SINGLE-LINE DIAGRAM KEYED NOTES

1. VERIFY WITH SERVICE PLANNER FOR AIC RATING AND ELECTRICAL INFORMATION BEFORE ISSUING ANY BID. NOTIFY ENGINEER IMMEDIATELY IF MAJOR DISCREPANCIES OCCURS.
2. STUB UP CONDUIT FOR PV SYSTEM. PV SYSTEM SHALL BE SUBMITTED UNDER A SEPARATE PERMIT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PV CONSULTANT FOR THE EXACT SIZE OF CONDUIT AND ALL ELECTRICAL REQUIREMENTS
3. REFER TO UTILITY PLANS FOR EXACT ROUTING OF FEEDERS AND FEEDER SIZE.

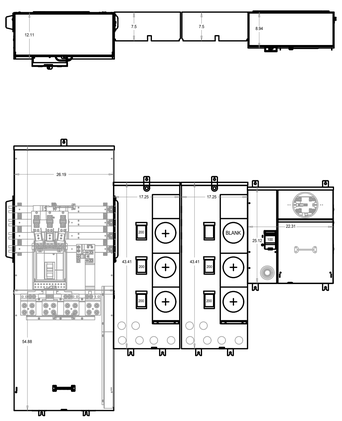
SINGLE-LINE DIAGRAM GENERAL NOTES

1. THE MAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED BY THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY COMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT IS HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY.
2. LETTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION.
3. ELECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
4. ALL NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES AND ELECTRICAL EQUIPMENT, IF FULLY RATED, SHALL HAVE A SHORT-CIRCUIT (AIC) RATING EXCEEDING THE AVAILABLE SHORT-CIRCUIT CURRENT AT THE EQUIPMENT.
5. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
   - 5.1. TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
   - 5.2. LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
   - 5.3. PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56, 692.56, 700.7, 701.7, 702.7, AND 705.10 DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES AS APPLICABLE.
   - 5.4. SINGLE LINE DIAGRAM SHOWN IS A "FULLY RATED SYSTEM" UNLESS NOTED. OTHERWISE.
   - 5.5. THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
   - 5.6. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE "UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION".
6. SERIES RATED COMPONENTS SHALL BE INSTALLED/MAINTAINED PER THE MANUFACTURER SERIES RATING CHART AND LABELED ACCORDINGLY PER CEC SECTION 110.22 AND 240.83(C)

3

BUILDING 1 - 'MS1'

600AMPS, MAIN BREAKER, THREE PHASE SWITCHBOARD
5 UNITS & 1 HOUSE METER



3

SERIES COMBINATION SHORT CIRCUIT CURRENT RATING / VALORES NOMINALES DE LA CORRIENTE DE CORTOCIRCUITO EN SERIE

Interrupting Rating RMS Symmetrical Amperes at___V~ Max. / Valor nominal de interrupción A simétricos rcm a___ V~ máx.	Line Side SQUARE D Circuit Breaker Catalog Designation or Fuse Class / Clase de fusible o designación de catálogo de los interruptores automáticos SQUARE D del lado de línea (Max. A rating / Valor nominal máx. en A) *	Poles / Polos	SQUARE D Tenant Circuit Breaker (Integral or Remote) / Interruptor Automático del Usuario de SQUARE D (Integral o Remoto)		Integral Main Breaker / Interruptor Automático Principal Integral	QO Load Center / Centro de Carga QO			HOMELINE Load Center / Centro de Carga HOMELINE		
			Catalog Designation (Max. A rating) Designación de Catálogo (A Máx.) *	Poles / Polos		SQUARE D Circuit Breaker Catalog Designation / Designación de Catálogo de Interruptor Automático de SQUARE D *			SQUARE D Circuit Breaker Catalog Designation / Designación de Catálogo de Interruptor Automático de SQUARE D *		
						Branch Breaker / Interruptor Automático Derivado	Max. A Rating / Nominal A Máx. 1 Polo / 1 Polo	Max. A Rating / Nominal A Máx. 2 Polos / 2 Polos	Branch Breaker / Interruptor Automático Derivado	Max. A Rating / Nominal A Máx. 1 Polo / 1 Polo	Max. A Rating / Nominal A Máx. 2 Polos / 2 Polos
42,000 at 240	LA, MA	2, 3	QO-VH (125)	2	QOM1-VH or NONE	QO ¥	70	100	HOM §	50	100
65,000 at 240	LH, MG, MJ, MH, PG, PJ, PA (1600), RG (2000), RJ (2000)	2, 3	QO-VH (125) or QOH	2		QOT	20		HOMT	30	50
100,000 at 240	MHF, Class R, J, T6, T3, L (1200)	2, 3									
42,000 at 240	LA, MA	2, 3		2	QOM2-VH or NONE	QO ¥	70	200 ‡	HOM §	50	200 ‡
65,000 at 240	LH, MG, MH, PG, PA (1600), RG (2000)	2, 3	QG (225) or QG (225)			QOT	20		HOMT	30	50
100,000 at 240, 2-pole 65,000 at 240, 3-pole	MJ, MHF, PJ, PH (1600), RJ (2000), Class R, J, T3, T6, L (1200)	2, 3		3		QO ¥	70	125	30		
						QO-VH			100		
100,000 at 208/120, 3 pole						QO-H		100			

* See circuit breaker for voltage and interrupting rating. / Consulte los datos del interruptor automático para obtener los valores nominales de tensión e interrupción.

See box label for additional short circuit current ratings and restrictions. / Consulte la etiqueta de la caja para obtener información adicional sobre la corriente nominal de cortocircuito y restricciones.

‡ 100 A Max. in load centers with 125 A Max. mains rating. / 100 A máx. para centros de carga con valor nominal en la línea principal de 125 A max

¥ QO includes suffixes AFI, EPD, EPE, GFI & PL / QO incluye los sufijos AFI, EPD, EPE, GFI y PL

§ HOM includes suffixes AFI, BB, EPD & GFI / HOM incluye los sufijos AFI, BB, EPD y GFI

SQUARE D by Schneider Electric

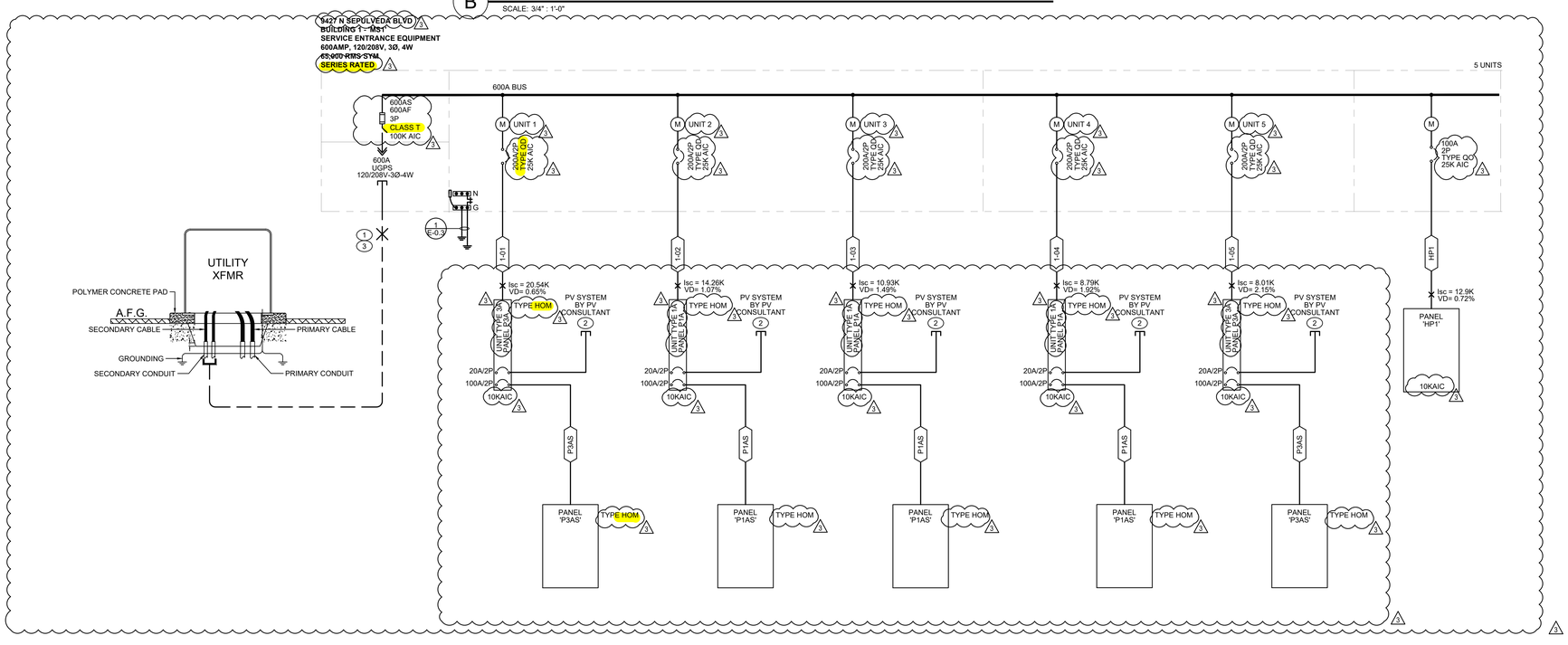
HRB84252

For Homeline Convertible Main Load Centers Protected with Two-Pole QD or QG Tenant Circuit Breakers

3

B ELECTRICAL EQUIPMENT ELEVATION - BUILDING 1 - 'MS1'

SCALE: 3/4" : 1'-0"



3

Voltage Drop and Short Circuit Calculation

CABLE NAME	PANEL NAME	UNIT/ CIRCUIT	VOLTS	PHASE	FEEDER DEMAND AMPS	FEEDER 3 AMPS	FEEDER PARALLEL RUNS	FEEDER PHASE CONDUCTOR	FEEDER EQUIPMENT GROUNDING CONDUCTOR	CONDUIT CONDUCTOR MATERIAL	CONDUIT CONDUCTOR INSULATION	CONDUIT TYPE	CONDUIT SIZE	CONDUIT FILL% (<40%)	FAULT CURRENT DISTANCE (FT) 'L'	FAULT CURRENT %VD	FAULT CURRENT FAULT CURRENT	FAULT CURRENT Isc
1-01	P3A	3A	208	1	161	200	1	250	4	ALUM	THHN	SER	NaN	-	42	0.65	65000	20534
1-01	P3AS	3A	208	1	100	100	1	1	4	ALUM	THHN	SER	NaN	-	15	0.36	20534	12539
1-02	P1A	1A	208	1	160	200	1	250	4	ALUM	THHN	SER	NaN	-	69	1.06	65000	14262
1-02	P1AS	1A	208	1	100	100	1	1	4	ALUM	THHN	SER	NaN	-	15	0.36	14262	9885
1-03	P1A	1A	208	1	160	200	1	250	4	ALUM	THHN	SER	NaN	-	96	1.48	65000	10925
1-03	P1AS	1A	208	1	100	100	1	1	4	ALUM	THHN	SER	NaN	-	15	0.36	10925	8158
1-04	P1A	1A	208	1	160	200	1	250	4	ALUM	THHN	SER	NaN	-	124	1.91	65000	8792
1-04	P1AS	1A	208	1	100	100	1	1	4	ALUM	THHN	SER	NaN	-	15	0.36	8792	6907
1-05	P3A	3A	208	1	161	200	1	250	4	ALUM	THHN	SER	NaN	-	138	2.14	65000	8010
1-05	P3AS	3A	208	1	100	100	1	1	4	ALUM	THHN	SER	NaN	-	15	0.36	8010	6415
HP1	HP1	HOUSE PANEL	208	1	100	100	1	1	4	ALUM	THHN	EMT	1 1/4	36.83%	30	0.72	65000	12906

NOTE: THE VOLTAGE DROP IN THE ABOVE TABLE IS AN ESTIMATED LENGTH.THE CONTRACTOR SHALL REVISE THE FEEDER SCHEDULE BASED ON THE ACTUAL LENGTH IN THE FIELD, AND INCREASE OR DECREASE THE FEEDER SIZE TO ACCOMMODATE THE VOLTAGE DROP. ELECTRICAL CONTRACTOR SHALL INFORM THE ENGINEER OF RECORD IN EVENT FIELD CONDITIONS THAT CAUSE A SUBSTANTIAL INCREASE IN OVERALL FEEDER LENGTH. THE FEEDER SHALL BE SIZED TO PREVENT VOLTAGE DROP FROM EXCEEDING 3%, AND TOTAL VOLTAGE DROP FOR BRANCH CIRCUIT AND FEEDER SHALL NOT EXCEED 5% PER NEC 210.19,215.2.

3

LOS ANGELES DEPARTMENT OF WATER & POWER — **Track Electrical Service Installation Status**

Address: 9433 SEPULVEDA BL, NORTH HILLS

Overall Job Progress:

Not Started

Electric Meter Installation:

Meter Job Created	Completed On 03/02/2023
Completed Initiation Chargeable Work Order	PENDING
Address Validation	PENDING
ESR Meter Release	PENDING
LADBS Meter Release	PENDING
Final Approval (Job Sent to Construction)	PENDING
Meter Installation Scheduled	PENDING
Meter Installed	PENDING
Project has been Completed	PENDING

Additional Service Information:

Job Address: 9433 SEPULVEDA BL, NORTH HILLS
Work Request (Work Order) No: 2479482
Project ID: P307849
120/208 Volts, 3 Phase, 4 Wire
Meter Switch Amps: 600
Fault Current: 42,000 Amps AIC
Switchboard Info: 600A MS1

Please contact the Connection Center at (213) EMPOWER or (213) 367-6937 if your questions are not answered.

SINGLE LINE DIAGRAM
BUILDING 1

PROJECT NUMBER:
66002

ENGINEER:

DRAFTER:

SHEET NUMBER:
E-0.4

ISSUED DATE: X/XX/XX

SINGLE LINE DIAGRAM - BUILDING 1 - 'MS1' | 1