

PANEL A															
LOADS (VA)				LOAD	CB	PHASE	CB	LOAD	LOADS (VA)						
LTC	REC	MOTOR	HEAT						LTC	REC	MOTOR	HEAT			
200				1 SITE LIGHTING	20/1	A	40	PANEL "B"	2	200	1600				
800				3 RESTROOM LIGHTS	20/1	I	2		4		1600				
640				5 OUTLETS & EXTERIOR LITS	20/1	A	40	PANEL "C"	6	200	1600				
600				7 EXTERIOR LIGHTS	20/1	I	2		8		1600				
			1500	9 HEAT TAPE	20/1	A	20	HAND DRYER	10			1150			
				11 SPARE	20/1	I	2		12			1150			
				13 SPARE	20/1	A	20	HAND DRYER	14			1150			
				15 SPARE	20/1	I	2		16			1150			
				17 SPACE				SPACE	18						
				19 SPACE				SPACE	20						
				21 SPACE				SPACE	22						
				23 SPACE				SPACE	24						
				25 SPACE				SPACE	26						
				27 SPACE				SPACE	28						
				29 SPACE				SPACE	30						
				31					32						
				33					34						
				35					36						
				37					38						
				39					40						
				41					42						
2240	0	0	1500	VOLTAGE: 120/240v, 1ph, 3w				REMARKS:				400	6400	0	4600
SUB TOTALS				BUS RATING: 100A				PANEL LOADING				SUB TOTALS			
PHASE LOADING				MOUNTING: SURFACE				CONNECTED KVA TOTALS				SUB TOTALS			
LTC	REC	MOTOR	HEAT	PHASE A	PHASE B	PHASE C	PHASE D	LTC	REC	MOTOR	HEAT	LTC	REC	MOTOR	HEAT
1240	3200	0	3800					2.6	5.4	.0	6.1				
1400	3200	0	2300					1.25	1.00	1.00	1.00				
CONN'D DEMAND				ADJ'D KVA				TOTAL CONNECTED KVA				TOTAL ADJUSTED KVA			
8.2	8.6	0	8.6	PHASE A	PHASE B	PHASE C	PHASE D	3.3	6.4	.0	6.1	15.1			
6.9	7.3	0	7.3	PHASE A	PHASE B	PHASE C	PHASE D	15.1				15.8			
15.1	15.8	0	15.8	TOTAL				66	HIGH PHASE		71				

PANEL SPI															
LOADS (VA)				LOAD	CB	PHASE	CB	LOAD	LOADS (VA)						
LTC	REC	MOTOR	HEAT						LTC	REC	MOTOR	HEAT			
1050				1 SIGN	20/1	A	20/1	IRRIGATION	2			100			
1050				3 SIGN	20/1	I	20/1	SPARE	4						
450				5 FLOOD LIGHTS	20/1	A	20/1	CONTRACTOR	6						
				7 SPACE				SPACE	8						
				9 SPACE				SPACE	10						
				11 SPACE				SPACE	12						
				13					14						
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				37					38						
				39					40						
				41					42						
2550	0	0	0	VOLTAGE: 120/240v, 1ph, 3w				REMARKS: NEMA 3R				0	100	0	0
SUB TOTALS				BUS RATING: 100A				PANEL LOADING				SUB TOTALS			
PHASE LOADING				MOUNTING: SURFACE				CONNECTED KVA TOTALS				SUB TOTALS			
LTC	REC	MOTOR	HEAT	PHASE A	PHASE B	PHASE C	PHASE D	LTC	REC	MOTOR	HEAT	LTC	REC	MOTOR	HEAT
1500	100	0	0					2.6	.1	.0	.0				
1050	0	0	0					1.25	1.00	1.00	1.00				
CONN'D DEMAND				ADJ'D KVA				TOTAL CONNECTED KVA				TOTAL ADJUSTED KVA			
1.6	2.0	.0	2.0	PHASE A	PHASE B	PHASE C	PHASE D	3.2	.1	0	.0	2.7			
1.1	1.3	.0	1.3	PHASE A	PHASE B	PHASE C	PHASE D	3.3				2.7			
2.7	3.3	.0	3.3	TOTAL				14	HIGH PHASE		16				

ELECTRICAL SYMBOL LEGEND

NOTE: MOUNTING HEIGHTS TO BE AS INDICATED ON THIS LEGEND UNLESS NOTED OTHERWISE ON PLANS.

POWER AND CONTROL PLAN SYMBOLS		CONDUIT, RACEWAY AND WIRING SYMBOLS	
	SURFACE MOUNTED BRANCH CIRCUIT PANEL		CONDUIT CONCEALED IN WALLS OR CEILING
	FLUSH MOUNTED BRANCH CIRCUIT PANEL		UNDERGROUND OR UNDER SLAB RACEWAY
	DISTRIBUTION PANEL OR SWITCHBOARD		CONDUIT WITH BUSH ENDS
	EQUIPMENT PANEL AS NOTED		CIRCUIT HOME RUN TO PANEL "A", CIRCUITS 1,3,5
	TRANSFORMER		RACEWAY, EACH CROSS HATCH INDICATES ONE #12 CONDUCTOR, NO CROSS HATCHES INDICATES 2 #12 CONDUCTORS, LINE WITH DOT INDICATES GROUNDING CONDUCTOR.
	MAGNETIC MOTOR STARTER		CONTINUATION OF RACEWAY
	DISCONNECT SWITCH		MIN. 3/4" TO TEL. BRD.
	CONTACTOR		MIN. 3/4" TO COMP. BRD.
	MOTOR: HEXAGON AND LETTER INDICATE MOTOR TYPE AND SCHEDULE NUMBER.		
	THERMOSTAT, 48" A.F.F.		
	JUNCTION BOX		
	JUNCTION BOX (WALL MOUNTED)		
LIGHTING FIXTURE SYMBOLS		RECEPTACLE AND SWITCH SYMBOLS	
	CEILING MOUNTED FLUORESCENT FIXTURE - LETTER DENOTES TYPE (LOWER CASE LETTER DENOTES SWITCHING) (CENTER DIVIDER DENOTES CENTER CROSSMEMBER) (SLASH INDICATES EMERGENCY BALLAST)		SINGLE RECEPTACLE, 18" A.F.F.
	FIXTURE IN CEILING; TYPE AS SCHEDULED		DUPLEX RECEPTACLE, 18" A.F.F.
	EMERGENCY BATTERY PACK LIGHT		DUPLEX MOUNTED ABOVE COUNTER
	EXIT FIXTURE - SHADED AREA DENOTES LIGHTED FACE, ARROW DENOTES DIRECTION		GROUND FAULT INTERRUPTER DUPLEX, 18" A.F.F.
	WALL MOUNTED FIXTURE		DUPLEX WITH WEATHERPROOF BOX AND COVER, 24" A.F.F.
	POLE MOUNTED FIXTURE		SPECIAL OUTLET AS NOTED, 18" A.F.F.
			FLOOR MOUNTED DUPLEX RECEPTACLE
			CLOCK OUTLET
			DOUBLE DUPLEX RECEPTACLE, 18" A.F.F.
			SINGLE POLE SINGLE POLE SWITCH, 48" A.F.F.
			THREE WAY SWITCH, 48" A.F.F.
			FOUR WAY SWITCH, 48" A.F.F.
			KEYED SWITCH, 48" A.F.F.
			DIMMER SWITCH, 48" A.F.F.
			SWITCH WITH PILOT LIGHT, 48" A.F.F.
			MANUAL MOTOR STARTER
			MOMENTARY CONTACT SWITCH, 48" A.F.F.
			PHOTOELECTRIC SWITCH
TELEPHONE SYSTEM SYMBOLS		FIRE ALARM SYSTEM SYMBOLS	
	TELEPHONE TERMINAL BOARD SIZE AS NOTED ON PLANS		FIRE ALARM PULL STATION, 48" A.F.F.
	TELEPHONE OUTLET, 18" AFF UNLESS NOTED OTHERWISE		HORN / LIGHT
	FLOOR MOUNTED TELEPHONE OUTLET		SMOKE DETECTOR
	COMPUTER OUTLET OR SPECIAL PURPOSE COMMUNICATIONS		HEAT DETECTOR
	WALL TELEPHONE, 48" AFF		DUCT SMOKE DETECTOR
	PAY TELEPHONE, 48" AFF		MAGNETIC DOOR HOLDER
	TELEPHONE OUTLET ABOVE COUNTER		FLOW SWITCH
	COMPUTER FLOOR OUTLET		TAMPER SWITCH
	COMPUTER OUTLET ABOVE COUNTER		
MISCELLANEOUS			
	REFERENCE NOTE		
	G.F.I. GROUND FAULT INTERRUPTER		
	W.P. WEATHERPROOF		
	A.F.F. ABOVE FINISHED FLOOR		
	F.A.C.P. FIRE ALARM CONTROL PANEL		
	AUX. DEVICE WITH AUXILIARY CONTACTS		
	E.L.R. END OF LINE RESISTOR		
	E.W.C. ELECTRICAL WATER COOLER		
	C.O. CONDUIT ONLY		
	I.G. ISOLATED GROUND		

LIGHTING FIXTURE SCHEDULE									
TYPE	VOLT	MOUNTING	LAMP			CONTROL MEDIA (LENS, LOUVER, ETC.)	MANUFACTURER'S CATALOG NUMBER(S)	DESCRIPTIONS AND/OR REMARKS	
			NO	WATTS	TYPE				
A	120	20' POLE	1	175	H175/HOR	POLYCARBONATE REFRACTOR CAST ALUMINUM GUARD	QUALITY LIGHTING • HB20WH175120PCB	175W METAL HALIDE DECORATIVE POST TOP FIXTURE INTEGRAL PHOTOCELL	
B	120	SURFACE WALL 9'-0" AFF	1	175	H175/HOR	POLYCARBONATE REFRACTOR	LITHONIA TWP175H120DWH	175W METAL HALIDE WALLPACK	
C	120	STEM MOUNTED	2	32	F032/35K	WHITE REFLECTOR	LITHONIA EJ240120	4" INDUSTRIAL FLUORESCENT ELECTRONIC BALLAST	
D	120	SURFACE WALL 7'-0" AFF	2	32	F032/35K	PRISMATIC ACRYLIC AND 1/4" POLYCARBONATE	NORTHERN LIGHT SWND-A114R-14R1/NR/120	4" FLUORESCENT MEDIUM SECURITY WALL MOUNTED ELECTRONIC BALLAST	
E	120	STANCHION MOUNT	1	100	ED-17 METAL HALIDE	CLEAR GLASS FLOOD REFLECTOR	KIM #AFL1-100MH120-SM18	100W METAL HALIDE PROVIDE 2'X2'X2' CONCRETE BASE, VERIFY COLORS w/ARCH.	

* COLOR OF POLE & FIXTURE TO MATCH COLOR OF CANOPIES. OBTAIN COLOR CHIP FROM ARCHITECT.

REVISIONS			
REV	DESCRIPTION	DATE	BY

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ELECTRICAL LEGEND AND SCHEDULES

LAS VEGAS TECHNOLOGY CENTER
OPEN SPACES AND ENTRY FEATURES, PHASE II AND III

PROJECT

SHEET NO. E1.01

JOB NO. 530-V1J
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