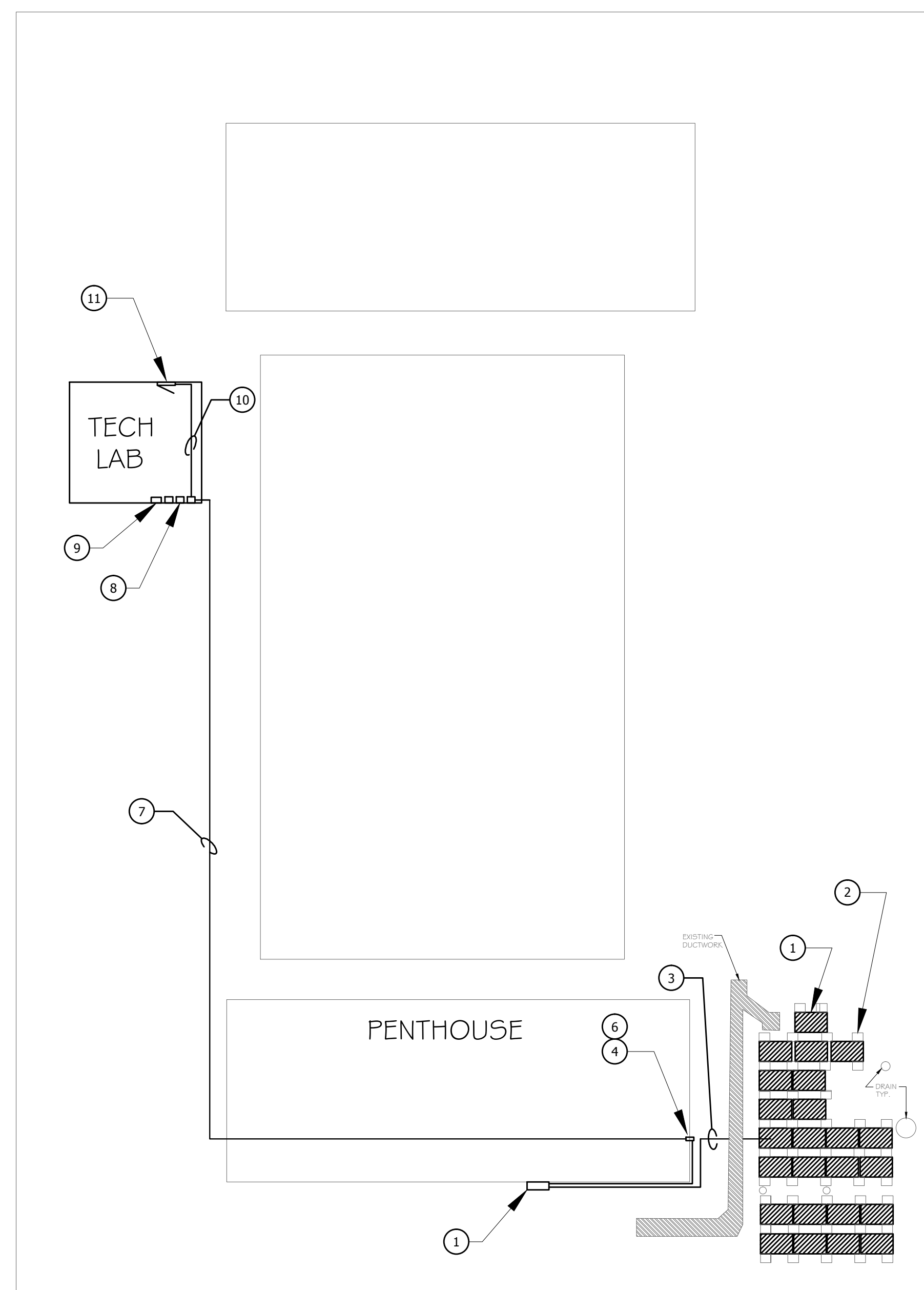


TABLE A: OUTPUT CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

CONDUCTOR LOCATIONS 'A'	1.56@1sc (A)	Imp (A)	Voc (VDC) Max	Vmp (VDC)	CONDUCTOR LENGTH, LONGEST STRING (FT)	VOLTAGE DROP (%)	CURRENT CARRYING CONDUCTOR SIZE	CONDUCTOR TYPE	GROUNDING CONDUCTOR	CONDUIT
PV STRING 1	15.2	8.09	249.6	36.1	260.00	3.19	#10	#10AWG GOOV	#6 AWG	FREE AIR, 2" CONDUIT
PV STRING 2	15.2	8.09	249.6	36.1	250.00	3.06	#10	#10AWG GOOV	#6 AWG	FREE AIR, 2" CONDUIT
PV STRING 3	15.2	8.09	249.6	36.1	275.00	3.37	#10	#10AWG GOOV	#6 AWG	FREE AIR, 2" CONDUIT
					Average Voltage Drop	3.21				

TABLE B: AC CONDUCTOR AND CONDUIT IDENTIFICATION

CONDUCTOR LOCATION	NOMINAL VOLTAGE (VAC)	PHASES	GENERATION CAPACITY (A)	CURRENT CARRYING CONDUCTOR SIZE	# CONDUCTORS PER PHASE	CONDUCTOR TYPE	NEUTRAL CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR	CONDUIT
B - PV INV 1 TO PANELBOARD	277	1	16	12	1	THWN-2 CU	12	#12 THWN-2 CU	1/2" EMT
B - PV INV 2 TO PANELBOARD	277	1	16	12	1	THWN-2 CU	12	#12 THWN-2 CU	1/2" EMT
B - PV INV 2 TO PANELBOARD	277	1	16	12	1	THWN-2 CU	12	#12 THWN-2 CU	1/2" EMT
C	DATA	N/A	N/A	RS-485	N/A	RS-485	N/A	CAT 5E	3/4" EMT



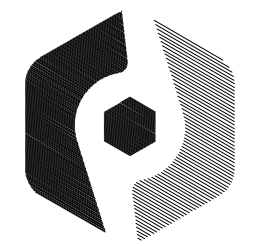
1 ROOF INSTALLATION – BUNGER HENRY BUILDING
E-2 SCALE: 1/16" = 1'-0"

GENERAL NOTES

PER THE CODE REQUIREMENTS OF IFC 605.11.1.3, A 4'-0" MINIMUM PATHWAY IS REQUIRED BETWEEN THE PARAPET AND PHOTOVOLTAIC ARRAYS. THE ARRAY CONFIGURATIONS AND LAYOUTS SHOWN ON THIS DRAWING ARE DIAGRAMMATIC IN NATURAL ONLY, AND SOME LAYOUT CHANGES MAYBE REQUIRED TO MEET THESE PATHWAY CLEARANCES.

KEYNOTES

1. MODULE ARRAY, ROOF-MOUNTED, STRING OF 8.
2. APPROXIMATE LOCATION OF WEATHER STATION
3. CONDUIT RUN ON ROOF-TOP. MAINTAIN AT LEAST 4'-6" MINIMUM CLEARANCE ABOVE ROOF STRUCTURE USING RUBBER WEDGE SUPPORTS.
4. PENETRATION OF (2) CONDUITS (POWER & DATA) THROUGH WALL INTO PENTHOUSE AREA.
5. LOCATION OF 30A DC DISCONNECT.
6. CONDUITS TRANSITION VERTICALLY FROM PENTHOUSE TO 2ND FLOOR.
7. CONDUITS TRANSITION HORIZONTALLY ALONG UNDERSIDE OF CEILING IN SECOND FLOOR CORRIDOR.
8. APPROXIMATE LOCATION OF (3) INVERTER INSTALLATIONS.
9. APPROXIMATE LOCATION OF 30A MANUAL TRANSFER SWITCH.
10. CONDUIT RUN FROM OUTPUT OF INVERTERS TO EXISTING 600A PANELBOARD.
11. APPROXIMATE LOCATION OF EXISTING 600A PANELBOARD.



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CHECKED BY: BA/RK

ISSUE / REVISIONS:

DATE	DESCRIPTION
10/27/2016	PERMIT SET

SHEET NAME:

ELECTRICAL ROOF PLAN & WIRE SIZING TABLE

SHEET NUMBER:

E-2

10/27/2016