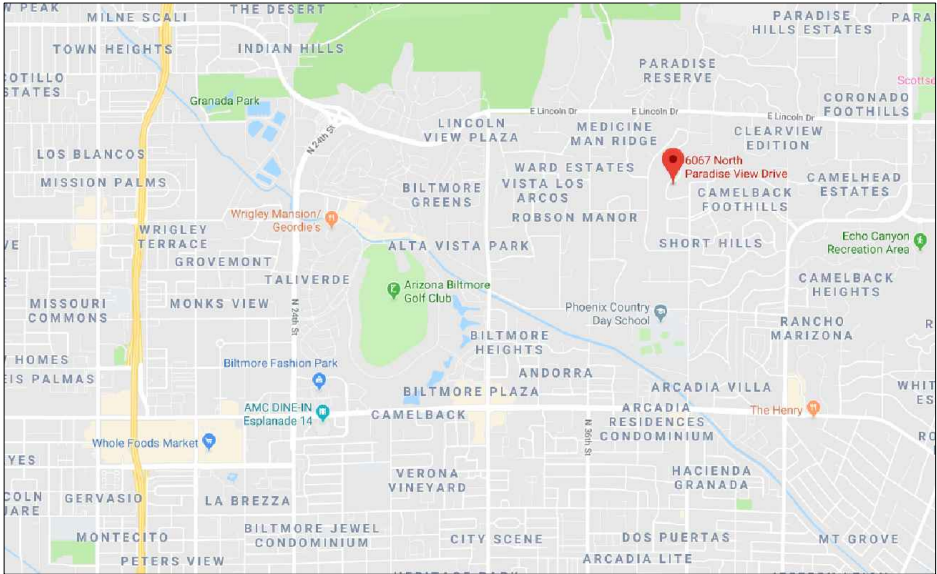
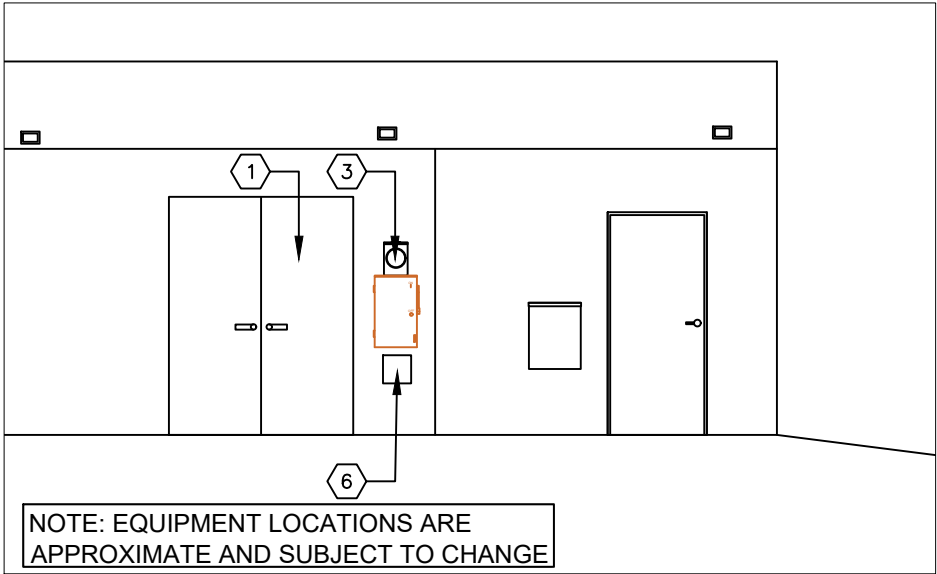




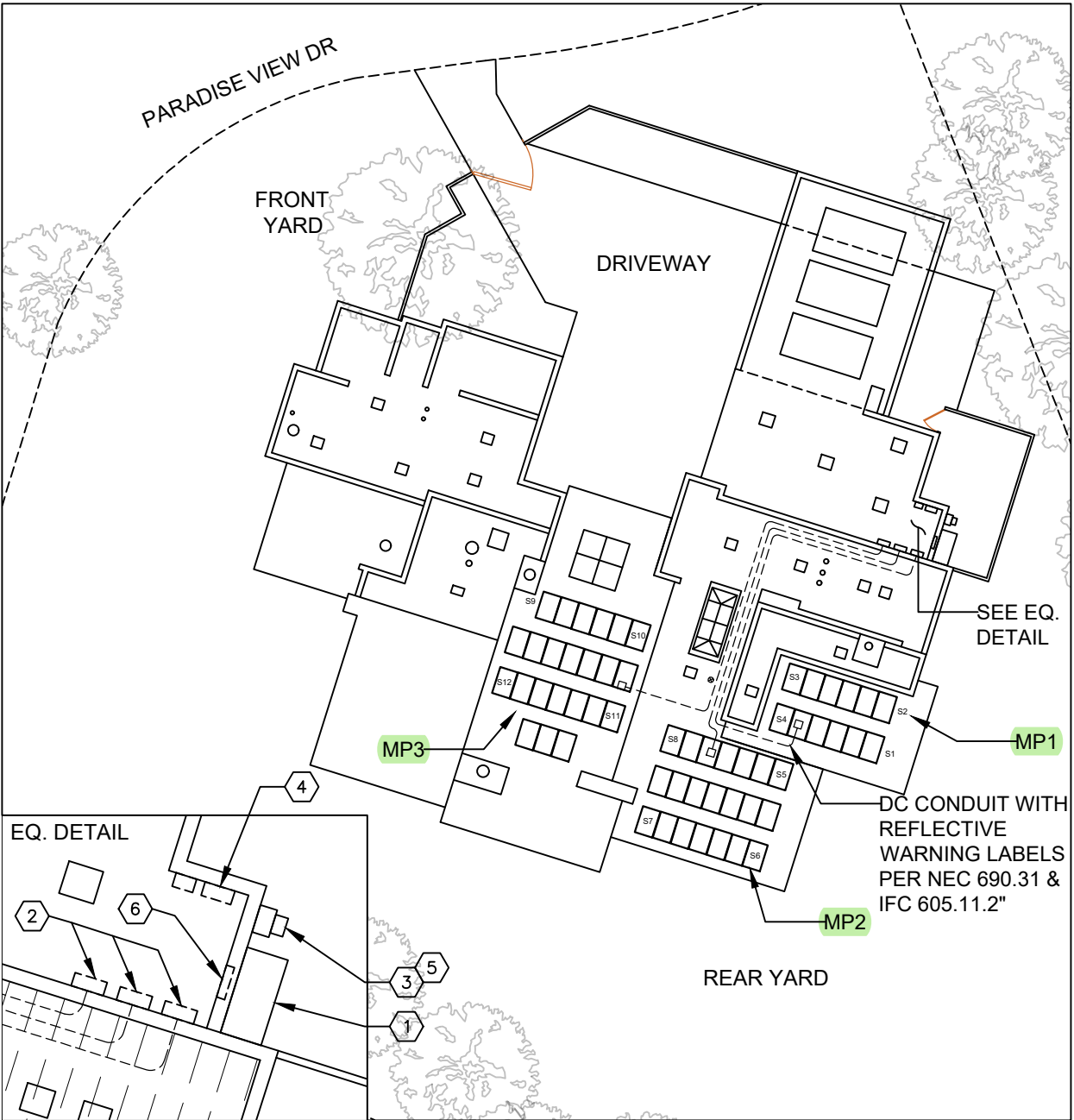
SITE LOCATION



AERIAL VIEW



EQUIPMENT LAYOUT



SITE PLAN

MP1	PITCH: 10 AZIMUTH: 197 MATERIAL: Rolled Asphalt MOUNTING: Tilt Structure
MP2	PITCH: 10 AZIMUTH: 197 MATERIAL: Rolled Asphalt MOUNTING: Tilt Structure
MP3	PITCH: 10 AZIMUTH: 197 MATERIAL: Rolled Asphalt MOUNTING: Tilt Structure

3 Arrays

ROOF LEGEND	
⊗	GAS VENT
⊠	T-TOP VENT
⊡	DORMER VENT

PARCEL INFO
PARCEL #: 164-04-074
SQUARE FOOTAGE: 8,615
CONST. YEAR: 2007

Project Manager:
Kaleina Eden
Sales Person:
Bobby Burnett

270° 90°
180°
SCALE: NTS

- NOTE:**
- UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.
 - WORKSPACE IN FRONT OF THE AC ELECTRICAL SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH SRP & NEC REQUIREMENTS. FOR SRP REQUIREMENTS, REFERENCE SRP E.S.S.
 - REFERENCE SRP E.S.S FOR ELECTRIC METER SEPARATION BETWEEN WATER & GAS.

SCOPE OF WORK

TO INSTALL A PHOTOVOLTAIC (PV) SYSTEM AT THE
Yearly, Frank Residence
LOCATED AT
6067 N Paradise View Dr
Paradise Valley, AZ 85253

THE POWER GENERATED BY THE PV
SYSTEM WILL BE INTERCONNECTED WITH
THE UTILITY GRID THROUGH THE EXISTING
ELECTRICAL SERVICE EQUIPMENT.

SHEET INDEX

PV1 SITE MAP / SITE PLAN
PV2 ROOF PLAN
E1 THREE LINE DIAGRAM
L1 LABELING
ATTACHMENTS: CUT-SHEETS

GOVERNING CODES

LOCAL JURISDICTION - Paradise Valley
UTILITY - SRP
2014 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL RESIDENTIAL CODE
2015 INTERNATIONAL FIRE CODE
CITY AMENDMENTS

SITE PLAN NOTES

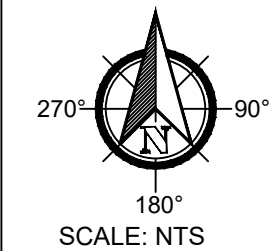
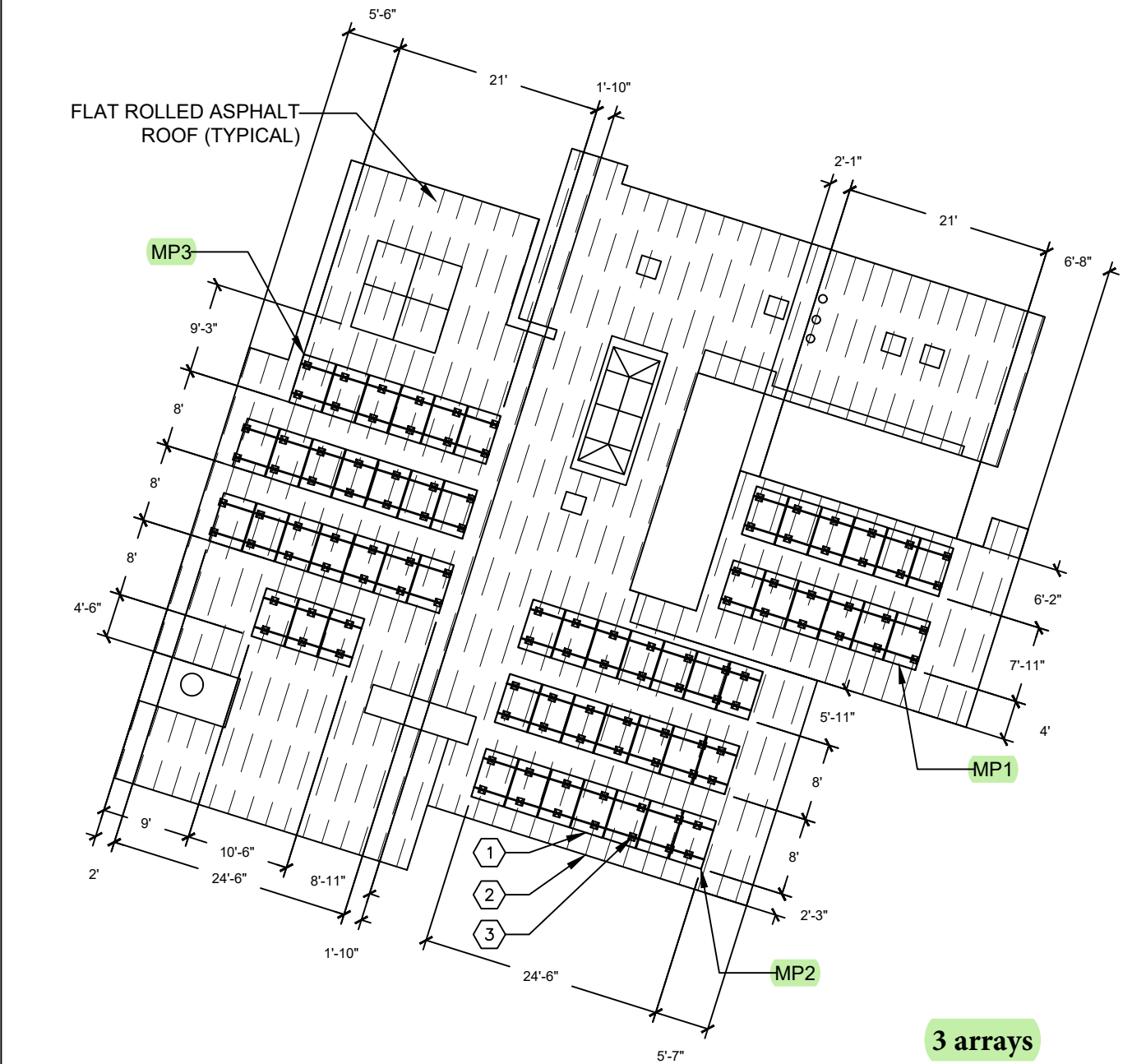
- (EXISTING) ELECTRICAL SERVICE
ENTRANCE 600A RATED and
UTILITY REVENUE METER
- (NEW) INVERTER WITH
INTEGRATED DC DISCONNECT
- (NEW) DEDICATED PV SYSTEM
KWH METER and UTILITY
DISCONNECT SWITCH
- (NEW) AC COMBINER PANEL
- (NEW) AC TAPPING BOX
- (EXISTING) 200A LOAD CENTER

EQUIPMENT SUMMARY

- | | |
|----|----------------------------------|
| 56 | SunPower SPR-X22-360 |
| 03 | StorEdgeSE7600A-USS |
| 56 | SolarEdge Power Optimizer P400 |
| 01 | EATON, 200A, DH364 URK, 3P |
| 01 | EATON BR816L125RP |
| 01 | Inergy Systems: Smart Panel 3000 |

ROOF PLAN

RAILS TO BE BONDED TO GROUND (EGC) - 690.4 (C)
RAIL SPLICES TO BE ELECTRICALLY BONDED
FLASHING REQUIRED FOR STANDOFF PENETRATIONS
FOLLOW MODULE INSTRUCTION ON FRAME MOUNTING POINT



NOTE: EXPOSED PV ROOFTOP CONDUCTORS THAT ARE NOT LOCATED UNDER THE ARRAY MODULES, SHALL BE INSTALLED IN A LISTED RACEWAY, AND SHALL INCLUDE LISTED JUNCTION BOXES AT BOTH ENDS OF THE RACEWAY TO TRANSITION FROM EXPOSED CONDUCTORS TO THE LISTED RACEWAYS. NEC ARTICLE 690.31(A) AND (B) EXCEPTION

NOTE: SYSTEM DESIGN IN ACCORDANCE WITH THE 2014 N.E.C.

3 arrays	
MP1	PITCH: 10 AZIMUTH: 197 MATERIAL: Rolled Asphalt MOUNTING: Tilt Structure
MP2	PITCH: 10 AZIMUTH: 197 MATERIAL: Rolled Asphalt MOUNTING: Tilt Structure
MP3	PITCH: 10 AZIMUTH: 197 MATERIAL: Rolled Asphalt MOUNTING: Tilt Structure
ROOF LEGEND	
	GAS VENT
	T-TOP VENT
	DORMER VENT

ROOF PLAN NOTES:

- 1 (NEW) PHOTOVOLTAIC PANEL ARRAY TILTED TO ROOF WITH 10DEG TILT
- 2 2" x 4" TRUSS @ 24" O.C.
- 3 RACKING INFORMATION
 - EVEREST MOUNTING RAIL
 - UNIRAC STANDOFF - 4"
 - EVEREST CROSSRAIL 48
 - TRUSS SPACING = 24" O.C.
 - PENETRATION POINTS = 4' SPACING
 - MOUNTING DETAIL

ROOF 2 CALCULATIONS:

- STRUCTURAL NOTES:
- 1) TOTAL ASSEMBLY WEIGHT: 1012.9 LBS
 - 2) TOTAL AREA COVERED BY MODULES: 395.6 FT2
 - 3) DEAD LOAD = 1012.9 / 395.6 = 2.6 LBS/FT2
 - 4) POINT LOAD CALCULATIONS [# OF POINTS (42)] - 24.1 lb/point
 - 5) TOTAL DESIGN LOAD (DOWNFORCE) = 12.8 psf
 - 6) TOTAL DESIGN LOAD (UPFORCE) = -25.5 psf

ROOF 1 CALCULATIONS:

- DESIGN PER ASCE 7-10 2.4.1 & IBC 2015
- SOLAR MODULE WEIGHT = 41 LBS.
- EXPOSURE CATEGORY = B
- BASIC WIND SPEED = 115 MPH
- STRUCTURAL NOTES:
- 1) TOTAL ASSEMBLY WEIGHT: 578.8 LBS
 - 2) TOTAL AREA COVERED BY MODULES: 226.0 FT2
 - 3) DEAD LOAD = 578.8 / 226.0 = 2.6 LBS/FT2
 - 4) POINT LOAD CALCULATIONS [# OF POINTS (114)] - 5.1 lb/point
 - 5) TOTAL DESIGN LOAD (DOWNFORCE) = 12.8 psf
 - 6) TOTAL DESIGN LOAD (UPFORCE) = -25.5 psf

ROOF 3 CALCULATIONS:

- STRUCTURAL NOTES:
- 1) TOTAL ASSEMBLY WEIGHT: 1109.4 LBS
 - 2) TOTAL AREA COVERED BY MODULES: 433.2 FT2
 - 3) DEAD LOAD = 1109.4 / 433.2 = 2.6 LBS/FT2
 - 4) POINT LOAD CALCULATIONS [# OF POINTS (48)] - 23.1 lb/point
 - 5) TOTAL DESIGN LOAD (DOWNFORCE) = 14.0 psf
 - 6) TOTAL DESIGN LOAD (UPFORCE) = -28.6 psf

