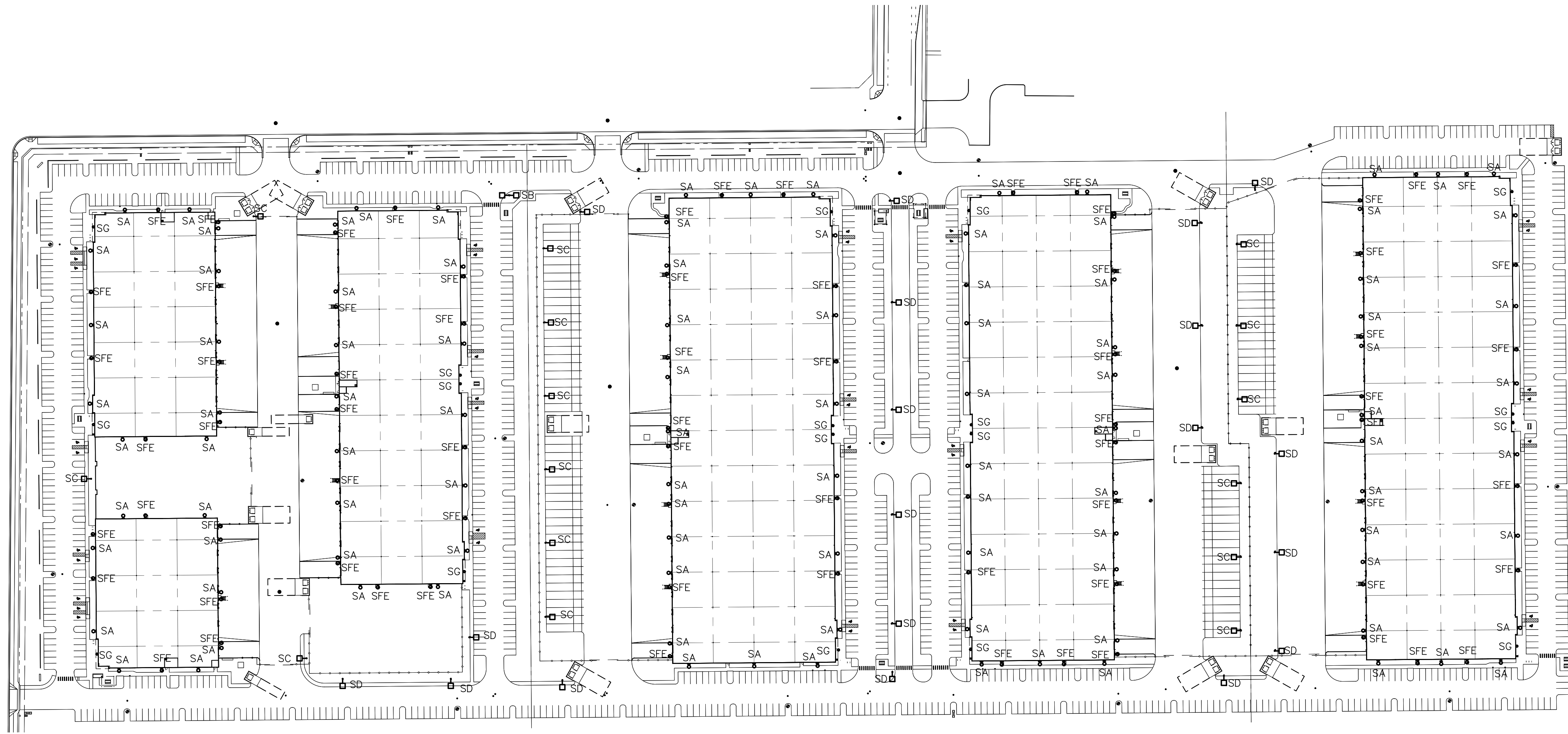
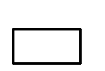
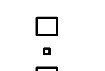
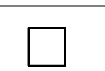
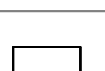
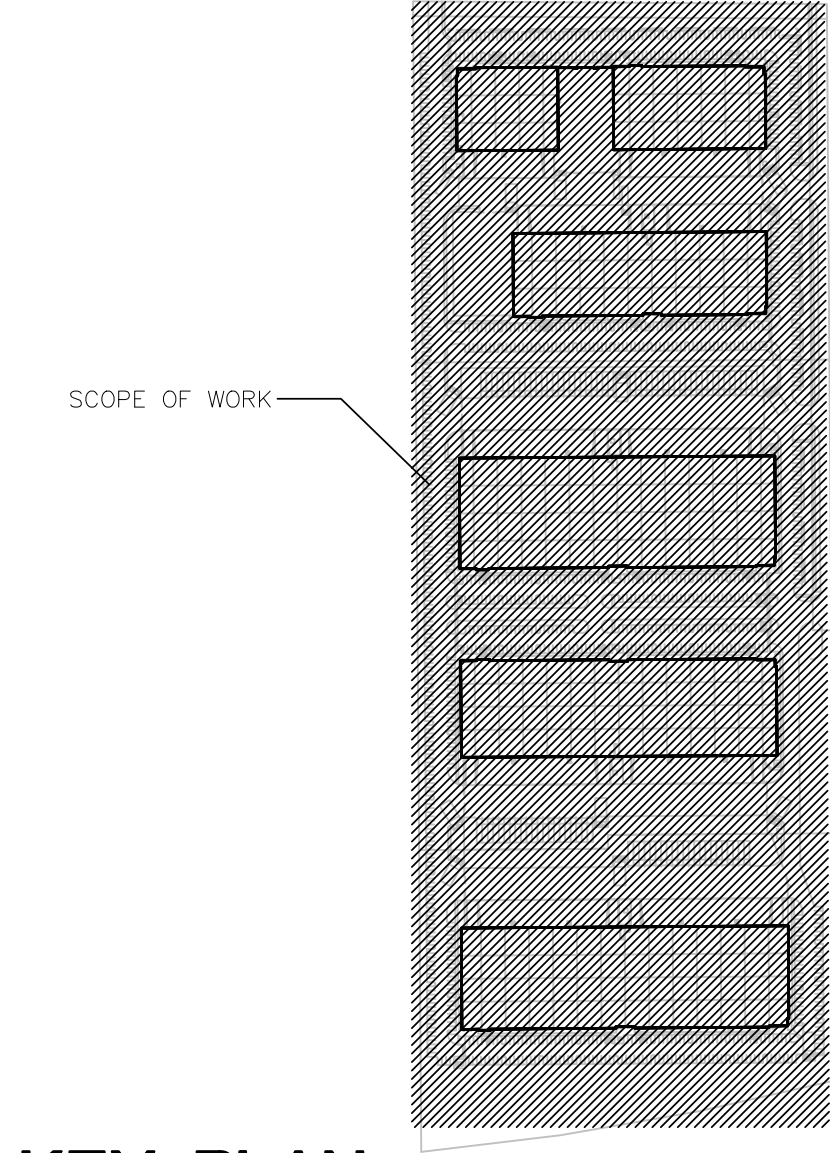




SITE LIGHTING PLAN
SCALE: 1" = 100'-0"


NORTH

Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	SA	91	Lithonia Lighting	WDGE4 LED P6 70CRI R4 40K/ WALL MOUNT AT 25'	WDGE4 LED WITH P6 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 OPTIC BRONZE FINISH	1	25861	0.91	185.23
	SB	1	Lithonia Lighting	DSX1 LED P9 40K T5M MVOLT/ SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T5M MVOLT BRONZE FINISH	1	28633	0.91	482
	SC	15	Lithonia Lighting	DSX1 LED P9 40K T4M MVOLT / SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T4M MVOLT BRONZE FINISH	1	26996	0.91	241
	SD	19	Lithonia Lighting	DSX1 LED P9 40K T3M MVOLT / SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T3M MVOLT BRONZE FINISH	1	26790	0.91	241
	SFE	74	Lithonia Lighting	WDGE1 LED P1 40K 80CRI VW E4WH @12'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC BRONZE FINISH W/ EMERGENCY BATTERY PACK	1	1229	0.91	10.0002
	SG	19	ALW	C3SS D N W 20 83 40 60 BATTERY INVERTER	WALL MOUNT LED BRONZE FINISH	1	2000	0.91	15.2



KEY PLAN
N.T.S.


NORTH

**MESA CONNECTION
E WARNER RD & S 80TH ST
MESA, ARIZONA**

DATES/ REVISIONS	
01.31.22	1ST SUBMITTAL

DRAWN BY:
JOB NO.:

SITE LIGHTING PLAN

E001

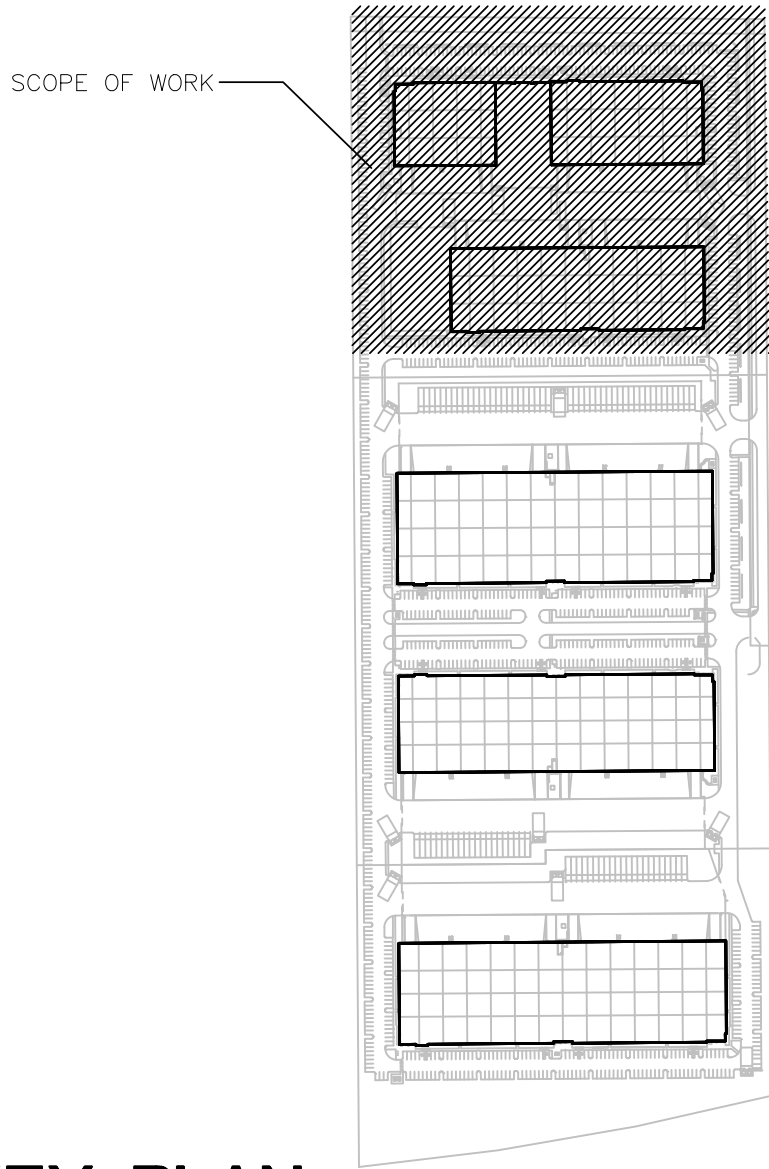
McGrew Consulting Engineers, Inc.
ELECTRICAL ENGINEERING
20045 N. 19th Ave. Bldg 10, STR 2
PHOENIX, ARIZONA 85027
PHONE: 602.962.2121
MCB 108 # 22001

A PORTION OF LAND SITUATED IN THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 1 SOUTH, RANGE 7 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

Schedule							
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output
	SA	91	Lithonia Lighting	WDGE4 LED P6 70CRI R4 40K/ WALL MOUNT AT 25'	WDGE4 LED WITH P6 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 OPTIC BRONZE FINISH	1	25861
	SB	1	Lithonia Lighting	DSX1 LED P9 40K T5M MVOLT / SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T5M MVOLT BRONZE FINISH	1	28633
	SC	15	Lithonia Lighting	DSX1 LED P9 40K T4M MVOLT / SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T4M MVOLT BRONZE FINISH	1	26996
	SD	19	Lithonia Lighting	DSX1 LED P9 40K T3M MVOLT / SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T3M MVOLT BRONZE FINISH	1	26790
	SFE	74	Lithonia Lighting	WDGE1 LED P1 40K 80CRI VW E4WH @12'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC BRONZE FINISH W/ EMERGENCY BATTERY PACK	1	1229
	SG	19	ALW	C3SS D N W 20 83 40 60 BATTERY INVERTER	WALL MOUNT LED BRONZE FINISH	1	2000
							LLF
							Input Power
							185,23
							0.91
							482
							0.91
							241
							0.91
							241
							0.91
							10,0002
							0.91
							15.2

SITE PHOTOMETRIC PLAN BUILDING 1,2,3

SCALE: 3/16" = 1'-0"



KEY PLAN

N.T.S.



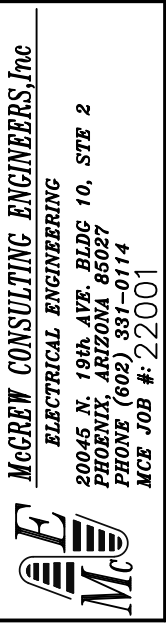
MESA CONNECTION
E WARNER RD & S 80TH ST
MESA, ARIZONA

A PORTION OF LAND SITUATED IN THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 1 SOUTH, RANGE 7 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

DATES/ REVISIONS
01.31.22 1ST SUBMITTAL

DRAWN BY:
JOB NO.:

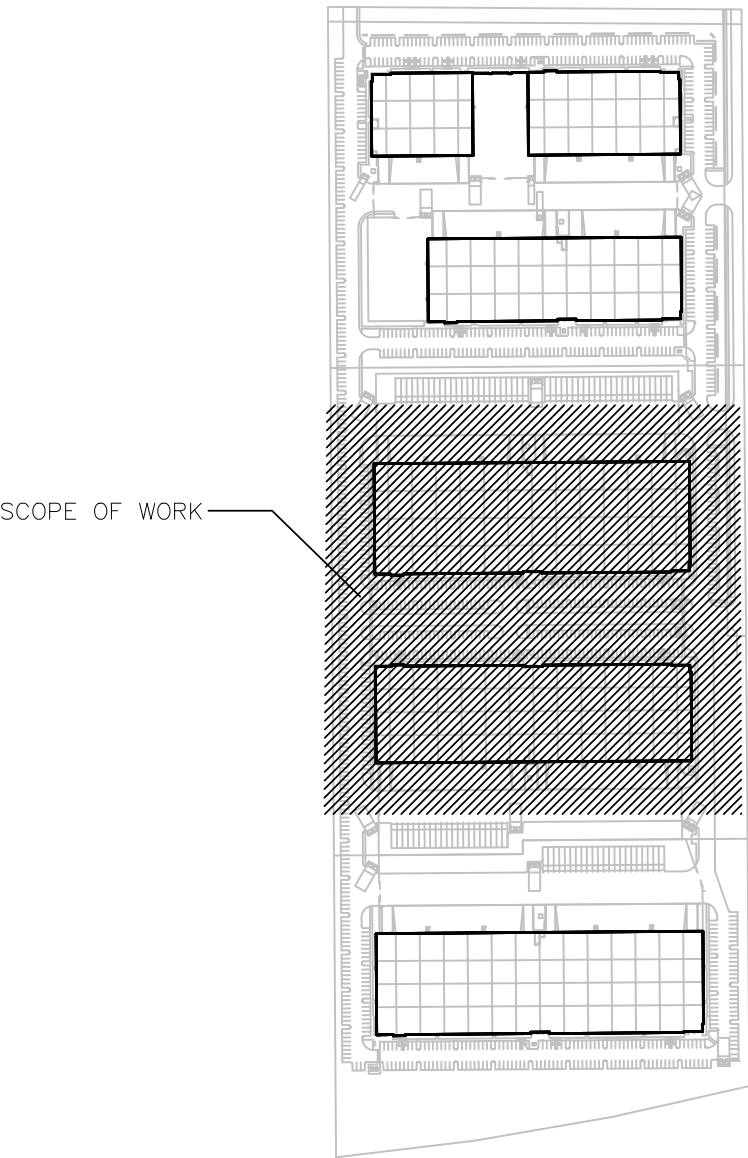
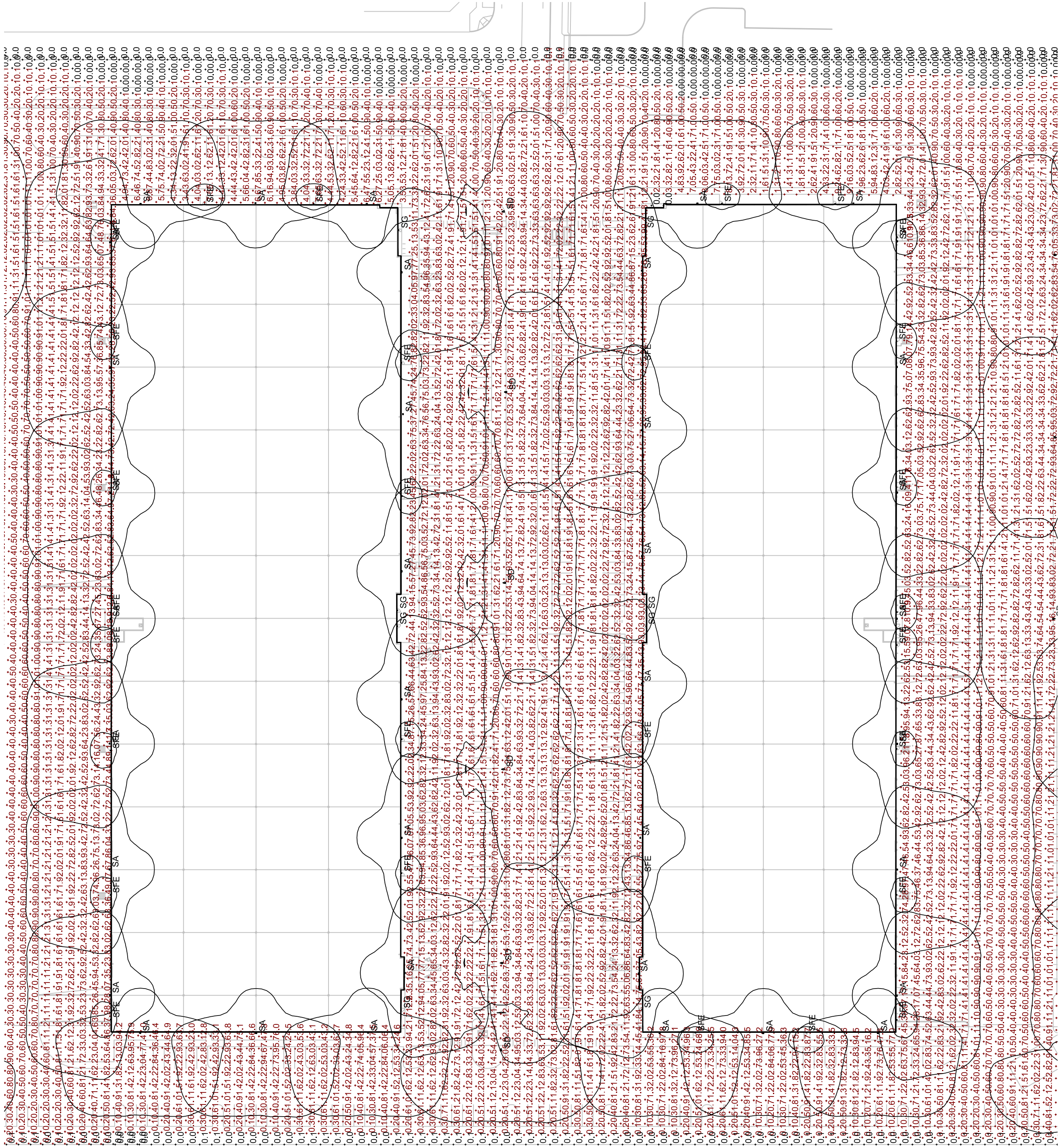
SITE
PHOTOMETRIC
PLAN BUILDING
1,2,3
E002



Schedule							
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output, LLF, Input Power
	SA	91	Lithonia Lighting	WDGE4 LED P6 70CRI R4 40K/ WALL MOUNT AT 25'	WDGE4 LED WITH P6 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 OPTIC BRONZE FINISH	1	25861 0.91 185.23
	SB	1	Lithonia Lighting	DSX1 LED P9 40K T5M MVOLT/ SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T5M MVOLT BRONZE FINISH	1	28633 0.91 482
	SC	15	Lithonia Lighting	DSX1 LED P9 40K T4M MVOLT/ SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T4M MVOLT BRONZE FINISH	1	26996 0.91 241
	SD	19	Lithonia Lighting	DSX1 LED P9 40K T3M MVOLT/ SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T3M MVOLT BRONZE FINISH	1	26790 0.91 241
	SFE	74	Lithonia Lighting	WDGE1 LED P1 40K 80CRI VW E4WH @12'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC BRONZE FINISH W/ EMERGENCY BATTERY PACK	1	1229 0.91 10.0002
	SG	19	ALW	C3SS D N W 20 83 40 60 BATTERY INVERTER	WALL MOUNT LED BRONZE FINISH	1	2000 0.91 15.2

SITE PHOTMETRIC PLAN BUILDING 4.5

SCALE: 3/16" = 1'-0"



KEY PLAN

N.T.S.

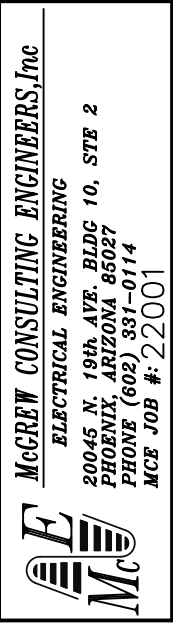


MESA CONNECTION
E WARNER RD & S 80TH ST
MESA, ARIZONA

DATES/ REVISIONS	
01.31.22	1ST SUBMITTAL

DRAWN BY:
JOB NO.:

SITE
PHOTOMETRIC
PLAN BUILDING
4.5
E003



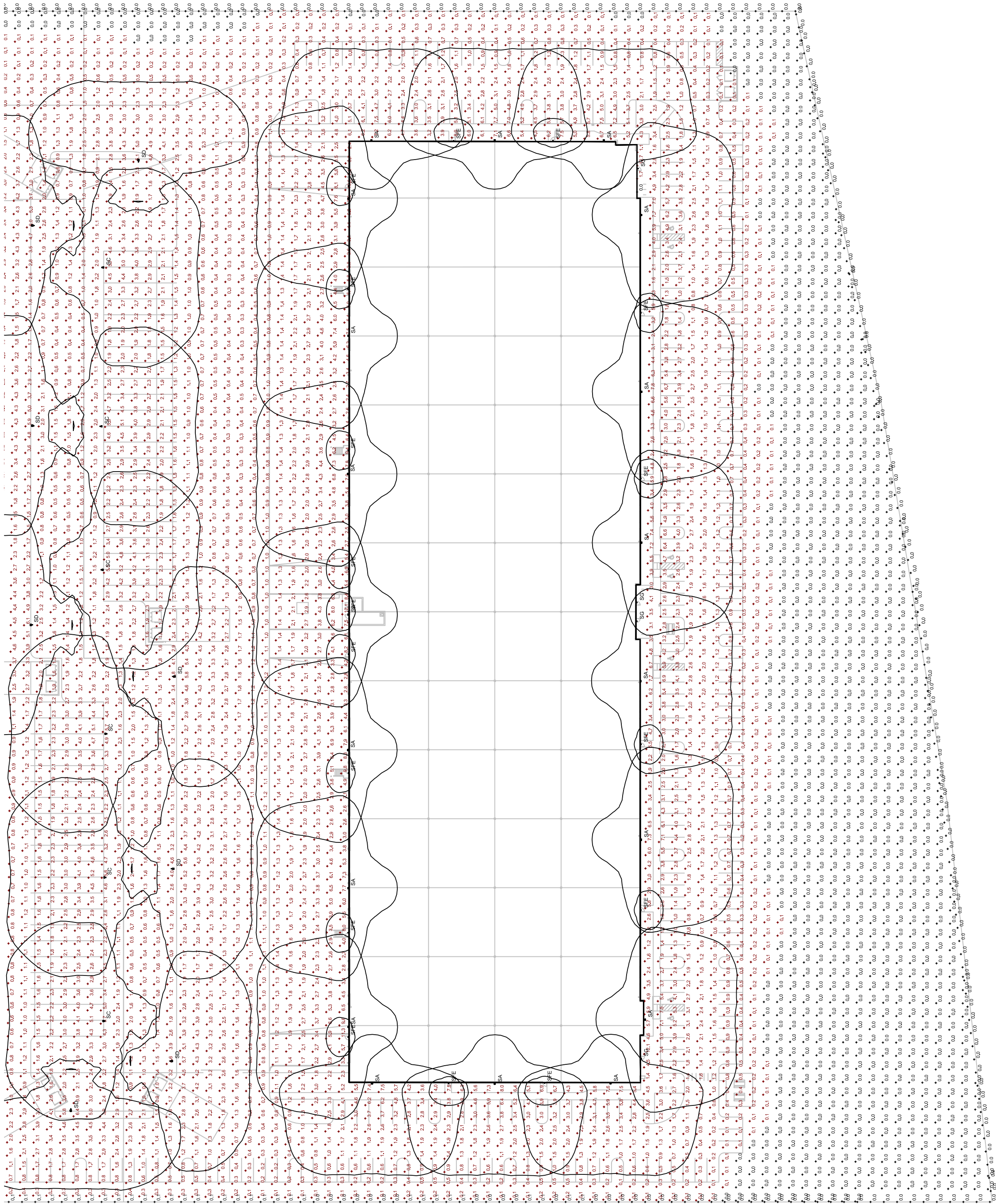
A PORTION OF LAND SITUATED IN THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 1 SOUTH, RANGE 7 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

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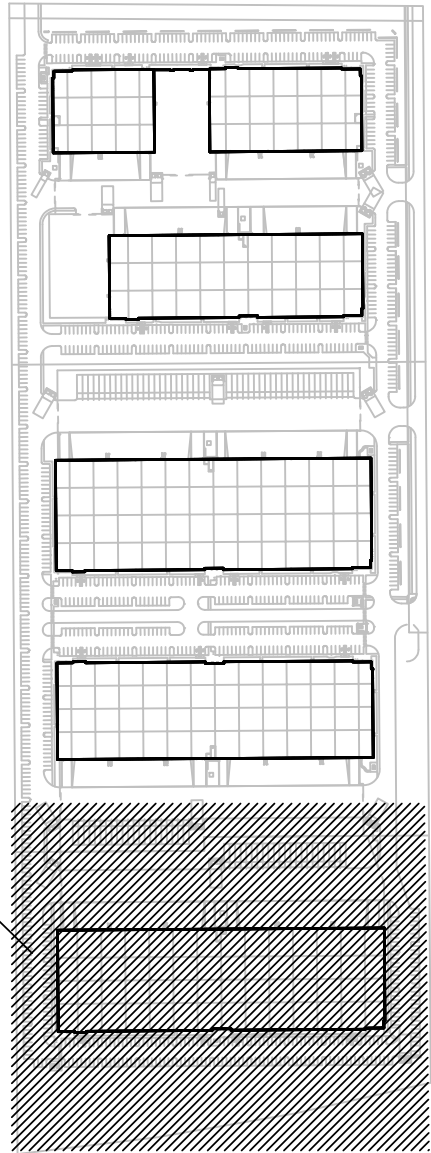
Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	SA	91	Lithonia Lighting	WDGE4 LED P6 70CRI R4 40K/ WALL MOUNT AT 25'	WDGE4 LED WITH P6 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 4 OPTIC BRONZE FINISH	1	25861	0.91	185.23
	SB	1	Lithonia Lighting	DSX1 LED P9 40K T5M MVOLT/ SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T5M MVOLT BRONZE FINISH	1	28633	0.91	482
	SC	15	Lithonia Lighting	DSX1 LED P9 40K T4M MVOLT / SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T4M MVOLT BRONZE FINISH	1	26996	0.91	241
	SD	19	Lithonia Lighting	DSX1 LED P9 40K T3M MVOLT / SSS 22.5' POLE AND 2.5' BASE	DSX1 LED P9 40K T3M MVOLT BRONZE FINISH	1	26790	0.91	241
	SFE	74	Lithonia Lighting	WDGE1 LED P1 40K 80CRI VW E4WH @12'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC BRONZE FINISH W/ EMERGENCY BATTERY PACK	1	1229	0.91	10.0002
	SG	19	ALW	C3SS D N W 20 83 40 60 BATTERY INVERTER	WALL MOUNT LED BRONZE FINISH	1	2000	0.91	15.2

SITE PHOTMETRIC PLAN BUILDING 6

SCALE: 3/16" = 1'-0"

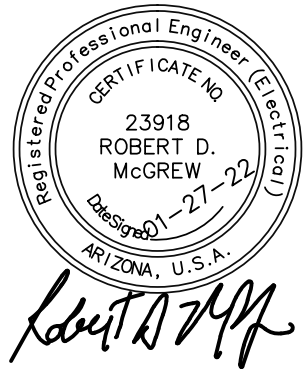


SCOPE OF WORK



KEY PLAN

N.T.S.



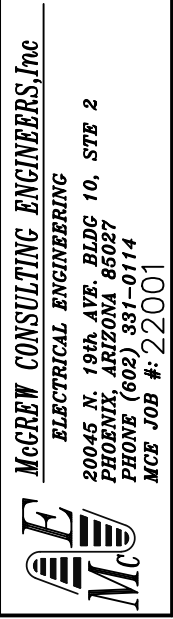
MESA CONNECTION
E WARNER RD & S 80TH ST
MESA, ARIZONA

A PORTION OF LAND SITUATED IN THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 1 SOUTH, RANGE 7 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

DATES/ REVISIONS	
01.31.22	1ST SUBMITTAL

DRAWN BY:
JOB NO.:

SITE
PHOTOMETRIC
PLAN BUILDING
6
E004



Performance Data												
Lumen Output												
Lumen values are photometric data as performed in accordance with IESNA E94-15.9-03. Data is considered to be representative of the configurations shown, with the exception of lighting fixtures. Contact factory for performance data of any configurations not shown here.												
Performance Package	System Units	20' (6.1m) x 7' (2.1m)					30' (9.1m) x 7' (2.1m)					50' (15.2m) x 7' (2.1m)
		10W	15W	20W	25W	30W	10W	15W	20W	25W	30W	
P1	77W	R2	11,173	146	2	0	1	12,125	158	2	0	1
		R3	10,951	143	2	0	2	11,884	152	2	0	2
		R4	11,224	147	2	0	2	13,080	155	2	0	2
P2	150W	R1	11,194	140	2	0	2	12,590	157	2	0	2
		R2	14,000	141	3	0	2	16,125	153	3	0	2
		R4	14,610	138	2	0	7	15,912	150	2	0	1
P3	121W	R4	15,028	141	2	0	2	16,308	153	2	0	2
		R7	14,600	140	2	0	2	16,134	152	2	0	2
		R8	15,051	138	1	0	2	16,441	150	1	0	2
P4	100W	R3	16,453	136	2	0	2	18,104	147	1	0	1
		R4	17,670	139	3	0	3	18,524	151	3	0	3
		R7	16,404	138	2	0	3	18,127	149	2	0	3
P5	100W	R2	18,958	136	3	0	3	20,373	147	3	0	3
		R3	18,831	133	3	0	3	20,144	144	3	0	3
		R4	19,041	136	3	0	3	20,657	148	3	0	3
P6	157W	R7	18,843	135	2	0	3	20,166	146	2	0	3
		R8	20,519	134	3	0	2	22,702	146	3	0	2
		R1	20,453	132	3	0	3	22,150	141	3	0	3
P7	157W	R4	21,814	135	3	0	3	22,804	147	3	0	3
		R7	20,796	134	3	0	3	22,531	142	3	0	3
		R2	23,771	128	3	0	2	25,756	139	1	0	2
P8	187W	R1	23,271	126	3	0	4	25,214	136	3	0	4
		R4	23,812	129	3	0	4	25,863	140	3	0	4
		R7	23,728	127	3	0	3	25,587	138	3	0	3
Electrical Load												
Performance Package	System Units	Current (A)					Power (W)					Efficiency (%)
		10W	15W	20W	25W	30W	10W	15W	20W	25W	30W	
P1	77W	0.635	0.346	0.379	0.280	0.221	0.161					
P2	150W	0.619	0.551	0.449	0.335	0.301	0.228					
P3	121W	0.616	0.578	0.447	0.334	0.296						
P4	100W	1.159	0.668	0.582								

[illegible]

Performance Data																									
Lumen Output																									
Lumens are based on photometric tests performed in accordance with IESNA LM-79-03. Data is considered to be representative of all configurations shown with the accessories allowed by lighting facts. Contact factory for performance data or any configurations not shown here.																									
Performance Factor	System Series	Ind. Type	25°C (77°F) - 10' x 10'						35°C (95°F) - 10' x 10'						40° (104°F) - 10' x 10'										
			Lumens	W	S	U	C	G	Lumens	W	S	U	C	G	Lumens	W	S	U	C	G					
P1	15W	VF	1,120	112	0	0	0	0	1,143	116	0	0	0	0	1,194	120	0	0	1,227	125	0	0	0	0	0
		VW	1,122	112	0	0	0	0	1,143	116	0	0	0	0	1,196	120	0	0	1,229	125	0	0	0	0	0
		WF	1,136	116	1	0	0	0	1,172	115	1	0	0	0	1,215	121	0	0	1,251	123	1	0	0	0	0
P2	15W	VF	1,359	135	1	0	0	0	1,376	135	1	0	0	0	1,421	138	1	0	1,476	142	1	0	0	0	0
		VW	1,359	135	1	0	0	0	1,376	135	1	0	0	0	1,421	138	1	0	1,476	142	1	0	0	0	0
		WF	1,389	138	1	0	0	0	1,406	135	1	0	0	0	1,451	138	1	0	1,506	142	1	0	0	0	0
Electrical Load																									
Performance Package	Series/Model	120V AC				Lineal PF				THD (%)				Efficiency (%)				Power Factor							
P1	15W	0.652	0.691	0.901	0.618	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	17W	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	19W	0.112	0.081	0.072	0.056	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
P2	18W	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
Lumen Multiplier for 90CRI																									
Temperature		Relative Humidity		Air Velocity		Altitude		Pressure		Latitude		Longitude		Time Zone		Daylight Savings Time		Season							
37°F	0.845	--		--		--		--		--		--		--		--		--							
50°F	0.847	--		--		--		--		--		--		--		--		--							
63°F	0.845	--		--																					

[illegible][illegible]

A PORTION OF LAND SITUATED IN THE EAST HALF OF THE SOUTHWEST QUARTER OF SECTION 20, TOWNSHIP 1 SOUTH, RANGE 7 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

E005

E005