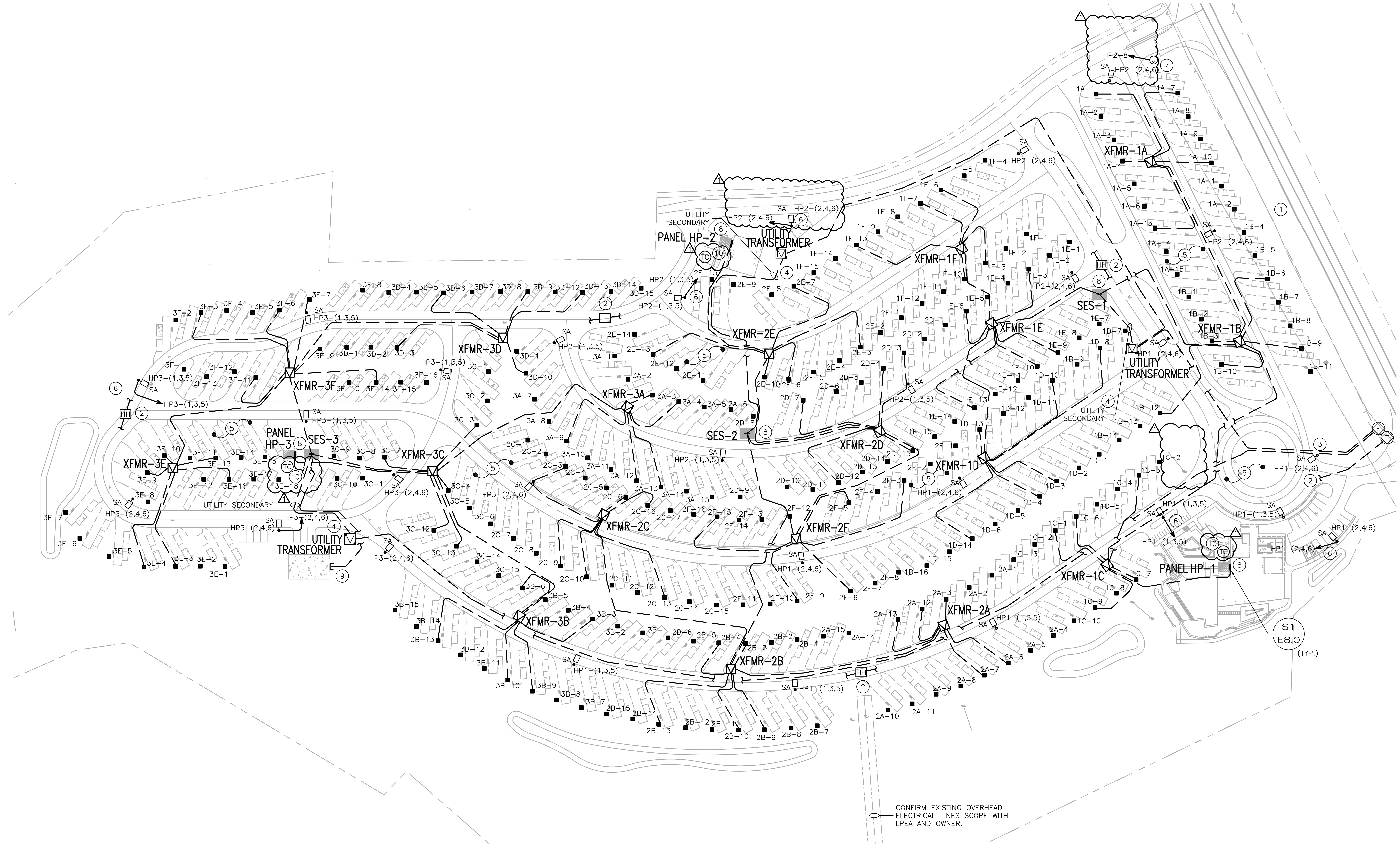


1 ELECTRICAL SITE PLAN
SCALE: 1"=70'-0"

GENERAL NOTES

A. COORDINATE IRRIGATION CONTROLLER LOCATIONS WITH LANDSCAPE PLANS. IRRIGATION CONTROLLER, 120V OR 240V/1PH & 20A BRANCH CIRCUIT. 1"C, 2#10(CU), 1#10(CU)G.

B. RV SITE ELECTRICAL SUPPLY EQUIPMENT SHALL BE LOCATED PER NEC 551.77(A).

C. UTILITY SERVICE (TELEPHONE/CABLE) – COORDINATE ALL SERVICE REQUIREMENTS WITH UTILITY. PROVIDE AND INSTALL ALL NECESSARY TRENCHING CONDUITS, JUNCTION BOXES, AND ALL ELSE AS REQUIRED PER UTILITY SPECIFICATIONS.

D. PROVIDE DETECTABLE UNDERGROUND LOCATION DEVICE (MIN. #18 COPPER TRACER ATTACHED AT 8FT INTERVALS) IN ALL NON-METALLIC UNDERGROUND CONDUITS PER A.R.S. 40-360.22M.

KEYED NOTES - SITE PLAN

E. ESTIMATED POINT OF CONNECTION POWER, EXISTING UTILITY PRIMARY.

T. ESTIMATED POINT OF CONNECTION (DATA/TEL). EXISTING DATA/TELEPHONE UTILITIES AT ROADWAYS.

KEYED NOTES

1. OVERHEAD ELECTRICAL LINES TO BE FED UNDERGROUND.
2. PROVIDE (2)2"C AND HANDHOLES THROUGHOUT THE SITE FOR LOW VOLTAGE TELEPHONE/COMMUNICATION LINES. COORDINATE WITH COMMUNICATION SERVICE PROVIDER AND OWNERSHIP.
3. UNDERGROUND UTILITY PRIMARY AS COORDINATED WITH LPEA (TYP.).
4. UNDERGROUND UTILITY SECONDARY AS COORDINATED WITH LPEA (TYP.).
5. AVOID ROUTING CONDUIT UNDER RV SITES AND AROUND OTHER UNDERGROUND UTILITIES (TYP.).
6. 1"C, 4#10(CU), 1#10(CU)G FOR SITE LIGHTING AND RECEPTACLES. PROVIDE GFCI PROTECTION AND WEATHERPROOF ENCLOSURE FOR RECEPTACLES.
7. MONUMENT SIGN. PROVIDE & INSTALL 1"C, 2#10(CU), 1#10(CU)G. CONTROL VIA TIME CLOCK.
8. MOUNT MAINTENANCE RECEPTACLE TO UNI-STRUT SUPPORT AND TIE TO THE NEAREST MAINTENANCE RECEPTACLE CIRCUIT. PROVIDE GFCI PROTECTION AND WEATHERPROOF ENCLOSURE.
9. STUB-UP (2) 1"C FOR FUTURE PICKLEBALL COURT LIGHTING AND POWER.
10. PROVIDE AND INSTALL ASTRONOMICAL TIME CLOCK (INTERMATIC ET90815CR OR EQUAL) FOR EXTERIOR LIGHTING CONTROLS. ENSURE ALL SITE LIGHTING BRANCH CIRCUITS ARE RELAYED THROUGH ONE OF THE TIMECLOCKS. ENSURE THE TIME CLOCK IS PROGRAMMED TO EXTINGUISH OR LOWER ALL EXTERIOR LIGHTING BY 10:00PM. CONFIRM FINAL LOCATIONS OF TIMECLOCKS WITH OWNER PRIOR TO INSTALLATION.

VOLTA
1730 E. Northern Avenue, Ste. 120, Phoenix, AZ 85020
Tel. (480) 659-0511, VoltaUS.com

VUS#212501

08/29/25
COLORADO LICENSED PROFESSIONAL ENGINEER
52963
SEAL EXPIRES: 10/31/2025

DURANGO RV PARK

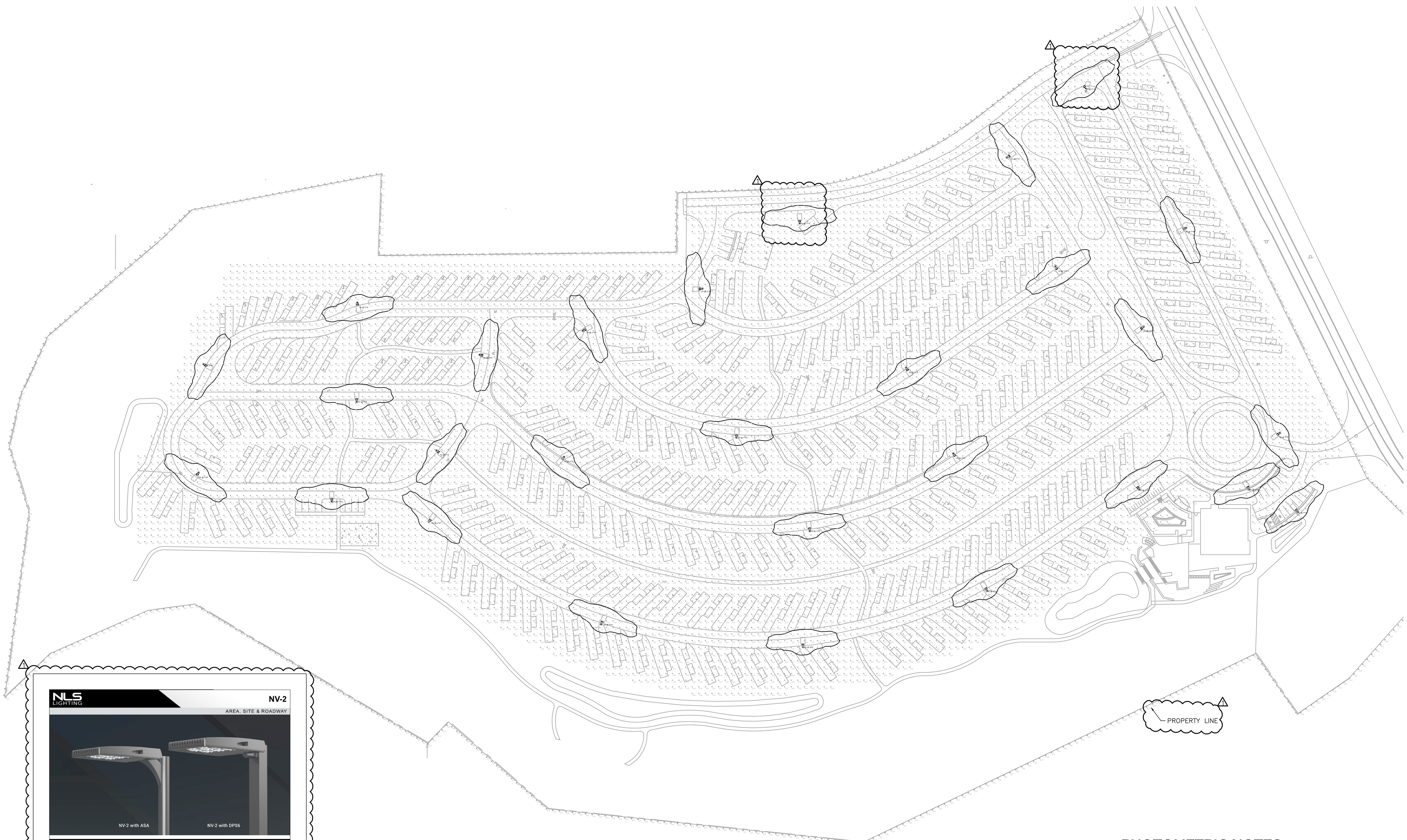
TRIMBLE LANE
DURANGO, CO 81301

REVISIONS	
CITY COMMENTS	08/29/25
FOR PERMIT	01/17/25

PROJECT #	SCALE:
212501	AS NOTED
CHECKED BY:	DRAWN BY
WB, LA	GC/AO
DATE	
01/17/25	

ELECTRICAL SITE PLAN

E1.0



PHOTOMETRIC SITE PLAN

1 PHOTOMETRIC SITE PLAN
SCALE: 1"=70'-0"

2 FIXTURE TYPE "SA"
NO SCALE

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE – FC @ GRADE	✳	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
SITE – FC @ GRADE	+	0.1 fc	7.7 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Lumen Multiplier	Light Loss Factor	Wattage
□	SA	28	NLS	NV-2 T2 80L 7 AMBER UNV ASA (FINISH) / SSS 15'-0" W/2.5' BASE	LED LUMINAIRE – TYPE 2 OPTICS	LED – AMBER	1	NV-2-T2-80L-7-50K.IES	21686	0.3	0.91	168

PHOTOMETRIC NOTES

A. THE PHOTOMETRIC DATA ON THIS SHEET HAS BEEN REVIEWED BY THE ENGINEER FOR COMPLIANCE WITH APPLICABLE LIGHTING CODES. THE CALCULATIONS ARE PERFORMED BY LIGHTING SUPPLIER AND THE ENGINEER'S REVIEW IS NOT A GUARANTEE OF PERFORMANCE. SUBSTITUTIONS TO ANY FIXTURE WILL REQUIRE UPDATED PHOTOMETRICS WHICH WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE FIXTURE SCHEDULE SHOWN ON THIS SHEET IS FOR CALCULATION PURPOSES ONLY. DO NOT USE AS A BILL-OF-MATERIAL. REFER TO THE PROJECT FIXTURE SCHEDULE.

VOLTA
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Tel. (480) 659-0511, VoltaUS.com

VUS#212501

08/29/25
COLORADO LICENSED
WILLIAM JOHNSON BETHURUM
52963
PROFESSIONAL ENGINEER
SEAL EXPIRES: 10/31/2025

DURANGO RV PARK
TRIMBLE LANE
DURANGO, CO 81301

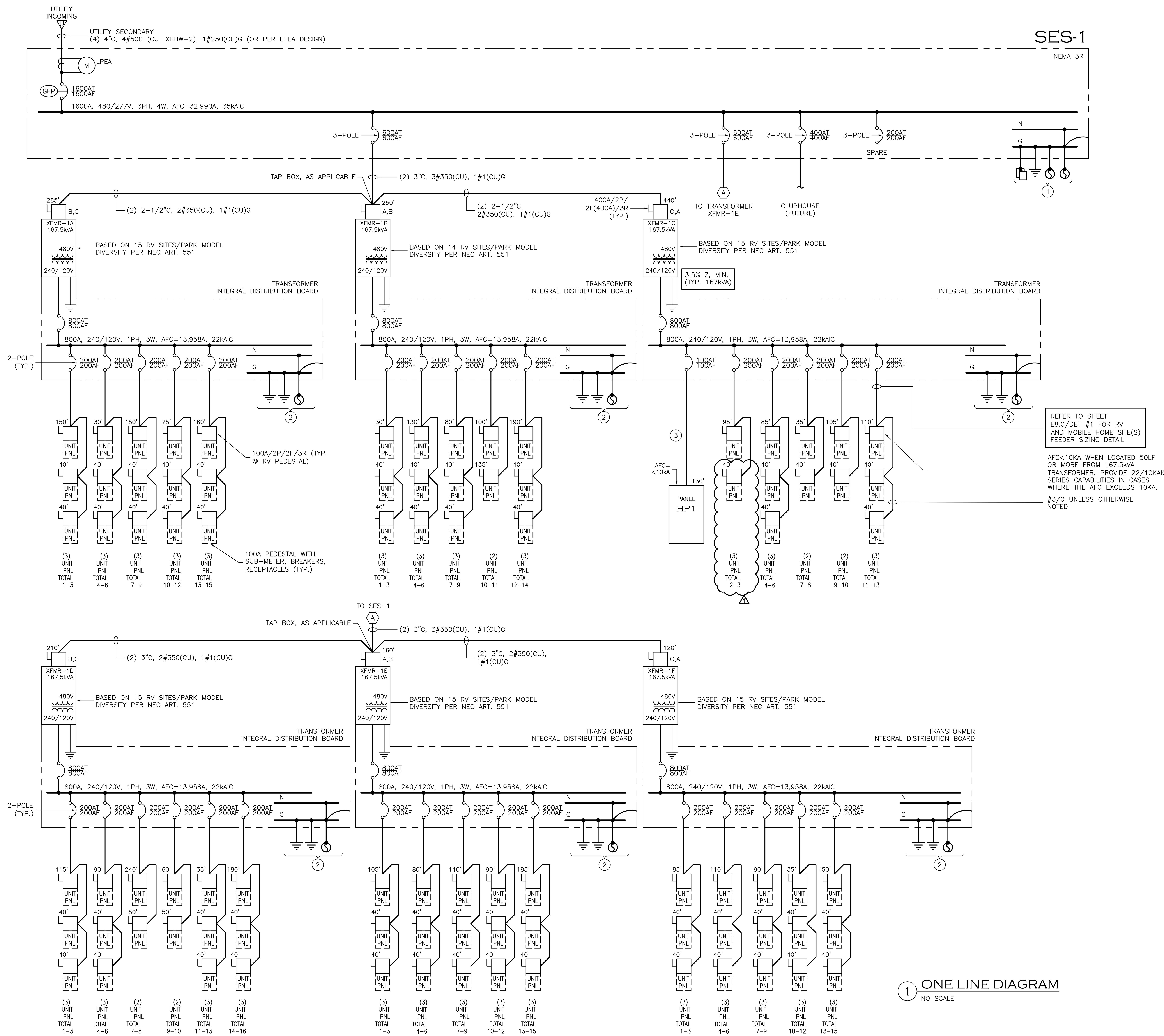
REVISIONS

No.	Description	Date
7		
6		
5		
4		
3		
2		
1	CITY COMMENTS	08/29/25
0	FOR PERMIT	01/17/25

PROJECT #: 212501	SCALE: AS NOTED
CHECKED BY: WB, LA	DRAWN BY: GC/AO
DATE: 01/17/25	

PHOTOMETRIC SITE PLAN

E1.1



1 ONE LINE DIAGRAM

NO SCALE

GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH NEC AND LOCAL CODES.

B. ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED. ALL EQUIPMENT AND FIXTURES SHALL BE UL LISTED.

C. REFER TO PLANS FOR SES AND PANEL LOCATIONS.

D. MAINTAIN WORKING CLEARANCE ABOUT ELECTRICAL EQUIPMENT PER NEC ART. 110, (30"W MIN), DEPTH PER NEC, (36" MIN).

E. GROUNDING – PROVIDE AND INSTALL GROUND ELECTRODES AND CONNECTIONS AS INDICATED AND ADDITIONAL AS REQUIRED PER NEC AND AHJ. UFER SHALL BE REQUIRED ON ALL NEW CONSTRUCTION. GROUND ALL TRANSFORMERS TO THE GROUND ELECTRODE SYSTEM.

F. UTILITY SERVICE – WHEN A UTILITY CONNECTION IS SHOWN ON THE ONE-LINE DIAGRAM (SEE SYMBOL LEGEND), COORDINATE ALL SERVICE REQUIREMENTS WITH UTILITY. PROVIDE AND INSTALL ALL NECESSARY PRIMARY / SECONDARY CONDUIT, TRANSFORMER PADS, ETC. AS REQUIRED BY THE UTILITY PER UTILITY SPECIFICATIONS. WITHIN (2) WEEKS OF PROJECT AWARD CONTRACTOR SHALL SUBMIT ELECTRICAL PLANS TO THE UTILITY FOR REVIEW.

G. SES – WHEN INDICATED ON ONE-LINE, PROVIDE AND INSTALL SES, RATINGS AS INDICATED. VERIFY ALL DIMENSIONS. MAINTAIN WORKING CLEARANCE PER NEC AND UTILITY REQUIREMENTS. PROVIDE 4" HOUSE KEEPING PAD FOR GROUND MOUNTED SES. CONTRACTOR SHALL SUBMIT SES/METER SHOP DRAWINGS TO UTILITY METER SHOP FOR APPROVAL.

H. CABLE LENGTHS WHEN INDICATED ON ONE-LINE ARE APPROXIMATE AND ARE FOR REFERENCE ONLY FOR CALCULATIONS AND ARE NOT TO BE USED FOR MATERIAL TAKEOFFS.

KEYED NOTES ⊖

1. 1600A LPEA SERVICE GROUNDING ELECTRODES:
#3/0(CU) SBJ
#3/0(CU) SSBJ
#4 BARE CU x 20FT UFER
#3/0(CU) WATER BOND (AS APPL.)

2. 167.5kVA GROUNDING ELECTRODES:
#3/0(CU) SBJ
#3/0(CU) SSBJ
#4 BARE CU x 20FT UFER
(2) 5/8" X 8FT GROUND RODS, COPPERCLAD STEEL, 6FT APART, #4CU
#3/0(CU) WATER BOND (AS APPL.)

3. PROVIDE 1-1/2"C, 3#1(CU), 1#6(CU) FOR HOUSE PANEL FEEDER.

SPECIAL INSPECTIONS

PROVIDE THIRD PARTY TESTING INCLUDING, BUT NOT LIMITED TO:

- SES/HI-POT, GROUND FAULT

FAULT CURRENT NOTES

1. UTILITY FAULT CURRENT VALUES ARE OBTAINED FROM PUBLISHED UTILITY DATA BASED ON SERVICE SIZE.

2. FAULT CURRENT CALCULATIONS ARE COMPLETED USING ETAP (ELECTRICAL TRANSIENT ANALYZER PROGRAM). STANDARD INPUT PARAMETERS ARE AS FOLLOWS:

   - PRE-FAULT VOLTAGE = 100%
   - CABLE IMPEDANCE PER NEC STANDARD LIBRARY.
   - TRANSFORMER IMPEDANCE AND X/R RATIOS ARE PER TYPICAL MANUFACTURERS DATA UNLESS NOTED OTHERWISE.
   - FAULT CURRENT VALUES SHOWN ARE 3 PHASE, 30 CYCLE, RMS SYMMETRICAL UNLESS NOTED OTHERWISE.
   - FOR SINGLE PHASE SYSTEMS, BUSSMANN CALCULATIONS ARE USED.

3. COMPLETE FAULT CURRENT REPORTS ARE AVAILABLE UPON REQUEST.

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08/29/25
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WILLIAM JOHNSON BENNETT
52963
SEAL EXPIRES: 10/31/2025

DURANGO RV PARK

TRIMBLE LANE
DURANGO, CO 81301

REVISIONS	
FOR PERMIT	01/17/25
CITY COMMENTS	08/29/25

PROJECT #: 212501	SCALE: AS NOTED
CHECKED BY: WB, LA	DRAWN BY: GC/AO
DATE: 01/17/25	

ONE-LINE DIAGRAM - SES#1

E6.0

ID	No. of Units	VA per unit	Total VA	Demand Factor	Demand VA	Additional Non-RV Load	Total KVA			Amps @ 480V / 3PH
SES (TOTAL ALL SERVICES)	274	19385	5311490	0.41	2177711	150000	2328			2800
(2) SES DESIGN LOAD	274	5701	1562019.2	1	1562019	150000	1712			1879

ID	No. of Units	VA per unit	Total VA	Demand Factor	Demand VA	Additional Non-RV Load	Total KVA	Amps @ 240V / 1PH	Amps @ 480V / 1PH	Amps @ 480V / 3PH
SES #1 (1600A)	87	19385	1686495	0.41	691463	80000	771	N/A	N/A	928
SES #1 SECTION 1 (600A)	41	19385	794785	0.41	325862	10000	336	N/A	N/A	404
XFMR-1A	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-1B	14	19385	271390	0.48	130267		130	543	271	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-1C	12	19385	232620	0.48	111658	10000	122	507	253	N/A
RV SITES	2	19385	38770	0.8	31016		31	129	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
SES #1 SECTION 2 (600A)	46	19385	891710	0.41	365601		366	N/A	N/A	440
XFMR-1D	16	19385	310160	0.47	145775.2		146	607	304	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-1E	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-1F	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A

ID	No. of Units	VA per unit	Total VA	Demand Factor	Demand VA	Additional Non-RV Load	Total KVA	Amps @ 240V / 1PH	Amps @ 480V / 1PH	Amps @ 480V / 3PH
SES #2 (1600A)	93	19385	1802805	0.41	739150	60000	799	N/A	N/A	961
SES #2 SECTION 1 (600A)	47	19385	911095	0.41	373549		374	N/A	N/A	449
XFMR-2A	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-2B	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-2C	17	19385	329545	0.47	154886		155	645	323	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
SES #2 SECTION 2 (600A)	46	19385	891710	0.41	365601	10000	376	N/A	N/A	452
XFMR-2D	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-2E	15	19385	290775	0.48	139572	10000	150	623	312	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-2F	16	19385	310160	0.47	145775		146	607	304	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A

ID	No. of Units	VA per unit	Total VA	Demand Factor	Demand VA	Additional Non-RV Load	Total KVA	Amps @ 240V / 1PH	Amps @ 480V / 1PH	Amps @ 480V / 3PH
SES #3 (1600A)	94	19385	1822190	0.41	747098	10000	757	N/A	N/A	911
SES #3 SECTION 1 (600A)	45	19385	872325	0.41	357653	10000	368	N/A	N/A	442
XFMR-3A	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-3B	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-3C	15	19385	290775	0.48	139572	10000	150	623	312	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
SES #3 SECTION 3 (600A)	49	19385	949865	0.41	389445		389	N/A	N/A	468
XFMR-3D	15	19385	290775	0.48	139572		140	582	291	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-3E	18	19385	348930	0.47	163997		164	683	342	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
XFMR-3F	16	19385	310160	0.47	145775		146	607	304	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	2	19385	38770	0.9	34893		35	145	N/A	N/A
RV SITES	3	19385	58155	0.8	46524		47	194	N/A	N/A

(1) SES LOAD CALCULATIONS

NO SCALE

Manufacture: SEE SPECIFICATIONS	Location: SEE PLAN				Voltage: 240/ 120V		Panel Name: HP (3)				
Mounting: SURFACE, N3R	Fed From: XFMR-1C,2E,3C				Phase: 1	Wire: 3					
Notes:					Min kAIC: 10	Rating: FULLY	Mains: 100A MCB				
	Amp Pole	C	Load (Dvrsty)	No.	Phase A	Phase B	No.	Load (Dvrsty)	C	Amp Pole	
SITE LIGHTING	20 2	C	750	1	1500		2	750	C	20 2	SITE LIGHTING
SITE LIGHTING	20 2	C	750	3		1500	4	750	C	20 2	SITE LIGHTING
SITE RECEPTACLES	20 1		500	5	1000		6	500		20 1	SITE RECEPTACLES
IRRIGATION CONTROLLER	20 1		500	7		1500	8	1000		20 1	MONUMENT SIGN (HP2 ONLY)
MAINTENANCE RECEPTACLES	20 1		500	9	1000		10	500		20 1	LIGHTING – PICKLEBALL (HP3 ONLY)
SPARE	20 1		0	11		500	12	500		20 1	RECEPT – PICKLEBALL (HP3 ONLY)
SPARE	20 1		0	13	0		14	0		20 1	SPARE
SPARE	20 1		0	15		0	16	0		20 1	SPARE
BUSSED SPACE				17	0		18	0		20 1	SPARE
BUSSED SPACE				19		0	20				BUSSED SPACE
BUSSED SPACE				21	0		22				BUSSED SPACE
BUSSED SPACE				23		0	24				BUSSED SPACE
100% Contin. + Non-Contin. Load					3,500	3,500	Total 1PH. VA:	8,125			
							Peak Phase:	35.4 AMPS			
							Bus Loading:	35.4%			
25% Continuous Load					375	750					
Feed Thru Load											
Per Phase					3,875	4,250		o			

(2) HOUSE PANEL SCHEDULES

NO SCALE

Load Calculations	RV SITE	
NEC 552.47		
Volts: 240		
Phase: 1		
Wire: 3	Qty.	VA
Gen. Ltg. & Rec. (3VA/sf)	399	1197
Small Appliances (1500VA ea.)	2	3000
Appliances (nameplates)		
Water Heater(s)	1	1275
Range	1	8000
Microwave	1	1580
Dishwasher(s) / Disposal(s)	1	810
Ceiling Fan	2	130
Total General Load		15992
First 3KVA		3000
35% of remainder		4547
Net General Load		7547
HVAC Load (larger of heating or cooling)		3393
Total Feeder Load (VA)		10940
Total Feeder Load (Amps)		46
Service Rating (Amps):		100

(3) TYPICAL UNIT LOAD CALCULATION

NO SCALE

KEYED NOTES

1. ADDITIONAL LOAD TO INCLUDE BATH HOUSE, CLUBHOUSE, AND WELCOME CENTER.
2. AVERAGE PEAK KW PER SITE BASED ON HISTORICAL DATA FOR SIMILAR USES IN SIMILAR CLIMATES.
3. TYPICAL HOUSE PANEL SCHEDULE FOR HP1,2,3.

GENERAL NOTES

A. COMPLY WITH NEC ART. 408.4. IDENTIFY EACH BRANCH CIRCUIT AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. COMPLETE THE PANEL SCHEDULE(S) BASED ON AS-BUILT CONDITIONS AND LOCATE IN PANELBOARD(S). IDENTIFY ALL SPARES ACCORDINGLY AND SET TO "OFF" POSITION.

B. ANY CIRCUIT BRANCH BREAKERS NOT EXISTING SHALL BE PROVIDED AND INSTALLED.

VOLTA

1730 E. Northern Avenue, Ste. 120, Phoenix, AZ 85020
Tel. (480) 659-0511, VoltaUS.com

VUS#212501

08/29/25 COLORADO LICENSED PROFESSIONAL ENGINEER 52963

SEAL EXPIRES: 10/31/2025

DURANGO RV PARK

TRIMBLE LANE
DURANGO, CO 81301

REVISIONS	
FOR PERMIT	01/17/25
CITY COMMENTS	08/29/25

PROJECT #	SCALE:
212501	AS NOTED
CHECKED BY: WB, LA	DRAWN BY: GC/AO
DATE: 01/17/25	

LOAD CALCULATIONS & PANEL SCHEDULES

E7.0