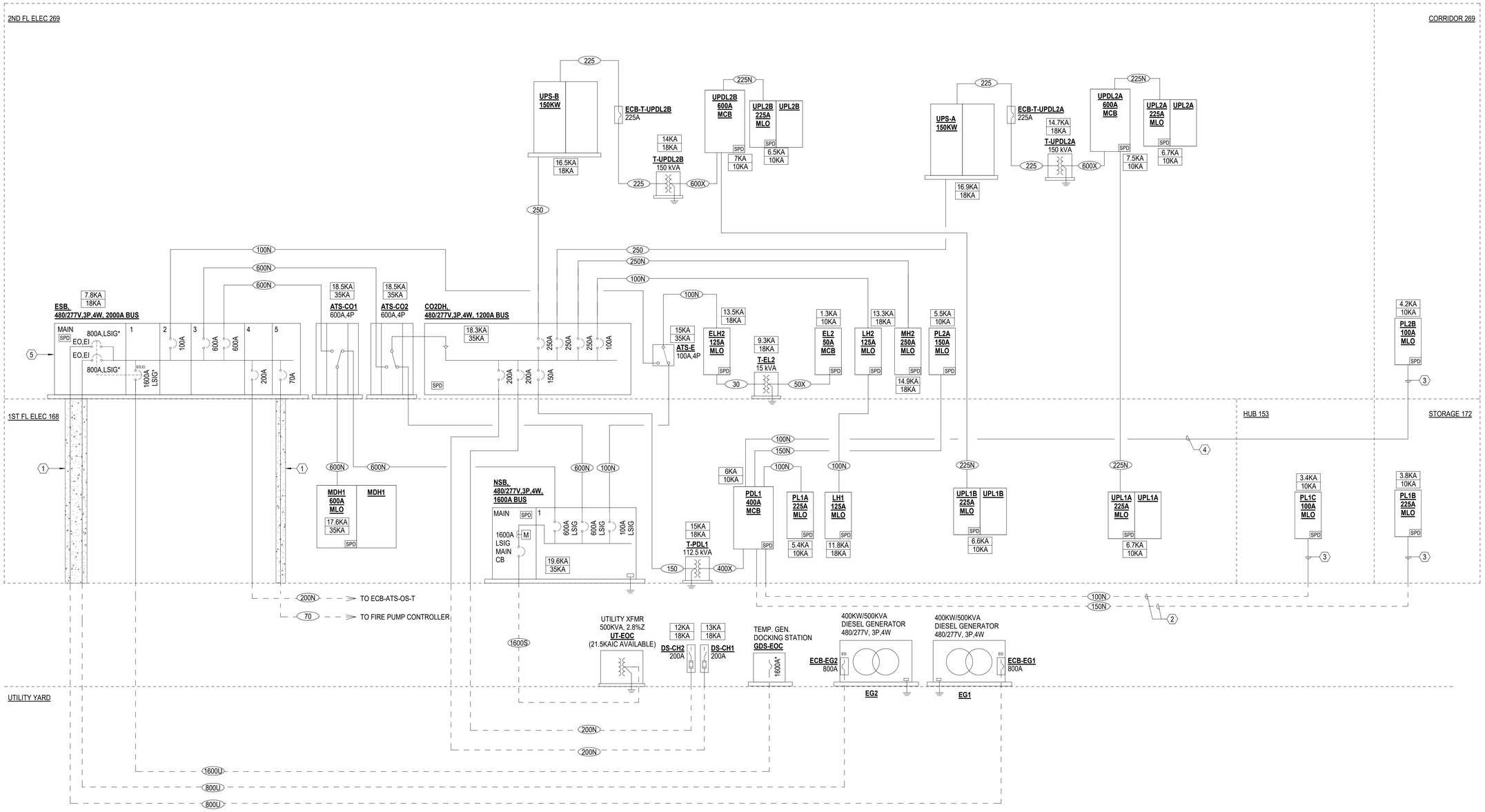
1. CIRCUIT BREAKERS NOTED WITH ASTERISKS (*) SHALL BE LSIG TYPE WITH GROUND FAULT ALARM ONLY.
2. ALL EMERGENCY AND CRITICAL OPERATIONS SYSTEMS OVERCURRENT PROTECTION DEVICES SHALL BE SELECTIVELY COORDINATED. ATS' SHOWN ON THIS DRAWING SERVE EITHER EMERGENCY OR CRITICAL OPERATIONS SYSTEMS.

   BASIS OF DESIGN BREAKERS TO BE UTILIZED:
   480/277V SYSTEM
   GENERATOR BREAKERS = SQUARE D MASTER PACK NW WITH ADJUSTABLE LSI.
   FEEDER BREAKERS 70A TO 600A = SQUARE D L-FRAME MISSION CRITICAL WITH ADJUSTABLE LSI.
   BRANCH BREAKERS UP TO 60A = SQUARE D E-FRAME.
   208/120V SYSTEM
   FEEDER AND MAIN BREAKERS 400A TO 600A = SQUARE D M-FRAME WITH ADJUSTABLE LSI.
   FEEDER AND MAIN BREAKERS 100A TO 250A = SQUARE D J-FRAME MISSION CRITICAL WITH ADJUSTABLE LSI.
3. REFER TO UPS, GENERATOR AND TEMPORARY GENERATOR DOCKING STATION EQUIPMENT SCHEDULES ON ELECTRICAL SCHEDULES SHEETS.

KEY NOTES:

1. RUN FEEDER(S) VERTICALLY ENCASED IN A MINIMUM OF 2 INCHES OF CONCRETE PER NEC REQUIREMENTS.
2. INSTALL FEEDER UNDERGROUND PER NEC ARTICLE 708 REQUIREMENTS.
3. INSTALL ABOVE GRADE/FLOOR VERTICAL FEEDER IN RIGID CONDUIT.
4. INSTALL FEEDER IN CONCRETE SLAB PER NEC ARTICLE 708 REQUIREMENTS.
5. PROVIDE MANUAL TRANSFER SELECTOR SWITCH IN MAIN SWITCHBOARD SECTION WITH THE FOLLOWING FEATURES:
   - MAIN BREAKER(S) SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS

   SEE MANUAL TRANSFER SWITCH SCHEME DESCRIPTION ON THIS SHEET.



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1 / E-401	EOC RISER DIAGRAM

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SHEET NAME:
ELECTRICAL RISER DIAGRAM EOC

DATE:
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E-401

TI GMP SET

11/19/2020 4:15:31 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

FEEDER SIZE SCHEDULE

FEEDER MARK	COPPER CONDUCTORS AND CONDUIT SIZE
20N	4 #12 AND 1 #12 G ~ 0.75" C
20X	4 #12 AND 1 #8 G ~ 0.75" C
20	3 #12 AND 1 #12 G ~ 0.75" C
30N	4 #10 AND 1 #10 G ~ 0.75" C
30X	4 #10 AND 1 #8 G ~ 0.75" C
30	3 #10 AND 1 #10 G ~ 0.75" C
40N	4 #8 AND 1 #10 G ~ 1" C
40	3 #8 AND 1 #10 G ~ 1" C
50N	4 #6 AND 1 #8 G ~ 1.25" C
50X	4 #6 AND 1 #8 G ~ 1.25" C
50	3 #6 AND 1 #8 G ~ 1.25" C
60N	4 #4 AND 1 #8 G ~ 1.25" C
60	3 #4 AND 1 #8 G ~ 1.25" C
70	3 #4 AND 1 #8 G ~ 4" C
70S	4 #4 ~ 4" C
100N	4 #2 AND 1 #8 G ~ 1.5" C
100X	4 #1 AND 1 #6 G ~ 1.5" C
100	3 #2 AND 1 #8 G ~ 1.5" C
125N	4 #1/0 AND 1 #6 G ~ 2" C
125	3 #1/0 AND 1 #6 G ~ 2" C
150N	4 #2/0 AND 1 #6 G ~ 2" C
150X	4 #2/0 AND 1 #4 G ~ 2" C
150	3 #2/0 AND 1 #6 G ~ 2" C
200N	4 #3/0 AND 1 #6 G ~ 2" C
200	3 #3/0 AND 1 #6 G ~ 2" C
225N	4 #4/0 AND 1 #4 G ~ 2.5" C
225X	4 #4/0 AND 1 #2 G ~ 2.5" C
225	3 #4/0 AND 1 #4 G ~ 2.5" C
250N	4 #250 AND 1 #4 G ~ 3" C
250	3 #250 AND 1 #4 G ~ 2.5" C
300N	4-300 kcmil AND 1 #4 G ~ 3" C
300	3-300 kcmil AND 1 #4 G ~ 3" C
350N	4-400 kcmil AND 1 #3 G ~ 3" C
350	3-400 kcmil AND 1 #3 G ~ 3" C
400N	4-500 kcmil AND 1 #3 G ~ 3.5" C
400X	2 SETS (4 #3/0 AND 1 #1/0 G ~ 2.5" C)
400	3-500 kcmil AND 1 #3 G ~ 3.5" C
500N	4-250 kcmil AND 1 #2 G ~ 3" C
600N	2 SETS (4-350 kcmil AND 1 #2/0 G ~ 3" C)
600X	2 SETS (4-350 kcmil AND 1 #2/0 G ~ 3" C)
600	2 SETS (3-350 kcmil AND 1 #2/0 G ~ 3" C)
800U	2 SETS (4-500 kcmil AND 1 #2/0 G ~ 4" C) & (1) SPARE 4" C
800	2 SETS (3-500 kcmil AND 1 #2/0 G ~ 3.5" C)
1000N	3 SETS (4-400 kcmil AND 1 #2/0 G ~ 3.5" C)
1200N	4 SETS (4-350 kcmil AND 1 #3/0 G ~ 3" C)
1200S	4 SETS (4-350 kcmil ~ 4" C) & (2) SPARE 4" C
1600U	6 SETS (4-300 kcmil AND 1 #4/0 G ~ 4" C)
1600S	6 SETS (4-300 kcmil ~ 4" C)
3000S	8 SETS (4-500 kcmil ~ 4" C) & (3) SPARE 4" C
3000U	8 SETS (4-500 kcmil AND 1-400 kcmil G ~ 4" C) & (1) SPARE 4" C

DRY-TYPE TRANSFORMER FEEDER SCHEDULE

kVA	PRIMARY FEEDER MARK	SECONDARY FEEDER MARK	GROUNDING ELECTRODE CONDUCTOR
9	20	30X	#8
15	30	50X	#8
30	50	100X	#6
45	70	150X	#4
75	125	225X	#2
112.5	150	400X	#1/0
150	225	600X	#2/0
225	350	800X	#2/0
300	400	1000X	#3/0
500	800	1600X	#3/0

NOTES:
1. TRANSFORMER FEEDER SIZES BASED ON 480 V, 3-PHASE, DELTA PRIMARY AND 208Y/120 V, 3-PHASE, 4-WIRE SECONDARY.
2. GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN METALLIC RACEWAY, MINIMUM SIZE PER NFPA 70, ARTICLE 250.
3. REFER TO FEEDER SIZE SCHEDULE FOR CONDUCTORS AND RACEWAYS.

PANELBOARD DESIGNATION SCHEME: ____

E MH 1 A -T

E - EMERGENCY
OS - OPTIONAL STAND-BY
U - UPS

M - MECHANICAL EQUIP. PANELBOARD
P - RECEPTACLE AND EQUIP. PANELBOARD
L - LIGHTING PANELBOARD
DP - DISTRIBUTION PANELBOARD
H - 408Y/277V PANELBOARD
L - 208Y/120V PANELBOARD

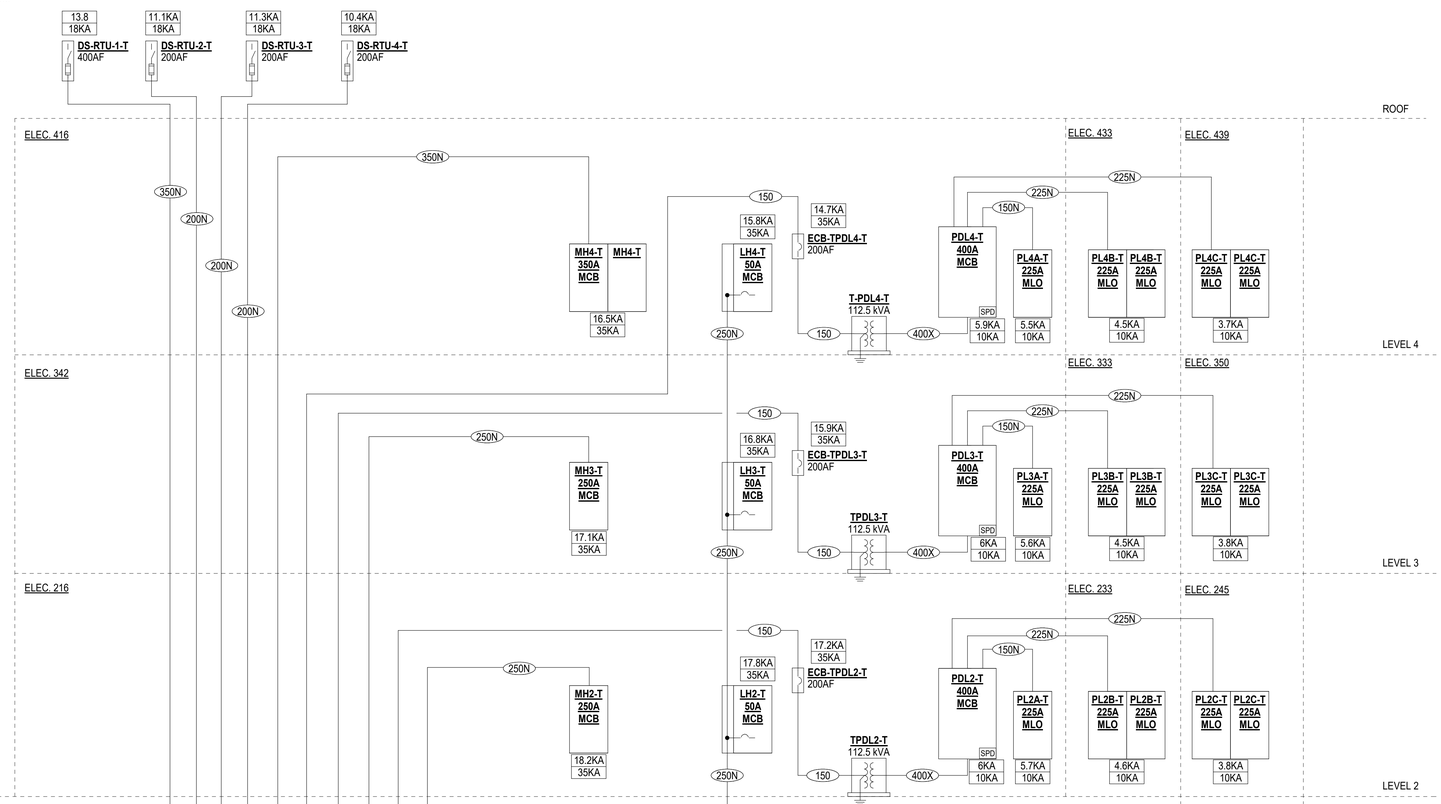
FLOOR LEVEL (1,2,3,...)
PANELBOARD SEQUENCE (A,B,C,...)

T - TOWER BUILDING
( ) - EOC BUILDING

KEY NOTES:

1. FIRE PUMP CONTROLLER. FURNISHED AND INSTALLED BY DIV.22.
2. PROVIDE A MANUAL TRANSFER SCHEME FOR THE SWITCHBOARD WITH THE FOLLOWING FEATURES:
   - MAIN BREAKER(S) SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS

   SEE MANUAL TRANSFER SWITCH SCHEME DESCRIPTION ON THIS SHEET.



MSB-T SWITCHBOARD MANUAL TRANSFER SCHEME:

PROVIDE A (3) POSITION OPERATOR SWITCH FOR SELECTING MAIN 1 - OFF - MAIN 2.

- SELECTING "OFF" SHALL OPEN ALL MAIN BREAKERS AND SHALL BE USED FOR THE MAINTENANCE.
- SELECTING "MAIN 1" OR "MAIN 2" SHALL INITIATE A 5 SECOND DELAY BEFORE THE SELECTED MAIN BREAKERS ARE CLOSED.

MAIN BREAKERS SHALL BE ELECTRICALLY OPERATED INSULATED CASE BREAKERS.

MAIN AND TEMPORARY GENERATOR CIRCUIT BREAKERS SHALL BE ELECTRICALLY INTERLOCKED WITH EACH OTHER SO THAT THE TEMPORARY GENERATOR CIRCUIT BREAKER CAN NOT BE CLOSED UNTIL THE MAIN BREAKER IS OPEN.

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N&B PROJECT: 19N342
Firm License No. F-0312

1 / E-402	TOWER BUILDING RISER DIAGRAM

11/19/2020 4:15:35 PM

CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.3111 FAX. 910.790.9901
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL RISER DIAGRAM TOWER

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-402

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

LIGHTING CONTROL RELAY PANEL "LCP1" SCHEDULE

CONTACTOR	POWER CIRCUIT	LOAD (WATTS)	DESCRIPTION	OVERRIDE SWITCH	CONTROL NOTES
R1	LH1:1	235	EOC EXTERIOR LIGHTING		
R2	LH2:5	2700	EOC 2ND LEVEL HIGH BAY LIGHTING		
R3	LH2:7	500	EOC BUILDING SIGNAGE NORTH		
R4	LH2:9	500	EOC BUILDING SIGNAGE SOUTH		
R5					
R6					
R7					
R8					
R9					
R10					
R11					
R12					
BARRIER BETWEEN NORMAL AND EMERGENCY RELAYS					
ER1	ELH2:1	210	EOC EXTERIOR/VESTIBULE LIGHTING		
ER2					
ER3					
ER4					
ER5					
ER6					
ER7					
ER8					
ER9					
ER10					
ER11					
ER12					

LIGHTING CONTROL RELAY PANEL "LCP4-T" SCHEDULE

CONTACTOR	POWER CIRCUIT	LOAD (WATTS)	DESCRIPTION	CONTROL NOTES
R1			BUILDING SIGNAGE WEST	
R2			BUILDING SIGNAGE SOUTH	
R3			FACADE LIGHTING	
R4				
R5				
R6				
R7				
R8				
R9				
R1				
R11				
R12				

AUTOMATIC TRANSFER SWITCH SCHEDULE

NAME	VOLTAGE	AMPERES	POLES	BYPASS ISOLATION	CLOSED TRANSITION	WITHSTAND RATING, AIC	PRIORITY	LOAD SHED FUNCTIONALITY
ATS-CO1	480 V	600 A	4	Yes	No	35000	1	Yes
ATS-CO2	480 V	600 A	4	Yes	No	35000	1	Yes
ATS-E	480 V	100 A	4	Yes	No	25000	0	No
ATS-OS-T	480 V	100 A	4	No	No	25000	2	Yes

NOTES:
1. 0 IS THE HIGHEST PRIORITY LOAD AND SHALL BE LOADED FIRST AND SHALL NOT BE SHED.
2. CLOSING SEQUENCE OF ATS'S IS DETERMINED BY PRIORITY.

ENGINE GENERATOR SET SCHEDULE

NO.	RATING		VOLTAGE	HZ	RPM	UNIT MOUNTED CIRCUIT BREAKERS				
	KW	KVA				CKT	CIRCUIT BREAKER	EQUIPMENT SERVED	FEEDER MARK	NOTES
EG1	400	500	480Y/277	60	1800	1	800A/3P,LSI	ESB	800N	1,2,3,4,5
EG2	400	500	480Y/277	60	1800	1	800A/3P,LSI	ESB	800N	1,2,3,4,5

NOTES:
1. UNIT MOUNTED CIRCUIT BREAKERS SHALL BE 100% RATED, ELECTRICALLY OPERATED. MANUFACTURER SHALL BE THE SAME AS SWITCHBOARDS.
2. UNIT SHALL BE STANDBY RATED, 3- PHASE, 4 WIRE, WYE CONNECTED.
3. RATING SHALL APPLY AT SITE CONDITIONS OF 1000' ABOVE SEA LEVEL AND AT 110F AMBIENT TEMPERATURE (EXCLUDING ENGINE RADIATION EFFECTS).
4. ENGINE GENERATOR ALTERNATOR SHALL BE SIZED TO LIMIT VOLTAGE DROP TO LESS THAN 15% FOR FIRE PUMP.
5. ENGINE GENERATOR SHALL BE EQUIPPED WITH ON-BOARD PARALLELING CONTROLLER.

UNINTERRUPTIBLE POWER SUPPLY SCHEDULE

DESIGNATON	SYSTEM LOAD INPUT VOLTAGE			BYPASS INPUT VOLTAGE (NOTE 3)			BATTERY		SYSTEM OUTPUT VOLTAGE			OUTPUT KVA	OUTPUT KW	POWER FACTOR
	VOLTS	PHASE	WIRES (NOTE 1)	VOLTS	PHASE	WIRES (NOTE 1)	PROTECT TIME, MINUTES	TYPE	VOLTS	PHASE	WIRES (NOTE 1)			
UPS-A	480	3	3	480	3	3	10	VRLA	480	3	3	160	144	0.9
UPS-B	480	3	3	480	3	3	10	VRLA	480	3	3	160	144	0.9

NOTES:
1. PLUS EQUIPMENT GROUND.
2. SYSTEM EFFICIENCY SHALL BE THE MINIMUM OVERALL AC-TO-AC SYSTEM EFFICIENCY, INPUT-TO-OUTPUT.
3. PROVIDE FLOOR MOUNTED BYPASS CABINET.
4. UPS SIZED TO CARRY FULL UNINTERRUPTIBLE LOAD (N+1 REDUNDANCY).

LIGHTING CONTROL RELAY PANEL "LCP1-T" SCHEDULE

CONTACTOR	POWER CIRCUIT	LOAD (WATTS)	DESCRIPTION	OVERRIDE SWITCH	CONTROL NOTES
R1	LH1-T:1	215	EXTERIOR EMERGENCY LIGHTING		
R2	LH1-T:3	140	EXTERIOR NORMAL LIGHTING		
R3	LH1-T:5	2550	LOBBY A LIGHTING		
R4	LH1-T:7	2020	LOBBY B LIGHTING		
R5	LH2-T:1	1512	LOBBY A HIGH BAY LIGHTING		
R6					
R7					
R8					
R9					
R10					
R11					
R12					

Newcomb & Boyd
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WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-501

TI GMP SET

11/19/2020 4:15:44 PM

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 1

			CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT INFO		
NAME	DESCRIPTION	LOAD	VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT	FUSE	NEMA ENCLOSURE	STARTER TYPE
S100	TERMINAL UNIT	6.5 kVA	277 V	1			MH2	1		1R	N/A
S101	TERMINAL UNIT	6.5 kVA	277 V	1			MH2	3		1R	N/A
S102	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	5		1R	N/A
S103	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S104	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S105	TERMINAL UNIT	1.5 kVA	277 V	1			MH2	7		1R	N/A
S106	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S107	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S108	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S109	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	43		1R	N/A
S110	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S111	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S112	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	9		1R	N/A
S113	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S114	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S115	TERMINAL UNIT	13.0 kVA	480 V	2			MH2	11,13		1R	N/A
S116	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A	45		1R	N/A
S117	TERMINAL UNIT	5.0 kVA	277 V	1			MH1-T	7		1R	N/A
S118	TERMINAL UNIT	2.5 kVA	277 V	1			MH1-T	9		1R	N/A
S119	TERMINAL UNIT	11.0 kVA	277 V	1			MH1-T	11		1R	N/A
S120	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S121	TERMINAL UNIT	5.0 kVA	277 V	1			MH1-T	13		1R	N/A
S122	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S123	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S124	TERMINAL UNIT	8.0 kVA	277 V	1			MH1-T	15		1R	N/A
S125	TERMINAL UNIT	14.0 kVA	480 V	2			MH1-T	17,19		1R	N/A
S126	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S127	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S128	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S129	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S130	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S131	TERMINAL UNIT	1.0 kVA	277 V	1			MH1-T	21		1R	N/A
S132	TERMINAL UNIT	0.2 kVA	120 V	1			PL1C-T	39		1R	N/A
S133	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S134	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	33		1R	N/A
S135	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S136	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	37		1R	N/A
S137	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	37		1R	N/A
S138	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	35		1R	N/A
S139	TERMINAL UNIT	5.0 kVA	277 V	1			MH1-T	23		1R	N/A
S140	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S141	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S142	TERMINAL UNIT	2.5 kVA	277 V	1			MH1-T	25		1R	N/A
S143	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S144	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S145	TERMINAL UNIT	10.0 kVA	277 V	1			MH1-T	27		1R	N/A
S146	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S147	TERMINAL UNIT	0.2 kVA	120 V	1			PL1B-T	37		1R	N/A
S150	TERMINAL UNIT	0.2 kVA	120 V	1			PL1A-T	37		1R	N/A

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 2

			CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT INFO		
NAME	DESCRIPTION	LOAD	VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT	FUSE	NEMA ENCLOSURE	STARTER TYPE
S200	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	15		1R	N/A
S201	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	17		1R	N/A
S202	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	19		1R	N/A
S203	TERMINAL UNIT	2.5 kVA	277 V	1			MH2	21		1R	N/A
S204	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	23		1R	N/A
S205	TERMINAL UNIT	2.5 kVA	277 V	1			MH2	25		1R	N/A
S206	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	27		1R	N/A
S207	TERMINAL UNIT	6.5 kVA	277 V	1			MH2	29		1R	N/A
S208	TERMINAL UNIT	7.0 kVA	277 V	1			MH2	31		1R	N/A
S209	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	33		1R	N/A
S210	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	35		1R	N/A
S211	TERMINAL UNIT	1.0 kVA	277 V	1			MH2	37		1R	N/A
S212	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	39		1R	N/A
S213	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	41		1R	N/A
S214	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	43		1R	N/A
S215	TERMINAL UNIT	3.0 kVA	277 V	1			MH2	45		1R	N/A
S216	TERMINAL UNIT	2.0 kVA	277 V	1			MH2	47		1R	N/A
S217	TERMINAL UNIT	4.0 kVA	277 V	1			MH2-T	1		1R	N/A
S218	TERMINAL UNIT	4.5 kVA	277 V	1			MH2-T	3		1R	N/A
S219	TERMINAL UNIT	4.0 kVA	277 V	1			MH2-T	5		1R	N/A
S220	TERMINAL UNIT	4.5 kVA	277 V	1			MH2-T	7		1R	N/A
S221	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S222	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S223	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S224	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S225	TERMINAL UNIT	7.0 kVA	277 V	1			MH2-T	9		1R	N/A
S226	TERMINAL UNIT	6.5 kVA	277 V	1			MH2-T	11		1R	N/A
S227	TERMINAL UNIT	4.0 kVA	277 V	1			MH2-T	13		1R	N/A
S228	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S229	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	31		1R	N/A
S230	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S231	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S232	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S233	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S234	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S235	TERMINAL UNIT	0.2 kVA	120 V	1			PL2B-T	33		1R	N/A
S236	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	43		1R	N/A
S237	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S238	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S239	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S240	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	43		1R	N/A
S241	TERMINAL UNIT	1.5 kVA	277 V	1			MH2-T	15		1R	N/A
S242	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	43		1R	N/A
S243	TERMINAL UNIT	2.0 kVA	277 V	1			MH2-T	17		1R	N/A
S244	TERMINAL UNIT	5.0 kVA	277 V	1			MH2-T	19		1R	N/A
S245	TERMINAL UNIT	6.0 kVA	277 V	1			MH2-T	21		1R	N/A
S246	TERMINAL UNIT	3.0 kVA	277 V	1			MH2-T	23		1R	N/A
S247	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S248	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S249	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S250	TERMINAL UNIT	1.0 kVA	277 V	1			MH2-T	25		1R	N/A
S251	TERMINAL UNIT	0.2 kVA	120 V	1			PL2C-T	31		1R	N/A
S252	TERMINAL UNIT	11.0 kVA	277 V	1			MH2-T	27		1R	N/A
S253	TERMINAL UNIT	13.0 kVA	480 V	2			MH2-T	29,31		1R	N/A
S254	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A
S255	TERMINAL UNIT	0.2 kVA	120 V	1			PL2A-T	45		1R	N/A

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

			CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT INFO		
NAME	DESCRIPTION	LOAD	VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT	FUSE	NEMA ENCLOSURE	STARTER TYPE
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	2		BY OTHER DISCIPLINE	VFD
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	3		BY OTHER DISCIPLINE	VFD
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	4		BY OTHER DISCIPLINE	VFD
AHU-1-1	AIR HANDLING UNIT	22.4 kVA	480 V	3	1	20	MDH1	5		BY OTHER DISCIPLINE	VFD
AHU-1-1 ELECTRIC HEAT	AIR HANDLING UNIT	48.0 kVA	480 V	3			MDH1	1		1R	N/A
CH-1-1	CHILLER	202.5 kVA	480 V	3			CO2DH	1		3R	N/A
CH-1-2	CHILLER	0.0 kVA	480 V	3			CO2DH	2		3R	N/A
EF-2-1	EXHAUST FAN	0.8 kVA	120 V	1	1	0.25	PL1A	3		MOTOR TOGGLE SWITCH	N/A
EF-R-1	EXHAUST FAN	6.3 kVA	480 V	3	1	5	MH4-T	22,24,26		BY OTHER DISCIPLINE	FVNR
ELEV-1	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	7,9,11		3R	N/A
ELEV-2	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	13,15,17		3R	N/A
ELEV-3	ELEVATOR	10.8 kVA	480 V	3	1	10	OSH1-T	19,21,23		3R	N/A
ERU-1-1 (EXHAUST)	ENERGY RECOVERY UNIT	11.6 kVA	480 V	3	1	10	MDH1	7		BY OTHER DISCIPLINE	VFD
ERU-1-1 (SUPPLY)	ENERGY RECOVERY UNIT	11.6 kVA	480 V	3	1	10	MDH1	6		BY OTHER DISCIPLINE	VFD
FP-1	FIRE PUMP CONTROLLER	40.0 kVA	480 V	3			ESB 36" Main, 277 V/480 V, Three Phase, 4 Wires, Wye	1			
FRP-1-1	GENERATOR FUEL PUMP	0.9 kVA	208 V	3			PL1A	58,60,62		3R	N/A
FTR-1-1	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	6		INTEGRAL	N/A
FTR-1-2	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	6		INTEGRAL	N/A
FTR-1-3	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	7		INTEGRAL	N/A
FTR-1-4	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	7		INTEGRAL	N/A
FTR-1-5	BASEBOARD HEATER	1.5 kVA	277 V	1			MDH1	8		INTEGRAL	N/A
FTR-1-6	BASEBOARD HEATER	1.5 kVA	277 V	1			MH1-T	37		INTEGRAL	N/A
FTR-1-7	BASEBOARD HEATER	1.5 kVA	277 V	1			MH1-T	37		INTEGRAL	N/A
FTR-1-8	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	33		INTEGRAL	N/A
FTR-1-9	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	35		INTEGRAL	N/A
FTR-1-10	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	35		INTEGRAL	N/A
FTR-1-11	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	39		INTEGRAL	N/A
FTR-1-12	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	39		INTEGRAL	N/A
FTR-1-13	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	41		INTEGRAL	N/A
FTR-1-13	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	41		INTEGRAL	N/A
FTR-1-14	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	43		INTEGRAL	N/A
FTR-1-19	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	43		INTEGRAL	N/A
FTR-1-20	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	45		INTEGRAL	N/A
FTR-1-21	BASEBOARD HEATER	2.0 kVA	277 V	1			MH1-T	45		INTEGRAL	N/A
HT-1	HEAT TRACE	0.3 kVA	120 V	1			PL1A	41		3R	N/A
PCHP-1-1	PUMP	11.6 kVA	480 V	3	1	10	MDH1	2		BY OTHER DISCIPLINE	VFD
PCHP-1-2	PUMP	0.0 kVA	480 V	3	1	10	MDH1	3		BY OTHER DISCIPLINE	VFD
RCP-1-1	CIRCULATING PUMP	0.9 kVA	208 V	2	1	0.3	PL1A-T	39,41		1R	N/A
RCP-1-2	CIRCULATING PUMP	0.9 kVA	120 V	1	1	0.3	PL1A	1		MOTOR TOGGLE SWITCH	N/A
RCP-3-1	CIRCULATING PUMP	0.5 kVA	120 V	1	1	0.125	PL3A-T	43		MOTOR TOGGLE SWITCH	N/A
RTU-R-1	ROOFTOP UNIT	253.2 kVA	480 V	3			MSB-T	3		3R	N/A
RTU-R-2	ROOFTOP UNIT	156.9 kVA	480 V	3			MSB-T	4		3R	N/A
RTU-R-3	ROOFTOP UNIT	156.9 kVA	480 V	3			MSB-T	5		3R	N/A
RTU-R-4	ROOFTOP UNIT	156.9 kVA	480 V	3			MSB-T	6		3R	N/A
SCHP-1-1	PUMP	11.6 kVA	480 V	3	1	10	MDH1	4		BY OTHER DISCIPLINE	VFD
SCHP-1-2	PUMP	0.0 kVA	480 V	3	1	10	MDH1	5		BY OTHER DISCIPLINE	VFD
SP-1-1	ELEVATOR SUMP PUMP	1.2 kVA	120 V	1	1	0.5	OS1-T	9		CNTRL PNL	N/A
SP-1-2	ELEVATOR SUMP PUMP	2.5 kVA	208 V	3	1	1.5	OS1-T	11,13,15		CNTRL PNL	N/A
SSAC-1-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	6		3R	N/A
SSAC-1-2	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	4		3R	N/A
SSAC-1-3	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	5		3R	N/A
SSAC-1-4	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	6		3R	N/A
SSAC-2-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	7		3R	N/A
SSAC-2-2	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	8		3R	N/A
SSAC-2-3	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL1	9		3R	N/A
SSAC-2-4	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	7		3R	N/A
SSAC-3-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	8		3R	N/A
SSAC-4-1	SPLIT SYSTEM	4.2 kVA	208 V	2			PDL4-T	9		3R	N/A
UH-1-1	UNIT HEATER	4.0 kVA	277 V	1			MH1-T	29		1R	N/A
UH-1-2	UNIT HEATER	4.0 kVA	277 V	1			MH1-T	31		1R	N/A
UH-1-3	UNIT HEATER	4.0 kVA	277 V	1			MH2	49		1R	N/A
UH-1-4	UNIT HEATER	1.5 kVA	120 V	1			PL1C-T	41		1R	N/A
UH-1-5	UNIT HEATER	1.5 kVA	120 V	1			PL1A	39		1R	N/A
WBP-1-1	BOOSTER PUMPS	4.8 kVA	480 V	3	2	3	MH1-T	1,3,5		1R	N/A
WH-1-1	WATER HEATER	30.0 kVA	480 V	3			MH1-T	47,49,51		1R	N/A
WH-1-2	WATER HEATER	54.0 kVA	480 V	3			MDH1	1		1R	N/A
WH-3-1	WATER HEATER	18.0 kVA	480 V	3			MH3-T	47,49,51		1R	N/A

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES:

1. STARTER:

FVNR - FULL VOLTAGE NON-REVERSING, COMBINATION MOTOR CONTROLLER/DISCONNECT
Y-D - REDUCED VOLTAGE WYE-DELTA STARTER. COMBINATION MOTOR CONTROLLER/DISCONNECT
2SP - 2 SPEED STARTER, COMBINATION CONTROLLER/DISCONNECT
VFD - VARIABLE FREQUENCY DRIVE

2. STARTERS WILL BE FURNISHED UNDER OTHER DIVISIONS OF THIS WORK AND MOUNTED AND INSTALLED BY DIVISION 26. COORDINATE THE LOCATIONS OF STARTERS OR OTHER CONTROL DEVICES WITH THE EQUIPMENT BEING CONTROLLED, AND IN ACCORDANCE WITH NFPA 70 - 2014. THE INSTALLED LOCATION OF MOTORS, EQUIPMENT, AND ASSOCIATEDDUCTWORK SHALL BE CONSIDERED TO ENSURE CLEARANCE, ACCESS, AND SIGHT REQUIREMENTS.

3. SEE ELECTRICAL EQUIPMENT SCHEDULES FOR CIRCUIT OCPD, CONDUCTOR, AND RACEWAY SIZES.

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

11/19/2020 4:15:49 PM

CAPE FEAR FD STONEWATER

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

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T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
Firm License No. F-0312

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: **E-502**

TI GMP SET

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 4

NAME	DESCRIPTION	LOAD	CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT INFO		STARTER TYPE
			VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT	FUSE	NEMA ENCLOSURE	
S400	TERMINAL UNIT	5.5 kVA	277 V	1			MH4-T	1	NF	1R	N/A
S401	TERMINAL UNIT	2.5 kVA	277 V	1			MH4-T	3	NF	1R	N/A
S402	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	5	NF	1R	N/A
S403	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	7	NF	1R	N/A
S404	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	9	NF	1R	N/A
S405	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	11	NF	1R	N/A
S406	TERMINAL UNIT	5.5 kVA	277 V	1			MH4-T	13	NF	1R	N/A
S407	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	15	NF	1R	N/A
S408	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	17	NF	1R	N/A
S409	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	19	NF	1R	N/A
S410	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	21	NF	1R	N/A
S411	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	23	NF	1R	N/A
S412	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	25	NF	1R	N/A
S413	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	27	NF	1R	N/A
S414	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	29	NF	1R	N/A
S415	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	31	NF	1R	N/A
S416	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	33	NF	1R	N/A
S417	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	35	NF	1R	N/A
S418	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	37	NF	1R	N/A
S419	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	39	NF	1R	N/A
S420	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	41	NF	1R	N/A
S421	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	2	NF	1R	N/A
S422	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	4	NF	1R	N/A
S423	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	6	NF	1R	N/A
S424	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	43	NF	1R	N/A
S425	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	45	NF	1R	N/A
S426	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	8	NF	1R	N/A
S427	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	10	NF	1R	N/A
S428	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	47	NF	1R	N/A
S429	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	12	NF	1R	N/A
S430	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	49	NF	1R	N/A
S431	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	14	NF	1R	N/A
S432	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	16	NF	1R	N/A
S433	TERMINAL UNIT	3.5 kVA	277 V	1			MH4-T	18	NF	1R	N/A
S434	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	51	NF	1R	N/A
S435	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	53	NF	1R	N/A
S436	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	55	NF	1R	N/A
S437	TERMINAL UNIT	6.5 kVA	277 V	1			MH4-T	57	NF	1R	N/A
S438	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	59	NF	1R	N/A
S439	TERMINAL UNIT	3.0 kVA	277 V	1			MH4-T	61	NF	1R	N/A
S440	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	63	NF	1R	N/A
S441	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	65	NF	1R	N/A
S442	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	67	NF	1R	N/A
S443	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	69	NF	1R	N/A
S444	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	71	NF	1R	N/A
S445	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	73	NF	1R	N/A
S446	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	75	NF	1R	N/A
S447	TERMINAL UNIT	2.0 kVA	277 V	1			MH4-T	77	NF	1R	N/A
S448	TERMINAL UNIT	1.5 kVA	277 V	1			MH4-T	79	NF	1R	N/A
S449	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	81	NF	1R	N/A
S450	TERMINAL UNIT	4.0 kVA	277 V	1			MH4-T	83	NF	1R	N/A
S451	TERMINAL UNIT	2.5 kVA	277 V	1			MH4-T	44	NF	1R	N/A
S452	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	46	NF	1R	N/A
S453	TERMINAL UNIT	1.0 kVA	277 V	1			MH4-T	48	NF	1R	N/A
S454	TERMINAL UNIT	0.2 kVA	120 V	1			PL4A-T	45	NF	1R	N/A
S455	TERMINAL UNIT	0.2 kVA	120 V	1			PL4A-T	45	NF	1R	N/A

TERMINAL UNIT CONNECTION SCHEDULE - LEVEL 3

NAME	DESCRIPTION	LOAD	CONNECTION INFO		MOTOR INFO		HOMERUN INFO		DISCONNECT INFO		STARTER TYPE
			VOLTAGE	NUMBER OF POLES	QUANTITY	HP	PANEL	CIRCUIT	FUSE	NEMA ENCLOSURE	
S300	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	1		1R	N/A
S301	TERMINAL UNIT	2.0 kVA	277 V	1			MH3-T	3		1R	N/A
S302	TERMINAL UNIT	3.5 kVA	277 V	1			MH3-T	5		1R	N/A
S303	TERMINAL UNIT	3.0 kVA	277 V	1			MH3-T	7		1R	N/A
S304	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	9		1R	N/A
S305	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S306	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S307	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S308	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S309	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S310	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S311	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S312	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S313	TERMINAL UNIT	4.5 kVA	277 V	1			MH3-T	11		1R	N/A
S314	TERMINAL UNIT	4.5 kVA	277 V	1			MH3-T	13		1R	N/A
S315	TERMINAL UNIT	1.5 kVA	277 V	1			MH3-T	15		1R	N/A
S316	TERMINAL UNIT	6.0 kVA	277 V	1			MH3-T	17		1R	N/A
S317	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S318	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S319	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	37		1R	N/A
S320	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	39		1R	N/A
S321	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S322	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S323	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S324	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S325	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S326	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S327	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S328	TERMINAL UNIT	2.0 kVA	277 V	1			MH3-T	19		1R	N/A
S329	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	21		1R	N/A
S330	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	23		1R	N/A
S331	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S332	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	25		1R	N/A
S333	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	27		1R	N/A
S334	TERMINAL UNIT	0.2 kVA	120 V	1			PL3B-T	41		1R	N/A
S335	TERMINAL UNIT	1.5 kVA	277 V	1			MH3-T	29		1R	N/A
S336	TERMINAL UNIT	2.0 kVA	277 V	1			MH3-T	31		1R	N/A
S337	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A
S338	TERMINAL UNIT	3.5 kVA	277 V	1			MH3-T	33		1R	N/A
S339	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	35		1R	N/A
S340	TERMINAL UNIT	5.5 kVA	277 V	1			MH3-T	37		1R	N/A
S341	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S342	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S343	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S344	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S345	TERMINAL UNIT	1.0 kVA	277 V	1			MH3-T	39		1R	N/A
S346	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	45		1R	N/A
S347	TERMINAL UNIT	3.5 kVA	277 V	1			MH3-T	41		1R	N/A
S348	TERMINAL UNIT	4.0 kVA	277 V	1			MH3-T	43		1R	N/A
S349	TERMINAL UNIT	4.5 kVA	277 V	1			MH3-T	45		1R	N/A
S350	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	47		1R	N/A
S351	TERMINAL UNIT	0.2 kVA	120 V	1			PL3C-T	47		1R	N/A
S352	TERMINAL UNIT	0.2 kVA	120 V	1			PL3A-T	47		1R	N/A

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-503

TI GMP SET

11/19/2020 4:15:50 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

DISTRIBUTION PANELBOARD "UPDL2A" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 600A/3P MCB **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:**

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
1	UPL1A	3	250 A	200 A	39.9 kVA		SEE RISER...
2	UPL2A	3	250 A	200 A	34.3 kVA		SEE RISER...
3	SERVER RACK BUSSWAY (ROW #1)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
4	SERVER RACK BUSSWAY (ROW #2)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
5	SPACE	--	--	--	0.0 kVA	--	--
6	SPACE	--	--	--	0.0 kVA	--	--
7	SPACE	--	--	--	0.0 kVA	--	--
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 206 A **CONNECTED kVA:** 74.2 kVA
CALCULATED AMPERES: 179 A **CALCULATED kVA:** 64.5 kVA

Notes:
1. 50% DEMAND FACTOR IS APPLIED TO SERVER RACK LOADS AS SERVER RACKS HAVE REDUNDANT FEEDS FROM PANEL "UPDL2B".

DISTRIBUTION PANELBOARD "MDH1" SCHEDULE: SECTION 1

VOLTS: 480/277 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** **LOCATION:** ELECTRICAL 110

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	Load	REMARKS	FEEDER TAG
1	WH-1-2	3	100 A	100 A	54.0 kVA		100
2	VFD-PCHP-1-1 (10 HP)	3	100 A	40 A	11.6 kVA	NOTE 1	40
3	VFD-PCHP-1-2 (10 HP)	3	100 A	40 A	0.0 kVA	NOTE 1	40
4	VFD-SCHP-1-1 (10 HP)	3	100 A	40 A	11.6 kVA	NOTE 1	40
5	VFD-SCHP-1-2 (10 HP)	3	100 A	40 A	0.0 kVA	NOTE 1	40
6	FTR-1-1 & FTR-1-2	1	100 A	20 A	3.0 kVA		20
7	FTR-1-3 & FTR-1-4	1	100 A	20 A	3.0 kVA		20
8	FTR-1-5	1	100 A	20 A	1.5 kVA		20
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 489 A **CONNECTED kVA:** 406.5 kVA
CALCULATED AMPERES: 489 A **CALCULATED kVA:** 406.5 kVA

Notes:
1. 50% DEMAND FACTOR IS APPLIED TO CHILLER LOADS AS ONLY ONE CHILLER WILL OPERATE AT A TIME.

SWITCHBOARD "ESB" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 2000 A **MOUNTING:** PAD
PHASES: 3 **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:** 65KAIC

SECTION NUMBER / CIRCUIT NUMBER	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
SECTION MAIN / 1	MAIN (1 OF 2)	3	800 A	800 A	0.0 kVA	LSIG*, EO, EI	SEE RISER...
SECTION MAIN / 2	MAIN (2 OF 2)	3	800 A	800 A	0.0 kVA	LSIG*, EO, EI	SEE RISER...
SECTION 1 / 3	GDS-EOC	3	1600 A	1600 A	0.0 kVA		SEE RISER...
SECTION 2 / 4	ATS-E	3	150 A	100 A	18.0 kVA		SEE RISER...
SECTION 3 / 5	ATS-CO1	3	600 A	600 A	406.5 kVA		SEE RISER...
SECTION 3 / 6	ATS-CO2	3	600 A	600 A	582.3 kVA		SEE RISER...
SECTION 4 / 7	ECB-ATS-OS-T	3	225 A	200 A	38.4 kVA		SEE RISER...
SECTION 5 / 8	FIRE PUMP CONTROLLER	3	100 A	70 A	40.0 kVA		SEE RISER...
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 1223 A **CONNECTED kVA:** 1016.8 kVA
CALCULATED AMPERES: 1162 A **CALCULATED kVA:** 965.8 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. CONTROL POWER FOR ELECTRICALLY OPERATED CIRCUIT BREAKERS SHALL BE DERIVED FROM THE CONTROL POWER TRANSFORMERS FROM EACH SOURCE.
3. CIRCUIT BREAKERS NOTED WITH ASTERISKS (*) SHALL BE LSIG TYPE WITH GROUND FAULT ALARM ONLY.

DISTRIBUTION PANELBOARD "UPDL2B" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 600A/3P MCB **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:**

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
1	UPL1B	3	250 A	200 A	18.0 kVA		SEE RISER...
2	UPL2B	3	250 A	200 A	27.4 kVA		SEE RISER...
3	SERVER RACK BUSSWAY (ROW #1)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
4	SERVER RACK BUSSWAY (ROW #2)	3	150 A	125 A	17.1 kVA	NOTE 1	125N
5	SPACE	--	--	--	0.0 kVA	--	--
6	SPACE	--	--	--	0.0 kVA	--	--
7	SPACE	--	--	--	0.0 kVA	--	--
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 126 A **CONNECTED kVA:** 45.5 kVA
CALCULATED AMPERES: 104 A **CALCULATED kVA:** 37.5 kVA

Notes:
1. 50% DEMAND FACTOR IS APPLIED TO SERVER RACK LOADS AS SERVER RACKS HAVE REDUNDANT FEEDS FROM PANEL "UPDL2A".

DISTRIBUTION PANELBOARD "MDH1" SCHEDULE: SECTION 2

VOLTS: 480/277 Wye **BUS:** 600 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** **LOCATION:** ELECTRICAL 110

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	Load	REMARKS	FEEDER TAG
1	AHU-1-1 ELECTRIC HEAT	3	100 A	100 A	48.0 kVA		100
2	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
3	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
4	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
5	VFD-AHU-1-1 (20 HP)	3	100 A	50 A	22.4 kVA		50
6	VFD-ERU-1-1 EXHAUST (10 HP)	3	100 A	40 A	11.6 kVA		40
7	VFD-ERU-1-1 SUPPLY (10 HP)	3	100 A	40 A	11.6 kVA		40
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 194 A **CONNECTED kVA:** 160.9 kVA
CALCULATED AMPERES: 194 A **CALCULATED kVA:** 160.9 kVA

Notes:

SWITCHBOARD "NSB" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 1600 A **MOUNTING:** PAD
PHASES: 3 **LOCATION:** ELECTRICAL 110
WIRE: 4 **SCCR:** 35KAIC

SECTION NUMBER / CIRCUIT NUMBER	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
SECTION MAIN / 1	MAIN	3	1600 A	1600 A	0.0 kVA	LSIG	SEE RISER DIAGRAM
SECTION 1 / 2	ATS-CO1	3	600 A	600 A	406.5 kVA	LSIG	SEE RISER DIAGRAM
SECTION 1 / 3	ATS-CO2	3	600 A	600 A	582.3 kVA	LSIG	SEE RISER DIAGRAM
SECTION 1 / 4	ATS-E	3	150 A	100 A	18.0 kVA	LSIG	SEE RISER DIAGRAM
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 1129 A **CONNECTED kVA:** 938.4 kVA
CALCULATED AMPERES: 1068 A **CALCULATED kVA:** 887.8 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. PROVIDE ARC ENERGY REDUCTION SYSTEM AND POWER MONITOR AT MAIN DEVICE.

DISTRIBUTION PANELBOARD "PDL1" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 400A/3P MCB **LOCATION:** ELECTRICAL 110
WIRE: 4 **SCCR:**

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL1A	3	200 A	31.1 kVA		SEE RISER DIAGRAM
2	PL1B	3	200 A	27.0 kVA		SEE RISER DIAGRAM
3	PL1C	3	100 A	9.7 kVA		SEE RISER DIAGRAM
4	PL2A	3	150 A	10.2 kVA		SEE RISER DIAGRAM
5	PL2B	3	100 A	8.1 kVA		SEE RISER DIAGRAM
6	SSAC-1-1	2	30 A	4.2 kVA		30N
7	SSAC-2-1	2	30 A	4.2 kVA		30N
8	SSAC-2-2	2	30 A	4.2 kVA		30N
9	SSAC-2-3	2	30 A	4.2 kVA		30N
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 285 A 102.8 kVA
CALCULATED AMPERES: 222 A 79.9 kVA

Notes:

DISTRIBUTION PANELBOARD "CO2DH" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 1200 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **LOCATION:** ELECTRICAL 207
WIRE: 4 **SCCR:** 65KAIC

CKT	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
1	DS-CH-1-1	3	250 A	250 A	202.5 kVA	NOTE 2	SEE RISER...
2	DS-CH-1-2	3	250 A	250 A	0.0 kVA	NOTE 2	SEE RISER...
3	UPS-A	3	400 A	250 A	108.4 kVA		SEE RISER...
4	UPS-B	3	400 A	250 A	79.7 kVA		SEE RISER...
5	T-PDL1	3	250 A	150 A	102.8 kVA		SEE RISER...
6	MH2	3	250 A	150 A	80.0 kVA		SEE RISER...
7	LH2	3	100 A	100 A	8.9 kVA		SEE RISER...
8	SPACE	--	--	--	0.0 kVA	--	--
9	SPACE	--	--	--	0.0 kVA	--	--
10	SPACE	--	--	--	0.0 kVA	--	--
11	SPACE	--	--	--	0.0 kVA	--	--
12	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 618 A **CONNECTED kVA:** 513.9 kVA
CALCULATED AMPERES: 557 A **CALCULATED kVA:** 463.3 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. 50% DEMAND FACTOR IS APPLIED TO CHILLER LOADS AS ONLY ONE CHILLER WILL OPERATE AT A TIME.

PANEL SCHEDULE LEGEND		
UPDL2A	MDH1	ESB
UPDL2B	MDH1	NSB
	PDL1	CO2DH

Newcomb & Boyd
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-504

TI GMP SET

11/19/2020 4:15:52 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

PANELBOARD "PL1C" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 100 A **MOUNTING:** RECESSED
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** HUB 153

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
153 HUB REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4						2				
153 HUB REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.7				4				
153 HUB FB.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.7		6				
153 HUB FB.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7						8				
153 HUB FB.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.7				10				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.5		12				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.5						14				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.5				16				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.4		18				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.4						20				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.5				22				
152 HUB KITCHEN...	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.5		24				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.7						26				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.7				28				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.5		30				
152 HUB KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.5						32				
152 HUB KIT. ICE...	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.2				34				
152 HUB KIT. ICE...	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.2		36				
268 HUB MEZZ. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.4						38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	3.6		3.3		2.8						

CONNECTED AMPERES: 27.0 A **CONNECTED kVA:** 9.7 kVA
CALCULATED AMPERES: 27.0 A **CALCULATED kVA:** 9.7 kVA

NOTES:

PANELBOARD "PL2A" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 150 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
277 COFFEE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.5	0.4					2	1	20 A	2#12 & 1#12G ~ 0.75"C	269 CORR. REC.
277 COFFEE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.5	0.4			4	1	20 A	2#12 & 1#12G ~ 0.75"C	269 ELECTRICAL REC.
277 COFFEE FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.5	0.7	6	1	20 A	2#12 & 1#12G ~ 0.75"C	271 SERVER REC
277 COFFEE FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.5	0.5					8	1	20 A	2#12 & 1#12G ~ 0.75"C	271 SERVER SEC-2
277 COFFEE ICE MAKER	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.2	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75"C	271 SERVER BAS
207 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.5		12				
287 JCC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7						14				
287 JCC REC. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.5				16				
283 COMMAND REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.7		18				
283 COMMAND REC. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.7						20				
284 CITY REC. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.5				22				
284 CITY REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.5		24				
286 CONF. REC. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.7						26				
285 CONF. REC. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.5				28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	4.1		3.2		3.0						

CONNECTED AMPERES: 28.4 A **CONNECTED kVA:** 10.2 kVA
CALCULATED AMPERES: 28.4 A **CALCULATED kVA:** 10.2 kVA

NOTES:

PANELBOARD "PL2B" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 100 A **MOUNTING:** RECESSED
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** CORRIDOR 269

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
274 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.5	0.5					2	1	20 A	2#12 & 1#12G ~ 0.75"C	270 RECEPT. REC.
273 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.5	0.5			4	1	20 A	2#12 & 1#12G ~ 0.75"C	273, 274 TLT. AUTO FIX.
276 PANTRY REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.4		6				
267, 270 LOBBY REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	1.1						8				
275 EOC STOR. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.4				10				
278 COPY/PRINT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.5		12				
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7						14				
280 JIC REC. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	15			1.1				16				
281 EPIC REC. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.5		18				
281 EPIC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.5						20				
282 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.7				22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	3.4		3.2		1.4						

CONNECTED AMPERES: 22.4 A **CONNECTED kVA:** 8.1 kVA
CALCULATED AMPERES: 22.4 A **CALCULATED kVA:** 8.1 kVA

NOTES:

PANELBOARD "PL1A" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
RCP-1-2 (0.3 HP)	2#12 & 1#12G ~ 0.75"C	15 A	1	1	0.9	0.5					2	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
EF-2-1 (0.25 HP)	2#12 & 1#12G ~ 0.75"C	15 A	1	3			0.8	0.5			4	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
166 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.4	0.5	6	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
165 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.4	0.5					8	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
163 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.4	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
163 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.9	0.5	12	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
162, 178,177 BUNK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.5	0.5					14	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
177 BUNK/LOUNGE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			1.1	0.5			16	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
177 BUNK/LOUNGE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17					1.1	0.5	18	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
161 HVAC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.5	0.5					20	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
168 ELECTRICAL REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.2	0.5			22	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
EXTERIOR REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.4	0.5	24	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
UTILITY YARD REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.9	0.5					26	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
179 TLT, 180 LOCK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.5	0.5			28	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
179 TLT, 180 LOCK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4	0.5	30	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
179 TLT. AUTO...	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.5	0.5					32	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
175 THINK TANK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	33			1.5	0.5			34	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
110 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.5	0.5	36	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
153 HUB REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.5	0.5					38	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
UH-1-5	2#12 & 1#12G ~ 0.75"C	20 A	1	39			1.5	0.3			40	2	50 A	4#6 & 1#6G ~ 1.25"C	GDS-T TWIST LOCK REC.
HEAT TRACE (NOTE 1)	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.3	0.3	42				
S103-4,106-9	2#12 & 1#12G ~ 0.75"C	20 A	1	43	1.2	0.5					44	1	20 A	2#12 & 1#12G ~ 0.75"C	GDS-T BATT. CHAR.
S110-11,13-14,16	2#12 & 1#12G ~ 0.75"C	20 A	1	45			1.0	0.3			46	2	50 A	4#6 & 1#6G ~ 1.25"C	GDS-EOC TWIST LOCK REC.
BFP HOT BOX	2#10 & 1#10G ~ 1"C	20 A	1	47					0.5	0.3	48				
BFP HOT BOX	2#10 & 1#10G ~ 1"C	20 A	1	49	0.5	0.5					50	1	20 A	2#12 & 1#12G ~ 0.75"C	GDS-EOC BATT. CHAR.
				51				0.5			52	1	20 A	2#12 & 1#12G ~ 0.75"C	161 HVAC BAS PNL.
				53						0.5	54	1	20 A	2#12 & 1#12G ~ 0.75"C	161 HVAC BAS PNL.
				55		0.5					56	1	20 A	2#12 & 1#12G ~ 0.75"C	161 HVAC BAS PNL.
				57				0.3			58				
				59						0.3	60	3	15 A	3#12 & 1#12G ~ 0.75"C	FRP-1-1 (0.5 HP)
				61		0.3					62				
				63							64				
				65							66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79							80				
				81							82				
				83							84				
				PHASE TOTALS (kVA):	11.2		11.2		8.6						

CONNECTED AMPERES: 86.3 A **CONNECTED kVA:** 31.1 kVA
CALCULATED AMPERES: 86.3 A **CALCULATED kVA:** 31.1 kVA

NOTES:
1. PROVIDE GFPE TYPE CIRCUIT BREAKER.

PANELBOARD "PL1B" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** RECESSED
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** STORAGE 172

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
169 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	0.1					2	2	30 A	2#10 & 1#10G ~ 0.75"C	172 STOR. DRYER
168 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.4	0.1			4				
170 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.4	0.2	6	1	20 A	2#12 & 1#12G ~ 0.75"C	172 STOR. WASHER
157, 158 RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7	0.4					8	1	20 A	2#12 & 1#12G ~ 0.75"C	137 ENT, 153 HUB REC.
162, 171 RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.9	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75"C	137 ENT. ADO
159, 160 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.5	0.5	12	1	20 A	2#12 & 1#12G ~ 0.75"C	159 TLT. AUTO...
159, 160 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.4	0.4					14	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. REC.
161 BUNK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			1.1	1.2			16	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
161 BUNK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17					1.1	0.5	18	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
EXTERIOR REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.4	0.5					20	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.5	0.5			22	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.5	0.5	24	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.5	0.5					26	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
171 KITCHEN FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.5	0.5			28	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
171 KITCHEN ICE...	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.2	0.5	30	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
171 KITCHEN HOOD	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.5	0.5					32	1	20 A	2#12 & 1#12G ~ 0.75"C	167 911 CALL CN. DESK
171 KITCHEN RANGE	2#6 & 1#10G ~ 1"C	40 A	2	33			4.6				34				
				35					4.6		36				
171 KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.4						38				
171 KITCHEN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.7				40				
173 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.4		42				
174 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.4						44				
				45							46				
				47							48				
				49							50				
				51							52				
				53							54				
				PHASE TOTALS (kVA):	5.8		11.4		9.8						

CONNECTED AMPERES: 75.0 A **CONNECTED kVA:** 27.0 kVA
CALCULATED AMPERES: 60.7 A **CALCULATED kVA:** 21.9 kVA

NOTES:

PANEL SCHEDULE LEGEND		
	PL1C	PL1A
	PL2A	PL1B
	PL2B	

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-505

TI GMP SET

11/19/2020 4:15:55 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE (1) INCH LONG AT THE ORIGINAL DRAWING SCALE

PANELBOARD "LH1" SCHEDULE

VOLTS: 480/277 Wye | BUS: 125 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: MLO | SECTIONS: 1
WIRE: 4 | SCCR: 18KA | LOCATION: ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
EXTERIOR LIGHTING		20 A	1	1	0.2			2				
				3				4				
				5				6				
				7				8				
				9				10				
LTG - LVL 1 CORE		20 A	1	11			2.7	12				
LTG - LVL 1 OFFICES		20 A	1	13	2.2			14				
				15				16				
				17				18				
				19				20				
				21				22				
				23				24				
				25				26				
				27				28				
				29				30				
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
PHASE TOTALS (kVA):					2.4	0.0	2.7					

CONNECTED AMPERES: 6.1 A | CONNECTED kVA: 5.1 kVA
CALCULATED AMPERES: 6.1 A | CALCULATED kVA: 5.1 kVA

NOTES:

PANELBOARD "UPL1B" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | BUS: 225 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: MLO | SECTIONS: 2
WIRE: 4 | SCCR: 10KA | LOCATION: ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	1	0.5			2				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	3		0.5		4				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	5			0.5	6				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.5			8				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	9		0.5		10				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	11			0.5	12				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.5			14				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	15		0.5		16				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	17			0.5	18				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.5			20				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	21		0.5		22				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	23			0.5	24				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	25	0.5			26				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	27		0.5		28				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	29			0.5	30				
170 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	31	0.4			32				
169 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	33		0.4		34				
170 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	35			0.4	36				
153 HUB TV	2#12 & 1#12G ~ 0.75°C	20 A	1	37	0.7			38				
167 911 CALL CENTER...	2#12 & 1#12G ~ 0.75°C	20 A	1	39		1.5		40				
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	41			0.7	42				
PHASE TOTALS (kVA):					6.1	6.3	5.6					

CONNECTED AMPERES: 50.0 A | CONNECTED kVA: 18.0 kVA
CALCULATED AMPERES: 50.0 A | CALCULATED kVA: 18.0 kVA

NOTES:

PANELBOARD "UPL1A" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye | BUS: 225 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: MLO | SECTIONS: 2
WIRE: 4 | SCCR: 10KA | LOCATION: ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
153 HUB TV	2#12 & 1#12G ~ 0.75°C	20 A	1	1	1.5	1.2		2	1	20 A	2#12 & 1#12G ~ 0.75°C	167 911 CALL CN. DESK
167 911 CALL CENTER...	2#12 & 1#12G ~ 0.75°C	20 A	1	3		1.5		4				
167 911 CALL CN. TV	2#12 & 1#12G ~ 0.75°C	20 A	1	5			1.5	6				
166 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	7	0.4			8				
165 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	9		0.4		10				
164 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	11			0.4	12				
163 OFFICE REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.7			14				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	15		0.5		16				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	17			1.2	18				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	19	1.2			20				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	21		1.2		22				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	23			1.2	24				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	25	1.2			26				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	27		1.2		28				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	29			1.2	30				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	31	1.2			32				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	33		1.2		34				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	35			1.2	36				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	37	1.2			38				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	39		1.2		40				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	41			1.2	42				
PHASE TOTALS (kVA):					14.8	12.2	12.9					

CONNECTED AMPERES: 110.8 A | CONNECTED kVA: 39.9 kVA
CALCULATED AMPERES: 110.8 A | CALCULATED kVA: 39.9 kVA

NOTES:

PANELBOARD "LH2" SCHEDULE

VOLTS: 480/277 Wye | BUS: 125 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: MLO | SECTIONS: 1
WIRE: 4 | SCCR: 18KA | LOCATION: ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
LIGHTING EOC MAIN RM		20 A	1	1	2.8			2				
LIGHTING EOC CORE		20 A	1	3		2.4		4				
HUB HIGH BAY...		20 A	1	5			2.7	6				
BLDG SIGNAGE NORTH		20 A	1	7	0.5			8				
BLDG SIGNAGE SOUTH		20 A	1	9		0.5		10				
				11				12				
				13				14				
				15				16				
				17				18				
				19				20				
				21				22				
				23				24				
				25				26				
				27				28				
				29				30				
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
PHASE TOTALS (kVA):					3.3	2.9	2.7					

CONNECTED AMPERES: 10.8 A | CONNECTED kVA: 8.9 kVA
CALCULATED AMPERES: 10.8 A | CALCULATED kVA: 8.9 kVA

NOTES:

PANELBOARD "UPL1B" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | BUS: 225 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: MLO | SECTIONS: 2
WIRE: 4 | SCCR: 10KA | LOCATION: ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	43	0.5			44				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	45		0.5		46				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	47			0.5	48				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	49	0.5			50				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	51		0.5		52				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	53			0.5	54				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	55	0.5			56				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	57		0.5		58				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	59			0.5	60				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	61	0.5			62				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	63		0.5		64				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	65			0.5	66				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	67	0.5			68				
				69				70				
				71				72				
				73				74				
				75				76				
				77				78				
				79				80				
				81				82				
				83				84				
PHASE TOTALS (kVA):					2.5	2.0	2.0					

CONNECTED AMPERES: 18.0 A | CONNECTED kVA: 6.5 kVA
CALCULATED AMPERES: 18.0 A | CALCULATED kVA: 6.5 kVA

NOTES:

PANELBOARD "UPL1A" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye | BUS: 225 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: MLO | SECTIONS: 2
WIRE: 4 | SCCR: 10KA | LOCATION: ELECTRICAL 110

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	43	1.2			44				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	45		1.2		46				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	47			1.2	48				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	49	1.2			50				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	51		1.2		52				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	53			1.2	54				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	55	1.2			56				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	57		1.2		58				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	59			1.2	60				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	61	1.2			62				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	63		1.2		64				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	65			1.2	66				
167 911 CALL CN. DESK	2#12 & 1#12G ~ 0.75°C	20 A	1	67	1.2			68				
				69				70				
				71				72				
				73				74				
				75				76				
				77				78				
				79				80				
				81				82				
				83				84				
PHASE TOTALS (kVA):					6.2	4.9	4.9					

CONNECTED AMPERES: 44.4 A | CONNECTED kVA: 16.0 kVA
CALCULATED AMPERES: 44.4 A | CALCULATED kVA: 16.0 kVA

NOTES:

PANELBOARD "EL2" SCHEDULE

VOLTS: 120/208 Wye | BUS: 100 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: 50A/3P MCB | SECTIONS: 1
WIRE: 4 | SCCR: 10KA | LOCATION: ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
279, 287 FS DAMPER	2#12 & 1#12G ~ 0.75°C	20 A	1	1	0.6			2				
271 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75°C	20 A	1	3		0.5		4				
EG2 LIGHTS, REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	5			0.5	6				
EG2 JACKET WATER HEATER	2#10 & 1#10G ~ 0.75°C	30 A	2	7	3.1			8				
				9		3.1		10				
EG2 BATT. CHAR.	2#12 & 1#12G ~ 0.75°C	20 A	1	11			0.5	12				
EG1 LIGHTS, REC.	2#12 & 1#12G ~ 0.75°C	20 A	1	13	0.5			14				
EG1 JACKET WATER HEATER	2#10 & 1#10G ~ 0.75°C	30 A	2	15		3.1		16				
				17			3.1	18				
EG1 BATT. CHAR.	2#12 & 1#12G ~ 0.75°C	20 A	1	19	0.5			20				
				21				22				
				23				24				
				25				26				
				27				28				
				29				30				
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
PHASE TOTALS (kVA):					4.7	6.7	4.1					

CONNECTED AMPERES: 43.2 A | CONNECTED kVA: 15.6 kVA
CALCULATED AMPERES: 43.2 A | CALCULATED kVA: 15.6 kVA

NOTES:

PANELBOARD "ELH2" SCHEDULE

VOLTS: 480/277 Wye | BUS: 125 A | MOUNTING: SURFACE
PHASES: 3 | MAIN: MLO | SECTIONS: 1
WIRE: 4 | SCCR: 18KA | LOCATION: ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A	B	C	CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				1	4.7			2				
T-EL2	SEE RISER DIAGRAM	30 A	3	3		6.7		4				
				5			4.1	6				
EXTERIOR LIGHTING		20 A	1	7	0.2			8				
LIGHTING STAIR 3		20 A	1	9		0.1		10				
LIGHTING EOC LVL 1		20 A	1	11			1.2	12				
LTG - HUB		20 A	1	13	0.1			14				
LIGHTING EOC LVL 2		20 A	1	15		0.8		16				
				17				18				
				19				20				
				21				22				
				23				24				
				25				26				
				27				28				
				29				30				
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
PHASE TOTALS (kVA):					5.0	7.7	5.3					

CONNECTED AMPERES: 21.6 A | CONNECTED kVA: 18.0 kVA
CALCULATED AMPERES: 21.6 A | CALCULATED kVA: 18.0 kVA

NOTES:

PANEL SCHEDULE LEGEND		
LH1	UPL1B	UPL1A
LH2	UPL1B	UPL1A
	EL2	ELH2

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-506

TI GMP SET

11/19/2020 4:15:58 PM

1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

PANELBOARD "UPL2B" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.7						44				
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	45			0.5				46				
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	47					0.7		48				
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	49	0.7						50				
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.7				52				
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	53					0.7		54				
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	55	0.4						56				
279 EOC TV	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.7				58				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	59					1.4		60				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	61	1.4						62				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	63			1.4				64				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	65					1.4		66				
280 JIC, 281 JIC TV	2#12 & 1#12G ~ 0.75"C	20 A	1	67	1.5						68				
284 CITY FB	2#12 & 1#12G ~ 0.75"C	20 A	1	69			0.7				70				
285 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	71					0.4		72				
286 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	73	0.4						74				
287 JCC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	75			1.1				76				
				77							78				
				79							80				
				81							82				
				83							84				
			PHASE TOTALS (kVA):		5.0		5.2		4.6						

CONNECTED AMPERES: 41.0 A **CONNECTED kVA:** 14.8 kVA
CALCULATED AMPERES: 41.0 A **CALCULATED kVA:** 14.8 kVA

NOTES:

PANELBOARD "UPL2A" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
271 RECEPT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4						2				
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	3			1.5				4				
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	5					1.5		6				
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	7	1.5						8				
275 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A	1	9			1.5				10				
278 COPY/PRINT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.2		12				
278 COPY/PRINT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.2						14				
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.7				16				
280 JIC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.7		18				
281 EPIC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.7						20				
282 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.4				22				
283 CMD FB	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.7		24				
285 SELECTIVE SIGNAL	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.2						26				
286 CONF, 287 JCC TV	2#12 & 1#12G ~ 0.75"C	20 A	1	27			1.5				28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
			PHASE TOTALS (kVA):		11.4		12.3		10.6						

CONNECTED AMPERES: 95.2 A **CONNECTED kVA:** 34.3 kVA
CALCULATED AMPERES: 76.9 A **CALCULATED kVA:** 27.7 kVA

NOTES:

PANELBOARD "MH2" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 250 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 18KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
S100	2#8 & 1#10G~0.75"C	35 A	1	1	6.5	0.0					2	1	20 A	--	SPARE
S101	2#8 & 1#10G~0.75"C	35 A	1	3			6.5	0.0			4	1	20 A	--	SPARE
S102	2#12 & 1#12G~0.75"C	15 A	1	5					1.0	0.0	6	1	20 A	--	SPARE
S105	2#12 & 1#12G~0.75"C	15 A	1	7	1.5	0.0					8	1	20 A	--	SPARE
S112	2#12 & 1#12G~0.75"C	15 A	1	9			2.0	0.0			10	1	20 A	--	SPARE
S115	2#6 & 1#6G~1.25"C	45 A	2	11					6.5	0.0	12	1	20 A	--	SPARE
				13	6.5	0.0					14	1	20 A	--	SPARE
S200	2#12 & 1#12G~0.75"C	15 A	1	15			1.0	0.0			16	1	20 A	--	SPARE
S201	2#12 & 1#12G~0.75"C	15 A	1	17					1.0	0.0	18	1	20 A	--	SPARE
S202	2#12 & 1#12G~0.75"C	20 A	1	19	3.0	0.0					20	1	20 A	--	SPARE
S203	2#12 & 1#12G~0.75"C	15 A	1	21			2.5	0.0			22	1	20 A	--	SPARE
S204	2#12 & 1#12G~0.75"C	15 A	1	23					2.0	0.0	24	1	20 A	--	SPARE
S205	2#12 & 1#12G~0.75"C	15 A	1	25	2.5	0.0					26	--	--	--	SPACE
S206	2#12 & 1#12G~0.75"C	20 A	1	27			3.0	0.0			28	--	--	--	SPACE
S207	2#8 & 1#10G~0.75"C	35 A	1	29					6.5	0.0	30	--	--	--	SPACE
S208	2#8 & 1#10G~0.75"C	40 A	1	31	7.0	0.0					32	--	--	--	SPACE
S209	2#12 & 1#12G~0.75"C	20 A	1	33			3.0	0.0			34	--	--	--	SPACE
S210	2#12 & 1#12G~0.75"C	15 A	1	35					2.0	0.0	36	--	--	--	SPACE
S211	2#12 & 1#12G~0.75"C	15 A	1	37	1.0	0.0					38	--	--	--	SPACE
S212	2#12 & 1#12G~0.75"C	15 A	1	39			2.0	0.0			40	--	--	--	SPACE
S213	2#12 & 1#12G~0.75"C	15 A	1	41					2.0	0.0	42	--	--	--	SPACE
S214	2#12 & 1#12G~0.75"C	15 A	1	43	2.0	0.0					44	--	--	--	SPACE
S215	2#12 & 1#12G~0.75"C	20 A	1	45			3.0	0.0			46	--	--	--	SPACE
S216	2#12 & 1#12G~0.75"C	15 A	1	47					2.0	0.0	48	--	--	--	SPACE
UH-1-3	2#12 & 1#12G~0.75"C	20 A	1	49	4.0	0.0					50	--	--	--	SPACE
SPACE	--	--	--	51			0.0	0.0			52	--	--	--	SPACE
SPACE	--	--	--	53					0.0	0.0	54	--	--	--	SPACE
			PHASE TOTALS (kVA):		34.0		23.0		23.0						

CONNECTED AMPERES: 96.2 A **CONNECTED kVA:** 80.0 kVA
CALCULATED AMPERES: 96.2 A **CALCULATED kVA:** 80.0 kVA

NOTES:

PANELBOARD "UPL2A" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
279 EOC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.4	1.4					44	1	20 A	2#12 & 1#12G ~ 0.75"C	279 EOC LARGE...
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	45			0.7	0.4			46	1	20 A	2#12 & 1#12G ~ 0.75"C	279 EOC FB
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	47					0.7		48				
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	49	0.7						50				
279 EOC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.7				52				
279 EOC TV	2#12 & 1#12G ~ 0.75"C	20 A	1	53					0.7		54				
279 EOC TV	2#12 & 1#12G ~ 0.75"C	20 A	1	55	1.5						56				
269 CORR. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.7				58				
283 CMD, 282 CONF. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	59					1.5		60				
284 CITY FB	2#12 & 1#12G ~ 0.75"C	20 A	1	61	0.7						62				
285 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	63			0.4				64				
286 CONF. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	65					0.4		66				
287 JCC FB	2#12 & 1#12G ~ 0.75"C	20 A	1	67	1.1						68				
287 JCC REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	69			1.1				70				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	71					1.4		72				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	73	1.4						74				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	75			1.4				76				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	77					1.4		78				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	79	1.4						80				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	81			1.4				82				
279 EOC LARGE...	2#12 & 1#12G ~ 0.75"C	20 A	1	83					1.4		84				
			PHASE TOTALS (kVA):		8.5		6.7		7.4						

CONNECTED AMPERES: 63.0 A **CONNECTED kVA:** 22.7 kVA
CALCULATED AMPERES: 60.8 A **CALCULATED kVA:** 21.9 kVA

NOTES:

PANELBOARD "UPL2B" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECTRICAL 207

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
208 AT&T SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A	2	1	0.1	1.5					2	1	20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
				3			0.1	1.5			4	1	20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A	2	5					0.1	1.5	6	1	20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
				7	0.1	1.5					8	1	20 A	2#12 & 1#12G ~ 0.75"C	275 AV RACK
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A	2	9			0.1				10				
				11					0.1		12				
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A	2	13	0.1						14				
				15			0.1				16				
208 MOTOROLA SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A	2	17					0.1		18				
				19	0.1						20				
208 SERVICE PROVIDER SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A	2	21			0.1				22				
				23					0.1		24				
208 MISC. SERVER RACK	2#10 & 1#10G ~ 0.75"C	30 A	2	25	0.1						26				
				27			0.1				28				
279 EOC REC.	2#12 & 1#12G~0.75"C	20 A	1	29					0.7		30				
280 JIC FB	2#12 & 1#12G~0.75"C	20 A	1	31	0.7						32				
281 EPIC FB	2#12 & 1#12G~0.75"C	20 A	1	33			0.7				34				
282 CONF. FB	2#12 & 1#12G~0.75"C	20 A	1	35					0.4		36				
283 CMD. FB	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.7						38				
284 CITY, 285 CONF TV	2#12 & 1#12G ~ 0.75"C	20 A	1	39			1.5				40				
280 JIC REC.	2#12 & 1#12G~0.75"C	20 A	1	41					0.7		42				
			PHASE TOTALS (kVA):		9.9		9.3		8.2						

CONNECTED AMPERES: 76.2 A **CONNECTED kVA:** 27.4 kVA
CALCULATED AMPERES: 59.7 A **CALCULATED kVA:** 21.5 kVA

NOTES:

PANEL SCHEDULE LEGEND		
	UPL2B	UPL2A
	MH2	UPL2A
		UPL2B

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5425 Page Rd
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N&B PROJECT: 19N342
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CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.3111 FAX. 910.790.9901
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-507

TI GMP SET

11/19/2020 4:16:01 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

SWITCHBOARD "MSB-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 3000 A **MOUNTING:** PAD
PHASES: 3 **LOCATION:** MAIN ELECT. 104
WIRE: 4 **SCCR:** 65KAIC

SECTION NUMBER / CIRCUIT NUMBER	CIRCUIT DESCRIPTION	POLES	FRAME	TRIP	LOAD	REMARKS	FEEDER TAG
SECTION MAIN 1 / 1	MAIN 1	3	3000 A	3000 A	0.0 kVA	LSIG, EL, EO	SEE RISER...
SECTION MAIN 2 / 2	MAIN 2	3	3000 A	3000 A	0.0 kVA	LSIG, EL, EO	SEE RISER...
SECTION 1 / 3	RTU-R-1-T	3	400 A	350 A	253.2 kVA		SEE RISER...
SECTION 1 / 4	RTU-R-2-T	3	250 A	200 A	156.9 kVA		SEE RISER...
SECTION 1 / 5	RTU-R-3-T	3	250 A	200 A	156.9 kVA		SEE RISER...
SECTION 1 / 6	RTU-R-4-T	3	250 A	200 A	156.9 kVA		SEE RISER...
SECTION 1 / 7	ATS-OS-T	3	225 A	200 A	38.4 kVA		SEE RISER...
SECTION 1 / 8	MH4-T	3	400 A	350 A	122.3 kVA		SEE RISER...
SECTION 1 / 9	MH3-T	3	250 A	250 A	86.5 kVA		SEE RISER...
SECTION 1 / 10	MH2-T	3	250 A	250 A	77.0 kVA		SEE RISER...
SECTION 1 / 11	MH1-T	3	250 A	250 A	131.8 kVA		SEE RISER...
SECTION 1 / 12	TPDL1-T	3	250 A	150 A	109.5 kVA		SEE RISER...
SECTION 1 / 13	TPDL2-T	3	250 A	150 A	74.9 kVA		SEE RISER...
SECTION 1 / 14	TPDL3-T	3	250 A	150 A	98.0 kVA		SEE RISER...
SECTION 1 / 15	TPDL4-T	3	250 A	150 A	124.6 kVA		SEE RISER...
SECTION 1 / 16	LH1-T, LH2-T, LH3-T, LH4-T	3	250 A	250 A	32.8 kVA		SEE RISER...
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--
--	SPACE	--	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 1948 A **CONNECTED kVA:** 1619.6 kVA
CALCULATED AMPERES: 1754 A **CALCULATED kVA:** 1457.9 kVA

Notes:
1. PROVIDE INTEGRAL SURGE PROTECTION DEVICE.
2. CONTROL POWER FOR CIRCUIT BREAKERS SHALL BE DERIVED FROM THE CONTROL POWER TRANSFORMERS FROM EACH SOURCE.
3. PROVIDE ARC ENERGY REDUCTION SYSTEM AND POWER MONITOR AT MAIN SERVICE ENTRANCE DEVICE.

PANELBOARD "OSH1-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 250 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				1	1.7						2				
TOSH1-T	3#10 & 1#10G ~ 0.75"C	30 A	3	3			2.5				4				
				5					1.9		6				
				7	3.6						8				
ELEVATOR #1 (NOTE 1)	3#10 & 1#10G ~ 0.75"C	30 A	3	9			3.6				10				
				11					3.6		12				
				13	3.6						14				
ELEVATOR #2 (NOTE 1)	3#10 & 1#10G ~ 0.75"C	30 A	3	15			3.6				16				
				17					3.6		18				
				19	3.6						20				
ELEVATOR #3 (NOTE 1)	3#10 & 1#10G ~ 0.75"C	30 A	3	21			3.6				22				
				23					3.6		24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
PHASE TOTALS (kVA):					12.5		13.3		12.7						

CONNECTED AMPERES: 46.2 A **CONNECTED kVA:** 38.4 kVA
CALCULATED AMPERES: 46.2 A **CALCULATED kVA:** 38.4 kVA

NOTES:
1. PROVIDE SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR.

PANELBOARD "OS1-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 100 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 50A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
ELEV-1 CAB...	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.5						2				
ELEV-2 CAB...	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.5				4				
ELEV-3 CAB...	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.5		6				
ELEVATOR PIT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.4						8				
SP-1-1 (0.5 HP)	2#12 & 1#12G ~ 0.75"C	15 A	1	9			1.2				10				
				11					0.8		12				
SP-1-2 (1.5 HP)	3#12 & 1#12G ~ 0.75"C	15 A	3	13	0.8						14				
				15			0.8				16				
ELEVATOR SHAFT REC.	3#12 & 1#12G ~ 0.75"C	20 A	1	17					0.5		18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
PHASE TOTALS (kVA):					1.7		2.5		1.9						

CONNECTED AMPERES: 16.8 A **CONNECTED kVA:** 6.1 kVA
CALCULATED AMPERES: 16.8 A **CALCULATED kVA:** 6.1 kVA

NOTES:

PANEL SCHEDULE LEGEND		
		MSB-T
		OSH1-T
		OS1-T

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-508

TI GMP SET

11/19/2020 4:16:03 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

PANELBOARD "PL1A-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** RECESSED
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** CALL CENTER 122

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
154H EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	1	0.7	0.5					2	1 20 A	2#12 & 1#12G ~ 0.75"C	122 CALL REC.
154F EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	3			0.7	0.7			4	1 20 A	2#10 & 1#10G ~ 0.75"C	122 CALL REC.
154J EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	5					0.7	0.7	6	1 20 A	2#10 & 1#10G ~ 0.75"C	122 CALL REC.
154G EXAM REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	7	0.7	0.7					8	1 20 A	2#10 & 1#10G ~ 0.75"C	123 HUB REC.
154I, 156 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	9			0.4	0.5			10	1 20 A	2#12 & 1#12G ~ 0.75"C	123 HUB REC.
154L, 156 TLT. FIXTURES	2#12 & 1#12G ~ 0.75"C	20 A 1	11					1.0	1.1	12	1 20 A	2#10 & 1#10G ~ 0.75"C	121B OFFICE REC.
154D & E NURSE REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	13	1.1	0.7					14	1 20 A	2#12 & 1#12G ~ 0.75"C	121B REG. WRKSTN.
125 VAULT REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	15			0.9	0.7			16	1 20 A	2#10 & 1#10G ~ 0.75"C	121B REG. WRKSTN.
125 VAULT REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	17					0.7	0.7	18	1 20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
124, 154B REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	19	0.9	0.7					20	1 20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
154A RECEPTION REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	21			1.0	0.7			22	1 20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
154A RECEPTION REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	23					1.3	0.7	24	1 20 A	2#10 & 1#10G ~ 0.75"C	121A SERVICE WRKSTN.
AREA A CORR. REC.	2#6 & 1#6G ~ 0.75"C	20 A 1	25	1.1	1.5					26	1 20 A	2#10 & 1#10G ~ 0.75"C	121A CSTMR. SRV. REC.
155 MULTI. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	27			1.3	1.5			28	1 20 A	2#10 & 1#10G ~ 0.75"C	121A CSTMR. SRV. REC.
155 MULTI. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	29					0.5	0.6	30	1 20 A	2#12 & 1#12G ~ 0.75"C	105 CORR. WC (NOTE 1)
AREA A EXT. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	31	0.5						32			
S126-28,133-34	2#12 & 1#12G ~ 0.75"C	20 A 1	33			1.0				34			
S129-30,135,138	2#12 & 1#12G ~ 0.75"C	20 A 1	35					0.8		36			
S136-37,150	2#12 & 1#12G ~ 0.75"C	20 A 1	37	0.6						38			
RCP-1-1 (0.3 HP)	2#12 & 1#12G ~ 0.75"C	15 A 2	39			0.4				40			
			41					0.4		42			
100 VEST. ADO	2#10 & 1#10G ~ 0.75"C	20 A 1	43	0.5						44			
121A CSTMR. SRV. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	45			0.7				46			
			47							48			
			49							50			
			51							52			
			53							54			
PHASE TOTALS (kVA):				10.3		10.6		9.3					

CONNECTED AMPERES: 83.9 A **CONNECTED kVA:** 30.2 kVA
CALCULATED AMPERES: 64.0 A **CALCULATED kVA:** 23.1 kVA

NOTES:
1. PROVIDE GFI TYPE CIRCUIT BREAKER.

DISTRIBUTION PANELBOARD "PDL1-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 400A/3P MCB **LOCATION:**
WIRE: 4 **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL1A-T	3	200 A	30.2 kVA		SEE RISER DIAGRAM
2	PL1B-T	3	200 A	34.1 kVA		SEE RISER DIAGRAM
3	PL1C-T	3	200 A	45.1 kVA		SEE RISER DIAGRAM
4	SPACE	--	--	0.0 kVA	--	--
5	SPACE	--	--	0.0 kVA	--	--
6	SPACE	--	--	0.0 kVA	--	--
7	SPACE	--	--	0.0 kVA	--	--
8	SPACE	--	--	0.0 kVA	--	--
9	SPACE	--	--	0.0 kVA	--	--
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 304 A 109.5 kVA
CALCULATED AMPERES: 190 A 68.6 kVA

Notes:

PANELBOARD "LH1-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 100 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 50A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
LIGHTING		20 A 1	1	0.2						2			
LIGHTING		20 A 1	3			0.1				4			
LIGHTING LOBBY A		20 A 1	5					2.6		6			
LIGHTING LOBBY B		20 A 1	7	2.0						8			
LIGHTING AREA B...		20 A 1	9			3.9				10			
LIGHTING AREA A		20 A 1	11					2.3		12			
LIGHTING AREA B CORE		20 A 1	13	2.9						14			
LIGHTING STAIR 2		20 A 1	15			0.2				16			
LIGHTING STAIR 1		20 A 1	17					0.3		18			
LIGHTING ELEVATOR		20 A 1	19	0.1						20			
			21							22			
			23							24			
			25							26			
			27							28			
			29							30			
			31							32			
			33							34			
			35							36			
			37							38			
			39							40			
			41							42			
PHASE TOTALS (kVA):				5.2		4.2		5.2					

CONNECTED AMPERES: 17.5 A **CONNECTED kVA:** 14.6 kVA
CALCULATED AMPERES: 17.5 A **CALCULATED kVA:** 14.6 kVA

NOTES:

PANELBOARD "PL1C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 141

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
138 CONF. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A 1	1	0.4	0.2					2	1 20 A	2#12 & 1#12G ~ 0.75"C	140 FITNESS EQUIP.
138 CONF. FB	2#8 & 1#8G ~ 0.75"C	20 A 1	3			1.4	0.5			4	1 20 A	2#12 & 1#12G ~ 0.75"C	140 FITNESS REC.
138 CONF. REC.	2#6 & 1#6G ~ 0.75"C	20 A 1	5					1.6	0.4	6	1 20 A	2#12 & 1#12G ~ 0.75"C	144 STORAGE REC.
139 CONF. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A 1	7	0.4	0.2					8	1 20 A	2#12 & 1#12G ~ 0.75"C	145 SRVR. REC.
139 CONF. FB	2#10 & 1#10G ~ 0.75"C	20 A 1	9			1.4	0.2			10	1 20 A	2#12 & 1#12G ~ 0.75"C	145 SRVR. REC.
139 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	11					1.4	1.5	12	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
139 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	13	1.1	1.5					14	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A 1	15			0.4	1.5			16	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. FB	2#10 & 1#10G ~ 0.75"C	20 A 1	17					1.4	1.5	18	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	19	0.7	1.5					20	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
137 TRAIN. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	21			1.2	1.5			22	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
136 TRAIN. PROJ.	2#12 & 1#12G ~ 0.75"C	20 A 1	23					0.4	1.5	24	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
136 TRAIN. FB	2#8 & 1#8G ~ 0.75"C	20 A 1	25	1.4	1.5					26	1 20 A	2#12 & 1#12G ~ 0.75"C	145 AV RACK
136 TRAIN. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	27			1.0	0.9			28	1 20 A	2#10 & 1#10G ~ 0.75"C	127, 147B CORR. REC.
136 TRAIN. REC.	2#8 & 1#8G ~ 0.75"C	20 A 1	29					1.3	0.2	30	1 20 A	2#12 & 1#12G ~ 0.75"C	147B CORR. ICE MKR.
140 FITNESS EQUIP.	2#12 & 1#12G ~ 0.75"C	20 A 1	31	0.2	0.5					32	1 20 A	2#12 & 1#12G ~ 0.75"C	147B CORR. FRIDGE
140 FITNESS EQUIP.	2#12 & 1#12G ~ 0.75"C	20 A 1	33			0.2	0.4			34	1 20 A	2#12 & 1#12G ~ 0.75"C	147B COUNTER REC.
140 FITNESS EQUIP.	2#12 & 1#12G ~ 0.75"C	20 A 1	35					0.2	1.3	36	1 20 A	2#8 & 1#8G ~ 0.75"C	120B LOBBY REC.
136 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A 1	37	0.4	1.5					38	1 20 A	2#8 & 1#8G ~ 0.75"C	120B LOBBY REC.
S120,122-23,132	2#12 & 1#12G ~ 0.75"C	20 A 1	39			0.8	0.9			40	1 20 A	2#8 & 1#8G ~ 0.75"C	AREA B EXT. REC.
UH-1-4	2#12 & 1#12G ~ 0.75"C	20 A 1	41					1.5	0.2	42	1 20 A	2#12 & 1#12G ~ 0.75"C	390 PUMP RM REC.
120B LOBBY DS	2#12 & 1#12G ~ 0.75"C	20 A 1	43	0.7						44			
120B LOBBY TV	2#12 & 1#12G ~ 0.75"C	20 A 1	45			0.7				46			
137 TRAIN. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	47					0.7		48			
136 TRAIN. FB	2#12 & 1#12G ~ 0.75"C	20 A 1	49	0.7						50			
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A 1	51			0.7				52			
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A 1	53					0.7		54			
PHASE TOTALS (kVA):				13.9		14.7		16.5					

CONNECTED AMPERES: 125.3 A **CONNECTED kVA:** 45.1 kVA
CALCULATED AMPERES: 85.0 A **CALCULATED kVA:** 30.6 kVA

NOTES:

PANELBOARD "PL1B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
WATER FOUNTAIN	2#12 & 1#12G ~ 0.75"C	20 A 1	1	0.6	0.4					2	1 20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY KIOSK
149, 150 TLT. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	3			1.1	0.4			4	1 20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY KIOSK
149, 150 TLT. AUTO...	2#12 & 1#12G ~ 0.75"C	20 A 1	5					0.5	0.4	6	1 20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY KIOSK
127, 146, 147A REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	7	1.1	0.2					8	1 20 A	2#12 & 1#12G ~ 0.75"C	131 MAIN ELEC. REC.
128, 129, 130 TLT. REC	2#10 & 1#10G ~ 0.75"C	20 A 1	9			1.3	0.4			10	1 20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
128, 130, TLT AUTO...	2#12 & 1#12G ~ 0.75"C	20 A 1	11					0.5	0.4	12	1 20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
126 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	13	1.1	0.4					14	1 20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
126 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	15			1.6	0.4			16	1 20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. REC.
131 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	17					1.6	0.5	18	1 20 A	2#12 & 1#12G ~ 0.75"C	132 COMM. BAS PNL.
132 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	19	1.6	0.1					20	2 30 A	2#10 & 1#10G ~ 0.75"C	132 COMM. RACK
133 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	21			1.6	0.1			22			
134 MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	23					1.6	0.1	24	2 30 A	2#10 & 1#10G ~ 0.75"C	132 COMM. RACK
135 MTG. REC.	2#8 & 1#8G ~ 0.75"C	20 A 1	25	1.6	0.1					26			
120B LOBBY REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	27			0.7	0.1			28	2 30 A	2#10 & 1#10G ~ 0.75"C	132 COMM. RACK
EAST EXT. REC.	2#10 & 1#10G ~ 0.75"C	20 A 1	29					0.5	0.1	30			
131 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A 1	31	0.5	0.7					32	1 20 A	2#12 & 1#12G ~ 0.75"C	120B LOBBY B FB
147A, 149 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A 1	33			0.4	0.4			34	1 20 A	2#12 & 1#12G ~ 0.75"C	151 AV RACK
132 COMM. PANEL...	2#12 & 1#12G ~ 0.75"C	20 A 1	35					0.5	0.4	36	1 20 A	2#12 & 1#12G ~ 0.75"C	151 AV RACK
S140-41,143-44,146-47	2#12 & 1#12G ~ 0.75"C	20 A 1	37	1.2	0.4					38	1 20 A	2#12 & 1#12G ~ 0.75"C	ELEV. KIOSK/SAM
126 CONF. CREDENZA	2#12 & 1#12G ~ 0.75"C	20 A 1	39			0.4	0.5			40	1 20 A	2#12 & 1#12G ~ 0.75"C	104 MISC. MECH PWR.
131 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A 1	41					0.5		42			
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	43	1.5						44			
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	45			1.5				46			
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	47					1.5		48			
151 AV RACK	2#12 & 1#12G ~ 0.75"C	20 A 1	49	1.5						50			
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A 1	51			0.7				52			
120B LOBBY B FB	2#12 & 1#12G ~ 0.75"C	20 A 1	53					0.7		54			
PHASE TOTALS (kVA):				12.9		11.4		9.8					

CONNECTED AMPERES: 94.6 A **CONNECTED kVA:** 34.1 kVA
CALCULATED AMPERES: 69.1 A **CALCULATED kVA:** 24.9 kVA

NOTES:

PANELBOARD "MH1-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** MAIN ELECT. 104

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
			1	1.6	0.0					2	1 20 A	--	SPARE
WBP-1-1 (3 HP)	3#12 & 1#12G~0.75"C	20 A 3	3			1.6	0.0			4	1 20 A	--	SPARE
			5					1.6	0.0	6	1 20 A	--	SPARE
S117	2#10 & 1#10G~0.75"C	30 A 1	7	5.0	0.0					8	1 20 A	--	SPARE
S118	2#12 & 1#12G~0.75"C	15 A 1	9			2.5	0.0			10	1 20 A	--	SPARE
S119	2#4 & 1#8G~1.25"C	60 A 1	11					11.0	0.0	12	1 20 A	--	SPARE
S121	2#10 & 1#10G~0.75"C	30 A 1	13	5.0	0.0					14	1 20 A	--	SPARE
S124	2#6 & 1#8G~1.25"C	45 A 1	15			8.0	0.0			16	1 20 A	--	SPARE
S125	2#6 & 1#8G~1.25"C	50 A 2	17					7.0	0.0	18	1 20 A	--	SPARE
			19	7.0	0.0					20	1 20 A	--	SPARE
S131	2#10 & 1#12G~0.75"C	15 A 1	21			1.0	0.0			22	1 20 A	--	SPARE
S139	2#10 & 1#10G~0.75"C	30 A 1	23					5.0	0.0	24	-- --	--	SPACE
S142	2#12 & 1#12G~0.75"C	15 A 1	25	2.5	0.0					26	-- --	--	SPACE
S145	2#4 & 1#8G~1.25"C	60 A 1	27			10.0	0.0			28	-- --	--	SPACE
UH-1-1	2#12 & 1#12G~0.75"C	20 A 1	29					4.0	0.0	30	-- --	--	SPACE
UH-1-2	2#12 & 1#12G~0.75"C	20 A 1	31	4.0	0.0					32	-- --	--	SPACE
FTR-1-8	2#12 & 1#12G~0.75"C	20 A 1	33			2.0	0.0			34	-- --	--	SPACE
FTR-1-9 & FTR-1-10	2#10 & 1#12G~0.75"C	20 A 1	35					4.0	0.0	36	-- --	--	SPACE
FTR-1-6 & FTR-1-7	2#10 & 1#12G~0.75"C	20 A 1	37	3.0	0.0					38	-- --	--	SPACE
FTR-1-11 & FTR-1-12	2#10 & 1#12G~0.75"C	20 A 1	39			4.0	0.0			40	-- --	--	SPACE
FTR-1-13 & FTR-1-13	2#10 & 1#12G~0.75"C	20 A 1	41					4.0	0.0	42	-- --	--	SPACE
FTR-1-14 & FTR-1-19	2#10 & 1#12G~0.75"C	20 A 1	43	4.0	0.0					44	-- --	--	SPACE
FTR-1-20 & FTR-1-21	2#10 & 1#12G~0.75"C	20 A 1	45			4.0	0.0			46	-- --	--	SPACE
			47					10.0	0.0	48	-- --	--	SPACE
WH-1-1	3#4 & 1#6G~1.25"C	60 A 3	49	10.0	0.0					50	-- --	--	SPACE
			51			10.0	0.0			52	-- --	--	SPACE
SPACE	--	-- --	53					0.0	0.0	54	-- --	--	SPACE
PHASE TOTALS (kVA):				42.1		43.1		46.6					

CONNECTED AMPERES: 158.5 A **CONNECTED kVA:** 131.8 kVA
CALCULATED AMPERES: 158.5 A **CALCULATED kVA:** 131.8 kVA

NOTES:

PANELBOARD "PL1C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 141

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	55	0.2						56			
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	57			0.2				58			
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	59					0.2		60			
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	61	0.2						62			
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	63			0.2				64			
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	65					0.2		66			
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	67	0.2						68			
142 PROD. REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	69			0.2				70			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	71					0.2		72			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	73	0.2						74			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	75			0.2				76			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	77					0.2		78			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	79	0.2						80			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	81			0.2				82			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	83					0.2		84			
143 MEDIA REC.	2#12 & 1#12G ~ 0.75"C	20 A 1	85	0.2						86			
			87							88			
			89							90			
			91							92			
			93							94			
			95							96			
			97							98			
			99							100			
			101							102			
			103							104			
			105							106			
			107							108			
PHASE TOTALS (kVA):				1.1		0.9		0.9					

CONNECTED AMPERES: 8.0 A **CONNECTED kVA:** 2.9 kVA
CALCULATED AMPERES: 8.0 A **CALCULATED kVA:** 2.9 kVA

NOTES:

PANELBOARD "PL1B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:**

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
			55							56			
			57							58			
			59							60			
			61							62			
			63							64			
			65							66			
			67							68			
			69							70			
			71							72			
			73							74			
			75							76			
			77							78			
			79							80			
			81							82			
			83							84			
			85							86			
			87							88			
			89							90			
			91							92			
			93							94			
			95							96			
			97							98			
			99							100			
			101							102			
			103							104			
			105							106			
			107							108			
PHASE TOTALS (kVA):				0.0		0.0		0.0					

CONNECTED AMPERES: 0.0 A **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A **CALCULATED kVA:** 0.0 kVA

NOTES:

PANEL SCHEDULE LEGEND		
PL1A-T	PDL1-T	LH1-T
PL1C-T	PL1B-T	MH11-T
PL1C-T	PL1B-T	MH12-T

Newcomb & Boyd
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CAPE FEAR FD STONEWATER

LS3P
101 NORTH THIRD STREET, SUITE 500
WILMINGTON, NORTH CAROLINA 28401
TEL. 910.790.3111 FAX. 910.790.9901
WWW.LS3P.COM

NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-509

TI GMP SET

11/19/2020 4:16:07 PM

THIS LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

PANELBOARD "PL2C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 245

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
246 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.7	0.4				2	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
244 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.7	0.4		4	1 20 A	2#12 & 1#12G ~ 0.75"C	236 OPEN OFFICE PT.
242 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.7	0.4	6	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
242 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7	0.4					8	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
247 WRKRM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.9	0.4			10	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
241 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.7	0.4	12	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
240 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7	0.4					14	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
248 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.7	0.4			16	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
239 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.7	0.4	18	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
249 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.7	0.4					20	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
238 OPEN OFFICE FF.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.5	0.4			22	1 20 A	2#12 & 1#12G ~ 0.75"C	238 OPEN OFFICE PT.
238 OPEN OFFICE FF.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.5	1.1	24	1 20 A	2#10 & 1#10G ~ 0.75"C	AREA A CORR. REC.
FIRE PARTITION WALL	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.5						26			
FIRE PARTITION WALL	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.5				28			
220, 239 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4		30			
S247-49,251	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.8						32			
				33							34			
				35							36			
				37							38			
				39							40			
				41							42			
				43							44			
				45							46			
				47							48			
				49							50			
				51							52			
				53							54			
			PHASE TOTALS (kVA):		5.6		4.8		5.2				

CONNECTED AMPERES: 43.4 A **CONNECTED kVA:** 15.6 kVA
CALCULATED AMPERES: 40.0 A **CALCULATED kVA:** 14.4 kVA

NOTES:

PANELBOARD "PL2A-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELECT 202

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
221 HUB REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	1	0.7	0.9				2	1 20 A	2#10 & 1#10G ~ 0.75"C	226 PROJECT REC.
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.2	0.4		4	1 20 A	2#12 & 1#12G ~ 0.75"C	226 PROJECT PT
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.2	1.3	6	1 20 A	2#12 & 1#12G ~ 0.75"C	228 THINK TANK REC.
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.2	0.4					8	1 20 A	2#12 & 1#12G ~ 0.75"C	228 THINK TANK PT
221 HUB COUNTER...	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.2	0.7			10	1 20 A	2#12 & 1#12G ~ 0.75"C	227 MAIL REC.
221 HUB ICE MAKER	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.2	0.7	12	1 20 A	2#12 & 1#12G ~ 0.75"C	AREA B CORR./BOH...
221 HUB FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.5	0.5					14	1 20 A	2#12 & 1#12G ~ 0.75"C	TLT. AUTO FLUSH
221 HUB FRIDGE	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.5	1.1			16	1 20 A	2#12 & 1#12G ~ 0.75"C	236, 237 TLT. REC.
250, 251 OFF. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	17					1.4	0.6	18	1 20 A	2#12 & 1#12G ~ 0.75"C	WATER FOUNTAIN
220 CORR. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	1.5	0.2					20	1 20 A	2#12 & 1#12G ~ 0.75"C	216 ELEC. REC.
222 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	21			1.1	0.4			22	1 20 A	2#12 & 1#12G ~ 0.75"C	218 COMM. REC
222 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					1.5	0.4	24	1 20 A	2#12 & 1#12G ~ 0.75"C	218 COMM. REC
222 CONF. PT.	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.7	0.4					26	1 20 A	2#12 & 1#12G ~ 0.75"C	218 COMM. REC
222 CONF. PT.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.7	0.4			28	1 20 A	2#12 & 1#12G ~ 0.75"C	218 COMM. REC
222 CONF. CREDENZA	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4	0.5	30	1 20 A	2#12 & 1#12G ~ 0.75"C	218 COMM. BAS PNL.
223 MEETING REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	1.1	0.1					32	2 30 A	2#10 & 1#10G ~ 0.75"C	218 COMM. RACK
220 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.2	0.1			34			
224 MEETING REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.9	0.1	36			
224 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.4	0.1					38			
225 PROJECT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	39			1.1	0.1			40	2 30 A	2#10 & 1#10G ~ 0.75"C	218 COMM. RACK
225 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.4	0.1	42			
S236-40,242	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.6						44			
S237-39,254-55	2#12 & 1#12G ~ 0.75"C	20 A	1	45			1.0				46			
218 COMM. PANEL...	2#12 & 1#12G ~ 0.75"C	20 A	1	47					0.5		48			
216 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	49	0.5						50			
216 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.5				52			
223, 224 MEET TV	2#12 & 1#12G ~ 0.75"C	20 A	1	53					1.5		54			
225, 226 PROJECT RM...	2#12 & 1#12G ~ 0.75"C	20 A	1	55	1.5						56			
202 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.5				58			
				59							60			
				61							62			
				63							64			
			PHASE TOTALS (kVA):		10.1		9.4		10.5				

CONNECTED AMPERES: 82.9 A **CONNECTED kVA:** 29.9 kVA
CALCULATED AMPERES: 62.8 A **CALCULATED kVA:** 22.6 kVA

NOTES:

PANELBOARD "LH2-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 100 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 50A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELECT 202

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
LIGHTING LOBBY A...		20 A	1	1	1.5					2			
LIGHTING AREA A		20 A	1	3			3.3			4			
LIGHTING AREA B...		20 A	1	5					3.6	6			
LIGHTING AREA B WEST		20 A	1	7	2.6					8			
LIGHTING AREA B...		20 A	1	9			3.4			10			
LIGHTING AREA A		20 A	1	11					3.8	12			
				13						14			
				15						16			
				17						18			
				19						20			
				21						22			
				23						24			
				25						26			
				27						28			
				29						30			
				31						32			
				33						34			
				35						36			
				37						38			
				39						40			
				41						42			
			PHASE TOTALS (kVA):		4.1		6.6		7.4				

CONNECTED AMPERES: 21.9 A **CONNECTED kVA:** 18.2 kVA
CALCULATED AMPERES: 21.9 A **CALCULATED kVA:** 18.2 kVA

NOTES:

PANELBOARD "PL2C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 245

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
			55							56			
			57							58			
			59							60			
			61							62			
			63							64			
			65							66			
			67							68			
			69							70			
			71							72			
			73							74			
			75							76			
			77							78			
			79							80			
			81							82			
			83							84			
			85							86			
			87							88			
			89							90			
			91							92			
			93							94			
			95							96			
			97							98			
			99							100			
			101							102			
			103							104			
			105							106			
			107							108			
			PHASE TOTALS (kVA):		0.0		0.0		0.0				

CONNECTED AMPERES: 0.0 A **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL2B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 233

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
232 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	0.4				2	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
230 MTG. TV, 231 REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			2.0	0.4		4	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
229 MTG REC., 230 REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					1.8	0.4	6	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
253 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7	0.4					8	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
254 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.7	0.4			10	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
264 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.7	0.4	12	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
255 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7	0.4					14	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
259, 265, CORR. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	15			1.1	0.4			16	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
263 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.7	0.4	18	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
256 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.7	0.4					20	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
257 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.7	0.4			22	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
258 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23					0.7	0.4	24	1 20 A	2#12 & 1#12G ~ 0.75"C	266 OPEN OFFICE PT
262 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.7	1.1					26	1 20 A	2#8 & 1#8G ~ 0.75"C	OPEN OFFICE W REC.
261 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.7	0.9			28	1 20 A	2#8 & 1#8G ~ 0.75"C	OPEN OFFICE E REC.
260 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.7		30			
S221-24,228-29	2#12 & 1#12G ~ 0.75"C	20 A	1	31	1.2						32			
S230-35	2#12 & 1#12G ~ 0.75"C	20 A	1	33			1.2				34			
				35							36			
				37							38			
				39							40			
				41							42			
				43							44			
				45							46			
				47							48			
				49							50			
				51							52			
				53							54			
			PHASE TOTALS (kVA):		9.5		11.3		8.7				

CONNECTED AMPERES: 81.7 A **CONNECTED kVA:** 29.4 kVA
CALCULATED AMPERES: 58.1 A **CALCULATED kVA:** 20.9 kVA

NOTES:

PANELBOARD "MH2-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 250 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 250A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELECT 202

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
S217	2#10 & 1#10G~0.75"C	25 A	1	1	4.0	0.0				2	1 20 A	--	SPARE
S218	2#10 & 1#10G~0.75"C	30 A	1	3			4.5	0.0		4	1 20 A	--	SPARE
S219	2#10 & 1#10G~0.75"C	25 A	1	5					4.0	0.0	6	1 20 A	SPARE
S220	2#10 & 1#10G~0.75"C	30 A	1	7	4.5	0.0					8	-- --	SPACE
S225	2#8 & 1#10G~0.75"C	40 A	1	9			7.0	0.0			10	-- --	SPACE
S226	2#8 & 1#10G~0.75"C	35 A	1	11					6.5	0.0	12	-- --	SPACE
S227	2#10 & 1#10G~0.75"C	25 A	1	13	4.0	0.0					14	-- --	SPACE
S241	2#12 & 1#12G~0.75"C	15 A	1	15			1.5	0.0			16	-- --	SPACE
S243	2#12 & 1#12G~0.75"C	15 A	1	17					2.0	0.0	18	-- --	SPACE
S244	2#10 & 1#10G~0.75"C	30 A	1	19	5.0	0.0					20	-- --	SPACE
S245	2#8 & 1#10G~0.75"C	35 A	1	21			6.0	0.0			22	-- --	SPACE
S246	2#12 & 1#12G~0.75"C	20 A	1	23					3.0	0.0	24	-- --	SPACE
S250	2#12 & 1#12G~0.75"C	15 A	1	25	1.0	0.0					26	-- --	SPACE
S254	2#4 & 1#8G~1.25"C	60 A	1	27			11.0	0.0			28	-- --	SPACE
S253	2#6 & 1#8G~1.25"C	45 A	2	29					6.5	0.0	30	-- --	SPACE
				31	6.5	0.0					32	-- --	SPACE
SPARE	--	20 A	1	33			0.0	0.0			34	-- --	SPACE
SPARE	--	20 A	1	35					0.0	0.0	36	-- --	SPACE
SPARE	--	20 A	1	37	0.0	0.0					38	-- --	SPACE
SPARE	--	20 A	1	39			0.0	0.0			40	-- --	SPACE
SPARE	--	20 A	1	41					0.0	0.0	42	-- --	SPACE
			PHASE TOTALS (kVA):		25.0		30.0		22.0				

CONNECTED AMPERES: 92.6 A **CONNECTED kVA:** 77.0 kVA
CALCULATED AMPERES: 92.6 A **CALCULATED kVA:** 77.0 kVA

NOTES:

PANELBOARD "PL2B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 233

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES	CKT #	A		B		C		CKT #	CB TRIP / POLES	WIRE & CONDUIT	LOAD DESCRIPTION
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	55	0.4	0.4				56	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.4	0.4		58	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	59					0.4	0.4	60	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	61	0.4	0.4					62	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	63			0.4	0.4			64	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	65					0.4	0.4	66	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	67	0.4	0.4					68	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	69			0.4	0.4			70	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	71					0.4	0.4	72	1 20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE PT
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	73	0.4						74			
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	75			0.4				76			
OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	77					0.4		78			
				79							80			
				81							82			
				83							84			
				85							86			
				87							88			
				89							90			
				91							92			
				93							94			
				95							96			
				97							98			
				99							100			
				101							102			
				103							104			
				105							106			
				107							108			
			PHASE TOTALS (kVA):		2.5		2.5		2.5				

CONNECTED AMPERES: 21.0 A **CONNECTED kVA:** 7.6 kVA
CALCULATED AMPERES: 21.0 A **CALCULATED kVA:** 7.6 kVA

NOTES:

DISTRIBUTION PANELBOARD "PDL2-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 400A/3P MCB **LOCATION:** ELECT 202
WIRE: 4 **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL2A-T	3	200 A	29.9 kVA		SEE RISER DIAGRAM
2	PL2B-T	3	200 A	29.4 kVA		SEE RISER DIAGRAM
3	PL2C-T	3	200 A	15.6 kVA		SEE RISER DIAGRAM
4	SPACE	--	--	0.0 kVA	--	--
5	SPACE	--	--	0.0 kVA	--	--
6	SPACE	--	--	0.0 kVA	--	--
7	SPACE	--	--	0.0 kVA	--	--
8	SPACE	--	--	0.0 kVA	--	--
9	SPACE	--	--	0.0 kVA	--	--
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 208 A 74.9 kVA
CALCULATED AMPERES: 133 A 48.0 kVA

Notes:

PANEL SCHEDULE LEGEND		
PL2C-T	PL2A-T	LH2-T
PL2C-T	PL2B-T	MH2-T
	PL2B-T	PDL2-T

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LS3P
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-510

TI GMP SET

11/19/2020 4:16:10 PM

PANELBOARD "PL3A-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 302

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
317 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	1.5					2	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. REC.
317 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.4	0.7			4	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. PT
317 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.4	0.7	6	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. PT
317 DATA BAS PNL.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.5	1.1					8	1	20 A	2#10 & 1#10G ~ 0.75"C	322 CONF. REC.
342 ELEC. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.2	0.4			10	1	20 A	2#12 & 1#12G ~ 0.75"C	322 CONF. CREDENZA
335 OFF., CORR. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					1.3	0.9	12	1	20 A	2#10 & 1#10G ~ 0.75"C	321 HUB REC.
337, 336 TLT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	1.1	0.2					14	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB COUNTER...
WATER FOUNTAIN	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.5	0.2			16	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB COUNTER...
TLT. AUTO FLUSH	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.5	0.2	18	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB COUNTER...
327 WORK RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	1.5	0.5					20	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB FRIDGE
327 WORK RM PT	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.4	0.5			22	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB FRIDGE
325 PROJECT RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					1.1	0.2	24	1	20 A	2#12 & 1#12G ~ 0.75"C	321 HUB ICE MAKER
325 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.4	1.6					26	1	20 A	2#10 & 1#10G ~ 0.75"C	362 PLAN REV. REC.
323 MEETING RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			1.1	1.5			28	1	20 A	2#12 & 1#12G ~ 0.75"C	362 PLAN REV. TV'S
323 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4	0.7	30	1	20 A	2#12 & 1#12G ~ 0.75"C	362 PLAN REV. PT
328 THINK TANK REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	1.3	0.7					32	1	20 A	2#12 & 1#12G ~ 0.75"C	363 OFFICE REC.
328 THINK TANK PT	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.4	0.7			34	1	20 A	2#12 & 1#12G ~ 0.75"C	364 OFFICE REC.
326 PROJECT RM REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	35					0.9	0.7	36	1	20 A	2#12 & 1#12G ~ 0.75"C	365 OFFICE REC.
326 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.4	0.1					38	2	30 A	2#10 & 1#10G ~ 0.75"C	303 DATA RACK
324 MEETING RM REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.9	0.1			40				
324 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.4	0.1	42	2	30 A	2#10 & 1#10G ~ 0.75"C	303 DATA RACK
RCP-3-1	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.5	0.1					44				
320 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	45			0.2	0.1			46	2	30 A	2#10 & 1#10G ~ 0.75"C	303 DATA RACK
S324,331,337,352	2#12 & 1#12G ~ 0.75"C	20 A	1	47					1.0	0.1	48				
342 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	49	0.5	0.2					50	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
342 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.5	0.2			52	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
323, 324 MEET. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	53					1.5	0.2	54	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
325, 326 PROJECT RM...	2#12 & 1#12G ~ 0.75"C	20 A	1	55	1.5	0.2					56	1	20 A	2#12 & 1#12G ~ 0.75"C	303 AV RACK
302 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.5				58				
				59							60				
				61							62				
				63							64				
				PHASE TOTALS (kVA):	14.0		9.2		11.1						

CONNECTED AMPERES: 95.2 A **CONNECTED kVA:** 34.3 kVA
CALCULATED AMPERES: 68.0 A **CALCULATED kVA:** 24.5 kVA

NOTES:

DISTRIBUTION PANELBOARD "PDL3-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 400A/3P MCB **LOCATION:** ELEC. 302
WIRE: 4 **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL3A-T	3	200 A	34.3 kVA		SEE RISER DIAGRAM
2	PL3B-T	3	200 A	36.1 kVA		SEE RISER DIAGRAM
3	PL3C-T	3	200 A	27.7 kVA		SEE RISER DIAGRAM
4	SPACE	--	--	0.0 kVA	--	--
5	SPACE	--	--	0.0 kVA	--	--
6	SPACE	--	--	0.0 kVA	--	--
7	SPACE	--	--	0.0 kVA	--	--
8	SPACE	--	--	0.0 kVA	--	--
9	SPACE	--	--	0.0 kVA	--	--
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 272 A 98.0 kVA
CALCULATED AMPERES: 165 A 59.6 kVA

Notes:

PANELBOARD "LH3-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 100 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 50A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELEC. 302

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	0.0		0.0		0.0						

CONNECTED AMPERES: 0.0 A **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL3C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 350

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
AREA A CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	1	1.1	0.7					2	1	20 A	2#12 & 1#12G ~ 0.75"C	355 OFFICE REC.
AREA A CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	3			1.6	0.7			4	1	20 A	2#12 & 1#12G ~ 0.75"C	357 OFFICE REC.
349 PLAN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					1.5	0.7	6	1	20 A	2#12 & 1#12G ~ 0.75"C	356 LIBRARY REC.
349 PLAN REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	1.6	0.7					8	1	20 A	2#12 & 1#12G ~ 0.75"C	358 OFFICE REC.
348 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.7	0.7			10	1	20 A	2#12 & 1#12G ~ 0.75"C	360 OFFICE REC.
347 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.7	0.4	12	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
346 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7	0.4					14	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
345 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.7	0.4			16	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
344 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	17					0.7	0.4	18	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
342 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	19	0.7	0.4					20	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
340 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	21			0.7	0.4			22	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
341 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23					0.7	0.4	24	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
339 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	25	0.7	0.4					26	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
338 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	27			0.7	0.4			28	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
343 PLOT/COPY REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4	0.4	30	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
343 PLOT/COPY REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.4	0.4					32	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE PT
343 PLOT/COPY REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	33			0.7	0.5			34	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE FF
351 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.7	0.5	36	1	20 A	2#12 & 1#12G ~ 0.75"C	361 OPEN OFFICE FF.
352 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.7						38				
353 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.7				40				
354 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.7		42				
320, 360 FS DAMPER	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.4						44				
S341-44,346	2#12 & 1#12G ~ 0.75"C	20 A	1	45			1.0				46				
S350-51	2#12 & 1#12G ~ 0.75"C	20 A	1	47					0.4		48				
				49							50				
				51							52				
				53							54				
				PHASE TOTALS (kVA):	9.2		10.0		8.5						

CONNECTED AMPERES: 76.9 A **CONNECTED kVA:** 27.7 kVA
CALCULATED AMPERES: 56.2 A **CALCULATED kVA:** 20.2 kVA

NOTES:

PANELBOARD "PL3B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 333

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
332 PRIVACY RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	0.7					2	1	20 A	2#12 & 1#12G ~ 0.75"C	369 PLAN REVIEW PT
331 MTG REC., 330 TV	2#12 & 1#12G ~ 0.75"C	20 A	1	3			2.0	1.5			4	1	20 A	2#12 & 1#12G ~ 0.75"C	369 PLAN REVIEW RE...
329 MTG REC., 330 REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					1.8	1.5	6	1	20 A	2#12 & 1#12G ~ 0.75"C	369 PLAN REVIEW TV'S
389 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7	0.7					8	1	20 A	2#12 & 1#12G ~ 0.75"C	375 INV./IMAGING REC.
388 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.7	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75"C	375 INV./IMAGING REC.
387 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.7	0.7	12	1	20 A	2#12 & 1#12G ~ 0.75"C	370 OFFICE REC.
386 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7	0.7					14	1	20 A	2#12 & 1#12G ~ 0.75"C	371 OFFICE REC.
385 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.7	0.7			16	1	20 A	2#10 & 1#10G ~ 0.75"C	372 OFFICE REC.
384 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	17					0.7	0.7	18	1	20 A	2#12 & 1#12G ~ 0.75"C	373 OFFICE REC.
383 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	19	0.7	0.7					20	1	20 A	2#12 & 1#12G ~ 0.75"C	374 OFFICE REC.
382 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	21			0.7	1.4			22	1	20 A	2#8 & 1#8G ~ 0.75"C	AREA B CORR. REC.
381 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	23					0.7	0.4	24	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
380 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.7	0.4					26	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
379 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.7	0.4			28	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
377 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.7	0.4	30	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
367, 378, CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	31	1.4	0.4					32	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
376 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.7	0.4			34	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
368 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.7	0.4	36	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
S305-7,117-19	2#12 & 1#12G ~ 0.75"C	20 A	1	37	1.2	0.4					38	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
S309-12,320	2#12 & 1#12G ~ 0.75"C	20 A	1	39			1.2				40				
S321-23,325-26,334	2#12 & 1#12G ~ 0.75"C	20 A	1	41					1.2		42				
				43							44				
				45							46				
				47							48				
				49							50				
				51							52				
				53							54				
				PHASE TOTALS (kVA):	11.3		13.1		11.7						

CONNECTED AMPERES: 100.1 A **CONNECTED kVA:** 36.1 kVA
CALCULATED AMPERES: 68.9 A **CALCULATED kVA:** 24.8 kVA

NOTES:

PANELBOARD "MH3-T" SCHEDULE1

VOLTS: 480/277 Wye **BUS:** 250 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 250A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELEC. 302

NOTES:

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
S300	2#10 & 1#10G~0.75"C	25 A	1	1	4.0	0.0					2	1	20 A	--	SPARE
S301	2#12 & 1#12G~0.75"C	15 A	1	3			2.0	0.0			4	1	20 A	--	SPARE
S302	2#10 & 1#12G~0.75"C	20 A	1	5					3.5	0.0	6	1	20 A	--	SPARE
S303	2#12 & 1#12G~0.75"C	20 A	1	7	3.0	0.0					8	1	20 A	--	SPARE
S304	2#10 & 1#10G~0.75"C	25 A	1	9			4.0	0.0			10	1	20 A	--	SPARE
S313	2#10 & 1#10G~0.75"C	30 A	1	11					4.5	0.0	12	1	20 A	--	SPARE
S314	2#10 & 1#10G~0.75"C	30 A	1	13	4.5	0.0					14	1	20 A	--	SPARE
S315	2#12 & 1#12G~0.75"C	15 A	1	15			1.5	0.0			16	1	20 A	--	SPARE
S316	2#8 & 1#10G~0.75"C	35 A	1	17					6.0	0.0	18	1	20 A	--	SPARE
S328	2#12 & 1#12G~0.75"C	15 A	1	19	2.0	0.0					20	1	20 A	--	SPARE
S329	2#12 & 1#12G~0.75"C	15 A	1	21			1.0	0.0			22	1	20 A	--	SPARE
S330	2#12 & 1#12G~0.75"C	15 A	1	23					1.0	0.0	24	--	--	--	SPACE
S332	2#12 & 1#12G~0.75"C	15 A	1	25	1.0	0.0					26	--	--	--	SPACE
S333	2#12 & 1#12G~0.75"C	15 A	1	27			1.0	0.0			28	--	--	--	SPACE
S335	2#12 & 1#12G~0.75"C	15 A	1	29					1.5	0.0	30	--	--	--	SPACE
S336	2#12 & 1#12G~0.75"C	15 A	1	31	2.0	0.0					32	--	--	--	SPACE
S338	2#12 & 1#12G~0.75"C	20 A	1	33			3.5	0.0			34	--	--	--	SPACE
S339	2#10 & 1#10G~0.75"C	25 A	1	35					4.0	0.0	36	--	--	--	SPACE
S340	2#8 & 1#10G~0.75"C	30 A	1	37	5.5	0.0					38	--	--	--	SPACE
S345	2#12 & 1#12G~0.75"C	15 A	1	39			1.0	0.0			40	--	--	--	SPACE
S347	2#12 & 1#12G~0.75"C	20 A	1	41					3.5	0.0	42	--	--	--	SPACE
S348	2#10 & 1#10G~0.75"C	25 A	1	43	4.0	0.0					44	--	--	--	SPACE
S349	2#10 & 1#10G~0.75"C	30 A	1	45			4.5	0.0			46	--	--	--	SPACE
WH-3-1	3#6 & 1#10G~1"C	40 A	3	47					6.0	0.0	48	--	--	--	SPACE
				49	6.0	0.0					50	--	--	--	SPACE
				51			6.0	0.0			52	--	--	--	SPACE
SPACE	--	--	--	53					0.0	0.0	54	--	--	--	SPACE
				PHASE TOTALS (kVA):	32.0		24.5		30.0						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD
HVAC	68500 VA	100.00%	68500 VA
Heating	18000 VA	100.00%	18000 VA

CONNECTED LOAD: 86500 VA
CALCULATED LOAD: 86500 VA

CONNECTED AMPERES: 104 A
CALCULATED AMPERES: 104 A

PANELBOARD "PL3C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 350

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				55							56				
				57							58				
				59							60				
				61							62				
				63							64				
				65							66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79							80				
				81							82				
				83							84				
				85							86				
				87							88				
				89							90				
				91							92				
				93							94				
				95							96				
				97							98				
				99							100				
				101							102				
				103							104				
				105							106				
				107							108				
				PHASE TOTALS (kVA):	0.0		0.0		0.0						

CONNECTED AMPERES: 0.0 A **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL3B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 333

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	55	0.4	0.4					56	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.4	0.4			58	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	59					0.4	0.4	60	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	61	0.4	0.4					62	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	63			0.4	0.4			64	1	20 A	2#12 & 1#12G ~ 0.75"C	366 OPEN OFFICE PT
366 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	65					0.4		66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79							80				
				81							82				
				83							84				
				85							86				
				87							88				
				89							90				
				91							92				
				93							94				
				95							96				
				97							98				
				99							100				
				101							102				
				103							104				
				105							106				
				107							108				
				PHASE TOTALS (kVA):	1.4		1.4		1.1						

CONNECTED AMPERES: 11.0 A **CONNECTED kVA:** 4.0 kVA
CALCULATED AMPERES: 11.0 A **CALCULATED kVA:** 4.0 kVA

NOTES:

PANEL SCHEDULE LEGEND		
PL3A-T	PDL3-T	LH3-T
PL3C-T	PL3B-T	MH3-T
PL3C-T	PL3B-T	MH3-T

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CAPE FEAR FD STONEWATER

LS3P
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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL SCHEDULES

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-511

TI GMP SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

11/19/2020 4:16:14 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

PANELBOARD "PL4A-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 1
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 402

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.4	1.3					2	1	20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF. REC.
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.4	0.9			4	1	20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF. REC.
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.4	0.4	6	1	20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF....
418 DATA REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.4	0.7					8	1	20 A	2#12 & 1#12G ~ 0.75"C	424 LG. CONF. PT
418 DATA BAS PNL.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.5	0.7			10	1	20 A	2#10 & 1#10G ~ 0.75"C	421 HUB REC.
416 ELEC. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.2	0.2	12	1	20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
434, 435, CORR. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.9	0.2					14	1	20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
436, 437 TLT REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			1.1	0.2			16	1	20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
WATER FOUNTAIN	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.6	0.2	18	1	20 A	2#12 & 1#12G ~ 0.75"C	421 HUB COUNTER...
TLT. AUTO FLUSH	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.5	0.2					20	1	20 A	2#12 & 1#12G ~ 0.75"C	421 HUB ICE MAKER
422 CONF. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			1.5	0.5			22	1	20 A	2#12 & 1#12G ~ 0.75"C	421 HUB FRIDGE
422 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23					1.1	0.5	24	1	20 A	2#12 & 1#12G ~ 0.75"C	421 HUB FRIDGE
422 CONF. PT	2#12 & 1#12G ~ 0.75"C	20 A	1	25	0.7	0.5					26	1	20 A	2#12 & 1#12G ~ 0.75"C	458 OPEN OFFICE REC.
422 CONF. PT	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.7	0.5			28	1	20 A	2#12 & 1#12G ~ 0.75"C	458 OPEN OFFICE REC.
422 CONF. CREDENZA	2#12 & 1#12G ~ 0.75"C	20 A	1	29					0.4	0.1	30	2	30 A	2#10 & 1#10G ~ 0.75"C	403 DATA RACK
423 MEETING REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	1.1	0.1					32				
423 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.4	0.1			34	2	30 A	2#10 & 1#10G ~ 0.75"C	403 DATA RACK
425 PROJECT RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					1.1	0.1	36				
425 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A	1	37	0.4	0.1					38	2	30 A	2#10 & 1#10G ~ 0.75"C	403 DATA RACK
420 FIRE SMOKE...	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.2	0.1			40				
416 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.5		42				
416 FIRE ALARM PANEL	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.5						44				
S454-55	2#12 & 1#12G ~ 0.75"C	20 A	1	45			0.9				46				
ROOF REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	47					0.5		48				
423, 425 TV	2#12 & 1#12G ~ 0.75"C	20 A	1	49	1.5						50				
402 MISC. MECH PWR.	2#12 & 1#12G ~ 0.75"C	20 A	1	51			0.5				52				
				53							54				
				55							56				
				57							58				
				59							60				
				61							62				
				63							64				
				PHASE TOTALS (kVA):	9.3		9.1		6.1						

CONNECTED AMPERES: 68.0 A **CONNECTED kVA:** 24.5 kVA
CALCULATED AMPERES: 53.7 A **CALCULATED kVA:** 19.4 kVA

NOTES:

DISTRIBUTION PANELBOARD "PDL4-T" SCHEDULE

VOLTS: 120/208 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 400A/3P MCB **LOCATION:** ELEC. 402
WIRE: 4 **SCCR:** 10KA

CKT	CIRCUIT DESCRIPTION	POLES	TRIP	LOAD	REMARKS	FEEDER TAG
1	PL4A-T	3	200 A	24.5 kVA		SEE RISER DIAGRAM
2	PL4B-T	3	200 A	41.9 kVA		SEE RISER DIAGRAM
3	PL4C-T	3	200 A	33.1 kVA		SEE RISER DIAGRAM
4	SSAC-1-2	2	30 A	4.2 kVA		30N
5	SSAC-1-3	2	30 A	4.2 kVA		30N
6	SSAC-1-4	2	30 A	4.2 kVA		30N
7	SSAC-2-4	2	30 A	4.2 kVA		30N
8	SSAC-3-1	2	30 A	4.2 kVA		30N
9	SSAC-4-1	2	30 A	4.2 kVA		30N
10	SPACE	--	--	0.0 kVA	--	--
11	SPACE	--	--	0.0 kVA	--	--
12	SPACE	--	--	0.0 kVA	--	--

CONNECTED AMPERES: 346 A 124.6 kVA
CALCULATED AMPERES: 235 A 84.6 kVA

Notes:

PANELBOARD "LH4-T" SCHEDULE

VOLTS: 480/277 Wye **BUS:** 100 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 50A/3P MCB **SECTIONS:** 1
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELEC. 402

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
				PHASE TOTALS (kVA):	0.0		0.0		0.0						

CONNECTED AMPERES: 0.0 A **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL4C-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 439

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
439 ELEC. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	1	0.2	1.5					2	1	20 A	2#10 & 1#10G ~ 0.75"C	420, 438 CORR. REC.
452 TLT. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	3			0.2	0.7			4	1	20 A	2#10 & 1#10G ~ 0.75"C	438A CLERK REC.
452 TLT. AUTO...	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.5	0.7	6	1	20 A	2#10 & 1#10G ~ 0.75"C	438B CLERK REC.
451 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	1.1	0.7					8	1	20 A	2#10 & 1#10G ~ 0.75"C	438C VAULT REC.
420 CORR. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	9			1.1	0.5			10	1	20 A	2#12 & 1#12G ~ 0.75"C	438D KITCH. FRIDGE
453 CONF. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	11					1.1	0.2	12	1	20 A	2#12 & 1#12G ~ 0.75"C	438D KITCHEN REC.
453 CONF. PT.	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.7	0.4					14	1	20 A	2#12 & 1#12G ~ 0.75"C	438D KITCHEN REC.
454 OPEN OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	15			1.5	0.4			16	1	20 A	2#12 & 1#12G ~ 0.75"C	438E PRINT REC.
454 OPEN OFFICE PT	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.4	0.4	18	1	20 A	2#12 & 1#12G ~ 0.75"C	438E PRINT REC.
455 OPEN OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.7	0.5					20	1	20 A	2#12 & 1#12G ~ 0.75"C	438E PRINT REC.
455 OPEN OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.4	0.7			22	1	20 A	2#12 & 1#12G ~ 0.75"C	441 OFFICE REC.
456 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23					0.7	0.7	24	1	20 A	2#12 & 1#12G ~ 0.75"C	440 OFFICE REC.
457 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	25	0.7	1.3					26	1	20 A	2#12 & 1#12G ~ 0.75"C	438K CONF. REC.
447 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	27			0.7	0.4			28	1	20 A	2#12 & 1#12G ~ 0.75"C	438K CONF. PT
448 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	29					1.1	0.9	30	1	20 A	2#12 & 1#12G ~ 0.75"C	438J OFFICE REC
449 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.7	0.7					32	1	20 A	2#12 & 1#12G ~ 0.75"C	438I OFFICE REC.
450 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.7	0.7			34	1	20 A	2#10 & 1#10G ~ 0.75"C	438H OFFICE REC.
442 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.7	0.7	36	1	20 A	2#10 & 1#10G ~ 0.75"C	438G OFFICE REC.
443 MEETING REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	37	1.5	0.7					38	1	20 A	2#10 & 1#10G ~ 0.75"C	438F OFFICE REC.
443 MEETING PT	2#12 & 1#12G ~ 0.75"C	20 A	1	39			0.4				40				
444 PROJECT RM. REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	41					0.7		42				
444 PROJECT PT	2#12 & 1#12G ~ 0.75"C	20 A	1	43	0.4						44				
445 SM. MTG. REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	45			1.1				46				
445 SM. MTG. PT	2#12 & 1#12G ~ 0.75"C	20 A	1	47					0.4		48				
451, 453 CONF. TV	2#12 & 1#12G ~ 0.75"C	20 A	1	49	1.5						50				
444, 445 TV	2#12 & 1#12G ~ 0.75"C	20 A	1	51			1.5				52				
				53							54				
				PHASE TOTALS (kVA):	13.2		10.8		9.1						

CONNECTED AMPERES: 92.0 A **CONNECTED kVA:** 33.1 kVA
CALCULATED AMPERES: 60.6 A **CALCULATED kVA:** 21.8 kVA

NOTES:

PANELBOARD "PL4B-T" SCHEDULE: SECTION 1

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 433

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
AREA B CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	1	1.3	0.7					2	1	20 A	2#10 & 1#10G ~ 0.75"C	480 OFFICE REC.
AREA B CORR. REC.	2#8 & 1#8G ~ 0.75"C	20 A	1	3			1.1	0.7			4	1	20 A	2#12 & 1#12G ~ 0.75"C	479 OFFICE REC.
488 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	5					0.7	0.7	6	1	20 A	2#12 & 1#12G ~ 0.75"C	478 OFFICE REC.
489 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	7	0.7	0.7					8	1	20 A	2#12 & 1#12G ~ 0.75"C	484 OFFICE REC.
490 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	9			0.7	0.7			10	1	20 A	2#12 & 1#12G ~ 0.75"C	485 OFFICE REC.
OPEN OFFICE WEST FF	2#12 & 1#12G ~ 0.75"C	20 A	1	11					0.5	0.7	12	1	20 A	2#12 & 1#12G ~ 0.75"C	477 OFFICE REC.
OPEN OFFICE WEST FF	2#12 & 1#12G ~ 0.75"C	20 A	1	13	0.5	0.7					14	1	20 A	2#12 & 1#12G ~ 0.75"C	486 OFFICE REC.
491 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	15			0.7	0.7			16	1	20 A	2#12 & 1#12G ~ 0.75"C	476 OFFICE REC.
492 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	17					0.7	0.7	18	1	20 A	2#12 & 1#12G ~ 0.75"C	475 OFFICE REC.
493 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	19	0.7	0.4					20	1	20 A	2#12 & 1#12G ~ 0.75"C	431 PRIVACY RM. REC.
495 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	21			0.7	2.0			22	1	20 A	2#12 & 1#12G ~ 0.75"C	429 MTG. TV, 430 REC.
494 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	23					0.7	1.8	24	1	20 A	2#12 & 1#12G ~ 0.75"C	428 MTG. REC., 429...
496 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	25	0.7	0.7					26	1	20 A	2#12 & 1#12G ~ 0.75"C	426 WORK RM. REC.
498 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	27			0.7	1.6			28	1	20 A	2#12 & 1#12G ~ 0.75"C	427 PROJECT RM. REC.
499 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	29					0.7	0.4	30	1	20 A	2#12 & 1#12G ~ 0.75"C	427 PROJECT PT
482 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	31	0.7						32				
483 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	33			0.7				34				
497 STORAGE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	35					0.7		36				
				37							38				
				39							40				
				41							42				
				43							44				
				45							46				
				47							48				
				49							50				
				51							52				
				53							54				
				PHASE TOTALS (kVA):	13.5		15.6		12.8						

CONNECTED AMPERES: 116.4 A **CONNECTED kVA:** 41.9 kVA
CALCULATED AMPERES: 79.0 A **CALCULATED kVA:** 28.5 kVA

NOTES:

PANELBOARD "MH4-T" SCHEDULE: SECTION 1

VOLTS: 480/277 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** 350A/3P MCB **SECTIONS:** 2
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELEC. 402

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
S400	2#10 & 1#10G~0.75"C	30 A	1	1	5.5	1.0					2	1	15 A	2#12 & 1#12G~0.75"C	S421
S401	2#12 & 1#12G~0.75"C	15 A	1	3			2.5	2.0			4	1	15 A	2#12 & 1#12G~0.75"C	S422
S402	2#12 & 1#12G~0.75"C	20 A	1	5					3.5	1.0	6	1	15 A	2#12 & 1#12G~0.75"C	S423
S403	2#10 & 1#12G~0.75"C	15 A	1	7	1.0	2.0					8	1	15 A	2#12 & 1#12G~0.75"C	S426
S404	2#10 & 1#12G~0.75"C	15 A	1	9			1.5	2.0			10	1	15 A	2#12 & 1#12G~0.75"C	S427
S405	2#12 & 1#12G~0.75"C	15 A	1	11					1.5	1.5	12	1	15 A	2#12 & 1#12G~0.75"C	S429
S406	2#10 & 1#10G~0.75"C	30 A	1	13	5.5	1.5					14	1	15 A	2#12 & 1#12G~0.75"C	S431
S407	2#12 & 1#12G~0.75"C	15 A	1	15			1.0	3.0			16	1	20 A	2#12 & 1#12G~0.75"C	S432
S408	2#12 & 1#12G~0.75"C	15 A	1	17					1.5	3.5	18	1	20 A	2#12 & 1#12G~0.75"C	S433
S409	2#12 & 1#12G~0.75"C	15 A	1	19	1.5						20				
S410	2#12 & 1#12G~0.75"C	15 A	1	21			1.5	2.1			22	3	20 A	3#12 & 1#12G~0.75"C	EF-R-1 (1 HP)
S411	2#12 & 1#12G~0.75"C	15 A	1	23					2.0	2.1	24				
S412	2#10 & 1#10G~0.75"C	25 A	1	25	4.0	2.1					26				
S413	2#10 & 1#10G~0.75"C	25 A	1	27			4.0	0.0			28	--	--	--	SPACE
S414	2#12 & 1#12G~0.75"C	15 A	1	29					1.0	0.0	30	--	--	--	SPACE
S415	2#12 & 1#12G~0.75"C	15 A	1	31	1.0	0.0					32	--	--	--	SPACE
S416	2#12 & 1#12G~0.75"C	20 A	1	33			3.5	0.0			34	--	--	--	SPACE
S417	2#12 & 1#12G~0.75"C	15 A	1	35					1.0	0.0	36	--	--	--	SPACE
S418	2#12 & 1#12G~0.75"C	15 A	1	37	1.0	0.0					38	--	--	--	SPACE
S419	2#12 & 1#12G~0.75"C	15 A	1	39			1.0	0.0			40	--	--	--	SPACE
S420	2#12 & 1#12G~0.75"C	15 A	1	41					1.0	0.0	42	--	--	--	SPACE
				PHASE TOTALS (kVA):	41.1		44.6		36.6						

CONNECTED AMPERES: 147.1 A **CONNECTED kVA:** 122.3 kVA
CALCULATED AMPERES: 147.1 A **CALCULATED kVA:** 122.3 kVA

NOTES:

PANELBOARD "PL4C-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 439

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
				55							56				
				57							58				
				59							60				
				61							62				
				63							64				
				65							66				
				67							68				
				69							70				
				71							72				
				73							74				
				75							76				
				77							78				
				79							80				
				81							82				
				83							84				
				85							86				
				87							88				
				89							90				
				91							92				
				93							94				
				95							96				
				97							98				
				99							100				
				101							102				
				103							104				
				105							106				
				107							108				
				PHASE TOTALS (kVA):	0.0		0.0		0.0						

CONNECTED AMPERES: 0.0 A **CONNECTED kVA:** 0.0 kVA
CALCULATED AMPERES: 0.0 A **CALCULATED kVA:** 0.0 kVA

NOTES:

PANELBOARD "PL4B-T" SCHEDULE: SECTION 2

VOLTS: 120/208 Wye **BUS:** 225 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 10KA **LOCATION:** ELEC. 433

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A	1	55	0.5	0.7					56	1	20 A	2#12 & 1#12G ~ 0.75"C	464 OFFICE REC.
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A	1	57			0.5	0.7			58	1	20 A	2#10 & 1#10G ~ 0.75"C	466 OFFICE REC.
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A	1	59					0.5	0.7	60	1	20 A	2#12 & 1#12G ~ 0.75"C	467 OFFICE REC.
458 OPEN OFFICE FF	2#12 & 1#12G ~ 0.75"C	20 A	1	61	0.5	0.7					62	1	20 A	2#12 & 1#12G ~ 0.75"C	468 OFFICE REC.
459 OFFICE REC.	2#10 & 1#10G ~ 0.75"C	20 A	1	63			0.7	0.7			64	1	20 A	2#10 & 1#10G ~ 0.75"C	469 OFFICE REC.
460 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	65					0.7	0.7	66	1	20 A	2#12 & 1#12G ~ 0.75"C	470 OFFICE REC.
462 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	67	0.7	0.7					68	1	20 A	2#10 & 1#10G ~ 0.75"C	471 OFFICE REC.
461 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	69			0.7	0.7			70	1	20 A	2#10 & 1#10G ~ 0.75"C	472 OFFICE REC.
463 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	71					0.7	0.5	72	1	20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE SOUTH...
465 OFFICE REC.	2#12 & 1#12G ~ 0.75"C	20 A	1	73	0.7	0.5					74	1	20 A	2#12 & 1#12G ~ 0.75"C	OPEN OFFICE SOUTH...
				75				0.5			76	1	20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE SOUTH...
				77						0.5	78	1	20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE SOUTH...
				79		0.5					80	1	20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE S. REC.
				81				0.5			82	1	20 A	2#10 & 1#10G ~ 0.75"C	OPEN OFFICE S. REC.
				83							84				
				85							86				
				87							88				
				89							90				
				91							92				
				93							94				
				95							96				
				97							98				
				99							100				
				101							102				
				103							104				
				105							106				
				107							108				
				PHASE TOTALS (kVA):	5.6		5.1		4.4						

CONNECTED AMPERES: 42.1 A **CONNECTED kVA:** 15.2 kVA
CALCULATED AMPERES: 40.5 A **CALCULATED kVA:** 14.6 kVA

NOTES:

PANELBOARD "MH4-T" SCHEDULE: SECTION 2

VOLTS: 480/277 Wye **BUS:** 400 A **MOUNTING:** SURFACE
PHASES: 3 **MAIN:** MLO **SECTIONS:** 2
WIRE: 4 **SCCR:** 35KA **LOCATION:** ELEC. 402

LOAD DESCRIPTION	WIRE & CONDUIT	CB TRIP / POLES		CKT #	A		B		C		CKT #	CB TRIP / POLES		WIRE & CONDUIT	LOAD DESCRIPTION
S424	2#12 & 1#12G~0.75"C	15 A	1	43	1.0	2.5					44	1	15 A	2#12 & 1#12G~0.75"C	S451
S425	2#12 & 1#12G~0.75"C	20 A	1	45			3.0	1.0			46	1	15 A	2#12 & 1#12G~0.75"C	S452
S428	2#12 & 1#12G~0.75"C	20 A	1	47					3.0	1.0	48	1	15 A	2#12 & 1#12G~0.75"C	S453
S430	2#12 & 1#12G~0.75"C	20 A	1	49	3.5	0.0					50	--	--	--	SPACE
S434	2#12 & 1#12G~0.75"C	15 A	1	51			2.0	0.0			52	--	--	--	SPACE
S435	2#12 & 1#12G~0.75"C	15 A	1	53					1.0	0.0	54	--	--	--	SPACE
S436	2#12 & 1#12G~0.75"C	15 A	1	55	1.0	0.0					56	--	--	--	SPACE
S437	2#8 & 1#10G~0.75"C	35 A	1	57			6.5	0.0			58	--	--	--	SPACE
S438	2#10 & 1#10G~0.75"C	25 A	1	59					4.0	0.0	60	--	--	--	SPACE
S439	2#10 & 1#12G~0.75"C	20 A	1	61	3.0	0.0					62	--	--	--	SPACE
S440	2#12 & 1#12G~0.75"C	15 A	1	63			2.0	0.0			64	--	--	--	SPACE
S441	2#12 & 1#12G~0.75"C	15 A	1	65					1.0	0.0	66	--	--	--	SPACE
S442	2#12 & 1#12G~0.75"C	15 A	1	67	1.5	0.0					68	--	--	--	SPACE
S443	2#12 & 1#12G~0.75"C	15 A	1	69			1.0	0.0			70	--	--	--	SPACE
S444	2#12 & 1#12G~0.75"C	15 A	1	71					1.0	0.0	72	--	--	--	SPACE
S445	2#12 & 1#12G~0.75"C	15 A	1	73	1.0	0.0					74	--	--	--	SPACE
S446	2#12 & 1#12G~0.75"C	15 A	1	75			1.0	0.0			76	--	--	--	SPACE
S447	2#12 & 1#12G~0.75"C	15 A	1	77					2.0	0.0	78	--	--	--	SPACE
S448	2#12 & 1#12G~0.75"C	15 A	1	79	1.5	0.0					80	--	--	--	SPACE
S449	2#10 & 1#10G~0.75"C	25 A	1	81			4.0	0.0			82	--	--	--	SPACE
S450	2#10 & 1#10G~0.75"C	25 A	1	83					4.0	0.0	84	--	--	--	SPACE
				PHASE TOTALS (kVA):	15.0		20.5		17.0						

CONNECTED AMPERES: 63.1 A **CONNECTED kVA:** 52.5 kVA
CALCULATED AMPERES: 63.1 A **CALCULATED kVA:** 52.5 kVA

NOTES:

PANEL SCHEDULE LEGEND

PL4A-T	PDL4-T	LH4-T
PL4C-T	PL4B-T	MH4-T
PL4C-T	PL4B-T	MH4-T

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NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

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DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET: E-512

TI GMP SET

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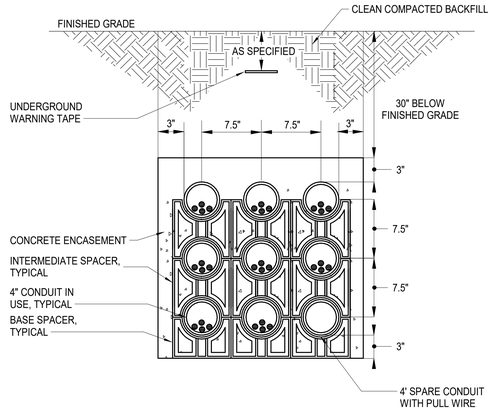
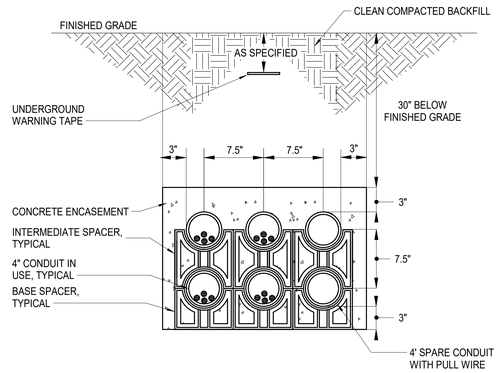
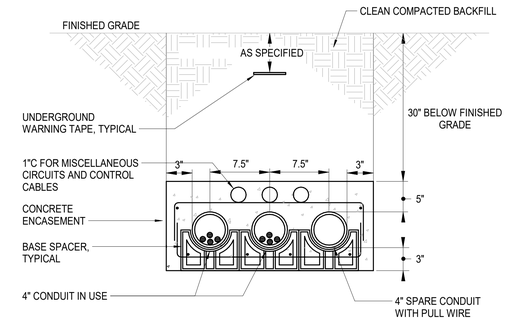


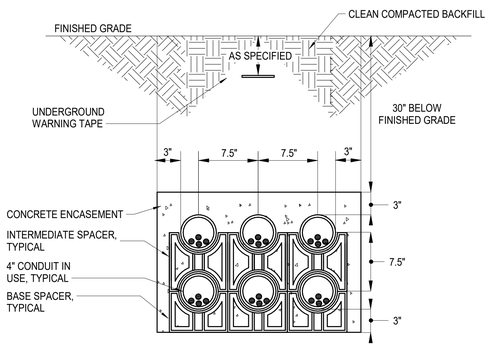
7 / E-601	NORMAL CONCRETE-ENCASED DUCTBANK - EOC	NTS



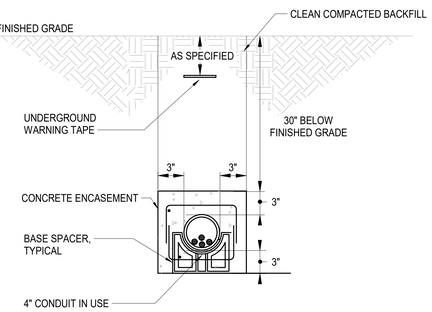
4 / E-601	NORMAL CONCRETE-ENCASED DUCTBANK - TOWER	NTS



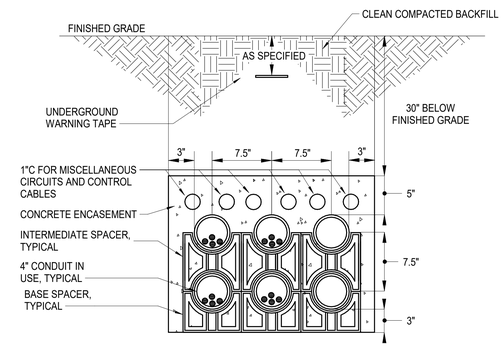
1 / E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK	NTS



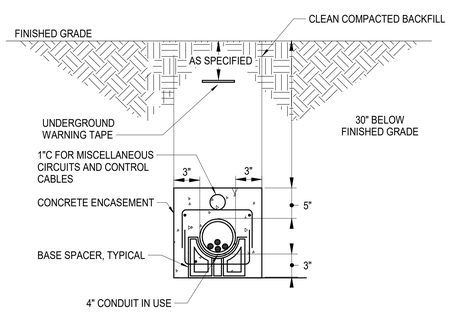
8 / E-601	CONCRETE-ENCASED DUCTBANK - EOC	NTS



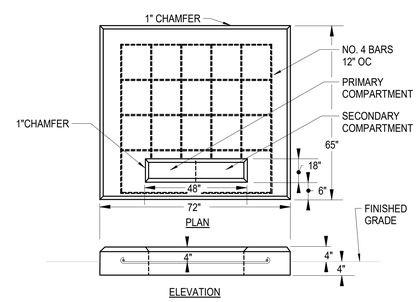
5 / E-601	CONCRETE-ENCASED DUCTBANK	NTS



2 / E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - EOC	NTS

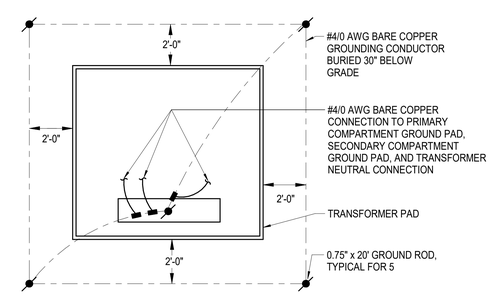


9 / E-601	EMERGENCY CONCRETE-ENCASED DUCTBANK - EOC	NTS



NOTES:
1. SERVICE DUCTS SHALL BE LOCATED IN THE EXTREME RIGHT SIDE OF THE SECONDARY COMPARTMENT.
2. PRIMARY DUCTS SHALL BE EXTENDED BEYOND THE EDGE OF THE PAD IN THE DIRECTION OF INCOMING PRIMARY CABLES.
3. MATERIALS FOR PRIMARY DUCT SYSTEM WILL BE FURNISHED BY THE UTILITY.
4. THE PAD SHALL HAVE A MINIMUM CLEARANCE OF 10' FROM ALL BUILDINGS. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED FROM ALL OBSTRUCTIONS.

6 / E-601	TRANSFORMER PAD	NTS



NOTES:
1. PROVIDE GROUNDING CONNECTIONS TO THE PRIMARY CABLE SHIELDING AND TO THE PRIMARY ELBOW CONNECTORS.

3 / E-601	TRANSFORMER GROUNDING	NTS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

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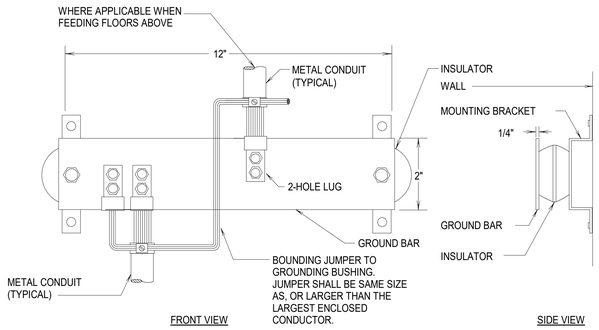
ELECTRICAL DETAILS - SITE

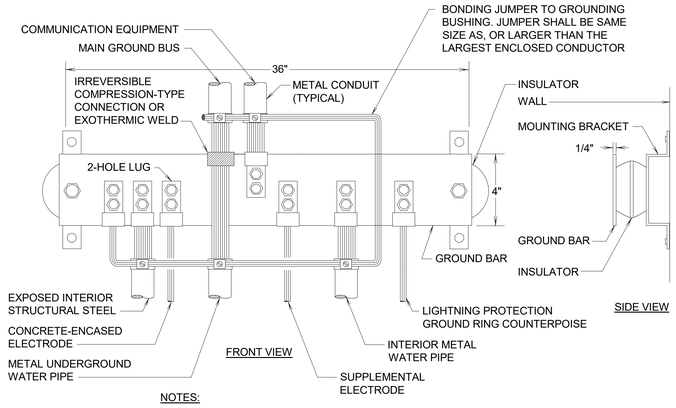
DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-601

TI GMP SET



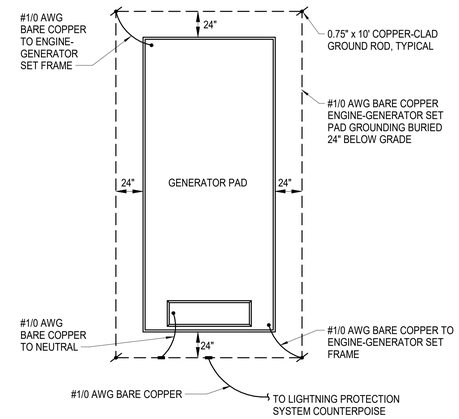
3 / E-602	GROUND BAR	NTS



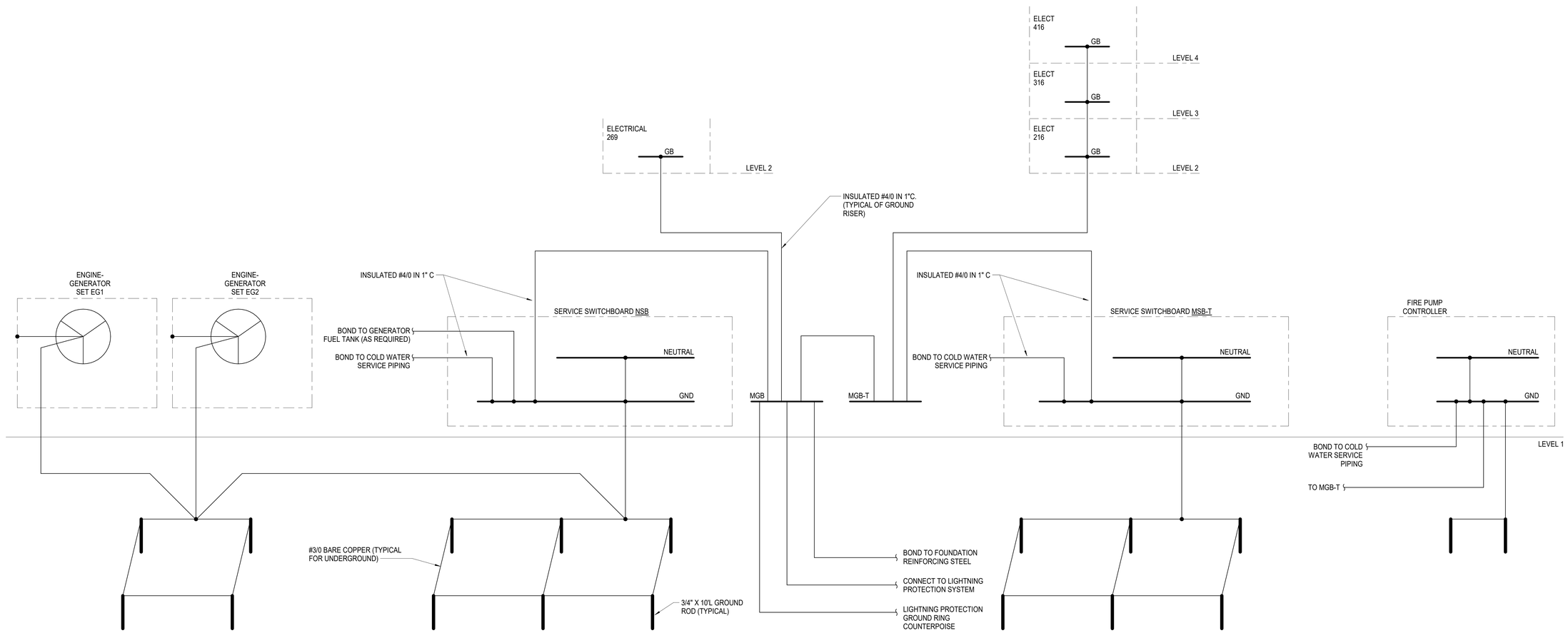
NOTES:

1. PROVIDE PERMANENT LABELING AT EACH GROUND CONNECTION AT THE MAIN GROUNDING BUS TO IDENTIFY EMERGENCY AND NORMAL SOURCES CONNECTED AT THAT LOCATION.

2 / E-602	GROUND BUS BAR	NTS



1 / E-602	ENGINE-GENERATOR SET GROUNDING	NTS



4 / E-602	ELECTRICAL GROUNDING RISER DIAGRAM	NTS

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NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702.190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL DETAILS - GROUNDING

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
E-602

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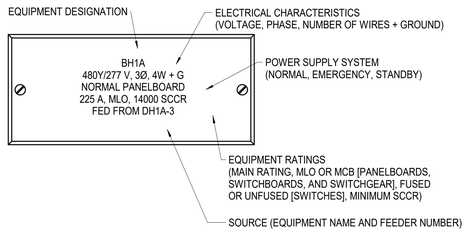
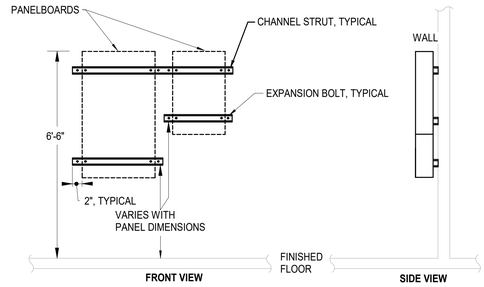
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THE ORIGINAL DRAWING SCALE

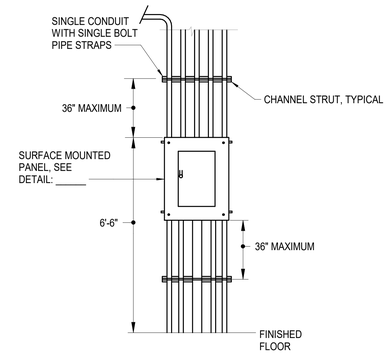


NOTES:
1. NAMEPLATE BACKGROUND COLORS SHALL BE BLACK FOR NORMAL POWER SUPPLY SYSTEMS, RED FOR LEGALLY REQUIRED EMERGENCY POWER SUPPLY SYSTEMS, AND YELLOW FOR OPTIONAL STANDBY POWER SUPPLY SYSTEMS.

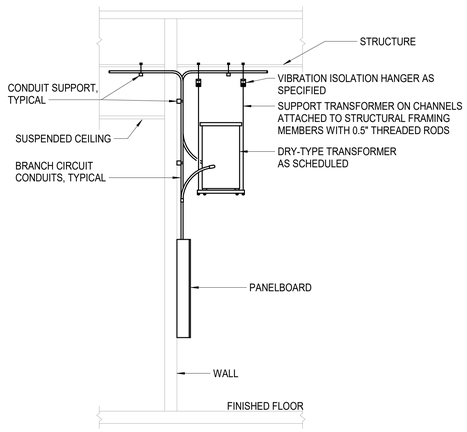
7 / E-603 — EQUIPMENT NAMEPLATES — NTS



4 / E-603 — WALL-MOUNTED PANELBOARD MOUNTING — NTS

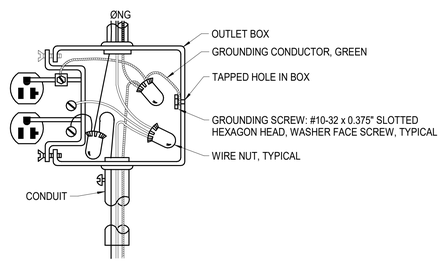


1 / E-603 — CONDUIT SUPPORT FOR SURFACE-MOUNTED PANELS — NTS



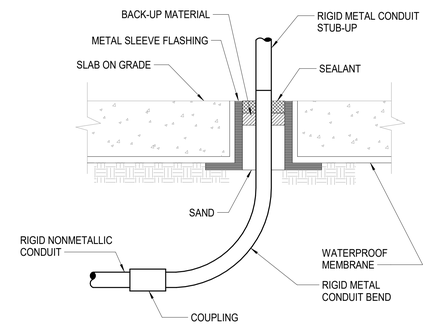
NOTES:
1. PROVIDE ROD STIFFENER ON EACH THREADED ROD AND LATERAL SUPPORT AT EACH CORNER FOR SEISMIC RESTRAINT.

8 / E-603 — SUSPENDED DRY-TYPE TRANSFORMERS — NTS



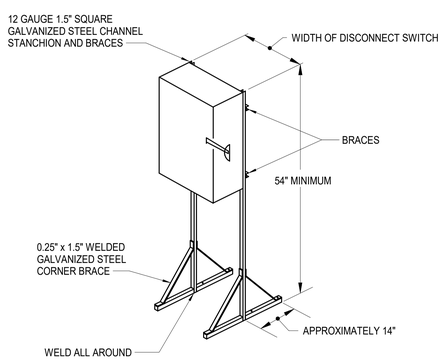
NOTES:
1. GROUNDING CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.

5 / E-603 — RECEPTACLE WIRING — NTS



NOTES:
1. USE FOR CONDUITS STUBBED-UP THROUGH SLABS ON GRADE WHERE NOT CONCEALED IN WALL CONSTRUCTION, AND CONDUITS 1.25" AND LARGER.
2. TREAT RIGID METAL CONDUIT BELOW GRADE AS SPECIFIED.

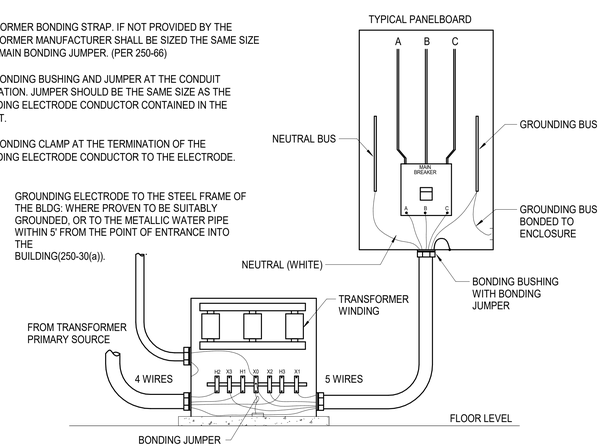
2 / E-603 — CONDUIT PENETRATIONS — NTS



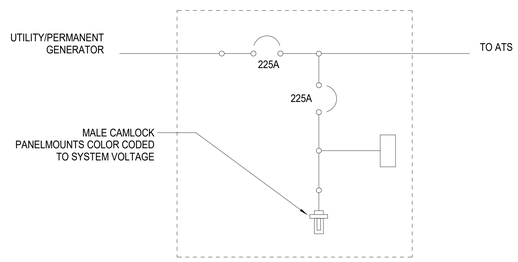
9 / E-603 — DISCONNECT MOUNTING — NTS

NOTES:

1. TRANSFORMER BONDING STRAP. IF NOT PROVIDED BY THE TRANSFORMER MANUFACTURER SHALL BE SIZED THE SAME SIZE AS THE MAIN BONDING JUMPER. (PER 250-66)
2. USE A BONDING BUSHING AND JUMPER AT THE CONDUIT TERMINATION. JUMPER SHOULD BE THE SAME SIZE AS THE GROUNDING ELECTRODE CONDUCTOR CONTAINED IN THE CONDUIT.
3. USE A BONDING CLAMP AT THE TERMINATION OF THE GROUNDING ELECTRODE CONDUCTOR TO THE ELECTRODE.



6 / E-603 — DRY-TYPE TRANSFORMER GROUNDING DETAIL — NTS



NOTES:
1. CIRCUIT BREAKERS SHALL HAVE THE SAME CHARACTERISTICS AS CIRCUIT BREAKERS PROVIDED IN GENERATOR.

3 / E-603 — SINGLE BREAKER GENERATOR DOCKING STATION — NTS

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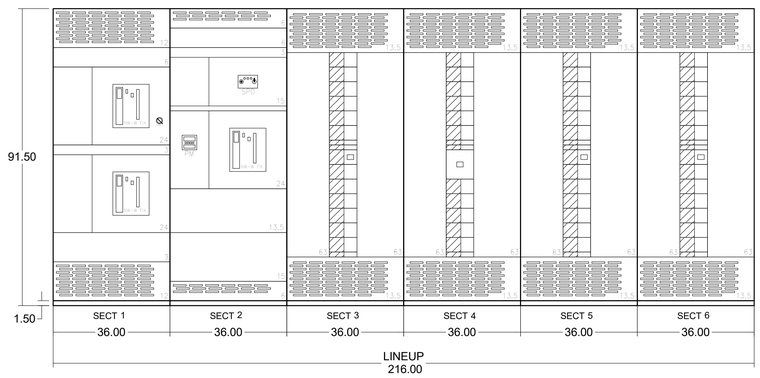
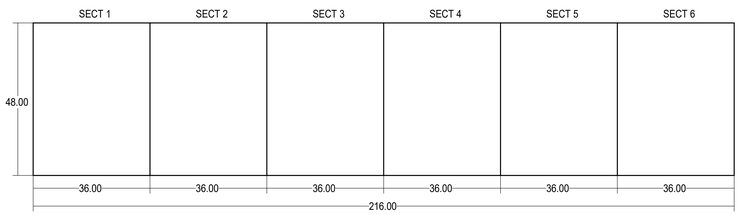
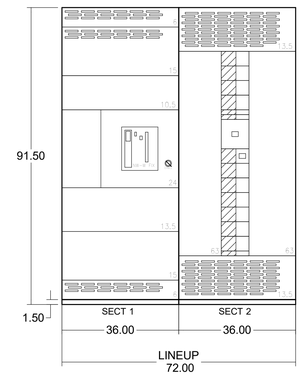
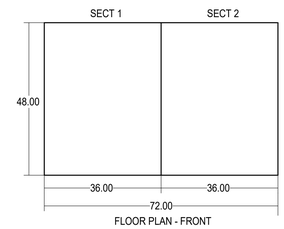




FLOOR PLAN - FRONT

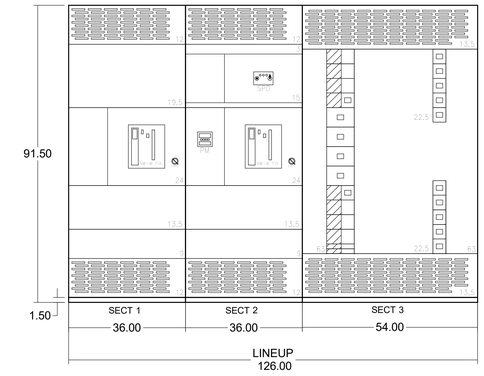
4 / E-604	SWITCHBOARD ESB ELEVATION	NTS

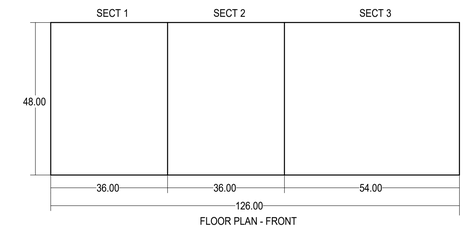




FLOOR PLAN - FRONT

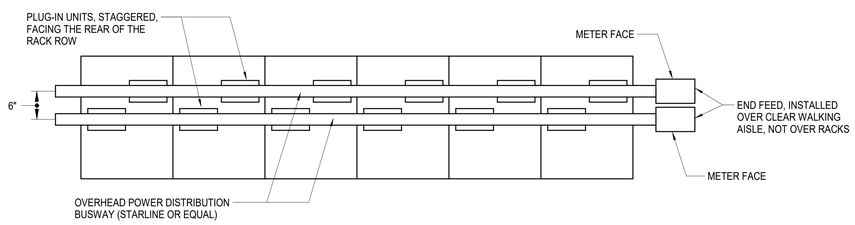
3 / E-604	SWITCHBOARD NSB ELEVATION	NTS





FLOOR PLAN - FRONT

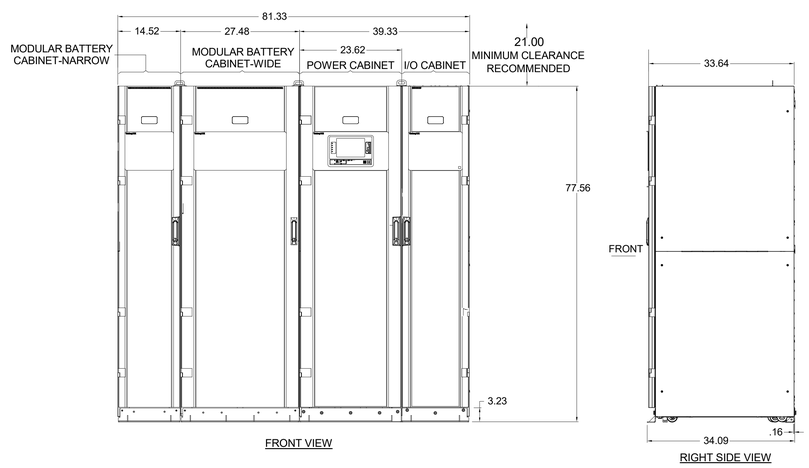
1 / E-604	SWITCHBOARD MSB-T ELEVATION	NTS



NOTES:

1. PROVIDE A BUSWAY SYSTEM, STARLINE BY UNIVERSAL ELECTRICAL PRODUCTS OR EQUAL. IN ADDITION TO THE COMPONENTS LISTED IN THESE NOTES. PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.
2. COORDINATE THE SUPPORT RODS WITH THE CABLE RUNWAYS AND OTHER TRADES TO AVOID CONFLICT WITH DUCTS, PIPING, AND EQUIPMENT, WHERE ATTACHMENT DIRECTLY TO THE BUILDING STRUCTURE IS NOT CHANNEL TRAPEZE HANGERS (SUPPORTED FROM THE STRUCTURE AT EACH END) BELOW THE OBSTRUCTION AND SUPPORT THE BUSWAY TRAPEZE FROM THIS HANGER. SPACE THE TRAPEZE HANGERS A MINIMUM OF 10 FEET ON CENTER OR MORE OFTEN AS REQUIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL SUPPORTS AT THE END FEED JUNCTION BOXES.
3. PROVIDE THE FOLLOWING COMPONENTS:
   - 3/8 INCH ROD HANGERS
   - 225 AMPERE BUSWAY (PROVIDE LENGTHS AS SHOWN ON DRAWINGS)
   - PROVIDE END FEED JUNCTION BOXES WITH DIGITAL POWER MONITORING. PROVIDE METER ORIENTATION AND POLARIZATION BASED ON THE ROOM LAYOUT.
   - BUSWAY ENDCAPS FOR END OF RUNS
   - BUSWAY COUPLERS
   - MANUFACTURER SPECIALITY INSTALLATION TOOL (PROVIDE ONE INSTALLATION TOOL)
4. PROVIDE OUTLET DEVICE BOXES (PLUG IN UNITS) IN QUANTITIES AND LOCATIONS WHERE SHOWN ON PLANS:
   - NEMA L21-20P IN A SINGLE ENCLOSURE WITH A THREE POLE, 20 AMPERE BREAKER
5. COORDINATE THE MOUNTING HEIGHT WITH THE RACK HEIGHT, CABLE TRAY LOCATIONS, AND ROOM CONDITIONS. MOUNT THE BUSWAY SO THAT IT IS 12" ABOVE THE HEIGHT OF THE CABLE TRAY TO THE UNDERSIDE OF THE BUSWAY.
6. INSTALL THE BUSWAY SO THAT IT IS OVER THE REAR OF THE RACKS AND THE OUTLETS FACE TOWARD THE REAR OF THE RACKS.

5 / E-604	OVERHEAD POWER DISTRIBUTION BUSSWAY	NTS



FRONT VIEW

RIGHT SIDE VIEW

2 / E-604	TYPICAL UPS ELEVATION	NTS

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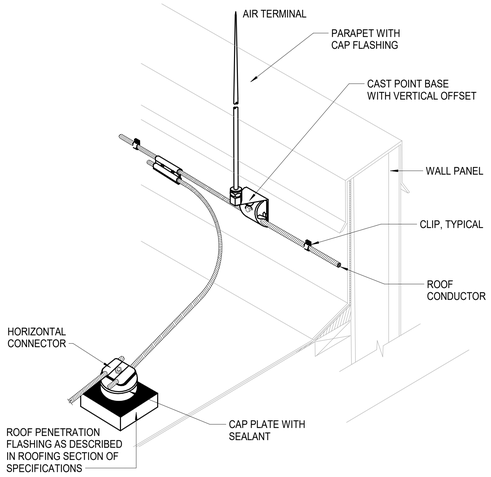
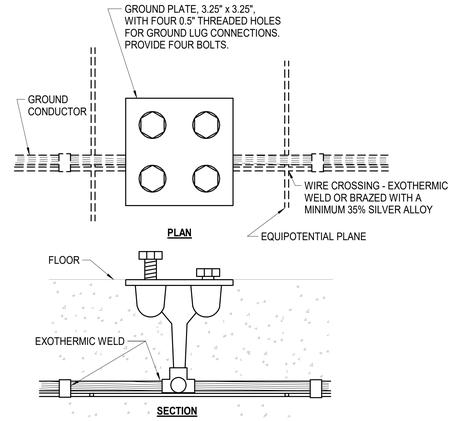


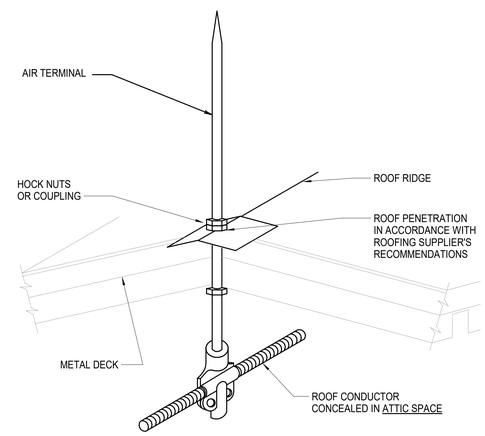
6 / E-605	PARAPET MOUNTED AIR TERMINALS	NTS



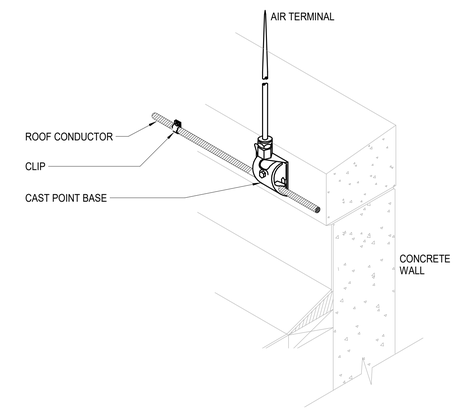
3 / E-605	LOCAL GROUND CONNECTION POINTS	NTS

LIGHTNING PROTECTION SYSTEM GENERAL NOTES

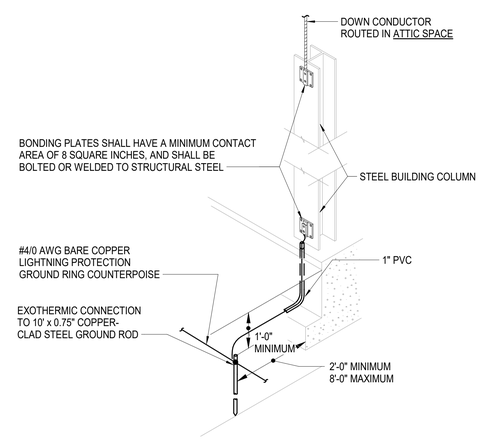
1. CONDUCTORS SHALL INTERCONNECT AIR TERMINALS AND FORM A TWO-WAY PATH FROM EACH POINT, HORIZONTALLY OR DOWNWARD, TO CONNECTIONS WITH GROUND TERMINALS.
2. LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NO MORE THAN 36" OC.
3. NO BEND OF CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° OR HAVE A RADIUS OF BEND LESS THAN 8". ANY RISE IN A HORIZONTAL CONDUCTOR RUN SHALL NOT EXCEED 6".
4. AIR TERMINALS SHALL BE PLACED 20' OC MAXIMUM AROUND ROOF PERIMETER OR RIDGE AND WITHIN 2' OF OUTSIDE EDGE AND SHALL PROJECT A MINIMUM OF 10" ABOVE THE AREA PROTECTED.
5. MIDROOF AIR TERMINALS SHALL BE PLACED 50' OC MAXIMUM.
6. PRIMARY METAL BODIES (OF CONDUCTANCE) LOCATED ABOUT THE ROOF (EXHAUST FANS, COOLING TOWERS, ETC) SHALL BE BONDED WITH FULL SIZE CONDUCTORS AND FITTED WITH AIR TERMINALS IF THEY ARE AS HIGH, OR HIGHER, THAN ADJACENT AIR TERMINALS, UNLESS LOCATED ENTIRELY WITHIN A ZONE OF PROTECTION AS DEFINED BY CODE.
7. SECONDARY METAL BODIES (OF INDUCTANCE) LOCATED ABOUT THE ROOF (FLASHINGS, GRAVEL STOPS, ROOF DRAINS, SOIL PIPE VENTS, LOUVERS, DOOR FRAMES, ETC) WITHIN 6' OF THE MAIN CONDUCTOR OR BONDED BODY SHALL BE INTERCONNECTED WITH SECONDARY BONDING CONDUCTORS.
8. BIMETAL CONNECTORS SHALL BE USED WHERE DISSIMILAR METALS COME IN CONTACT WITH EACH OTHER. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM SURFACES NOR SHALL ALUMINUM BE INSTALLED ON COPPER SURFACES.
9. CONNECTIONS TO GROUND RODS (OR COUNTERPOISE) SHALL BE MADE NO LESS THAN 2' BELOW GRADE AND 2' FROM FOUNDATION.
10. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER.
11. ELECTRIC AND TELEPHONE SERVICE ENTRANCE GROUNDS SHALL BE INTERCONNECTED TO THE LIGHTNING PROTECTION SYSTEM GROUND.
12. CONNECTIONS OF UNDERGROUND METAL PIPING SYSTEMS TO THE LIGHTNING PROTECTION SYSTEM GROUND SHALL BE MADE AT THEIR SERVICE ENTRANCE TO STRUCTURE.
13. ADHESIVE FIXTURES SHALL BE SET WITH AN ADHESIVE COMPOUND COMPATIBLE WITH THE ROOFING MATERIALS. ADHESIVE SHALL BE APPROVED IN ADVANCE BY ROOFING CONTRACTOR.
14. SEAL ENDS OF CONDUITS MOISTURETIGHT WITH DUCT SEAL OR LEAD WEDGES UNLESS OTHERWISE INDICATED.
15. WHERE THE STRUCTURAL STEEL FRAMEWORK IS UTILIZED AS MAIN CONDUCTORS FOR THE SYSTEM, PERIMETER COLUMNS SHALL BE GROUNDED AT INTERVALS AVERAGING NOT MORE THAN 60' APART, COLUMNS SHALL BE GROUNDED USING BONDING PLATES HAVING 8 SQUARE INCHES OF SURFACE CONTACT AREA OR BY EXOTHERMIC WELDED CONNECTIONS.



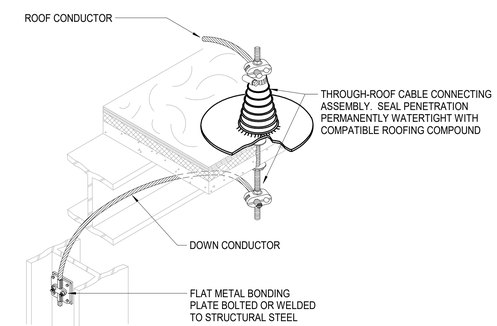
4 / E-605	THROUGH-RIDGE AIR TERMINALS	NTS



1 / E-605	PARAPET MOUNTED AIR TERMINALS	NTS



5 / E-605	GROUNDING TERMINALS	NTS



2 / E-605	THROUGH-ROOF CONNECTIONS TO STEEL	NTS

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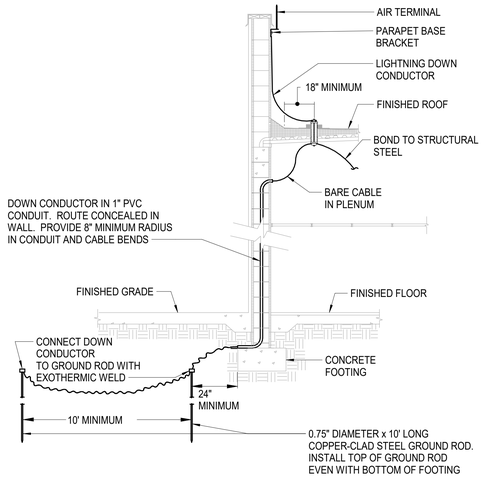
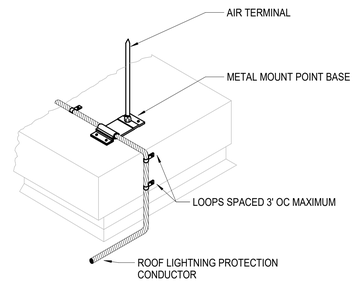
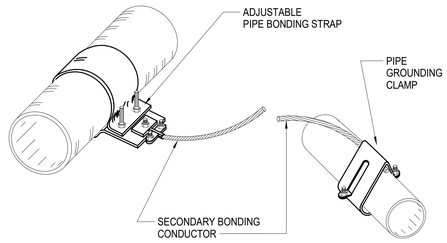


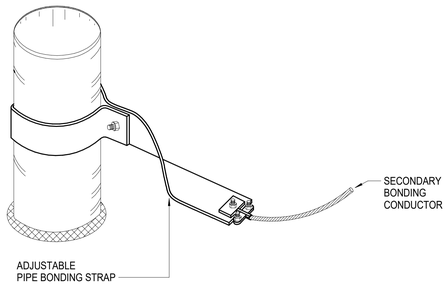
7 / E-606	LIGHTNING DOWN CONDUCTORS	NTS



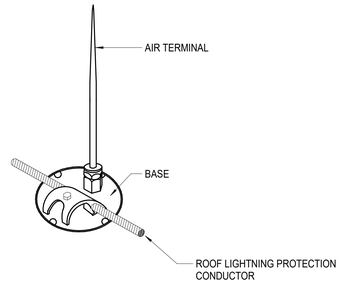
4 / E-606	AIR TERMINALS ON METAL ROOFTOP EQUIPMENT	NTS



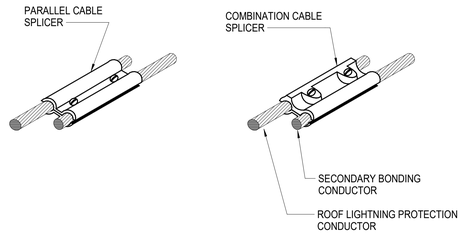
1 / E-606	PIPE BONDING CONNECTIONS	NTS



8 / E-606	VENT PIPE BONDING STRAPS	NTS

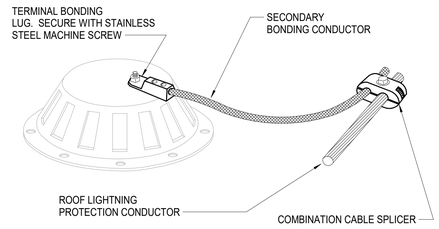


5 / E-606	ADHESIVE POINT BASES	NTS

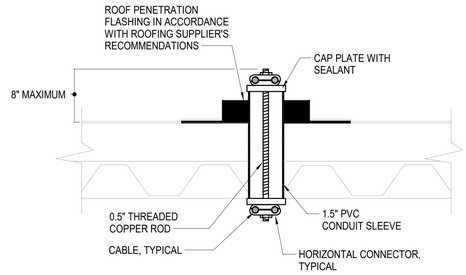


NOTES:
1. USE BIMETAL PARALLEL CLAMPS FOR CONDUCTORS OF DISSIMILAR METALS.

2 / E-606	CABLE SPLICERS	NTS



6 / E-606	ROOF DRAIN BONDS	NTS



3 / E-606	MECHANICAL THROUGH-ROOF CONNECTOR ASSEMBLY	NTS

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ELECTRICAL DETAILS

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CURRENT: 2020.11.20
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SHEET:
E-606

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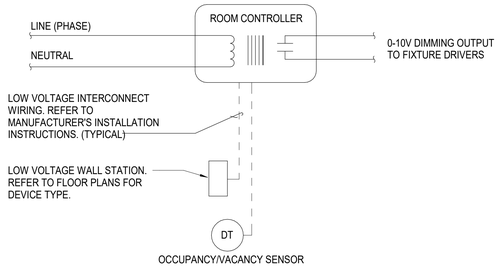
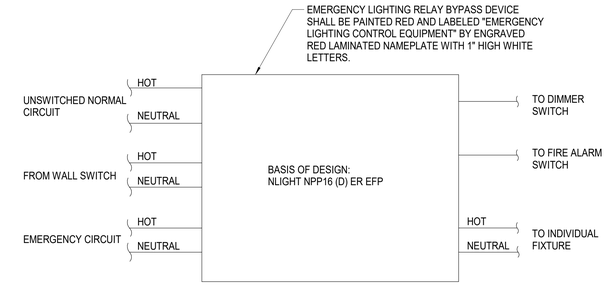


NOTES:

1. LOW VOLTAGE SWITCH SHALL HAVE FUNCTIONALITY (SWITCHING, OCCUPANCY OR DIMMING) AND NUMBER OF BUTTONS REQUIRED TO ACCOMMODATE ZONE SELECTION, ON/OFF SWITCHING AND RAISE/LOW CONTROL OF SELECTED ZONE.
2. ROOM CONTROLLERS SHALL BE LOCATED ABOVE THE NEAREST ACCESSIBLE CEILING.
3. REFER TO FLOOR PLANS FOR QUANTITY, LOCATIONS OF SWITCHES AND NUMBER OF ZONES CONTROLLED. PROVIDE POWER PACKS AS REQUIRED.
4. ROOM CONTROLLERS AND LOW VOLTAGE DIMMERS SHALL BE COMPATIBLE.
5. OCCUPANCY SENSOR SHALL ACT AS A "VACANCY SENSOR" (MANUAL ON, AUTOMATIC OFF) AND TURN LIGHTING OFF IF PERSON IS NO LONGER DETECTED IN THE ROOM. PROVIDE VACANCY TYPE SENSORS WHERE INDICATED ON FLOOR PLANS. PROVIDE OCCUPANCY TYPE SENSORS IN ALL OTHER AREAS.
6. LIGHTING CONTROL SYSTEM SHALL BE BY ONE OF THE FOLLOWING MANUFACTURERS: LITHONIA N-LIGHT, WATTSTOPPER DLM OR EATON GREENGATE.

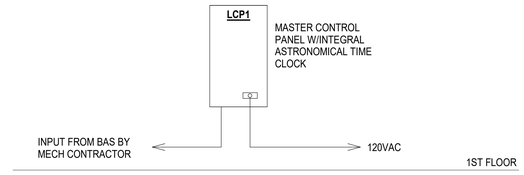
5 / E-607 LOW VOLTAGE LIGHTING CONTROL SYSTEM DIAGRAM — NTS



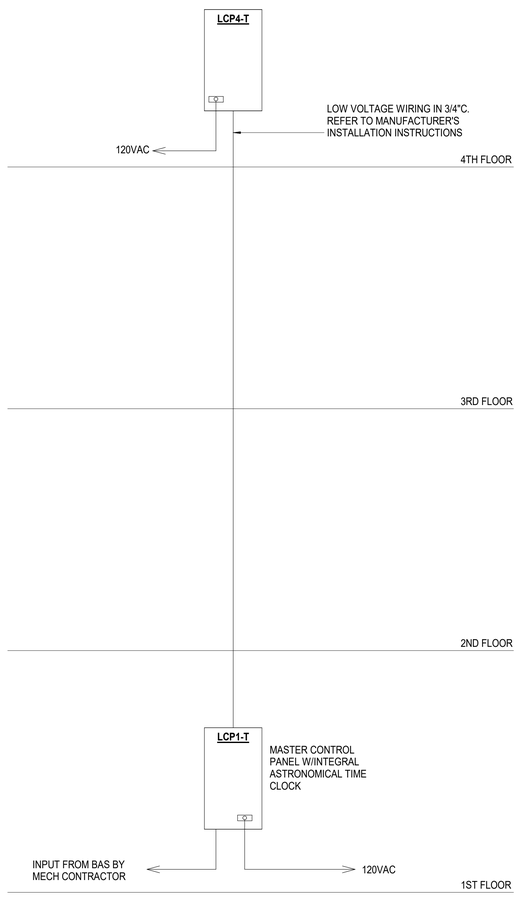
NOTES:

1. WHEN NORMAL POWER IS LOST EMERGENCY CIRCUIT SHALL BRING INDIVIDUAL LIGHT FIXTURE TO FULL BRIGHTNESS. ELR SHALL BE COMPATIBLE WITH DIMMING DRIVERS PROVIDED WITH LUMINAIRES.
2. ELR'S SHOWN ON PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY. ELR SHALL BE MOUNTED NEATLY TO STRUCTURE.

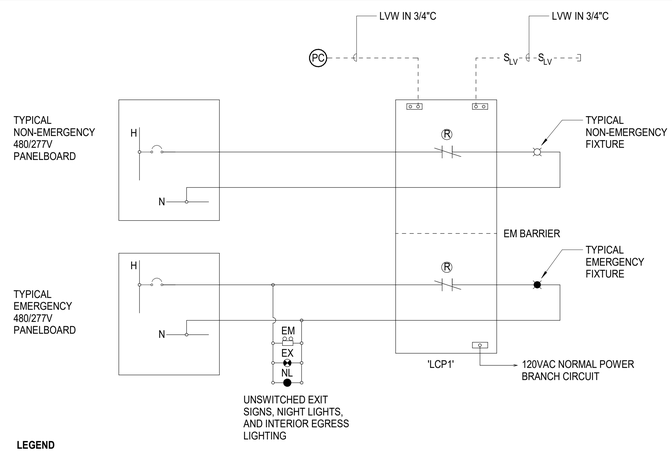
3 / E-607 EMERGENCY LIGHTING RELAY SCHEME — NTS



1 / E-607 EOC BUILDING LIGHTING CONTROL RELAY PANEL RISER DIAGRAM — NTS



6 / E-607 TOWER BUILDING LIGHTING CONTROL RELAY PANEL RISER DIAGRAM — NTS



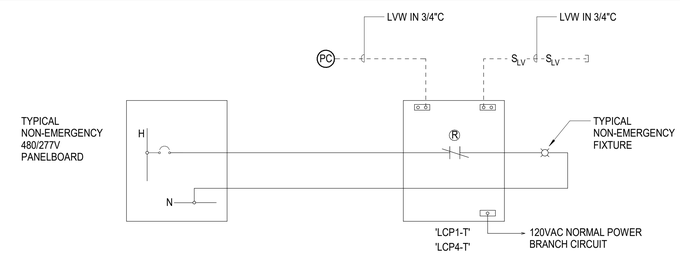
LEGEND

S_{LV}	LOW VOLTAGE OVERRIDE SWITCH
(R)	LOW VOLTAGE RELAY
LCP	LIGHTING CONTROL PANEL
LVW	LOW VOLTAGE DATA CABLE PER MFR
(PC)	EXTERIOR PHOTOCELL

NOTES:

1. PROVIDE LIGHTING RELAY PANEL WITH 24 RELAYS INCLUDING NORMAL AND EMERGENCY RELAYS, EQUIVALENT TO WATTSTOPPER LMCP SERIES.

4 / E-607 EOC BUILDING LIGHTING CONTROL RELAY PANEL DIAGRAM — NTS



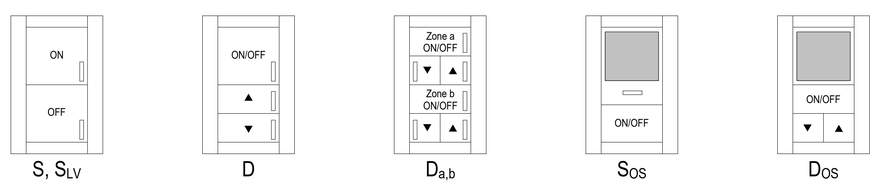
LEGEND

S_{LV}	LOW VOLTAGE OVERRIDE SWITCH
(R)	LOW VOLTAGE RELAY
LCP	LIGHTING CONTROL PANEL
LVW	LOW VOLTAGE DATA CABLE PER MFR
(PC)	EXTERIOR PHOTOCELL

NOTES:

1. PROVIDE LIGHTING RELAY PANEL WITH 12 RELAYS, EQUIVALENT TO WATTSTOPPER LMCP SERIES.

2 / E-607 TOWER BUILDING LIGHTING CONTROL RELAY PANEL DIAGRAM — NTS



7 / E-607 TYPICAL LOW VOLTAGE LIGHTING SWITCH CONFIGURATIONS — NTS

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NOT FOR CONSTRUCTION

NHC Goverment Center 7702-190810

NEW HANOVER COUNTY GOVERNMENT CENTER

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL DETAILS - LIGHTING CONTROLS

DATE:
CURRENT: 2020.11.20
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SHEET:
E-607

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