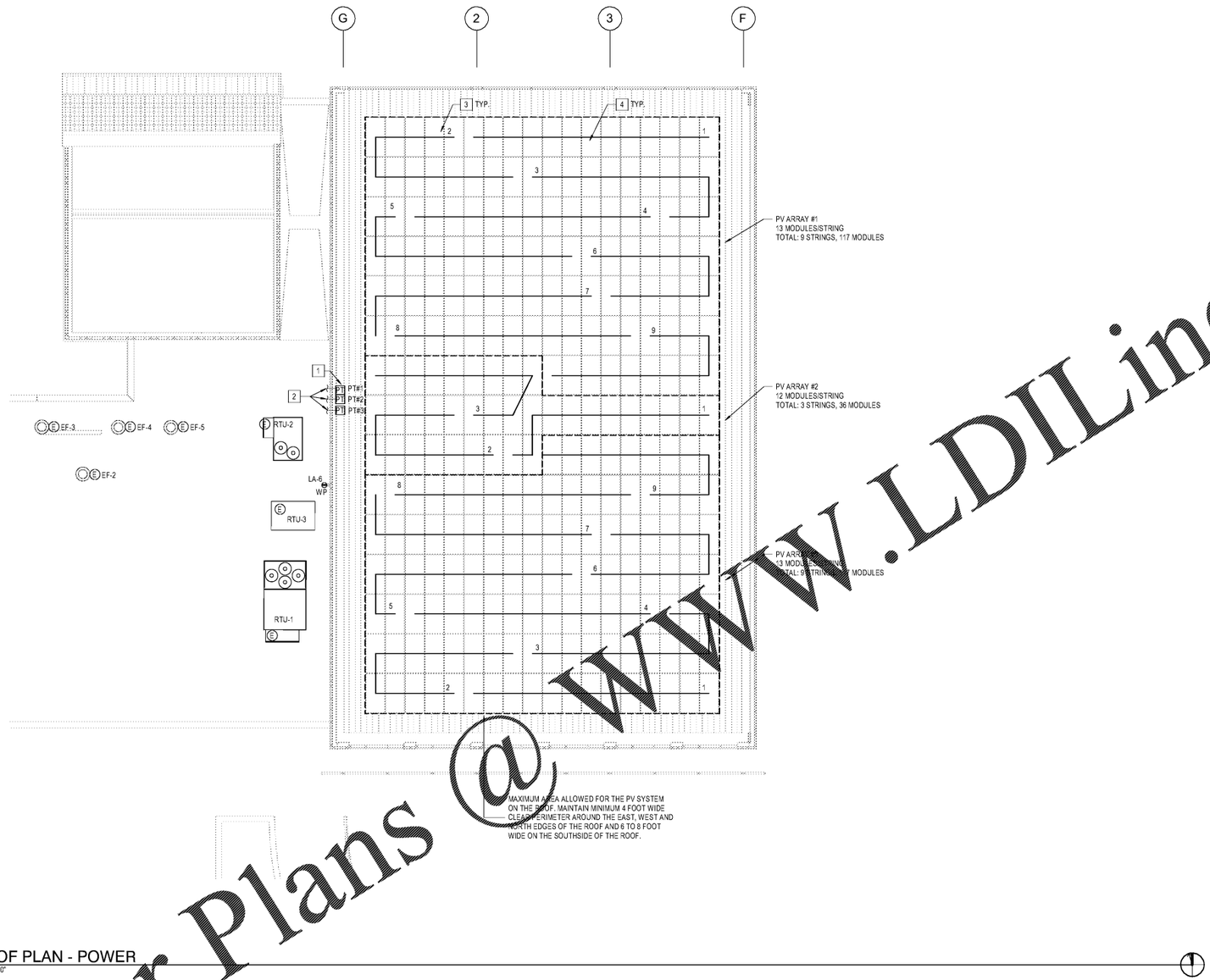

1 ROOF PLAN - POWER
1/8" = 1'-0"

GENERAL NOTES

A. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET EP601 FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION INFORMATION.

PHOTOVOLTAIC GEN. NOTES

A. PROVIDE A COMPLETE AND FULLY OPERATIONAL GRID-TIED, ROOF MOUNTED PHOTOVOLTAIC (PV) SYSTEM. ORGANIZE THE PV SYSTEM TO ACCOMPLISH THE FUNCTIONS THE ROOF HAD TO PROVIDE. PROVIDE A NON-PENETRATING MOUNTING BRACKET AND CLAMP ON THE STANDING METAL SEAMS OF THE METAL ROOF FOR THE PV MODULE SUPPORT (UNIRAC RACECLAMP JR SEAMED METAL ROOF MOUNTS SOLUTION OR APPROVED SUBSTITUTE).

B. EQUIPMENT USED SHALL MEET ALL UTILITY INTERCONNECTION REQUIREMENTS AND ARE SUBJECT TO UTILITY APPROVAL PRIOR TO INSTALLATION.

C. ARRAY PHOTOVOLTAIC WIRING SHALL BE #10 COPPER PV CABLE. ARRAY WIRING AND MODULE INTERCONNECTIONS SHALL BE RAN EXPOSED ONLY WHEN DIRECTLY BENEATH THE ARRAY AND SUPPORTED TO THE SUPPORT FRAME SYSTEM VIA RATED TIE WRAPS. SPLICES SHALL BE DONE IN AN APPROVED ENCLOSURE.

D. CONDUCTOR INSULATION SHALL BE DESIGNATED "-2" FOR CONTINUOUS DUTY IN WET LOCATIONS AT 90 DEGREES CELSIUS. EQUIPMENT AND CONDUCTORS ON THE DC SIDE OF THE PV SYSTEM SHALL BE RATED FOR 600V DC. DC CONDUITS SHALL BE LABELED "CAUTION SOLAR CIRCUIT" EVERY 10' WITH 3/8" WHITE LETTERING ON RED BACKGROUND. ADDITIONAL PLACECARDS FOR PV EQUIPMENT SHALL BE IN ACCORDANCE WITH NEC-2017.

E. METALLIC DC CONDUITS SHALL HAVE BOND BUSHINGS IN PLACE ON BOTH ENDS OF THE CONDUITS AND BONDED TO THE GROUNDING CONDUCTOR WHICH IS CONTAINED INSIDE THE CONDUIT.

KEY NOTES

1 LOCATION OF PHOTOVOLTAIC PASS THROUGH BOXES #1, #2 AND #3. SEE DETAIL 1 ON SHEET EP601 FOR MORE INFORMATION.

2 ROUTE THE (5) 1-1/4" CONDUITS FROM EACH PV PASS THROUGH BOXES TO THE APPROPRIATE INVERTER IN THE ELECTRICAL ROOM. ROUTE THE CONDUITS CONCEALED IN THE GYM WALL AND ABOVE THE GRID CEILING OF THE FIRST FLOOR. EXTEND THE CONDUITS ABOVE CEILING TO THE ELECTRICAL ROOM ROUTING CONDUITS AROUND THE IT ROOM. SEAL ALL ROOF PENETRATIONS AS REQUIRED. SEE DETAIL 1 ON SHEET EP101 FOR INVERTERS LOCATIONS.

3 PHOTOVOLTAIC MODULE. TYPICAL OF 270 MODULES.

4 PHOTOVOLTAIC MODULES INTERCONNECTED BY #10 COPPER PV CABLE. REFER TO THIS DRAWING AND TO DRAWING EP601 FOR THE NUMBER OF MODULES PER STRING AND NUMBER OF STRINGS PER ARRAY.

GRAPHIC SCALE(S)

1/8" = 1'-0" 0 5' 10' 15' 30'

City of Asheville/ Parks & Recreation

DR. WESLEY GRANT SR. CENTER EXPANSION

285 LIVINGSTON STREET
ASHEVILLE, NC 28801

DESIGNER

CLARKNEXSEN
301 COLLEGE STREET, SUITE 300
ASHEVILLE, NORTH CAROLINA 28801
828.252-9600
CLARK NEXSEN LICENSE NUMBER: C-1128

PROFESSIONAL SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 041618 MARGO G. BRADSHAW

SUBMITTAL
03.12.2021
CONSTRUCTION DOCUMENTS

REVISIONS

KEY PLAN

SHEET
ROOF PLAN - POWER

EP102

DRAWN: BROOKINS
DSGN: BRADY
REVIEW: BRADSHAW

CN 7904-A

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