Division of Financial Management
Department of Procurement
MONTGOMERY COUNTY PUBLIC SCHOOLS
45 W. Gude Drive, Suite 3100
Rockville, Maryland 20850

December 10, 2025

NOTICE TO OFFERORS
The following are questions and responses regarding

RFP No. 4361.5, Power Purchase Agreement for Electricity from Solar Photovoltaic Systems

No.	Question	Answer
1.	Page 14 of the RFP outlines a "Certification that the following Qualifications are met." Is there a form that bidders should fill and sign, or should they confirm these items in a section within the body of the proposal?	Bidders should confirm each qualification in their proposal
2.	The pricing attachments refer to a "fixed rate" which infers a 0% escalation rate. There is also a column to define an escalation rate between 0% and 1%, but there is not a place to define the Year 1 PPA under the escalated scenario. If bidders wish to propose a pricing scenario with an escalator, would it be acceptable to add the following columns? ○ 0% Escalator Option ▪ Fixed PPA Rate - Generator owns RECs ($/kWh) ▪ Fixed PPA Rate - MCPS retains RECs ($/kWh) ○ Escalator option ▪ Year 1 PPA Rate - Generator owns RECs ($/kWh) ▪ Year 1 PPA Rate - MCPS retains RECs ($/kWh) Annual escalation rate (%) - Escalator not to exceed 1%	Yes, bidders may add columns as described
3.	What is the estimated schedule for award and contract execution?	The next opportunity to submit for Board of Education approval is at the March 26, 2025 Board Meeting. Upon receiving approval, we anticipate awarding the contract to the successful bidder.
4.	Would it be possible to get more complete drawings for Poolesville HS? It looks like some major additions were made recently, so we want to confirm there won't be any transformer upgrades necessary.	The requested drawings are included, see attachments.

5.	It was answered during the call, but we were hoping to get written confirmation that MCPS would be open to individual contracted PPAs at each site.	There will likely be one Master agreement then individual pricing and details for each site
6.	Will prevailing wages be required on these projects to comply with any labor specifications or would an open shop rate be possible?	It is the Developer' responsibility to review all requirements and ensure full compliance with any labor laws, prevailing wage standards, or other applicable guidelines for this project.
7.	Can MCPS provide interval data for each site?	Not Available
8.	If available, can MCPS provide geotech or other surveys for each site?	Upon award, this information will be shared with the selected bidder
9.	The RFP specifies roof setback requirements on page 6. For sites with parapet walls, would bidders be able to incorporate a roof leading edge setback less than 15 feet or are Burtonsville ES and Poolesville HS the only exceptions to this requirement?	Burtonsville ES and Poolesville HS are the only exceptions to this requirement, refer to PV drawings.
10.	Are there any restrictions around when construction of the PV arrays can take place, i.e. only during summer months when school is not in session?	Approval to perform work during school hours will be limited and subject to restriction. MCPS will discuss details further with the selected bidder. For the sites currently under construction, coordinate work with the onsite Construction Management Firm.
11.	Since three of the schools contemplated under this RFP are currently under construction, can MCPS provide additional documents or information such as the building height, rooftop mechanical equipment, or any other planned obstructions?	Upon award, this information will be shared with the selected bidder

Angela McIntosh-Davis

Angela McIntosh-Davis
Director

AMD

Please indicate your receipt of this notice my signing below and returning with your proposal.

Accepted By: ____
(Name & Title)

Name of Company: ____

ELEC RISER - TRANSFORMER SCHEDULE

NAME	SIZE	MOUNT	ENCLOSURE	VOLTAGE PRIMARY	VOLTAGE SECONDARY	TEMP RISE	GEC
T-EMLR1A	15	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#8
T-EMLR1D	15	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#8
T-EMLR1G	15	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#8
T-LD1A	150	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2/0
T-LD1C	150	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2/0
T-LD1G	225	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2/0
T-LD2A	225	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2/0
T-LD2E	112.5	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LM1D	75	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LM1G	112.5	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LM2D	75	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LM2E	75	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LM2G	112.5	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#2
T-LR1D	45	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#4
T-LR2D	45	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#4
T-SBLK1C	30	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#8
T-SBLR1A	15	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#8
T-SBLR1D	45	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#4
T-SBLR1G	30	PAD	NEMA 2	480Δ 3Ø, 3W	208Y/120 3Ø,4W	115 °C	#8

TRANSFORMER AND FEEDER SCHEDULE NOTES:
1. FOR PORTIONS OF EMERGENCY SYSTEM FEEDERS LOCATED ABOVE A CEILING, PROVIDE A 2HR FIRE RESISTIVE CABLE SYSTEM INSTALLED IN RACEWAY TESTED TO UL 2196 IN ACCORDANCE WITH NEC 700.10(D)(1)(3).

ELEC RISER - FEEDER SCHEDULE

EQUIPMENT NAME	FED FROM	VOLTAGE	RATING	MATERIAL	WIRE TYPE	SETS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	COMMENTS
ATS-EM (E)	GDS	480 V	200 A	AL	THWN	1	(4)250KCMIL	#4	2-1/2"	
ATS-EM (N)	MDP1	480 V	200 A	AL	THWN	1	(4)250KCMIL	#4	2-1/2"	
ATS-SB (E)	GEN	480 V	300 A	AL	THWN	1	(4)500KCMIL	#2	3"	
ATS-SB (N)	MDP1	480 V	300 A	AL	THWN	1	(4)500KCMIL	#2	3"	
DIMMER	LD2A	208 V	400 A	CU	THWN	1	(4)500KCMIL	#3	3"	
EMHD	ATS-EM	480 V	200 A	AL	THWN	1	(4)250KCMIL	#4	2-1/2"	
EMHL1A	EMHD	480 V	100 A	AL	THWN	1	(4)#1	#6	1-1/2"	
EMHL1D	EMHD	480 V	100 A	CU	RHW-2	1	(4)#2	#8	2"	NOTE 1
EMHL1G	EMHD	480 V	100 A	CU	RHW-2	1	(4)#1	#6	2"	NOTE 1
EMLR1A	T-EMLR1A	208 V	60 A	CU	THWN	1	(4)#6	#10	1"	
EMLR1D	T-EMLR1D	208 V	60 A	CU	THWN	1	(4) #6	#10	1"	
EMLR1G	T-EMLR1G	208 V	60 A	CU	THWN	1	(4)#6	#10	1"	
FB CONCESSION	MDP1	480 V	200 A	CU	THWN	1	(4)500KCMIL	#1/0	4"	
FB LIGHTING	MDP1	480 V	150 A	CU	THWN	1	(4)#4/0	#2	2-1/2"	
GCC	TRANS	480 V	2000 A	AL	THWN	6	(4)600KCMIL	400KCMIL	3-1/2"	
GDS	GEN	480 V	200 A	AL	THWN	1	(4)250KCMIL	#4	2-1/2"	
HD1A	MDP1	480 V	800 A	AL	THWN	3	(4)400KCMIL	#3/0	3"	
HD1C	MDP2	480 V	400 A	AL	THWN	2	(4)250KCMIL	#2/0	2-1/2"	
HD1D	MDP1	480 V	800 A	AL	THWN	3	(4)500KCMIL	250KCMIL	3-1/2"	
HD1F	MDP1	480 V	800 A	AL	THWN	3	(4)600KCMIL	#3/0	3-1/2"	
HD1G	MDP1	480 V	1000 A	AL	THWN	5	(4)500KCMIL	#4/0	3-1/2"	
HD1H	MDP2	480 V	600 A	AL	THWN	3	(4)400KCMIL	#2/0	3-1/2"	
HD2E	MDP2	480 V	800 A	AL	THWN	3	(4)500KCMIL	250KCMIL	3-1/2"	
HL1A	HD1A	480 V	60 A	CU	THWN	1	(4)#6	#10	1"	
HL1C	HD1C	480 V	60 A	CU	THWN	1	(4)#6	#10	1"	
HL1D	HD1D	480 V	60 A	CU	THWN	1	(4)#6	#10	1"	
HL1E	HD2E	480 V	60 A	CU	THWN	1	(4)#6	#10	1"	
HL1G	HD1G	480 V	60 A	CU	THWN	1	(4)#6	#10	1"	
HL2D	HD1D	480 V	60 A	CU	THWN	1	(4)#6	#10	1"	
HL2G	HD1G	480 V	60 A	CU	THWN	1	(4)#6	#10	1"	
HM1E	HD2E	480 V	300 A	AL	THWN	1	(4)500KCMIL	#1	3"	
HM1H	HD1H	480 V	200 A	CU	THWN	1	(4)#3/0	#6	2"	
LAB1602	LD1G	208 V	60 A	CU	THWN	1	(4)#6	#10	1-1/4"	
LAB1620	LD1G	208 V	60 A	CU	THWN	1	(4)#6	#10	1-1/4"	
LAB1702	LD1G	208 V	60 A	CU	THWN	1	(4)#4	#10	1-1/4"	
LAB1724	LD1G	208 V	100 A	AL	THWN	1	(4)#2/0	#6	2"	
LAB2602	LD1G	208 V	60 A	CU	THWN	1	(4)#6	#10	1-1/4"	
LAB2622	LD1G	208 V	100 A	AL	THWN	1	(4)#1	#6	1-1/2"	
LAB2702	LD1G	208 V	60 A	CU	THWN	1	(4)#4	#10	1-1/4"	
LAB2724	LD1G	208 V	100 A	AL	THWN	1	(4)#2/0	#6	2"	
LD1A	T-LD1A	208 V	600 A	AL	THWN	2	(4)500KCMIL	#3/0	3"	
LD1C	T-LD1C	208 V	600 A	AL	THWN	2	(4)500KCMIL	#3/0	3"	
LD1G	T-LD1G	208 V	800 A	AL	THWN	3	(4)400KCMIL	#3/0	3"	
LD2A	T-LD2A	208 V	800 A	AL	THWN	3	(4)400KCMIL	#4/0	3"	
LD2E	T-LD2E	208 V	400 A	AL	THWN	2	(4)250KCMIL	#1/0	2-1/2"	
LK1C	LD1C	208 V	400 A	AL	THWN	2	(4)250KCMIL	#2/0	2-1/2"	
LM1A	LD1A	208 V	225 A	AL	THWN	1	(4)300KCMIL	#1	2-1/2"	
LM1C1	LD1C	208 V	150 A	AL	THWN	1	(4)#3/0	#2	2"	
LM1C2	LD1C	208 V	60 A	CU	THWN	1	(4)#6	#10	1"	
LM1D	T-LM1D	208 V	225 A	AL	THWN	1	(4)300KCMIL	#2	2-1/2"	

ELEC RISER - FEEDER SCHEDULE

EQUIPMENT NAME	FED FROM	VOLTAGE	RATING	MATERIAL	WIRE TYPE	SETS	WIRE SIZE	GROUND SIZE	CONDUIT SIZE	COMMENTS
LM1E	LM2E	208 V	225 A	AL	THWN	1	(4)300KCMIL	#2	2-1/2"	
LM1G	T-LM1G	208 V	225 A	AL	THWN	1	(4)300KCMIL	#2	2-1/2"	
LM2D	T-LM2D	208 V	225 A	AL	THWN	1	(4)300KCMIL	#2	2-1/2"	
LM2E	T-LM2E	208 V	225 A	AL	THWN	1	(4)300KCMIL	#1/0	2-1/2"	
LM2G	T-LM2G	208 V	225 A	AL	THWN	1	(4)300KCMIL	#2	2-1/2"	
LR1A1	LD1A	208 V	150 A	AL	THWN	1	(4)#3/0	#2	2"	
LR1A2	LD1A	208 V	150 A	AL	THWN	1	(4)300KCMIL	#1/0	2-1/2"	
LR1A3	LD1A	208 V	225 A	AL	THWN	1	(4)300KCMIL	#1	2-1/2"	
LR1B	LR1D	208 V	100 A	AL	THWN	1	(4)#1	#6	1-1/2"	
LR1C	LD1C	208 V	225 A	AL	THWN	1	(4)300KCMIL	#1	2-1/2"	
LR1D	T-LR1D	208 V	175 A	AL	THWN	1	(4)#4/0	#2	2-1/2"	
LR1E	LD2E	208 V	150 A	AL	THWN	1	(4)#3/0	#4	2"	
LR1G1	LD1G	208 V	150 A	AL	THWN	1	(4)#3/0	#4	2"	
LR1G2	LD1G	208 V	150 A	AL	THWN	1	(4)#3/0	#4	2"	
LR1H	T-LR1H	208 V	100 A	CU	THWN	1	(4)#3	#8	1-1/4"	
LR2A	LD2A	208 V	225 A	AL	THWN	1	(4)300KCMIL	#1	2-1/2"	
LR2D	T-LR2D	208 V	175 A	AL	THWN	1	(4)#4/0	#2	2-1/2"	
LR2E	LD2E	208 V	225 A	AL	THWN	1	(4)300KCMIL	#2	2-1/2"	
LR2G1	LD1G	208 V	150 A	AL	THWN	1	(4)#3/0	#4	2"	
LR2G2	LD1G	208 V	150 A	AL	THWN	1	(4)#3/0	#4	2"	
MDP	UTILITY XFMR	480 V	4000 A	AL	THWN	12	(4)600KCMIL	-	4"	
SBHD	ATS-SB	480 V	300 A	AL	THWN	1	(4)500KCMIL	#2	3"	
SBHL1F	SBHD	480 V	100 A	AL	THWN	1	(4)#1/0	#6	2"	
SBLK1C	T-SBLK1C	208 V	100 A	AL	THWN	1	(4)#1	#6	1-1/2"	
SBLR1A	T-SBLR1A	208 V	60 A	CU	THWN	1	(4)#6	#8	1-1/4"	
SBLR1D	T-SBLR1D	208 V	175 A	AL	THWN	1	(4)#4/0	#1/0	2-1/2"	
SBLR1G	T-SBLR1G	208 V	100 A	AL	THWN	1	(4)#1	#6	1-1/2"	
SBLR2D	SBLR1D	208 V	175 A	AL	THWN	1	(4)#4/0	#1/0	2-1/2"	
SBLR2G	SBLR1G	208 V	100 A	AL	THWN	1	(4)#1	#6	1-1/2"	
STAGE	LD2A	208 V	400 A	CU	THWN	1	(4)500KCMIL	#3	3"	
T-EMLR1A	EMHL1A	480 V	30 A	CU	THWN	1	(3)#10	#10	3/4"	
T-EMLR1D	EMHL1D	480 V	30 A	CU	THWN	1	(3)#10	#10	3/4"	
T-EMLR1G	EMHL1G	480 V	30 A	CU	THWN	1	(3)#10	#10	3/4"	
T-LD1A	HD1A	480 V	250 A	AL	THWN	1	(3)350KCMIL	#1	2-1/2"	
T-LD1C	HD1C	480 V	250 A	AL	THWN	1	(3)350KCMIL	#1	2-1/2"	
T-LD1G	HD1G	480 V	350 A	AL	THWN	2	(3)#4/0	#1	2"	
T-LD2A	HD1A	480 V	350 A	AL	THWN	2	(3)#4/0	#2/0	2"	
T-LD2E	HD2E	480 V	225 A	AL	THWN	1	(3)300KCMIL	#2	2-1/2"	
T-LM1D	HD1D	480 V	125 A	AL	THWN	1	(3)#2/0	#4	2"	
T-LM1G	HD1G	480 V	225 A	AL	THWN	1	(3)300KCMIL	#2	2-1/2"	
T-LM2D	HD1D	480 V	125 A	AL	THWN	1	(3)#2/0	#4	2"	
T-LM2E	HD2E	480 V	125 A	AL	THWN	1	(3)#2/0	#4	2"	
T-LM2G	HD1G	480 V	225 A	AL	THWN	1	(3)300KCMIL	#2	2-1/2"	
T-LR1D	HD1D	480 V	80 A	CU	THWN	1	(3)#4	#8	1"	
T-LR2D	HD1D	480 V	80 A	CU	THWN	1	(3)#4	#8	1"	
T-SBLK1C	SBHD	480 V	70 A	CU	THWN	1	(3) #6	#8	1"	
T-SBLR1A	SBHD	480 V	30 A	CU	THWN	1	(3)#10	#10	3/4"	
T-SBLR1D	SBHD	480 V	80 A	CU	THWN	1	(3)#4	#8	1"	
T-SBLR1G	SBHD	480 V	60 A	CU	THWN	1	(3)#6	#10	3/4"	
TV	LD2A	208 V	100 A	AL	THWN	1	(4)#1	#6	1-1/2"	

GENERAL NOTES:

A. PROVIDE NEW ENGRAVED LAMACOID LABELS FOR ALL NEW AND EXISTING POWER DISTRIBUTION EQUIPMENT IN THIS PROJECT, LABELS PER DETAILS AND SPECIFICATIONS.
B. SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT-CURRENT AT THE EQUIPMENT AND THE DATE THE CALCULATION WAS PERFORMED. APPLY A MACHINE PRINTED ADHESIVE LABEL WITH WHITE BACKGROUND, 1/2" HIGH BLACK LETTERING.
C. PROVIDE SEPARATE CONDUITS, PULL BOXES, ETC. FOR EACH EMERGENCY POWER BRANCH & NORMAL POWER PER NEC FOR COMPLETE SEPARATION OF POWER SERVICES.
D. ALL CIRCUIT BREAKERS AND/OR DISCONNECTS SERVING THE PRIMARY SIDE OF A TRANSFORMER WHICH ARE NOT WITHIN SITE OF THE TRANSFORMER SHALL BE PROVIDED WITH PERMANENTLY INSTALLED MEANS TO LOCK THE BREAKER IN THE OFF POSITION. SUCH TRANSFORMERS SHALL HAVE THE ROOM NAME AND NUMBER OF THE PRIMARY DISCONNECTING MEANS ENGRAVED ON THE EQUIPMENT NAMEPLATE.
E. REFER TO SPECIFICATIONS FOR ARC FLASH AND RELATED POWER SYSTEM STUDY REQURIEMENTS.
F. ALL DISTRIBUTION PANELBOARDS SHALL BE PROVIDED WITH MINIMUM OF 99" CIRCUIT BREAKER MOUNTING SPACE UNLESS NOTED OTHERWISE.
G. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE IN SCHEDULES.
H. MAIN SERVICE SWITCHBOARD SHALL BE 100% FULLY RATED OVER ITS DISTRIBUTION SECTIONS. DISTRIBUTION END BUS SECTIONS SHALL BE BUILT FOR FUTURE SECTIONS INCLUDING PRE-DRILLING BUS FOR FUTURE BUS EXTENSION.
I. INCREASE CONDUIT SIZE AS REQUIRED WHERE INSTALLING PVC CONDUIT UNDERGROUND.
J. ALL UNUSED SPACES IN SWITCHBOARDS AND DISTRIBUTION PANELBOARDS SHALL BE PREPARED SPACES THAT ALLOW EASY INSTALLATION OF A CIRCUIT BREAKER.
K. PROVIDE GROUND LUGS FOR EACH DEVICE.
L. PROVIDE LOCKABLE CIRCUIT BREAKERS FOR ALL BREAKERS IN SWITCHBOARD.
M. PROVIDE A REDUCED SIZE (17" X 22" MINIMUM), BUT CLEARLY READABLE, COPY OF THE AS-BUILT RISER DIAGRAM MOUNTED TO THE WALL ADJACENT TO THE MAIN DISTRIBUTION PANEL (MDP) AT THE SERVICE ENTRANCE. IT SHALL BE LAMINATED AND RIGIDLY MOUNTED UNDER PLEXIGLAS OR OTHER MEANS THAT PROTECTS IT FROM DAMAGE OR EASY REMOVAL.
N. REFER TO TRANSFORMER GROUNDING DETAIL FOR MORE INFORMATION ON CONNECTION OF GROUNDING ELECTRODE CONDUCTORS AND SUPPLY SIDE BONDING JUMPERS.
O. THE GROUND-FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED WHEN FIRST INSTALLED ON SITE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. A WRITTEN RECORD OF THIS TEST SHALL BE MADE AND SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION

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10411 Meeting St. Prospect, KY 40059
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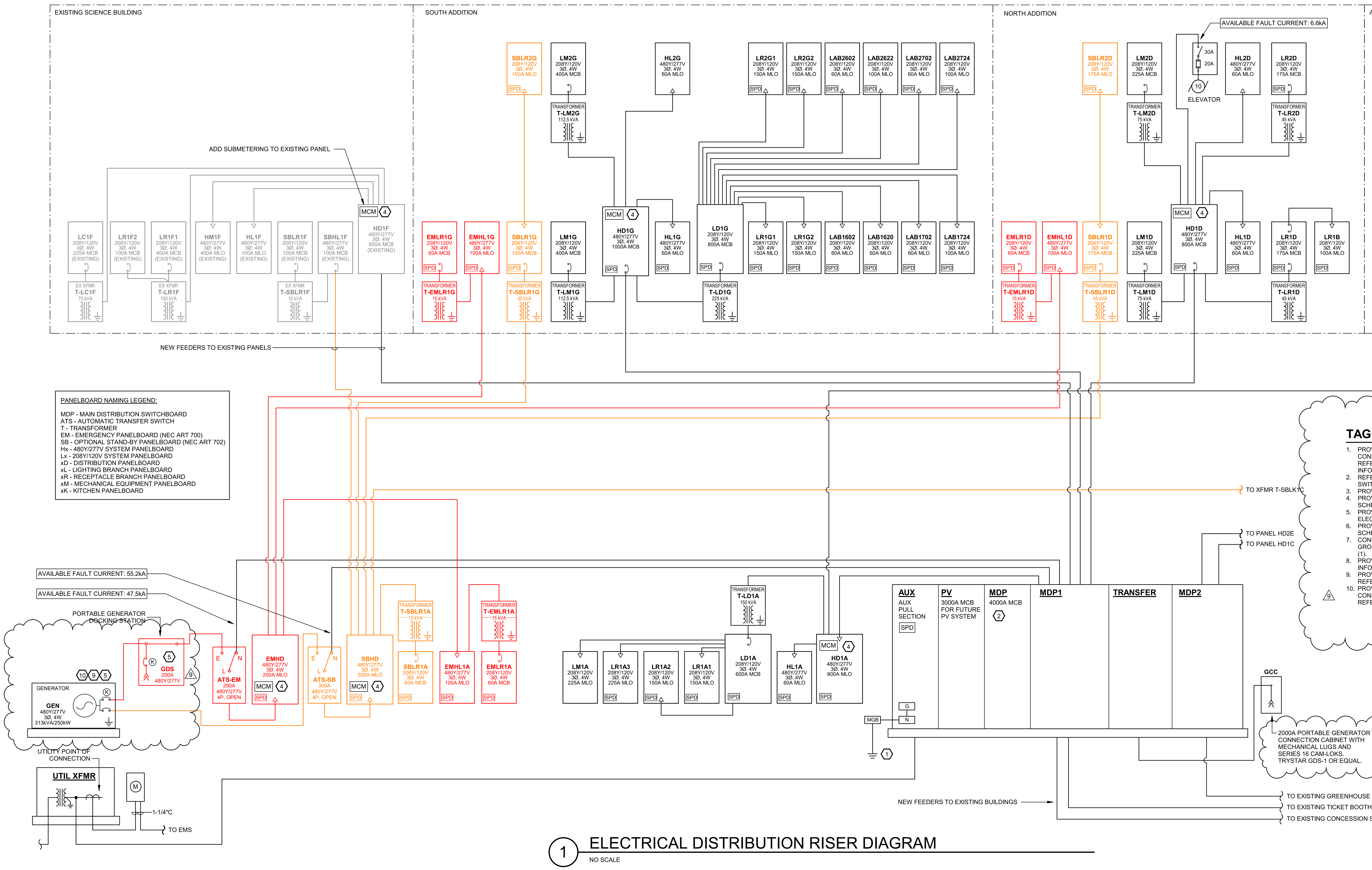
POOLESVILLE HIGH SCHOOL



PANELBOARD NAMING LEGEND:
MDP - MAIN DISTRIBUTION SWITCHBOARD
ATS - AUTOMATIC TRANSFER SWITCH
T - TRANSFORMER
EM - EMERGENCY PANELBOARD (NEC ART 700)
SB - OPTIONAL STAND-BY PANELBOARD (NEC ART 702)
Hx - 480Y/277V SYSTEM PANELBOARD
Lx - 208Y/120V SYSTEM PANELBOARD
xD - DISTRIBUTION PANELBOARD
xL - LIGHTING BRANCH PANELBOARD
xR - RECEPTACLE BRANCH PANELBOARD
xM - MECHANICAL EQUIPMENT PANELBOARD
xK - KITCHEN PANELBOARD

1 ELECTRICAL DISTRIBUTION RISER DIAGRAM
NO SCALE

TAGGED NOTES:

1. PROVIDE MAIN BONDING JUMPER, GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES AT SERVICE ENTRANCE. REFER TO GROUNDING ELECTRODE SYSTEM DETAIL FOR MORE INFORMATION.
2. REFER TO POWER FLOW DIAGRAM FOR ADDITIONAL DETAILS ON SWITCHBOARD LINEUP.
3. PROVIDE ARC FLASH REDUCTION MAINTENANCE SWITCH.
4. PROVIDE MULTI-CIRCUIT ENERGY METER. REFER TO METERING SCHEDULE FOR MORE INFORMATION.
5. PROVIDE GENERATOR CIRCUIT BREAKERS WITH ADVANCED ELECTRONIC TRIP UNIT, 400A FRAME.
6. PROVIDE MULTI-FUNCTION POWER METER. REFER TO METERING SCHEDULE FOR MORE INFORMATION.
7. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO BUILDING GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 250.32(B)(1).
8. PROVIDE ENERGY METER. REFER TO METERING SCHEDULE FOR MORE INFORMATION.
9. PROVIDE BONDING FOR NON-SEPARATELY DERIVED GENERATOR. REFER TO GENERATOR BONDING DETAIL ON SHEET E812.
10. PROVIDE PATHWAYS AND CONTROL CABLING FOR GENERATOR CONNECTIONS TO TRANSFER SWITCH AND ANNUNCIATOR PANELS. REFER TO FLOOR PLANS FOR GENERATOR ANNUNCIATOR LOCATIONS.

MONTGOMERY COUNTY PUBLIC SCHOOLS
POOLESVILLE HIGH SCHOOL

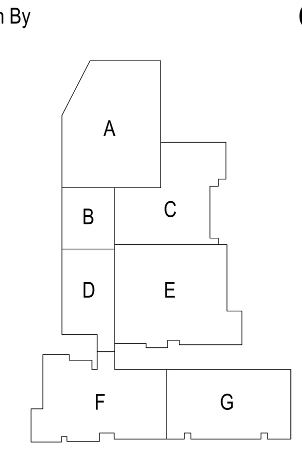
17501 West Willard Road
Poolesville, MD 20837

Client Project Number 15.066.XX
VMDO Project Number 1294

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No: 36125, Expiration Date: 07/28/2022

STATE OF MARYLAND ROBERT A. HANS No. 36125 PROFESSIONAL ENGINEER

Checked By B.TURNER
Drawn By G.RIDDLE

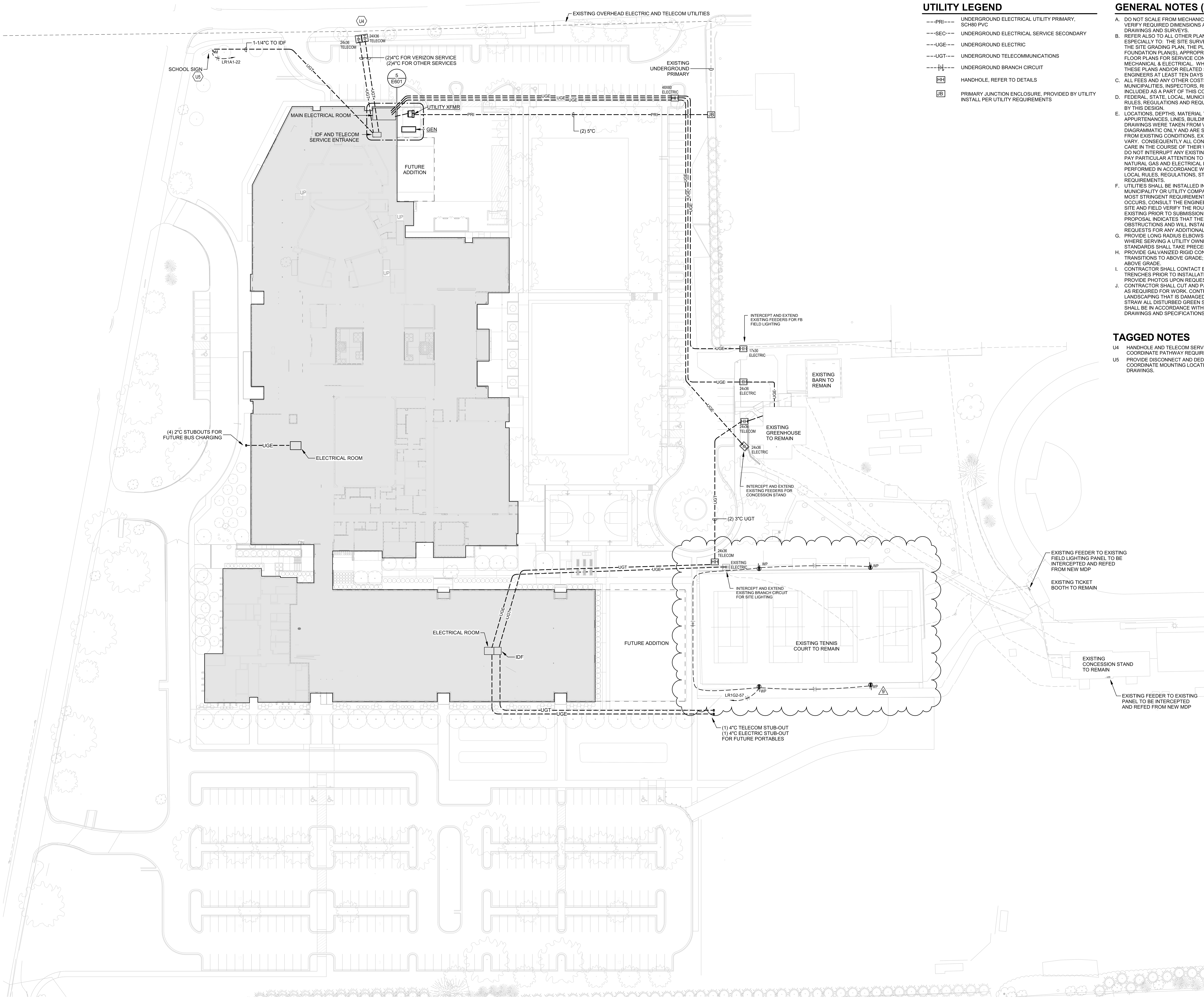


ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
6	PERMIT AND BID DOCUMENTS	22.OCT.2021
9	ADDENDUM NO.2	16.NOV.2021

ELECTRICAL RISER DIAGRAM

E701



1 ELECTRICAL SITE UTILITY PLAN

SCALE: 1" = 40'-0"

UTILITY LEGEND

---PRI---	UNDERGROUND ELECTRICAL UTILITY PRIMARY, SCH80 PVC
---SEC---	UNDERGROUND ELECTRICAL SERVICE SECONDARY
---UGE---	UNDERGROUND ELECTRIC
---UGT---	UNDERGROUND TELECOMMUNICATIONS
---╫---	UNDERGROUND BRANCH CIRCUIT
HH	HANDHOLE, REFER TO DETAILS
JB	PRIMARY JUNCTION ENCLOSURE, PROVIDED BY UTILITY INSTALL PER UTILITY REQUIREMENTS

GENERAL NOTES (SITE):

A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.

B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLAN(S), APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.

C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.

D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.

E. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS, EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.

F. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.

G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILTY STANDARDS SHALL TAKE PRECEDENCE.

H. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND TRANSITIONS TO ABOVE GRADE; EXTEND CONDUIT A MINIMUM OF 6" ABOVE GRADE.

I. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.

J. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

TAGGED NOTES

##

U4 HANDHOLE AND TELECOM SERVICE CONNECTION TO EXISTING POLE. COORDINATE PATHWAY REQUIREMENTS WITH UTILITY.

U5 PROVIDE DISCONNECT AND DEDICATED CIRCUIT FOR SCHOOL SIGN. COORDINATE MOUNTING LOCATION WITH CIVIL AND VENDOR DRAWINGS.

VMDO

VMDO Architects

200 E Market Street
Charlottesville, VA 22902
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2000 Pennsylvania Avenue NW
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CMTA

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POOLESVILLE HIGH SCHOOL

MONTGOMERY COUNTY PUBLIC SCHOOLS

POOLESVILLE HIGH SCHOOL

17501 West Willard Road
Poolesville, MD 20837

Client Project Number	15.066.XX
VMDO Project Number	1294

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No: 36125, Expiration Date: 07/28/2022

STATE OF MARYLAND
ROBERT A. HANS
No. 36125
PROFESSIONAL ENGINEER

Checked By	B.TURNER
Drawn By	G.RIDDLE

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
6	PERMIT AND BID DOCUMENTS	22.OCT.2021
9	ADDENDUM NO.2	16.NOV.2021

ELECTRICAL SITE UTILITY PLAN

E101

VMDO Architects
200 E Market Street
Charlottesville, VA 22902
434.296.5684
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2000 Pennsylvania Avenue NW
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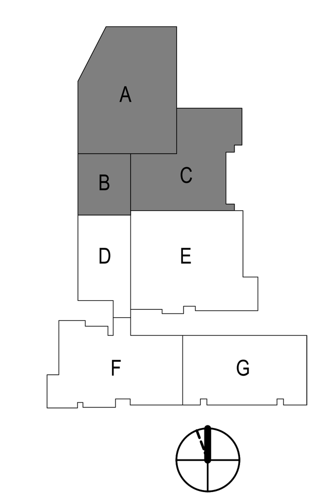
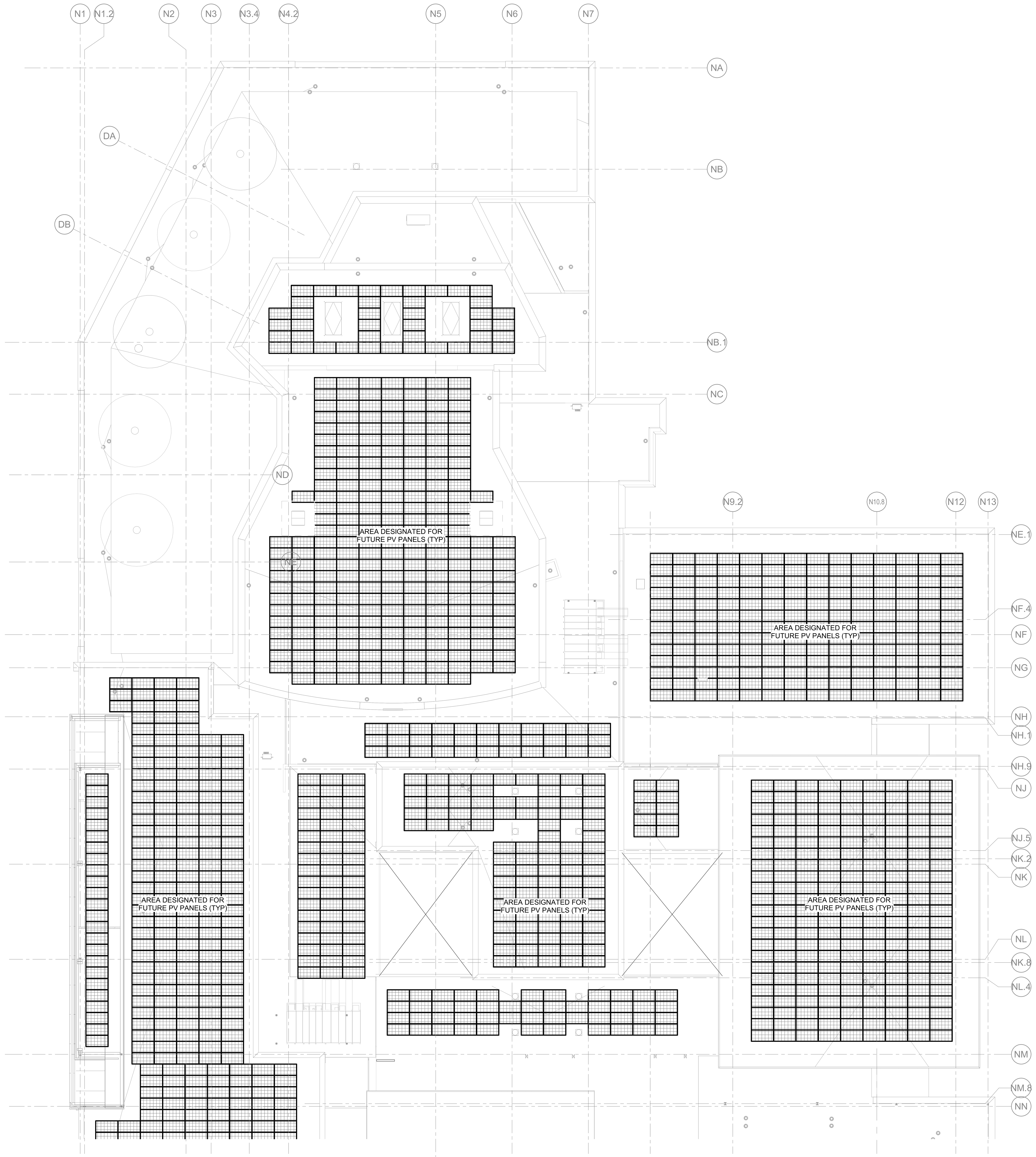
Checked By B.TURNER
Drawn By G.RIDDLE





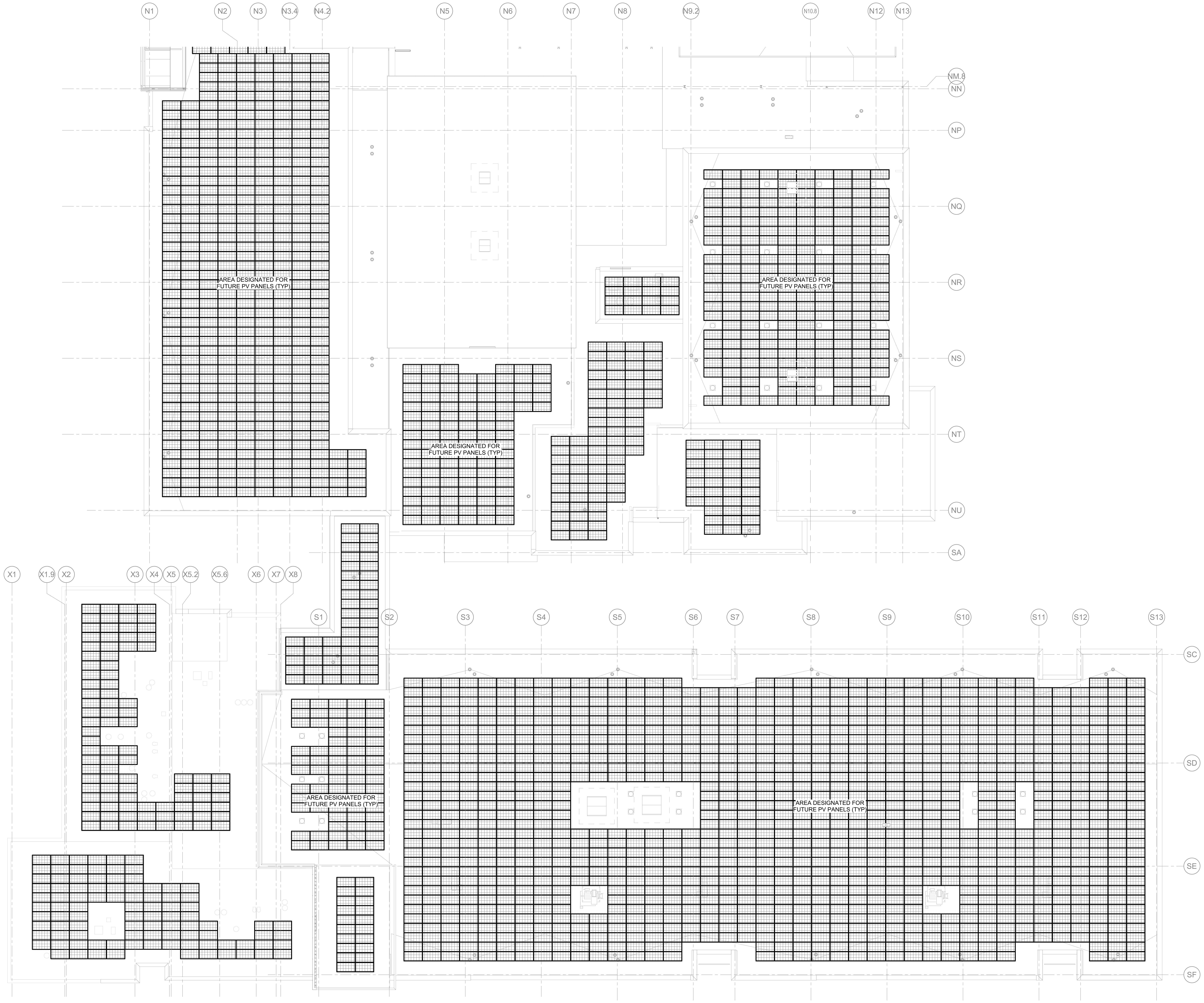
1 ROOF PHOTOVOLTAIC PLAN - AREA A,B,C
SCALE: 1/16" = 1'-0"

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	PERMIT AND BID DOCUMENTS	22.OCT.2021

ROOF PHOTOVOLTAIC PLAN - AREAS A, B, C

E331



1 ROOF PHOTOVOLTAIC PLAN - AREA D,E,F,G

SCALE: 1/16" = 1'-0"

VMDO Architects

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POOLESVILLE HIGH SCHOOL

MONTGOMERY COUNTY PUBLIC SCHOOLS

POOLESVILLE HIGH SCHOOL

17501 West Willard Road
Poolesville, MD 20837

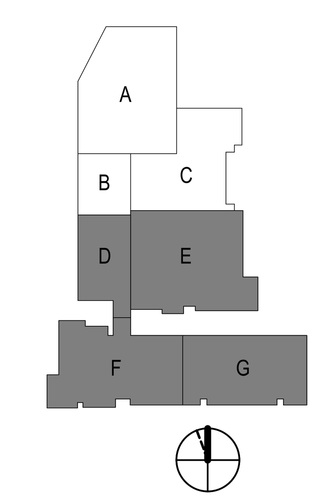
Client Project Number 15.066.XX
VMDO Project Number 1294

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No: 36125, Expiration Date: 07/28/2022

STATE OF MARYLAND ROBERT A. HANS No. 36125 PROFESSIONAL ENGINEER

Checked By B.TURNER

Drawn By G.RIDDLE



ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	PERMIT AND BID DOCUMENTS	22.OCT.2021

ROOF PHOTOVOLTAIC PLAN - AREAS D, E, F, G

E332

SWITCHBOARD AND WIRING SCHEDULE

SWITCHBOARD: MDP1 **MAINS TYPE:** MCB **AVAILABLE FAULT CURRENT:** 97.2
VOLTAGE: 480Y/277V,3P,4W **SPD:** Yes **kAIC RATING:** 100
AMPERES: 4000 A **MOUNTING:** PAD **LOCATION:** MAIN ELECTRICAL ROOM...
SUPPLY FROM: AUX

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	POL...	FRAME	TRIP	LOAD (kVA)	REMARKS
1	ATS-SB (N)	1	(4)500KCMIL	#2	3"	3	400 A	300 A	152.8	NOTE 1
2	ATS-EM (N)	1	(4)250KCMIL	#4	2-1/2"	3	400 A	200 A	36.9	NOTE 1
3	HD1F	3	(4)600KCMIL	#3/0	3-1/2"	3	800 A	800 A	380.3	
4	HD1A	3	(4)400KCMIL	#3/0	3"	3	800 A	800 A	255.0	
5	HD1G	5	(4)500KCMIL	#4/0	3-1/2"	3	1000 A	1000 A	599.1	LSIG
6	HD1D	3	(4)500KCMIL	250...	3-1/2"	3	400 A	800 A	215.7	
7	FB CONCESSION	1	(4)500KCMIL	#1/0	4"	3	400 A	200 A	80.0	
8	FB LIGHTING	1	(4)#4/0	#2	2-1/2"	3	400 A	150 A	50.0	
9	SPARE	--	--	--	--	3	--	100 A	0.0	
10	SPARE	--	--	--	--	3	--	100 A	0.0	
11	SPACE	--	--	--	--	--	--	--	0.0	--
12	SPACE	--	--	--	--	--	--	--	0.0	--
13	SPACE	--	--	--	--	--	--	--	0.0	--
14	SPACE	--	--	--	--	--	--	--	0.0	--
15	SPACE	--	--	--	--	--	--	--	0.0	--
16	SPACE	--	--	--	--	--	--	--	0.0	--
17	SPACE	--	--	--	--	--	--	--	0.0	--
18	SPACE	--	--	--	--	--	--	--	0.0	--
19	SPACE	--	--	--	--	--	--	--	0.0	--
20	SPACE	--	--	--	--	--	--	--	0.0	--

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP - MISC	164645 VA	100.00%	164645 VA	TOTAL CONN. LOAD:	1770 kVA
HVAC	583340 VA	100.00%	583340 VA	TOTAL EST. DEMAND:	1701 kVA
LTNG	72236 VA	125.00%	90295 VA	TOTAL CONN. CURRENT:	2129 A
KITCH	6520 VA	65.00%	4238 VA	TOTAL EST. DEMAND CURRENT:	2046 A
REC	417980 VA	51.20%	213990 VA		
EXISTING	477740 VA	125.00%	597175 VA		
ELEVATOR	11000 VA	100.00%	11000 VA		
EQUIP - LAUNDRY	2000 VA	100.00%	2000 VA		
EQUIP - IT	7600 VA	100.00%	7600 VA		
EQUIP - REFRIG	26706 VA	100.00%	26706 VA		

NOTES:
1. PROVIDE BREAKER WITH ADVANCED ELECTRONIC TRIP UNIT.

SWITCHBOARD AND WIRING SCHEDULE

SWITCHBOARD: MDP2 **MAINS TYPE:** MCB **AVAILABLE FAULT CURRENT:** 90.4
VOLTAGE: 480Y/277V,3P,4W **SPD:** Yes **kAIC RATING:** 100
AMPERES: 2000 A **MOUNTING:** PAD **LOCATION:** MAIN ELECTRICAL ROOM...
SUPPLY FROM: AUX

CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	POL...	FRAME	TRIP	LOAD (kVA)	REMARKS
1	HD2E	3	(4)500KCMIL	250...	3-1/2"	3	800 A	800 A	435.9	
2	HD1C	2	(4)250KCMIL	#2/0	2-1/2"	3	400 A	400 A	233.8	
3	HD1H	3	(4)400KCMIL	#2/0	3-1/2"	3	600 A	600 A	254.0	
4	OA-1 - ROOF	1	(4)#8	#10	3/4"	3	100 A	40 A	24.7	
5	OA-2 - ROOF	1	(4)#4	#10	1-1/4"	3	100 A	60 A	35.0	
6	SPARE	--	--	--	--	3	--	100 A	0.0	
7	SPARE	--	--	--	--	3	--	100 A	0.0	
8	SPARE	--	--	--	--	3	--	100 A	0.0	
9	SPACE	--	--	--	--	--	--	--	0.0	--
10	SPACE	--	--	--	--	--	--	--	0.0	--
11	SPACE	--	--	--	--	--	--	--	0.0	--
12	SPACE	--	--	--	--	--	--	--	0.0	--
13	SPACE	--	--	--	--	--	--	--	0.0	--
14	SPACE	--	--	--	--	--	--	--	0.0	--
15	SPACE	--	--	--	--	--	--	--	0.0	--
16	SPACE	--	--	--	--	--	--	--	0.0	--
17	SPACE	--	--	--	--	--	--	--	0.0	--
18	SPACE	--	--	--	--	--	--	--	0.0	--
19	SPACE	--	--	--	--	--	--	--	0.0	--
20	SPACE	--	--	--	--	--	--	--	0.0	--

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
EQUIP - MISC	167841 VA	100.00%	167841 VA	TOTAL CONN. LOAD:	983 kVA
HVAC	608214 VA	100.00%	608214 VA	TOTAL EST. DEMAND:	924 kVA
LTNG	17738 VA	125.00%	22172 VA	TOTAL CONN. CURRENT:	1183 A
KITCH	94127 VA	65.00%	61183 VA	TOTAL EST. DEMAND CURRENT:	1111 A
REC	77820 VA	56.43%	43910 VA		
EXISTING	10000 VA	125.00%	12500 VA		
EQUIP - LAUNDRY	5000 VA	100.00%	5000 VA		
EQUIP - REFRIG	2000 VA	100.00%	2000 VA		

NOTES:

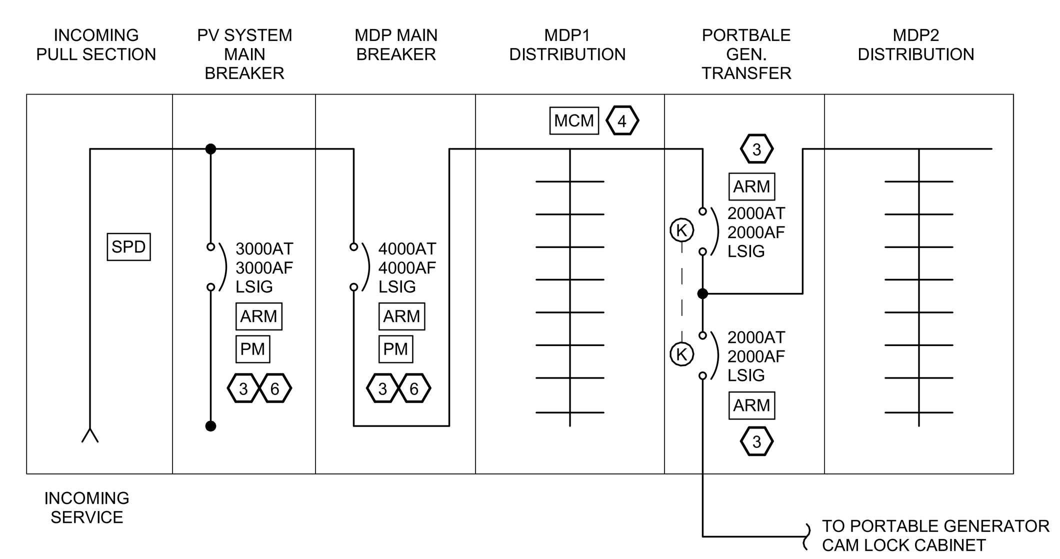
ELEC RISER - METERING SCHEDULE

METER DESIGNATION	METER TYPE	BASIS OF DESIGN	METERED LOAD	LOAD CATEGORY	VOLTAGE	POLES	LOAD RATING	REMARKS
EMHD-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	EMHD	PANEL TOTAL	480 V	3	200 A	
EMHD-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	EMLR1A	PLUG	208 V	3	60 A	
EMHD-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	EMLR1G	PLUG	208 V	3	60 A	
EMHD-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	EMLR1D	PLUG	208 V	3	60 A	
HD1A-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HD1A	PANEL TOTAL	480 V	3	800 A	
HD1A-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LD1A	PANEL TOTAL	208 V	3	600 A	
HD1A-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LM1A	HVAC	208 V	3	225 A	
HD1A-MCM-5	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL1A	LIGHTING	480 V	3	60 A	
HD1C-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HD1C	PANEL TOTAL	480 V	3	400 A	
HD1C-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LD1C	PANEL TOTAL	208 V	3	600 A	
HD1C-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LK1C	KITCHEN	208 V	3	400 A	
HD1C-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL1C	LIGHTING	480 V	3	60 A	
HD1C-MCM-5	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LM1C1	HVAC	208 V	3	150 A	
HD1C-MCM-6	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LM1C2	HVAC	208 V	3	60 A	
HD1C-MCM-7	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LR1C	PLUG	208 V	3	225 A	
HD1D-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HD1D	PANEL TOTAL	480 V	3	800 A	
HD1D-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL1D	LIGHTING	480 V	3	60 A	
HD1D-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL2D	LIGHTING	480 V	3	60 A	
HD1D-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LM1D	HVAC	480 V	3	125 A	
HD1D-MCM-5	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LM2D	HVAC	480 V	3	125 A	
HD1D-MCM-6	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LR1D	PLUG	480 V	3	80 A	
HD1D-MCM-7	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LR2D	PLUG	480 V	3	80 A	
HD1D-MCM-8	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	ELEVATOR	ELEVATOR	480 V	3	30 A	
HD1F-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HD1F	PANEL TOTAL	480 V	3	800 A	
HD1F-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL1F	LIGHTING	480 V	3	100 A	
HD1F-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HM1F	HVAC	480 V	3	400 A	
HD1F-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LC1F	PLUG	480 V	3	125 A	
HD1F-MCM-5	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LR1F	PLUG	480 V	3	225 A	
HD1G-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HD1G	PANEL TOTAL	480 V	3	1000 A	
HD1G-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LD1G	PLUG	480 V	3	350 A	
HD1G-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LM1G	HVAC	480 V	3	225 A	
HD1G-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-LM2G	HVAC	480 V	3	225 A	
HD1G-MCM-5	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL1G	LIGHTING	480 V	3	60 A	
HD1G-MCM-6	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL2G	LIGHTING	480 V	3	60 A	
HD1H-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HD1H	PANEL TOTAL	480 V	3	600 A	
HD1H-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HM1H	HVAC	480 V	3	200 A	
HD1H-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LR1H	PLUG	208 V	3	100 A	
HD1H-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	COOLING TOWER	HVAC	480 V	3	70 A	
HD2E-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HD2E	PANEL TOTAL	480 V	3	800 A	
HD2E-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HL1E	LIGHTING	480 V	3	60 A	
HD2E-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	HM1E	HVAC	480 V	3	300 A	
HD2E-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LD2E	PLUG	208 V	3	400 A	
HD2E-MCM-5	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LM2E	HVAC	208 V	3	225 A	
LD2A-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	LD2A	PANEL TOTAL	208 V	3	800 A	
LD2A-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	DIMMER	LIGHTING	208 V	3	400 A	
LD2A-MCM-3	POWER METER	SCHNEIDER EM4900	STAGE	LIGHTING	208 V	3	400 A	
MDP-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	FB CONCESSION	ATHLETICS	480 V	3	200 A	
MDP-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	FB LIGHTING	ATHLETICS	480 V	3	150 A	
MDP-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	OA-2 - ROOF	HVAC	480 V	3	60 A	
MDP-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	OA-1 - ROOF	HVAC	480 V	3	40 A	
MDP-PM1	POWER METER	SCHNEIDER PM5560	MDP	BUILDING TOTAL	480 V	3	4000 A	
PV-PM1	POWER METER	SCHNEIDER PM5560	PV	PHOTOVOLTAIC	480 V	3	3000 A	
SBHD-MCM-1	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	SBHD	PANEL TOTAL	480 V	3	300 A	
SBHD-MCM-2	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-SBLK1C	KITCHEN	480 V	3	70 A	
SBHD-MCM-3	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-SBLR1A	PLUG	480 V	3	30 A	
SBHD-MCM-4	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-SBLR1D	PLUG	480 V	3	80 A	
SBHD-MCM-5	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	T-SBLR1G	PLUG	480 V	3	60 A	
SBHD-MCM-6	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	SBHL1F	PANEL TOTAL	480 V	3	100 A	
SBHD-MCM-7	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	SBLR1F	PLUG	208 V	3	100 A	
SBHD-MCM-8	MULTI CIRCUIT ENERGY	SCHNEIDER EM4900	EXISTING - ELEVATOR	ELEVATOR	480 V	3	20 A	

ELEC RISER - VIRTUAL METERING SCHEDULE

METER DESIGNATION	METER TYPE	LOAD CATEGORY	REMARKS
EMHD-V1	VIRTUAL	LIGHTING	FORMULA: (EMHD-MCM-1) - [(EMHD-MCM-2)+(EMHD-MCM-3)+(EMHD-MCM-4)]
HD1A-V1	VIRTUAL	HVAC	FORMULA: (HD1A-MCM-1) - [(HD1A-MCM-2)+(HD1A-MCM-3)+(LD2A-MCM-1)+(HD1A-MCM-5)]
HD1C-V1	VIRTUAL	HVAC	FORMULA: (HD1C-MCM-1) - [(HD1C-MCM-2)+(HD1C-MCM-4)]
HD1D-V1	VIRTUAL	HVAC	FORMULA: (HD1D-MCM-1) - [(HD1D-MCM-2)+(HD1D-MCM-3)+(HD1D-MCM-4)+(HD1D-MCM-5)+(HD1D-MCM-6)+(HD1D-MCM-7)+(HD1D-MCM-8)]
HD1G-V1	VIRTUAL	HVAC	FORMULA: (HD1G-MCM-1) - [(HD1G-MCM-2)+(HD1G-MCM-5)+(HD1G-MCM-6)]
HD1H-V1	VIRTUAL	HVAC	FORMULA: (HD1H-MCM-1) - (HD1H-MCM-3)
HD2E-V1	VIRTUAL	HVAC	FORMULA: (HD2E-MCM-1) - [(HD2E-MCM-2)+(HD2E-MCM-3)+(HD2E-MCM-4)+(HD2E-MCM-5)]
LD1A-V1	VIRTUAL	PLUG	FORMULA: (HD1A-MCM-2) - (HD1A-MCM-3)
LD2A-V1	VIRTUAL	PLUG	FORMULA: (LD2A-MCM-1) - [(LD2A-MCM-2)+(LD2A-MCM-3)]
SBHD-V1	VIRTUAL	HVAC	FORMULA: (SBHD-MCM-6)-[(SBHD-MCM-7)+(SBHD-MCM-8)]

METERING SCHEDULE NOTES:
1. PROVIDE CTS SUITABLE FOR LOAD INDICATED WITH MINIMUM 1% ACCURACY FROM 5% TO 100% OF RATED CURRENT.
2. PROVIDE RACEWAY FOR CT LEADS WHERE ROUTED OUTSIDE EQUIPMENT ENCLOSURES.
3. PROVIDE NECESSARY PATHWAYS FOR ALL DATA DROPS TO METERING DEVICES.



2 SWITCHBOARD MDP POWER FLOW DIAGRAM

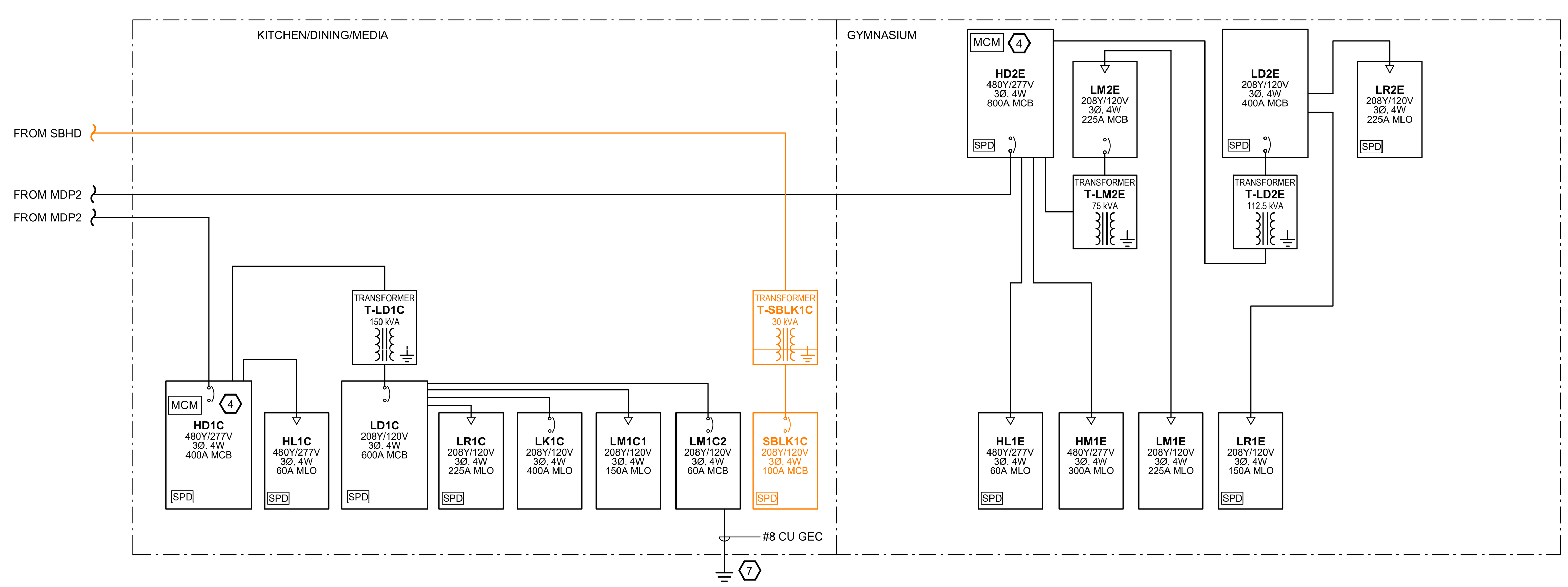
NO SCALE

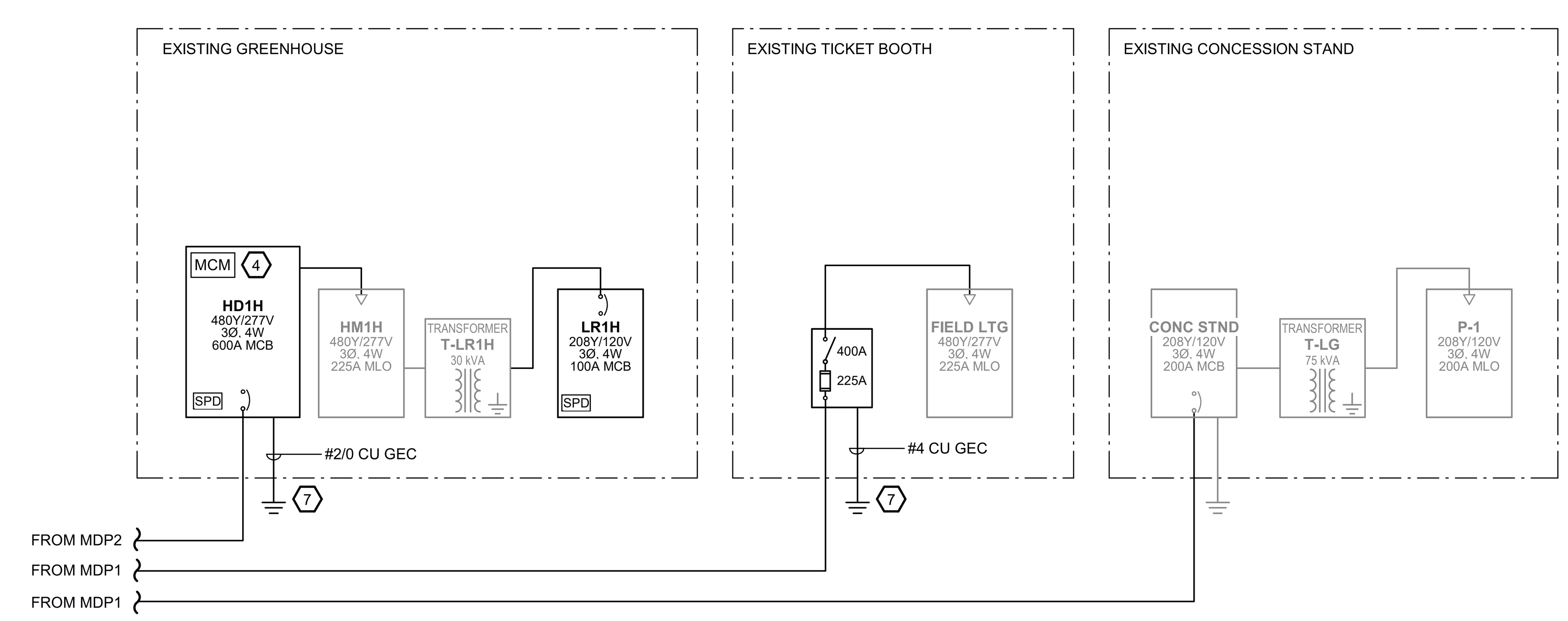
PANELBOARD NAMING LEGEND:

MDP - MAIN DISTRIBUTION SWITCHBOARD
ATS - AUTOMATIC TRANSFER SWITCH
T - TRANSFORMER
EM - EMERGENCY PANELBOARD (NEC ART 700)
SB - OPTIONAL STAND-BY PANELBOARD (NEC ART 702)
Hx - 480Y/277V SYSTEM PANELBOARD
Lx - 208Y/120V SYSTEM PANELBOARD
xD - DISTRIBUTION PANELBOARD
xL - LIGHTING BRANCH PANELBOARD
xR - RECEPTACLE BRANCH PANELBOARD
xM - MECHANICAL EQUIPMENT PANELBOARD
xK - KITCHEN PANELBOARD

TAGGED NOTES:

1. PROVIDE MAIN BONDING JUMPER, GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES AT SERVICE ENTRANCE. REFER TO GROUNDING ELECTRODE SYSTEM DETAIL FOR MORE INFORMATION.
2. REFER TO POWER FLOW DIAGRAM FOR ADDITIONAL DETAILS ON SWITCHBOARD LINEUP.
3. PROVIDE ARC FLASH REDUCTION MAINTENANCE SWITCH.
4. PROVIDE MULTI-CIRCUIT ENERGY METER. REFER TO METERING SCHEDULE FOR MORE INFORMATION.
5. PROVIDE GENERATOR CIRCUIT BREAKERS WITH ADVANCED ELECTRONIC TRIP UNIT, 400A FRAME.
6. PROVIDE MULTI-FUNCTION POWER METER. REFER TO METERING SCHEDULE FOR MORE INFORMATION.
7. CONNECT EQUIPMENT GROUNDING CONDUCTOR TO BUILDING GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 250.32(B)(1).
8. PROVIDE ENERGY METER. REFER TO METERING SCHEDULE FOR MORE INFORMATION.
9. PROVIDE BONDING FOR NON-SEPARATELY DERIVED GENERATOR. REFER TO GENERATOR BONDING DETAIL ON SHEET E812.





1 ELECTRICAL DISTRIBUTION RISER DIAGRAM - CONTINUED

NO SCALE

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VMDO Project Number 1294

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No: 36125, Expiration Date: 07/28/2022

STATE OF MARYLAND ROBERT A. HANS No. 36125 PROFESSIONAL ENGINEER

Checked By B.TURNER
Drawn By G.RIDDLE

ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
1	PERMIT AND BID DOCUMENTS	22.OCT.2021

ELECTRICAL RISER DIAGRAMS AND ELEVATIONS

E702