

REVISION	
1	5-6-19
9	6-7-19

ELECTRICAL SYMBOLS		
SYMBOL	DESCRIPTION	MOUNTING *
—	ARROW INDICATES CIRCUIT HOMERUN	---
⏏	TICK MARKS INDICATE WIRE QUANTITY (MORE THAN 2)	---
▬	PANELBOARD	78" AFF
▭	SPECIAL CABINET OR ENCLOSURE	VERIFY
⏏	DISCONNECT SWITCH	48" AFF
⏏	JUNCTION BOX (PICTAL SHOWN)	AS NOTED
⏏	JUNCTION BOX	AS NOTED
⏏	MOTOR	---
⏏	DUPLEX RECEPTACLE	16" AFF *
⏏	DUPLEX RECEPTACLE ABOVE COUNTER	---
⏏	DUPLEX RECEPTACLE W/ WEATHERPROOF COVER	16" AFF *
⏏	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER	16" AFF *
⏏	QUADRUPLEX RECEPTACLE	16" AFF *
⏏	DUPLEX RECEPTACLE W/ USB PORTS LEVITON T-5632	36" AFF *
⏏	SPECIAL RECEPTACLE - NEMA CONFIG. NOTED	16" AFF *
⏏	SPECIAL RECEPTACLE - NEMA CONFIG. NOTED	16" AFF *
⏏	FLOOR	---
⏏	PLUGMOLD STRIP WITH RECEPT 12"OC UNLESS NOTED	AS DIRECTED
S	SWITCH - SINGLE POLE	48" AFF **
S ₃	SWITCH - 3 WAY	48" AFF **
S ₄	SWITCH - 4 WAY	48" AFF **
S _D	SWITCH - DIMMER (1000W MINIMUM)	48" AFF **
S _C	SWITCH - SPEED CONTROL	48" AFF **
S _M	SWITCH - MOTION DETECTOR	48" AFF **
⏏	COMBINATION VOICE/DATA OUTLET FLUSH WALLBOX WITH 3/4" C. STUB ABV CLG	16" AFF
⏏	TV/POWER WALL BOX, EQUAL TO ARLINGTON TVBS505 WITH NEMA 5-20R RECEPT & 1" C. STUB ABV CLG	48" AFF OR AS NOTED *
⏏	THERMOSTAT	48" AFF **
AFF	ABOVE FINISHED FLOOR	---
AFC	ABOVE FINISHED CEILING	---
BFC	BELOW FINISHED CEILING	---
⏏	SMOKE DETECTOR - DUCT MOUNTED	---

* REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
 ** HANDLE OR OPERATOR-DEVICE MUST BE LOCATED NO MORE THAN 48" AFF, FOR COMPLIANCE WITH ADA

ELECTRICAL NOTES:

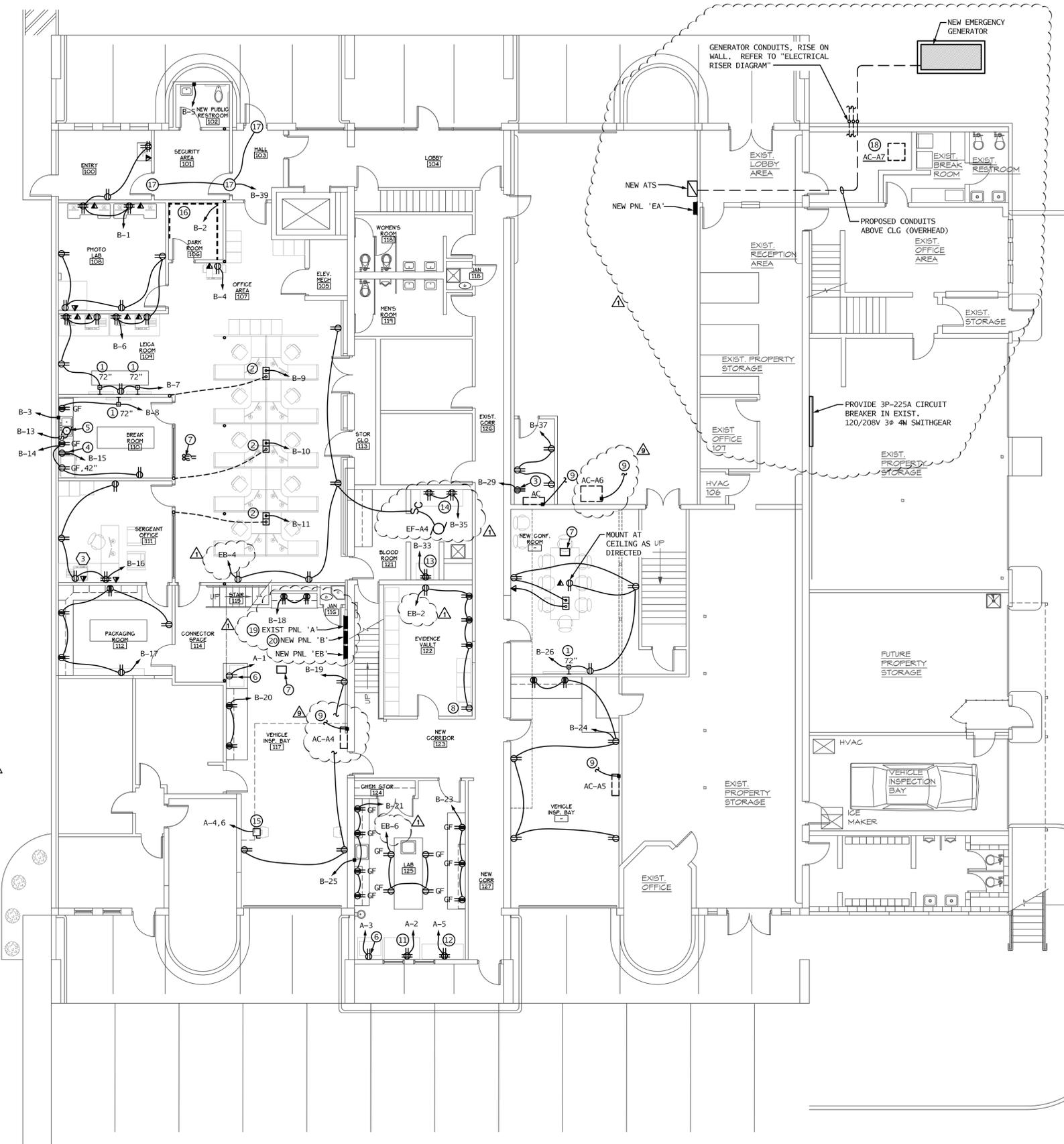
REFERENCED:

- TV WALL BOX (VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN), WITH DUPLEX RECEPTACLE AND COAXIAL CONNECTOR FOR TV. BOX TO BE STEEL, FLUSH MOUNTED, 2 GANG, WITH WHITE TRIM PLATE, EQUAL TO ARLINGTON TVBS505. STUB 3/4" C. FROM LOW VOLTAGE COMPARTMENT TO AN ACCESSIBLE LOCATION ABOVE CEILING OR AS DIRECTED.
- PROVIDE FLOOR BOX AND CONNECTION TO MODULAR FURNITURE FEED AS REQUIRED. COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR FURNITURE FEEDS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN. PROVIDE 2" CONDUIT FROM FLOOR BOX TO ACCESSIBLE LOCATION ABOVE CEILING FOR TELEPHONE/DATA
- PROVIDE RECEPTACLE FOR SERVER UPS. FOR ESTIMATING PURPOSES PROVIDE NEMA L6-30R RECEPTACLE (VERIFY ACTUAL REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN).
- DUPLEX RECEPTACLE FOR UNDERCOUNTER DISHWASHER. LOCATE BELOW COUNTER AS DIRECTED. DIRECT CONNECTION FROM J-BOX MAY BE USED IF ACCEPTABLE TO LOCAL AHJ. CONNECT TO "GFCI" CIRCUIT BREAKER.
- PROVIDE 120V, 20A CIRCUIT FOR DISPOSAL AT SINK. PROVIDE SPST TOGGLE SWITCH FOR CONTROL. CONNECT TO "GFCI/AFCI" CIRCUIT BREAKER.
- QUANTITY OF 2 - FINGERPRINT FUMING HOOD (ARROWHEAD FORENSICS - ARROWFLOW PC36). PROVIDE DUPLEX RECEPTACLE ON DEDICATED 20 AMP BREAKER. PROVIDE NEW 1P-20A BREAKER IN EXISTING PANEL 'A', CKT A-1 OR A-3.
- IN EXISTING VEHICLE INSPECTION AREA REMOVE EXISTING IN GROUND INSPECTION LIGHTING AND EXISTING CONDUIT MOUNTED RECEPTACLES AS REQUIRED. REMOVE DEVICES AND WIRING AND ABANDON CONDUITS. MAINTAIN CIRCUIT CONTINUITY FOR ANY DEVICES TO REMAIN.
- DUPLEX RECEPTACLE FOR UNDER COUNTER REFRIGERATOR. LOCATE AS DIRECTED.
- HIGH-WALL DUCTLESS A/C UNIT POWER SOURCE TO BE FED FROM ASSOCIATED OUTDOOR UNIT. WIRING TO BE 14/3 W/ GD MC CABLE AND BE RUN WITH REFRIGERANT PIPING. IF REQUIRED BY AHJ, PROVIDE LOCAL POWER DISCONNECT EQUAL TO HUBBELL HBL7810D, LOCATED AS DIRECTED.
- PROVIDE POWER FOR CONDENSING UNIT. 2P-30A BREAKER, 2 #10, #10 GD, 3/4" C. PROVIDE 2P-30A FUSED DISCONNECT SWITCH (NEMA 3R), FUSED AS REQUIRED.
- CYANOACRYLATE FUMING CHAMBER (AIRSCIENCE SAFEFUME CATRI-A) - PROVIDE QUADRUPLEX RECEPTACLE ON DEDICATED 20 AMP BREAKER. PROVIDE NEW 1P-20A BREAKER IN EXISTING PANEL 'A', CKT A-2.
- CHEMICAL FUME HOOD (LABCONCO FREE STANDING) - PROVIDE QUADRUPLEX RECEPTACLE ON DEDICATED 20 AMP BREAKER. PROVIDE NEW 1P-20A BREAKER IN EXISTING PANEL 'A', CKT A-5.
- FORENSIC DRYING CABINET (MYSTAIER/MISONIX SINGLE CHAMBER) - PROVIDE DUPLEX RECEPTACLE ON DEDICATED 20 AMP BREAKER.
- FORENSIC DRYING CABINET (AIRSCIENCE SAFEKEEPER FDC-010-QUAD-A) - PROVIDE (2) QUADRUPLEX RECEPTACLES ON DEDICATED 20 AMP BREAKER.
- PROVIDE POWER FOR CAR LIFT. PROVIDED 2P-30A FUSED DISCONNECT SWITCH (NEMA 1), FUSE AS REQUIRED. VERIFY EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. PROVIDE NEW 2P-30A BREAKER IN EXISTING PANEL 'A', CKT A-4,6.
- PROVIDE PLUGMOLD STRIP WITH NEMA 5-15R RECEPTACLES AT 36" O.C., MOUNTED ALONG WALL ABOVE COUNTER AS DIRECTED. STRIP ASSEMBLY TO BE EQUAL TO WIREMOLD 20G306TR SERIES, BLACK COLOR.
- PROVIDE SUITABLE 120VAC POWER SOURCE FOR FUTURE SECURITY DOOR MAG LOCK. PROVIDE FLUSH J-BOXES 48" AFF AND 3/4" CONDUITS STUB ABOVE CEILING AT ENTRY/EXIT SIDES OF DOOR. COORDINATE REQUIREMENTS WITH OWNER AND VENDOR.
- DISCONNECT, RECONNECT, AND MODIFY ELECTRICAL CONNECTION TO EXISTING HVAC UNIT BEING REPLACED. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- EXISTING ELECTRICAL PANEL 'A' - SQUARE D TYPE NQ, 120/208V, 3P, 400A MLO. PROVIDE NEW BREAKERS AS REQUIRED.
- NEW PANEL 'B' - 120/208V, 3P, 225A MAIN BREAKER. PROVIDE FEED THRU LUGS IN EXISTING PANEL 'A' WITH (4) #4/0, #4 GD, 2 1/2" C. (10 FOOT TAP RULE). REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.

UNREFERENCED:

- A COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL EQUIPMENT TO BE INSTALLED IN STRICT ACCORD WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE OWNER. ADJUST RATINGS AND TYPES OF CIRCUIT OVERCURRENT PROTECTION DEVICES TO COMPLY WITH ACTUAL NAMEPLATE DATA OF EQUIPMENT. COORDINATE REQUIREMENTS WITH OTHER CONTRACTORS AND VENDORS.
- B PENETRATIONS OF FIRE-RATED BUILDING COMPONENTS BY RACEWAYS AND CABLES TO BE PROVIDED WITH APPROPRIATE FIRE BARRIERS. METHODS AND MATERIALS TO BE UL LISTED AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM-E814/UL1479.

PENETRATIONS OF SMOKE BARRIER BUILDING COMPONENTS BY RACEWAYS AND CABLES TO BE PROVIDED WITH APPROPRIATE SMOKE-TIGHT CAULKING AND/OR SEALS.
- C MULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED. MULTIPLE LIGHTING AND APPLIANCE CIRCUITS MAY NOT BE COMBINED TO UTILIZE COMMON NEUTRAL CONDUCTOR. (REFER TO NEC 210.4)
- D WHERE POSSIBLE, IN FINISHED AREAS CONCEAL WIRING IN NEW CONSTRUCTION. WHERE IMPRACTICAL TO CONCEAL AT EXISTING CONSTRUCTION, USE SURFACE RACEWAY SYSTEM EQUAL TO WIREMOLD #2000.



1ST FLOOR POWER PLAN
 GRAPHIC SCALE (IN FEET) SCALE: 1/8" = 1'-0"



**CHATTANOOGA POLICE DEPT.
 INTERIOR RENOVATIONS**
 ANNEX FACILITY
 3201 AMNICOLA HIGHWAY
 CHATTANOOGA, TENNESSEE



1st FLOOR
 POWER PLAN
 2/22/2019
 17-23
 JCP
E2.1

Project #: 1850

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