



DECEMBER 27, 2023

MERRICK HOBEN AND DIANA BERMUDEZ

SOLAR SITE INSPECTION REPORT

General Information

Location Details:

BUILDING ADDRESS	3511 22nd Street North
CITY/TOWN	Arlington
STATE	VA
ZIP CODE	22207

<u>Proposed System Details:</u>

System Size	9.13 KW (DC)
Inverter Make and Model	Hoymiles Micro inverters x (6)
PV Panels	Seraphim Panels x (22)
Panel Model	SRP-BMD-BG-415 Black

Solar Panels Placement Side:

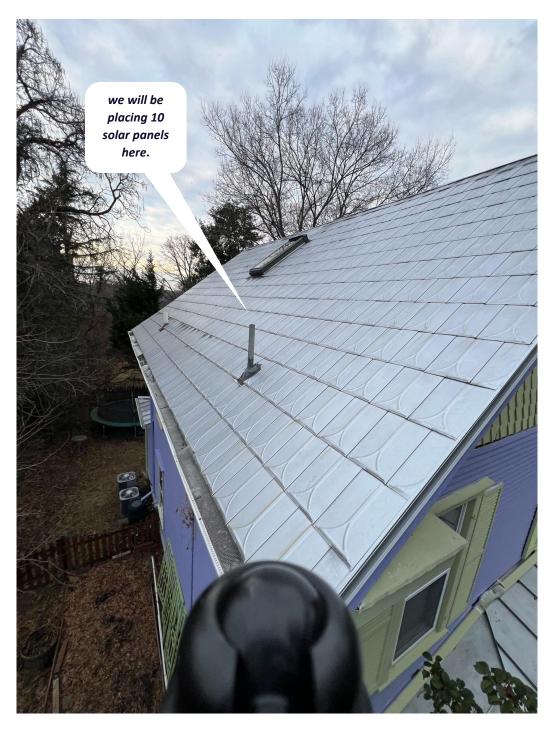


Figure 1: We will be placing total 22 solar panels on the roof. This is the left side of house.

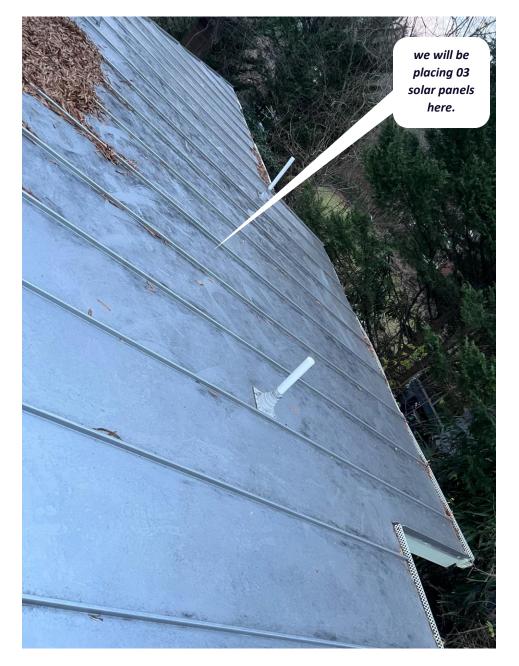


Figure 2: Overall condition of the roof is good.



Figure 3



Figure 4



Figure 5: It is better to trim the tree, to get max. production.

Layout Plan:



Figure 6: The solar panels are placed in portrait & landscape orientation. Overall, the solar production is good. No shading present on the roof.

Main Service Panel:



Figure 7: This is a Main Service Panel (MSP). MSP is mounted inside the house.

Main breaker rating is 200 Amps each.

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Utility Meter:



Figure 8 & 9: Meter is mounted on left side of the house. We will be able to place disconnect and load center near this one.

Rafters:



Figure 10: Spacing between 2 Rafters is 24" inch on center.

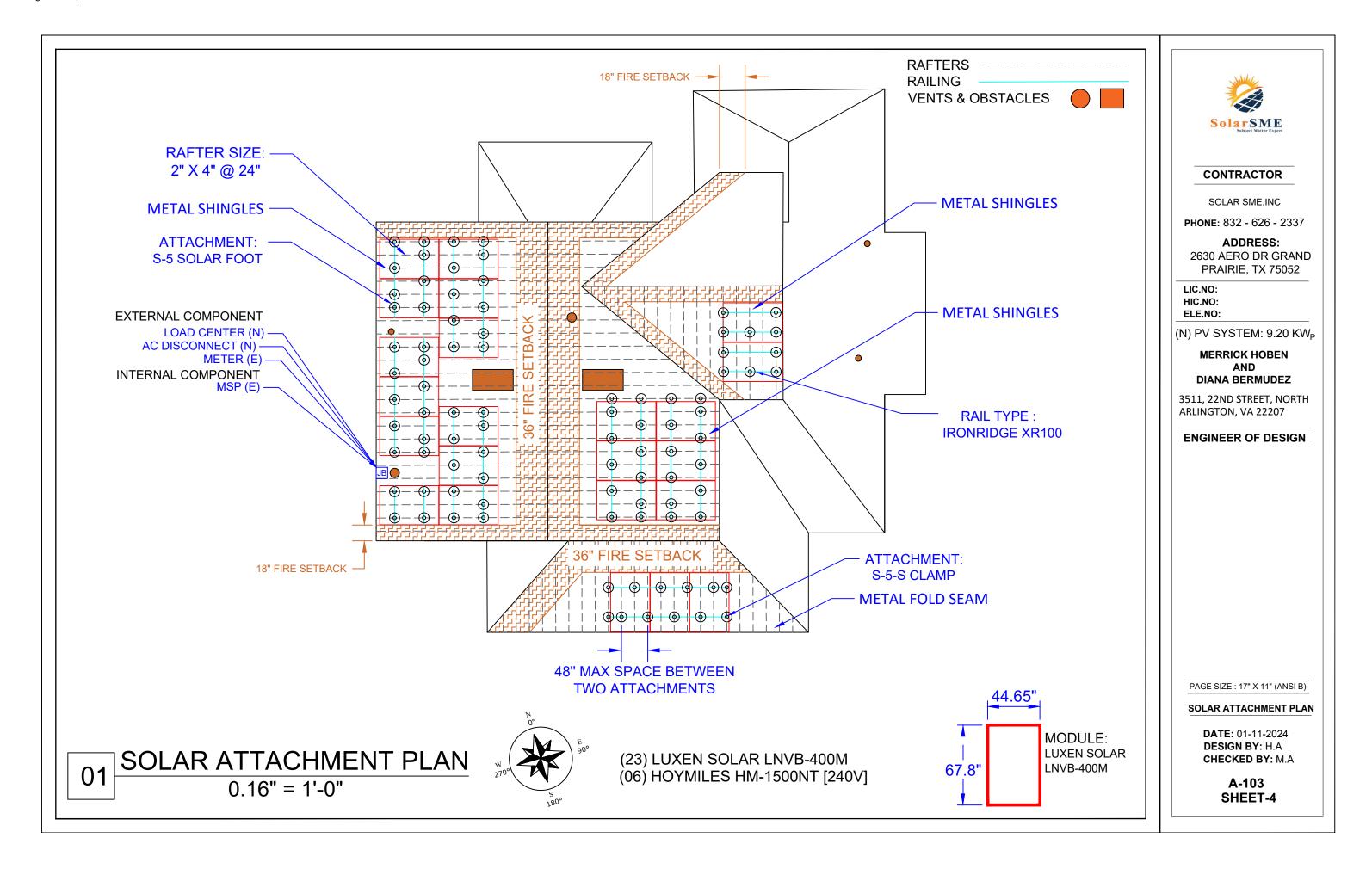


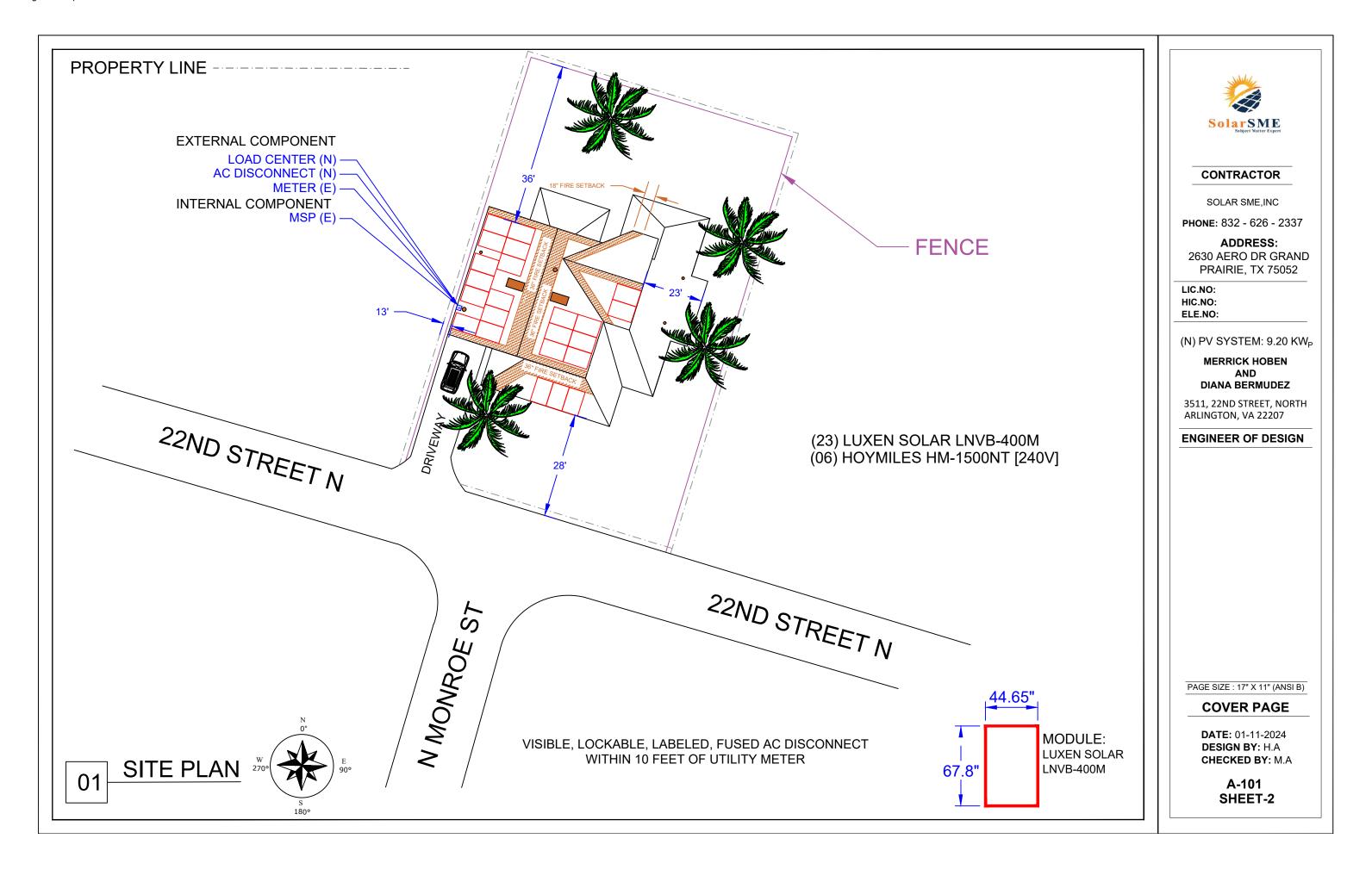
Figure 11: Width of rafter is 1 ½" inch

Overall, the rafters are in

verall, the rafters are in good condition. Any Change require in the Proposed Layout by Structural Engineer, Building Permit Department and or Installation Team will need prior approval from the homeowner.







ROOF MOUNT INSTALLATION OF 9.20-KWp SOLAR SYSTEM

			GENERAL NOTES									SATELLITE VIEW		
PROJECT ADDRESS OWNER	3511, 22ND STREET NORTH ARLINGTON, VA MERRICK HOBEN AND		2. ALL 3. ALL											
	SYSTEM SIZE	9.20 KWp	5. LOA	AD SIDE INTERC NEC.					NECTIO	N ACCORDING				
SCOPE OF WORK	23 X LUXEN 400W	LUXEN SOLAR LNVB-400M	FUN	S. PV SYSTEM CIRCUIT INSTALLED IN BUILDING MUST INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARDS. 7. EQUIPMENT GROUNDING CONDUCTOR ON AC & DC SIDE SIZED ACCORDING TO NEC. SYSTEM SUMMARY										
	06 X HOYMILES	HM-1500NT	7. EQI									3511		
ELECTRICAL EQUIPMENTS	MSP BUSBAR RATING	200A			SISIEWISUWIWIAKI									
	MSP BREAKER RATING	200A		INVERTER	HOYMILES		PV MODULES			LUXEN	VICINITY MAP			
	ZONING	RESIDENTIAL	MAYA	C OUTPUT CURR	ENIT	NIT		PANELS WATTAGE 400 W			23rd St N			
	CONSTRUCTION TYPE	TWO STORY BUILDING	1	R MICROINVERTE		5.99A	PANE			400 W				
BUILDING INFORMATION	ROOF TYPE	METAL								3603 2216				
	UTILITY METER	DOMINION]	SYSTEM AC SIZE	8.62KW		MAX AC CURRENT		35.94A		3505			
	RAFTER SIZE	2" X 4" @ 24"			BRANCH-A		BRANCH-B		22nd St N					
RACKING INFORMATION	S-5 SOLAR FOOT , S-5 S CLAMP , XR-100 ARLINGTON COUNTY		PANELS PER BRANCH			BIVANOIPA		DIVANOI1-D		3508 2201 3508 3500 2105				
AHJ						12		11						
PARCEL#	05051069									SHEET INDEX				
LOT AREA	6500 SQFT		MAX CURRENT			17.97A		16.47A			SHEET NUMBER	SHEET TITLE		
LIVING AREA	1,342 SQFT										T-001	COVER PAGE		
PROJECT MANAGER	EROL SHAMS			MAX AC OUTPUT		4,312W			3,953W		A-101	SITE PLAN		
CONTACT DETAILS	984-263-3006		POWER					J,9JJVV		A-102	ELECTRCIAL PLAN			
CO	DE REFEREI	UNIT INDEX							A-103	SOLAR ATTACHMENT PLAN				
NATION	NATIONAL ELECTRIC CODE (NEC), 2017		MSP MAIN SERVICE PANEI		PANEL	EL IN		TER			E-601	LINE DIAGRAM		
NATIONAL ELECTRIC CODE (NEC), 2017		UM	UTILITY METER		PV	PV LOAD CENTER		PV MODULE		E-602	DESIGN TABLE			
INTERNATIONAL RESIDENTIAL CODE (IRC), 2018		PM	PRODUCTION METER		DB	DISTRIBUTION BOX		MICROINVERTER SETBACK		E-603	PLACARDS			
INTERNATIONAL BUILDING CODE (IBC), 2018		ACD	JUNCTION BOX		IQ	IQ COMBINER BOX SERVICE SUB PANEL				S-501	ASSEMBLY DETAILS			
		JB			SSP					S-502	ASSEMBLY DETAILS-2			
			RSC	RAPID SHUTDOWN CONT RSB			RAPID SHUTDOWN BOX				R-002	RESOURCE DOCUMENT		



CONTRACTOR

SOLAR SME,INC

PHONE: 832 - 626 - 2337

ADDRESS:

2630 AERO DR GRAND PRAIRIE, TX 75052

LIC.NO: HIC.NO:

ELE.NO:

(N) PV SYSTEM: 9.20 KW_P

MERRICK HOBEN AND DIANA BERMUDEZ

3511, 22ND STREET, NORTH ARLINGTON, VA 22207

ENGINEER OF DESIGN



PV Installation Professional

MUHAMMAD ARSHAD PV-050220-029071

Muliammad Arshad

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PAGE SIZE : 17" X 11" (ANSI B)

COVER PAGE

DATE: 01-11-2024 DESIGN BY: H.A CHECKED BY: M.A

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