



Appendix 3.13-1

Correspondence with Energy Providers and Energy Load Analysis

PSEG Long Island
Building & Renovation Services
15 Park Drive
Melville, NY 11747



December 8, 2023
Jaros, Baum & Bolles Engineers
80 PINE ST
NEW YORK, NY 10005

RE: **SANDS GAMING RESORT
LAS VEGAS SANDS CORP.
1255 HEMPSTEAD TURNPIKE
UNIONDALE, NY 11553
Ref# 9-187601**

Dear PSEG Long Island Customer:

As requested, please be advised that PSEG Long Island will provide service to the above referenced address in accordance with our filed tariff and schedules in effect at the time service is required.

Please feel free to contact us at 1-844-341-6378 if you require any further information.

Very truly yours,

A handwritten signature in cursive script that reads 'Katherine Gianelli'.

Katherine Gianelli
Supervisor
Building & Renovation Services



RICHARD M. MCFADDEN, PE, LEED AP
PARTNER

Planned Electrical Load Increases
SANDS Gaming Resort
Las Vegas Sands Corporation
1255 Hempstead Turnpike
Uniondale, NY
Project No. 26107.N.000

August 8, 2023

Ms. Lianne Altmann
Major Account Executive
PSE&G Long Island
175 East Old Country Road
Hicksville, NY 11801

Dear Ms. Altmann:

This letter summarizes planned electrical load increases associated with a development project for the existing Nassau Coliseum by the Las Vegas Sands Corporation (LVS).

JB&B is acting as the lead MEP Engineer for LVS to evaluate, and plan for, the development of a new Integrated Gaming Resort at the site of the existing Nassau Coliseum. The conceived project will be constructed in two (2) major phases:

Phase 1 Development		Construction Start		7/1/2024
		Public Opening		1/1/2026
Structure	Description	Building sq.ft.	Connected kVA	Service Demand kVA
Casino Ph1	Existing Coliseum and Expo renovated to support Casino Gaming Area with associated Food and Beverage venues.	402,500	10,395	5,134
Central Utility Plant (CUP 1)	Multi-Story Structure to support central utilities for Phase 1, and 1/2 of Phase 2, including air source heat pumps, electrical distribution switchgear and standby generators	80,000	9,907	5,742
Exterior Works	Pedestrian pathways, security, veterans memorial, roadway lighting, etc.	N/A	58	47
Parking Garage A	Multistory Parking Garage for 3,410 Cars, an eighteen (18) coach Bus Depot and connecting infrastructure to the Casino EV Charging for 2% of Spaces	1,583,500	1,447	894
Surface Parking Lot E	Parking Lighting and EV Charging for 2% of 450 Spaces	N/A	123	70
Surface Parking Lot F	Parking Lighting and EV Charging for 2% of 500 Spaces	N/A	136	77



Phase 1 Subtotals		22,066	11,963
--------------------------	--	---------------	---------------

Phase 2 Development		Construction Start		3/1/2024
		Public Opening		6/1/2027
Phase 2 Development	Description	Building sq.ft.	Connected kVA	Service Demand kVA
Casino Ph1	No change.	No Change	+ 0	+ 0
Casino Ph2	A second Casino Gaming Area with associated Food and Beverage venues.	1,030,926	15,535	7,886
Central Utility Plant (CUP 1) expansion	Addition of more air source heat pumps and associated infrastructure in CUP 1 to support Phase 2 development and off-load of the Marriot Heating/Cooling from the Nassau County Energy Plant.	No Change	+ 8,446	+ 4,658
Central Utility Plant (CUP 2)	Multi-Story Structure to support central utilities for second 1/2 of Phase 2, including air-source heat pumps, electrical distribution switchgear and standby generators. In addition, capability to support the offloading of the Marriot Heating and Cooling loads from the Existing Nassau County Energy Plant	80,000	16,351	8,734
Exterior Works Expansion	Additional pedestrian pathways, security, roadway lighting, etc.	N/A	+ 79	+64
Hotel No. 1	Approximately nineteen (19)-story, 830 Guest Room Hotel	826,430	5,125	1,775
Hotel No. 2	Approximately fourteen (14)-story 555 Guest Room Hotel	481,886	3,082	1,076
MICE	Business Expo Center supporting Meetings, Conventions and Expositions	245,296	2,555	1,133
Museum/Interactive	Indoor, Public, Interactive Art Exhibit	56,809	2,820	954
Parking Garage A EV Increase	Addition of EV charging to an additional 8% of Parking Spaces	No Change	+2,275	+910
Parking Garage B	Multistory Parking Garage for 2,440 Cars, EV charging for 10% of Spaces	900,000	2,477	1,076
Parking Garage C	Multistory Parking Garage for 2,500 Cars, EV charging for 10% of Spaces	1,000,000	2,487	1,078
Phase 2 Coliseum Extension	Expansion of the Coliseum Concourse level areas to include additional gaming, gaming support and retail	139,000	884	502
Retail Mall	Indoor, public enclosed pedestrian mall with additional dry retail, Food and Beverage connecting the Casinos, Hotels and Entertainment Venues.	203,197	5,868	2,171

Surface Parking Lot E EV Increase	Addition of EV charging to an additional 8% of Parking Spaces	No Change	+ 300	+ 120
Surface Parking Lot F EV Increase	Addition of EV charging to an additional 8% of Parking Spaces	No Change	+ 334	+ 133
Surface Parking Lot G	Parking lighting and EV charging for 10% of 630 Spaces	N/A	591	264
Theater	4,50- seat theater to support Concerts, Plays and similar exhibitions	170,725	5,872	2,083
Phase 2 Subtotals			75,081	34,671
Grand Total			97,145	46,580

Please see the attached detailed load schedules which were used to derive these schematic load estimates.

Electrical Service Configuration Request

In order to complete our planning for the new facility LVS and JB&B require confirmation from PSE&G as to the configuration of the electrical feeders, which will be provide to support this proposed development and an estimate to the delivery schedule for these new feeders.

The existing Nassau Coliseum currently receives redundant electrical power in the form of two (2) 13,800 volt, 3 phase, radial feeders from PSE&G. We understand these feeders to have an existing redundant capacity of approximately 4 MVA. These existing electrical feeders present three concerns to the design team:

1. The existing feeders 13.8kV are undersized to support the new Phase One loads. Please see the attached calculations for more detail. In summary the Phase One redevelopment of the existing Coliseum has the following general electrical load increases relative to the existing program:
 - a. The interior floor area of the coliseum is being expanded.
 - b. The Casino electrical loads are higher density than the existing program
 - c. New Food and Beverage venues are both physically larger and are being planned for a higher density of all electrical cooking than the existing Coliseum program
 - d. The new program constructs an onsite CUP using modern, efficient, carbon emissions friendly, air-sourced heat pumps to offload heating and chilled water from the fossil fuel burning county energy plant.
 - e. The addition of a new Parking Garage.

2. The existing buried feeders are anticipated to be at end of life. The feeders appear to be unaltered from their original construction, in excess of fifty (50) years of service and are located in metal duct banks which have clear evidence of repeated water intrusion.
3. The existing buried feeder location conflict with the planned location of the new CUP. See the site plan for the existing feeder location and proposed CUP location.

Consequently, LVS requests electrical service in the form of new, redundant pairs of 13.8kV electrical feeders to support our development. We request each side of each redundant feeder pairs is sourced from independent PSE&G distribution supply sources, routed in separate duct banks with a minimum of 20 ft. separation between redundant components.

For Phase 1, we request one (1) pair of feeders with a redundant capacity of 10MVA and a non-redundant capacity of 12MVA.

For Phase 2 we request a plan to provide two (2) additional pairs of 13.8kV feeders with redundant bringing the site total redundant capacity to 30MVA and the non-redundant capacity to 47MVA.

We look forward to discussing the exciting new project with you.

Very truly yours,

JAROS, BAUM & BOLLES
CONSULTING ENGINEERS, LLP



Richard M. McFadden, PE, LEED AP
Partner

RMM:jas

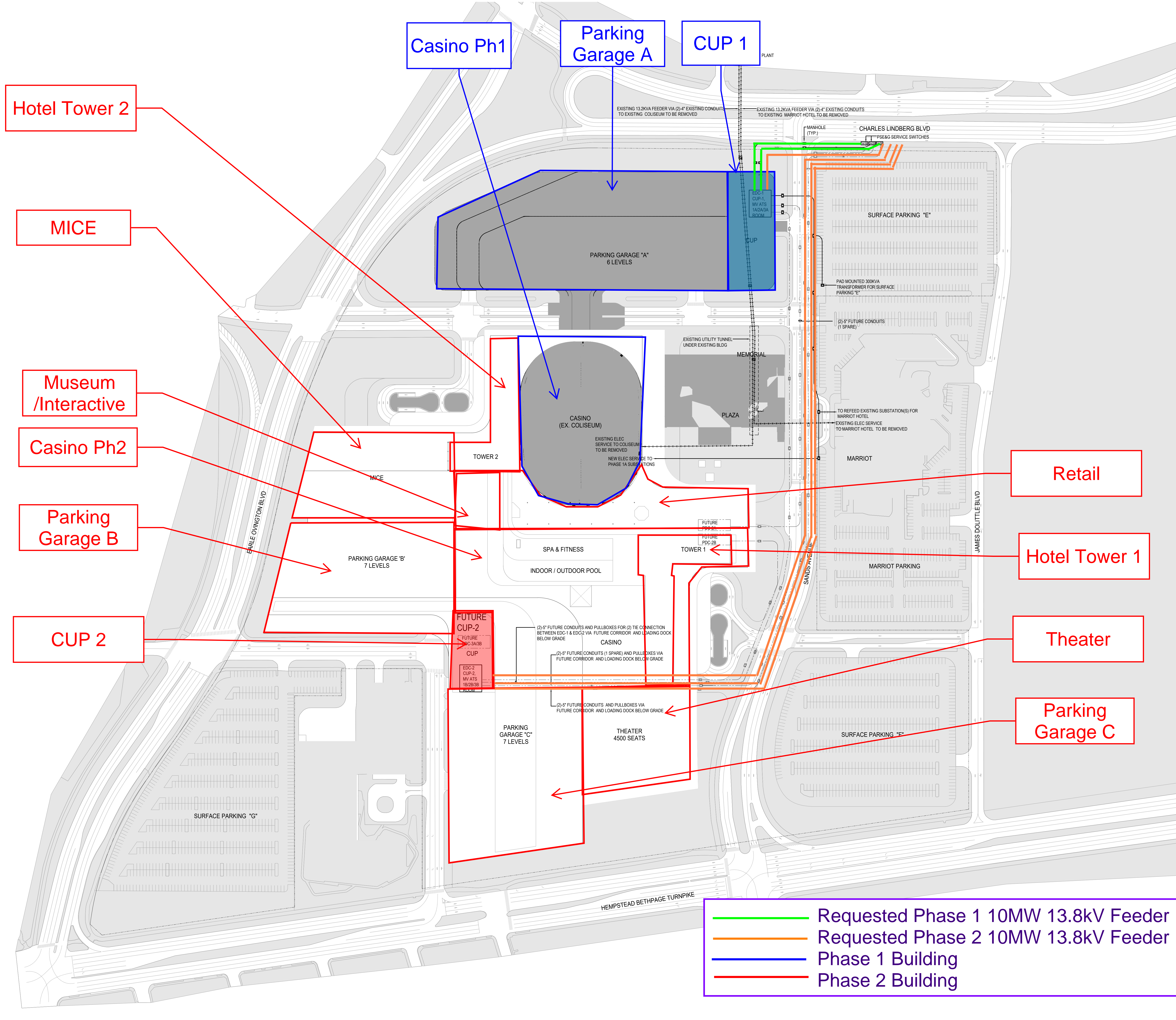
cc: (1) Mr. J. Mallie
(1) Ms. A. Husain
(1) Ms. D. Ford
(1) Mr. R. Dvorak
(1) Mr. M. Gross
(1) Mr. M. Boekenheide
(1) Mr. J. Hess
(1) Ms. M. M. DeCarlo
(1) Mr. J. Arcara

Enc.

v:\projects\26107.n.000-sands nassau gaming resort\wp\letters\2023-08-08_planned electrical load increases_altmann_rmm-jas.docx



APPENDIX A: CONCEPT SITE PLAN PHASES 1 AND 2



FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

NOTES:
 1. ALL SERVICES SHOWN OUTSIDE OF THE BUILDING FOOTPRINTS ARE DIAGRAMMATIC AND SHALL BE COORDINATED AND DOCUMENTED BY THE CIVIL ENGINEER REFER TO CIVIL ENGINEER DRAWINGS FOR ADDITIONAL INFORMATION

POPULOUS
 Architecture - Interior Design - Landscape Design
 Brand Activation - Wayfinding - Product Design
 Civic Urban Design - Populous Design Build

ARCHITECTURAL: POPULOUS
 THE STARRETT LEHIGH BUILDING, 601 WEST 28TH STREET SUITE 601, NEW YORK, NY 10001 917.281.3425

STRUCTURAL: THORNTON TOMASETTI
 120 BROADWAY, NEW YORK, NY 10021 917.681.7800

MEPT: JIMS
 80 PRINE STREET, NEW YORK, NY 10005 212.530.8000

PROJECT MANAGER: GARDINER & THEOBALD
 885 5TH AVENUE, FLOOR 3, NEW YORK, NY 10017 212.851.6424

SITE SURVEY: LANGRAN
 360 WEST 31ST STREET, 8TH FLOOR, NEW YORK, NY 10001 212.479.5400

CONSTRUCTION MANAGER: FAUSTIN MCGOVERN
 330 WEST 34TH STREET, 12TH FLOOR, NEW YORK, NY 10001 212.897.0900

LIFE SAFETY: CJD
 370 WEST 40TH STREET, 15TH FLOOR, NEW YORK, NY 10018 212.216.9996

FOOD SERVICE: NY DESIGN
 702 SLOCUM CREEK PARKWAY, TOKOMA PARK, MD 20912 301.270.8990

VERTICAL TRANSPORTATION: VCA
 120 EAGLE ROCK AVENUE, SUITE 310, EAST HANOVER, NJ 07936 973.964.9220

ACOUSTIC: LONGMAN INSSEY
 200 WEST 41ST STREET, SUITE 1100, NEW YORK, NY 10036 212.315.6400

LIGHTING: TILLIUS DESIGN
 40 WORTH STREET, ROOM 703, NEW YORK, NY 10013 212.679.7760

LANDSCAPE: MARTH SCHWARTZ PARTNERS
 100 WORTHY BUILDING, 233 BROADWAY, 15TH FLOOR, NEW YORK, NY 10029 718.914.2055

ZONING AND EXPEDITING: BARBER COLLETTI
 506 E. MENDHAM AVENUE, EAST MENDHAM, NY 11554 616.368.0000

CIVIL - SEORA
 100 MOTOR PARKWAY, SUITE 350, HALPPAUZE, NY 11788 631.787.3500

— Requested Phase 1 10MW 13.8kV Feeder
— Requested Phase 2 10MW 13.8kV Feeder
— Phase 1 Building
— Phase 2 Building

Hotel Tower 2

MICE

Museum /Interactive

Casino Ph2

Parking Garage B

CUP 2

Casino Ph1

Parking Garage A

CUP 1

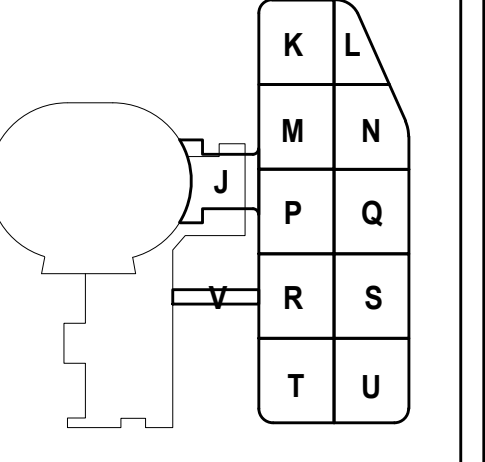
Retail

Hotel Tower 1

Theater

Parking Garage C

REVISIONS		
NO.	DATE	DESCRIPTION



PROJECT NAME
SANDS NY PH1

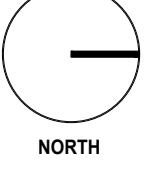
1255 Hempstead Turnpike
 Uniondale, NY 11553

ISSUED NAME
50% SCHEMATIC DESIGN

ISSUED DATE: 05/19/23
 ISSUED BY: JB&B

PROJECT NUMBER: 22.5572
 PAPER SIZE: E1

SHEET NAME
ELECTRICAL SITE PLAN PHASE 1B



SHEET NUMBER
ES1-1.1B

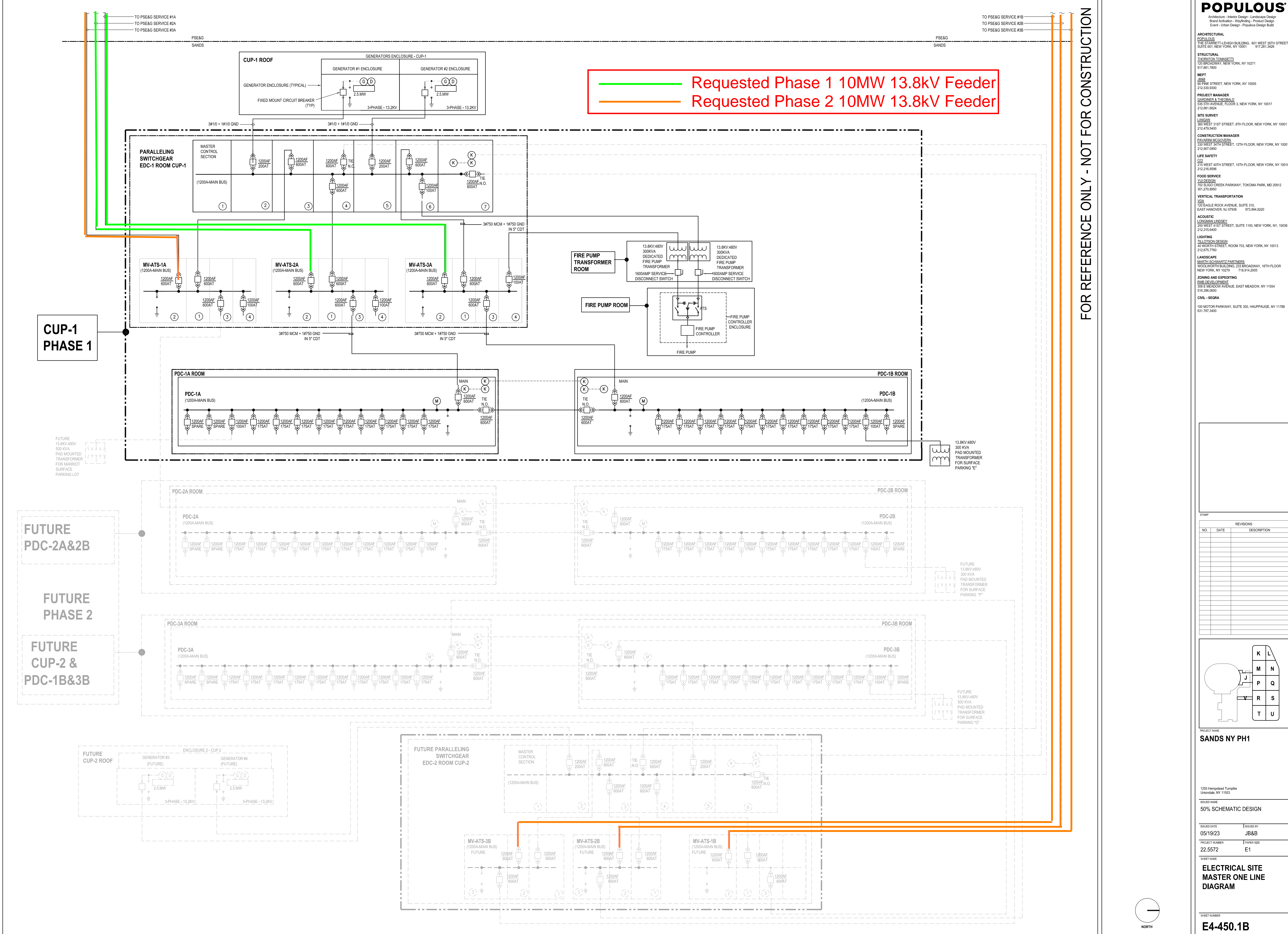
Copyright 2023 © POPULOUS



APPENDIX B: CONCEPT ELECTRICAL ONE-LINES PHASE 1 AND 2

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

Requested Phase 1 10MW 13.8kV Feeder
Requested Phase 2 10MW 13.8kV Feeder

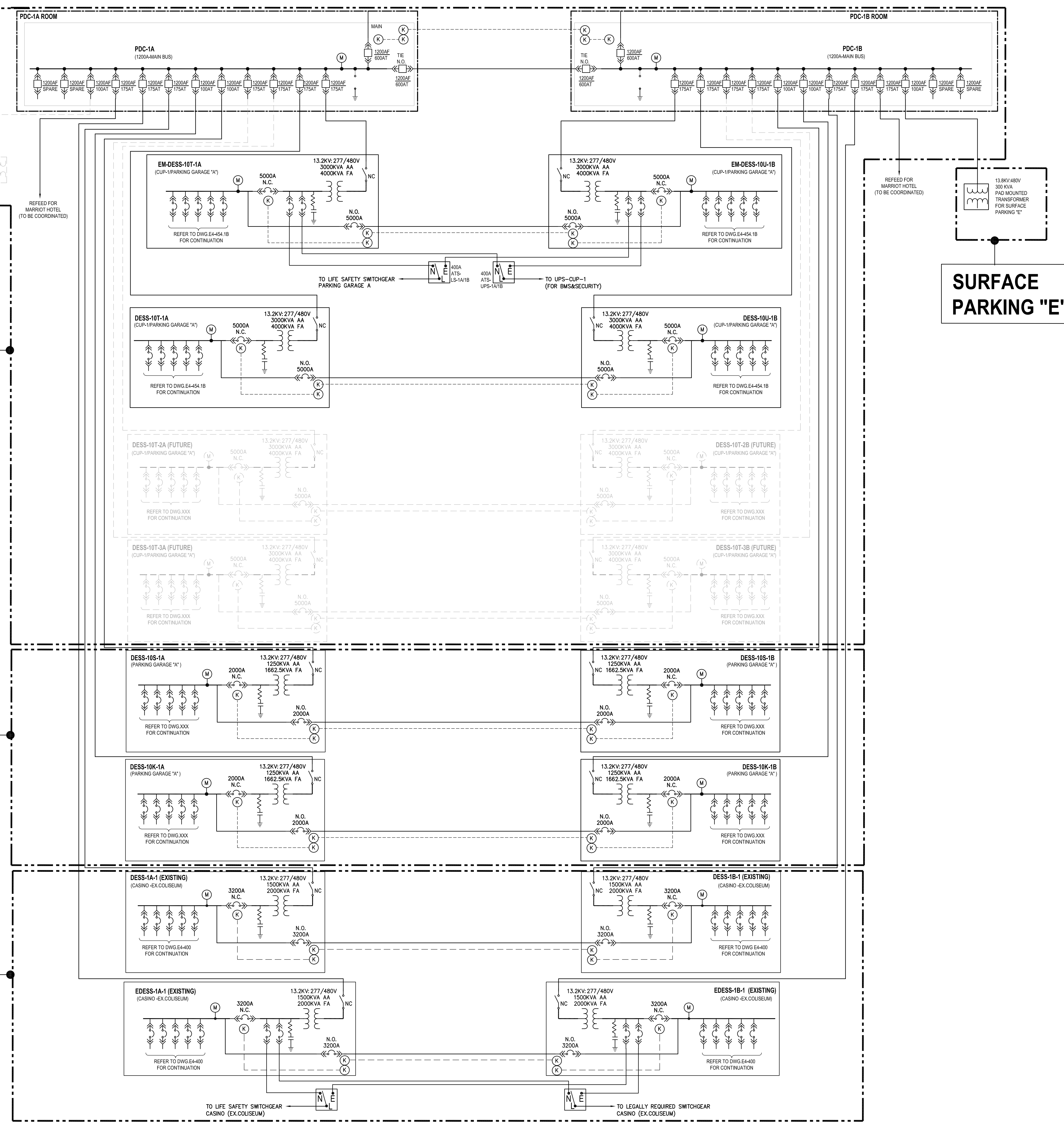


PHASE 1

CUP-1

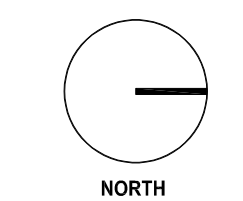
PARKING GARAGE "A"

CASINO
(EX. COLISEUM)



FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

SURFACE
PARKING "E"



POPULOUS

POPULOUS
ARCHITECTURAL
POPULOUS
THE STARRETT LEHIGH BUILDING, 601 WEST 26TH STREET
SUITE 601, NEW YORK, NY 10001 917.281.3426

STRUCTURAL
THORNTON TOMASETTI
120 BROADWAY, NEW YORK, NY 10021
917.681.1900

MEPT
JB&B
49 W 17th STREET, NEW YORK, NY 10005
212.530.9300

PROJECT MANAGER
GARDNER & THEOBALD
333 5TH AVENUE, FLOOR 3, NEW YORK, NY 10017
212.661.6624

SITE SURVEY
LUNGSIN
360 WEST 31ST STREET, 8TH FLOOR, NEW YORK, NY 10001
212.475.5480

CONSTRUCTION MANAGER
PAVANELLO MCGOWEN
330 WEST 34TH STREET, 12TH FLOOR, NEW YORK, NY 10001
212.627.0900

LIFE SAFETY
CCI
275 WEST 40TH STREET, 15TH FLOOR, NEW YORK, NY 10018
212.216.9596

FOOD SERVICE
YUI DESIGN
702 38 400 CREEK PARKWAY, TOKOMA PARK, MD 20912
301.270.8600

VERTICAL TRANSPORTATION
ISA
120 EAGLE ROCK AVENUE, SUITE 310,
EAST HANOVER, NJ 07936 973.984.9220

ACOUSTIC
LONGMAN LINDSEY
200 WEST 41ST STREET, SUITE 1100, NEW YORK, NY 10036
212.252.9400

LIGHTING
TILLOTSON DESIGN
420 WORTH STREET, ROOM 703, NEW YORK, NY 10013
212.675.7760

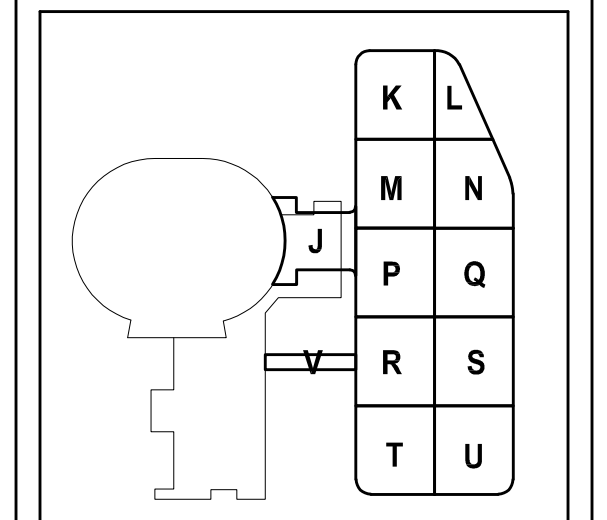
LANDSCAPE
MARTH SCHWARTZ PARTNERS
1700 WORTH BUILDING, 233 BROADWAY, 16TH FLOOR
NEW YORK, NY 10279 718.914.2055

ZONING AND EXPEDITING
BIM SEVIER OSHEVET
308 E MEADOW AVENUE, EAST MEADOW, NY 11554
516.266.0000

CIVIL - SEGRA
100 MOTOR PARKWAY, SUITE 350, HAUPPAUGE, NY 11788
631.767.3400

STAMP

NO.	DATE	DESCRIPTION



PROJECT NAME
SANDS NY PH1

1255 Hempstead Turnpike
Unionsdale, NY 11553

ISSUED NAME
50% SCHEMATIC DESIGN

ISSUED DATE
05/19/23

ISSUED BY
JB&B

PROJECT NUMBER
22.5572

SHEET NAME
**ELECTRICAL MV
ONE LINE DIAGRAM
PHASE 1**

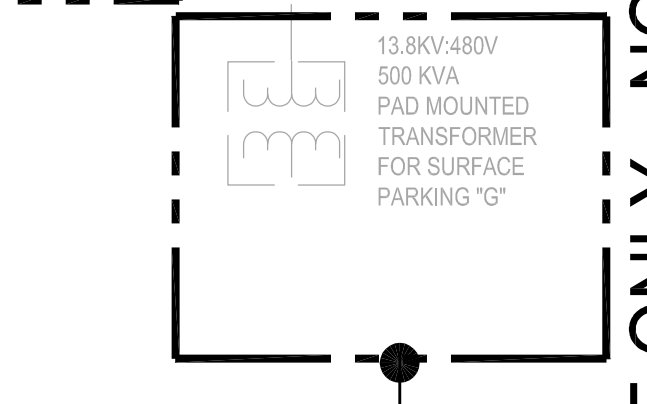
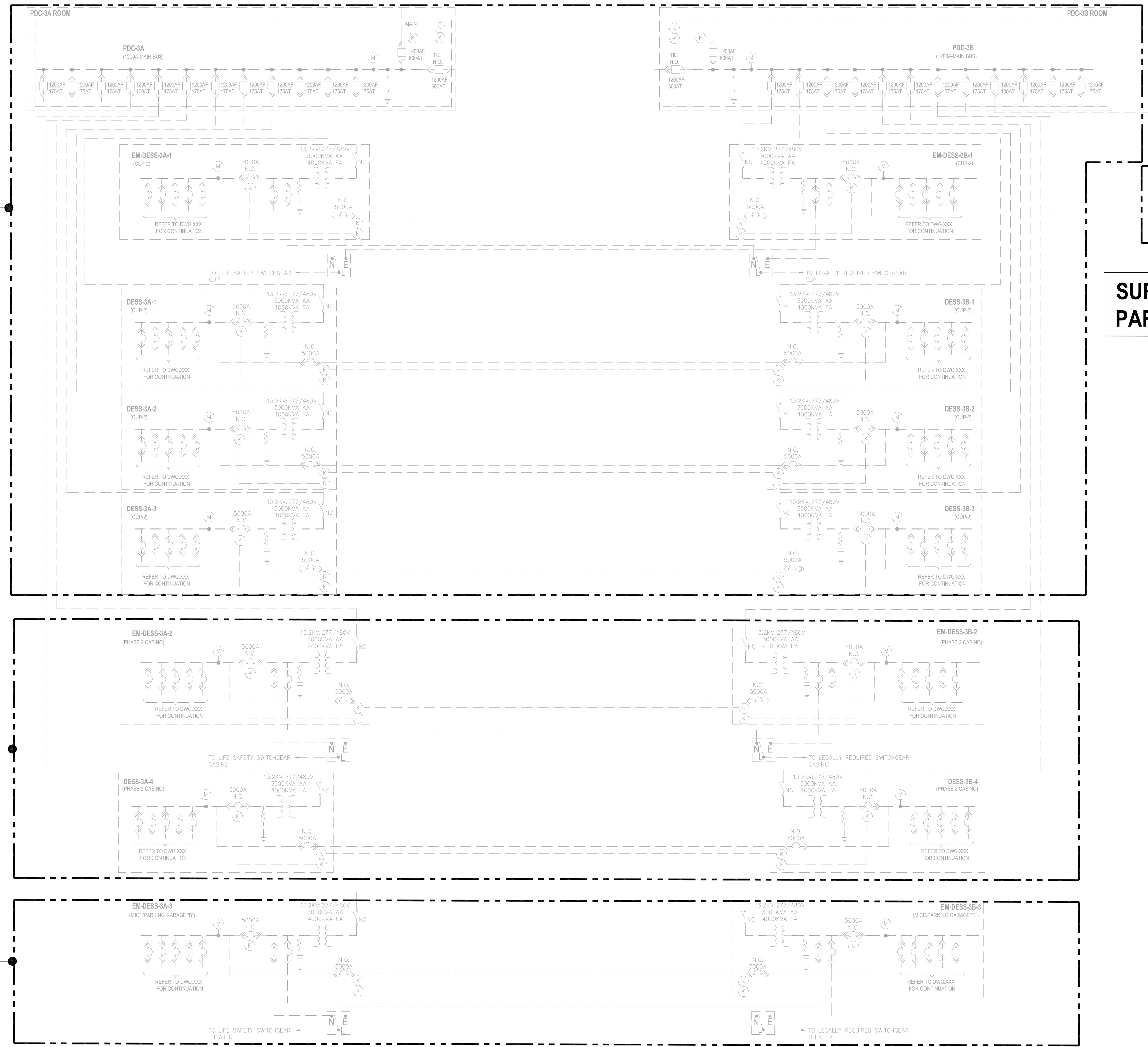
SHEET NUMBER
E4-451.1B

Copyright 2023 © **POPULOUS**

**PHASE 2
CUP-2**

**PHASE 2
CASINO**

**PHASE 2
MICE/
PARKING
GARAGE "B"**

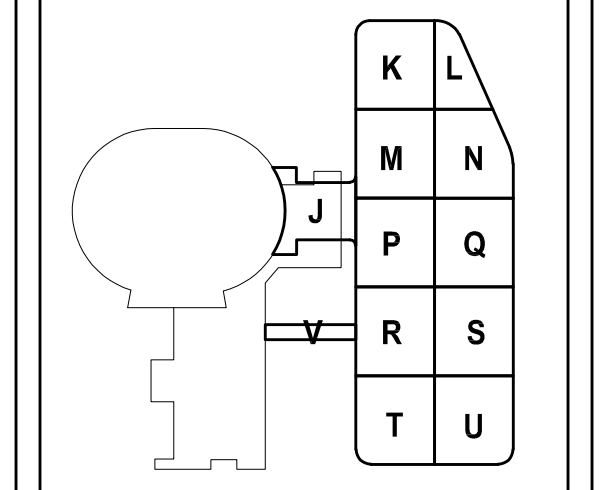


**SURFACE
PARKING "G"**

FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

STAMP

REVISIONS	
NO.	DESCRIPTION



PROJECT NAME
SANDS NY PH1

1255 Hempstead Turnpike
Unaduhale, NY 11553

ISSUED NAME
50% SCHEMATIC DESIGN

ISSUED DATE
05/19/23

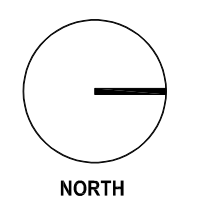
ISSUED BY
JB&B

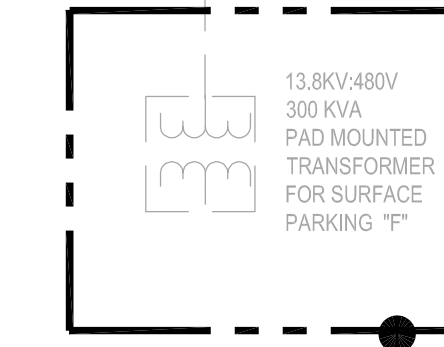
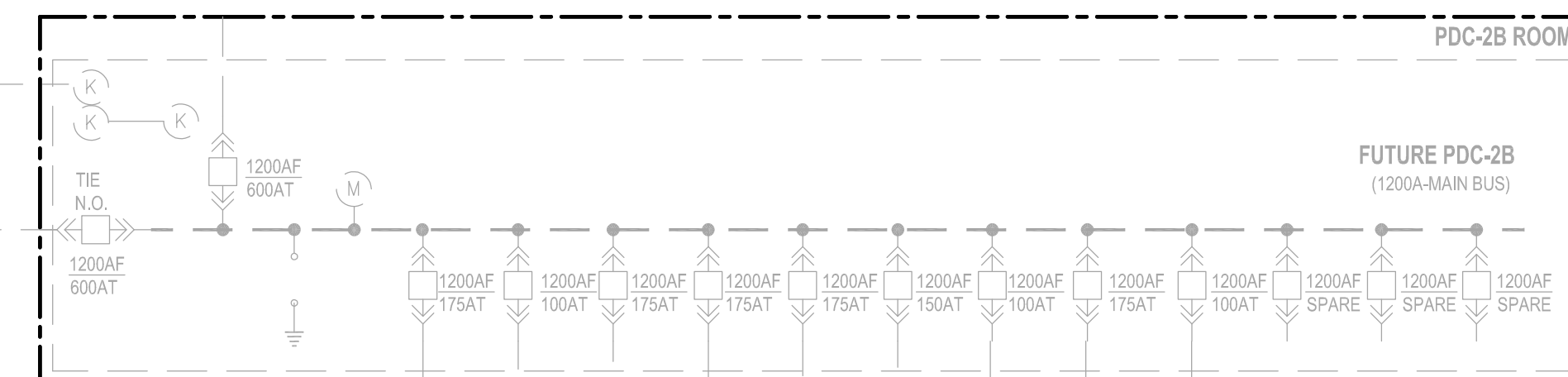
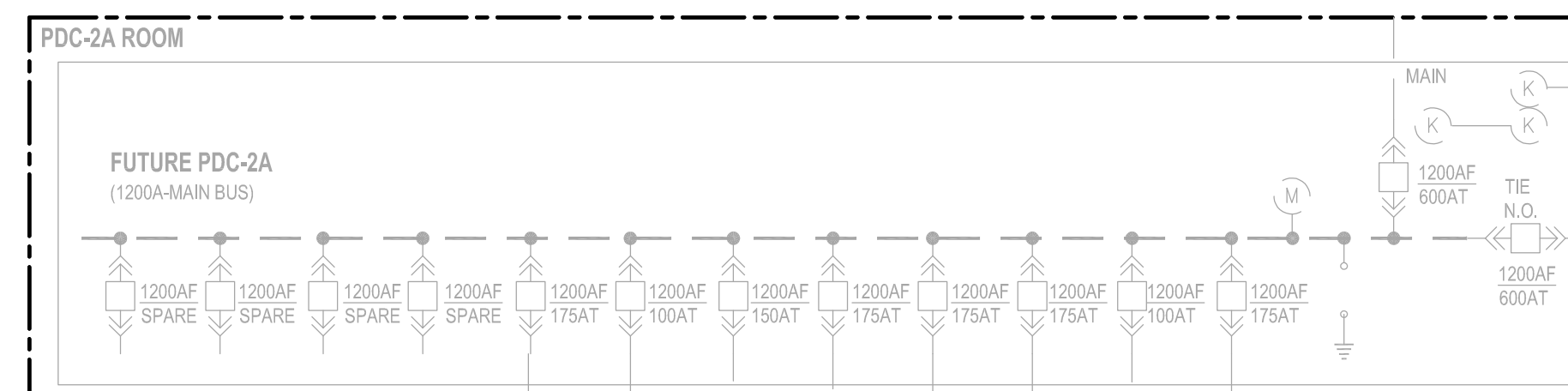
PROJECT NUMBER
22.5572

PAPER SIZE
E1

SHEET NAME
**ELECTRICAL MV
ONE LINE DIAGRAM
FUTURE PHASE 2
SHEET No.2**

SHEET NUMBER
E4-453.1B





**SURFACE
PARKING "F"**

**PHASE 2
THEATER**

**PHASE 2
COL.EXT.**

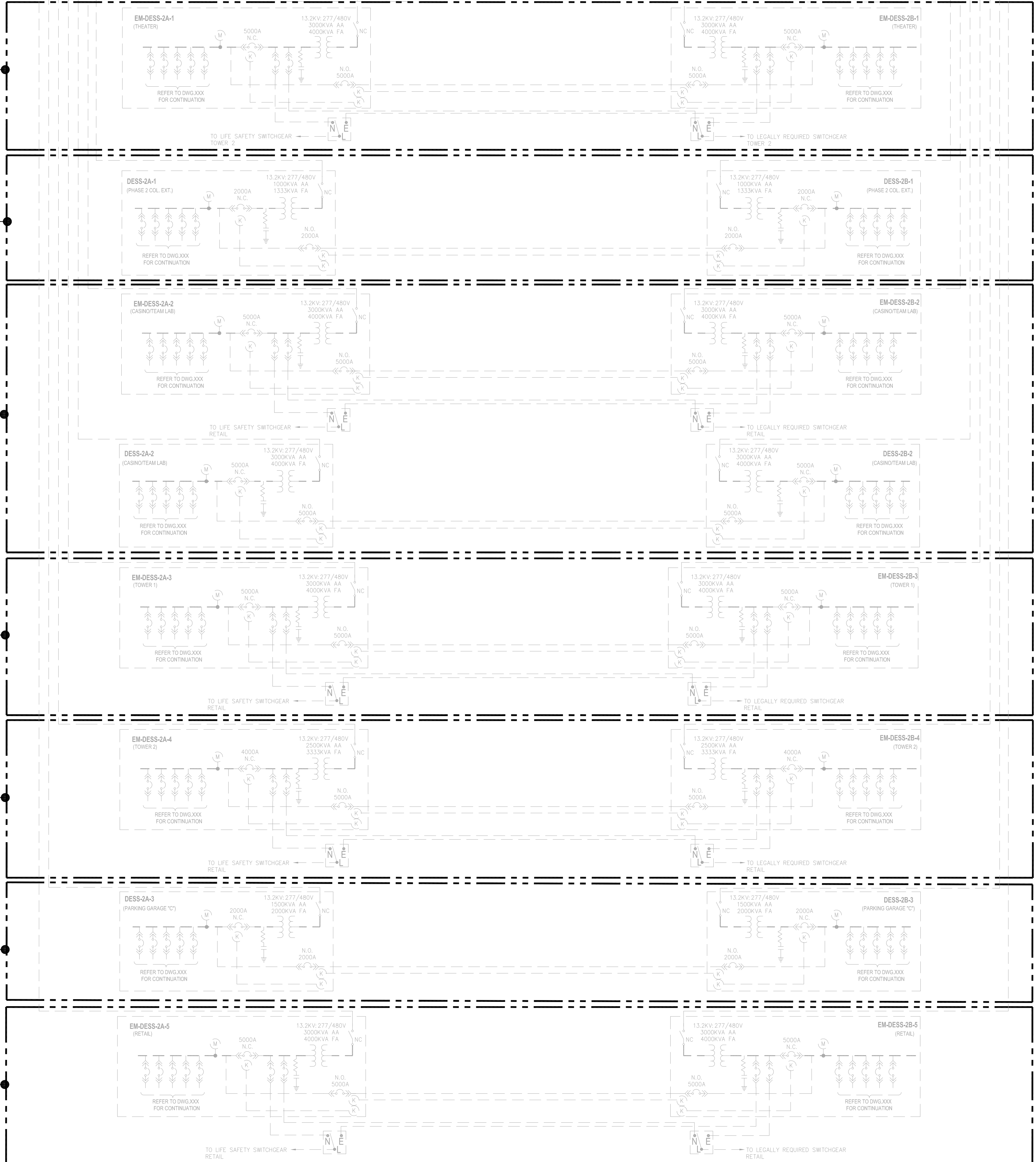
**PHASE 2 CASINO/
TEAM LAB BLDG**

**PHASE 2
TOWER 1**

**PHASE 2
TOWER 2**

**PHASE 2
PARKING
GARAGE "C"**

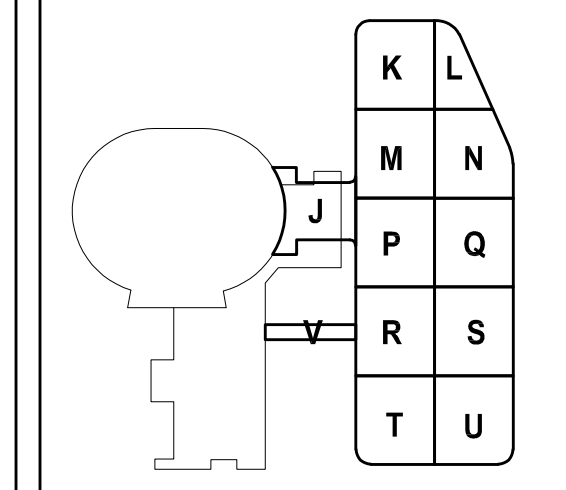
**PHASE 2
RETAIL**



FOR REFERENCE ONLY - NOT FOR CONSTRUCTION

STAMP

NO.	DATE	REVISIONS	DESCRIPTION



PROJECT NAME
SANDS NY PH1

1255 Hempstead Turnpike
Uniondale, NY 11553

ISSUED NAME
50% SCHEMATIC DESIGN

ISSUED DATE
05/19/23

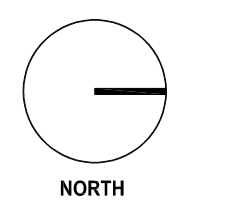
ISSUED BY
JB&B

PROJECT NUMBER
22.5572

PAPER SIZE
E1

SHEET NAME
**ELECTRICAL MV
ONE LINE DIAGRAM
FUTURE PHASE 2
SHEET No.1**

SHEET NUMBER
E4-452.1B





APPENDIX C: PROJECTED LOAD CALCULATIONS – PHASE 1

Phase 1: Load Letter Calcs Summary

(All Area & Individual Loads)

Building:	SqFt		KW					Connected		Service	
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Total KW	Total KVA
Casino Ph1	402,531	Load:	463	5,748	936	142	2,043	9,332	10,395	4,606	5,134
		W/Sqft:	1.15	14.28	2.33	.35	5.08			11.4	
CUP 1	80,000	Load:	60	129		285	7,636	8,109	9,907	4,655	5,742
		W/Sqft:	.75	1.61		3.56	95.44			58.2	
Exterior Works	670,021	Load:	55					55	58	45	47
		W/Sqft:	.08							.1	
Parking Garage A	1,583,467	Load:	238	984		79		1,301	1,447	800	894
		W/Sqft:	.15	.62		.05				.5	
Surface Parking Lot E	182,017	Load:	27	77		9		113	123	64	70
		W/Sqft:	.15	.42		.05				.4	
Surface Parking Lot F	200,900	Load:	30	85		10		125	136	71	77
		W/Sqft:	.15	.42		.05				.4	

Phase 1: Totals	KW					Connected		Service	
	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Total KW	Total KVA
	873	7,023	936	525	9,679	19,035	22,066	10,242	11,963

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Casino Ph1

Floor: AHU MEZZ

Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
SECTOR A		0					0.0										
SECTOR B		0					0.0										
SECTOR C		0					0.0										
SECTOR D		0					0.0										

Individual Loads On Floor: AHU MEZZ

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
C1-AC-30A-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-30A-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AHU-30A-1	Air Handling Unit	50	HP	746.0	1	1.00					37	37	50	50%	19	25
C1-AHU-30A-2	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-MUA-30A-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5
C1-MUA-30A-2	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5
C1-RF-30A-1	Fans (Return)	50	HP	746.0	1	1.00					37	37	50	50%	19	25
C1-RF-30A-2	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-AC-30B-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		
C1-AC-30B-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AHU-30B-1	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-AHU-30B-2	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-MUA-30B-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5
C1-RF-30B-1	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-RF-30B-2	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-P-CHW-30B-1 - 2	Pumps-SCHW	30	HP	746.0	2	1.00					45	45	60	60%	27	36
C1-AC-30C-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		
C1-AHU-30C-1	Air Handling Unit	25	HP	746.0	1	1.00					19	19	25	50%	9	12
C1-AHU-30C-2	Air Handling Unit	10	HP	746.0	1	1.00					7	7	10	50%	4	5
C1-AHU-30C-3	Air Handling Unit	15	HP	746.0	1	1.00					11	11	15	50%	6	7
C1-MUA-30C-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5
C1-RF-30C-1	Fans (Return)	25	HP	746.0	1	1.00					19	19	25	50%	9	12
C1-RF-30C-2	Fans (Return)	10	HP	746.0	1	1.00					7	7	10	50%	4	5
C1-RF-30C-3	Fans (Return)	15	HP	746.0	1	1.00					11	11	15	50%	6	7

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

Building: Casino Ph1	SqFt	KW					Connected		Service						
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Floor: AHU MEZZ															
C1-AC-30D-2	AC Unit	1					1.00				1	1	50%		
C1-AC-30D-1	AC Unit	1					1.00				1	2	50%	1	1
C1-AHU-30D-1	Air Handling Unit	20					1.00				15	20	50%	7	10
C1-AHU-30D-2	Air Handling Unit	50					1.00				37	50	50%	19	25
C1-AHU-30D-3	Air Handling Unit	50					1.00				37	50	50%	19	25
C1-RF-30D-1	Fans (Return)	20					1.00				15	20	50%	7	10
C1-RF-30D-2	Fans (Return)	50					1.00				37	50	50%	19	25
C1-RF-30D-3	Fans (Return)	50					1.00				37	50	50%	19	25
Floor Subtotal: AHU MEZZ											500	666		254	339

Floor: All-Program Space																	
Area Loads	Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
				LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
Bathroom	COMMON-Bathroom	9,181	1.00	1.0		.25		2.3	9	9		2		21	22	15	16
									68%	75%		90%					
BOH	COMMON-BOH	7,798	1.00	1.0		.25		2.3	8	8		2		18	19	13	14
									68%	75%		90%					
Corridor	COMMON-Public Corridors	36,832	.75	.5		.25		1.5	28	18		9		55	58	29	31
									60%	25%		90%					
Gaming	HOSPITALITY-Casino/Gaming Area	149,730	1.50	6.0	3.0	.25		10.8	225	898	449	37		1,610	1,695	1,123	1,183
									75%	65%	75%	90%					
Gaming Support	HOSPITALITY- Gaming Support	23,015	1.00	2.0	1.0	.25		4.3	23	46	23	6		98	103	72	76
									68%	75%	75%	90%					
IT	COMMON-IT Room	10,317	1.00		45.0	.25		46.3	10		464	3		477	502	474	499
									68%		100%	90%					
Loading Dock	COMMON-Loading Dock	25,807	1.00	7.5		.25		8.8	26	194		6		226	238	101	106
									68%	40%		90%					
Lobby	COMMON-Lobby	7,937	2.50	2.5		.25		5.3	20	20		2		42	44	32	33
									75%	75%		90%					
MEP	COMMON-MEP	69,838	.75	1.0		.25		2.0	52	70		17		140	148	65	68
									40%	40%		90%					
Office	COMMERCIAL-Office	6,695	1.00	3.0		.25		4.3	7	20		2		28	30	21	22
									68%	75%		90%					
Service Bars	HOSPITALITY-Service Bars	2,761	1.00	30.0		.25		31.3	3	83		1		86	91	31	33
									68%	35%		90%					

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

	SqFt	KW					Connected		Service									
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA							
Building: Casino Ph1																		
Floor: All-Program Space																		
Stairs	COMMON-Stairs	686	1.00	1.0		.25		2.3	1	1				2	2		1	1
									68%	75%			90%					
Storage	COMMON-Storage	580	1.00	1.0		.25		2.3	1	1				1	1		1	1
									68%	75%			90%					
Floor Subtotal: All-Program Space		351,177							411	1,367	936	88		2,803	2,953		1,978	2,084

Floor: CONCOURSE LEVEL																		
Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
SECTOR A		0					0.0											
SECTOR B		0					0.0											
SECTOR C		0					0.0											
SECTOR D		0					0.0											

Individual Loads On Floor: CONCOURSE LEVEL																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
C1-AC-10A-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-10A-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2
C1-AC-10B-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-10B-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2
C1-AC-10C-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-10C-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2
C1-AC-10D-3	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-10D-4	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2
Floor Subtotal: CONCOURSE LEVEL								16			10	26	29		12	13

Floor: EVENT LEVEL											

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Casino Ph1

Floor: EVENT LEVEL

Area Loads			W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
SECTOR A		0						0.0								
SECTOR B		0						0.0								
SECTOR C		0						0.0								
SECTOR D		0						0.0								
SECTOR E		0						0.0								
SECTOR G		0						0.0								
SECTOR H		0						0.0								

Individual Loads On Floor: EVENT LEVEL

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC					
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	5	1.00		420				420	420	40%	168	168
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	2	1.00		168				168	168	40%	67	67
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	2	1.00		168				168	168	40%	67	67
C1-AC-01A-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		
C1-AC-01A-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01A-3	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01A-4	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
HEAT TRACE	Heat Trace	125	Ft	12.0	1	1.00		2				2	2	40%	1	1
HEAT TRACE	Heat Trace	150	Ft	12.0	1	1.00		2				2	2	40%	1	1
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	1	1.00		2				2	3	25%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2
C1-AC-01B-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		
C1-AC-01B-2 - 3	AC Unit	1	KW	1,000.0	2	1.00					2	2	2	50%	1	1
C1-AC-01B-4 - 5	AC Unit	1	KW	1,000.0	2	1.00					2	2	2	50%	1	1
C1-AC-01B-9	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01B-10	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01B-11 - 12	AC Unit	1	KW	1,000.0	2	1.00					3	3	3	50%	1	2
C1-AC-01B-8	AC Unit	3	KW	1,000.0	1	1.00					3	3	3	50%	1	2

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

			KW					Connected		Service					
SqFt			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA			
Building: Casino Ph1															
Floor: EVENT LEVEL															
C1-AC-01B-6 - 7	AC Unit	6	KW	1,000.0	2	1.00				12	12	15	50%	6	8
C1-AC-01B-13 - 14	AC Unit	20	HP	746.0	2	1.00				30	30	40	50%	15	20
HEAT TRACE	Heat Trace	275	Ft	12.0	1	1.00			3		3	3	40%	1	1
HEAT TRACE	Heat Trace	150	Ft	12.0	1	1.00			2		2	2	40%	1	1
DUPLEX HOT WATER CIRCULATION PUMPS	Pumps-Domestic Hot Wate	1	HP	746.0	1	1.00							50%		
TRIPLE DOMESTIC WATER BOOSTER PUMPS	Pumps-DW Booster	8	HP	746.0	1	1.00			6		6	7	50%	3	4
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	8	HP	746.0	1	1.00			6		6	7	25%	1	2
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	2	1.00			4		4	6	25%	1	1
COMPRESSOR	Pumps-Via HP	1	HP	746.0	2	1.00				1	1	2	10%		
C1-AC-01C-2	AC Unit	1	KW	1,000.0	1	1.00				1	1	1	50%		
C1-AC-01C-1	AC Unit	1	KW	1,000.0	1	1.00				1	1	1	50%		1
C1-AC-01C-3 - 4	AC Unit	1	KW	1,000.0	2	1.00				3	3	3	50%	1	2
C1-AC-01C-5	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01C-6	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
HEAT TRACE	Heat Trace	500	Ft	12.0	1	1.00			6		6	6	40%	2	2
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	1	1.00			2		2	3	25%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00			4		4	4	40%	2	2
C1-AC-01D-1	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01D-2	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01D-3	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
SPRINKLER BOOSTER PUMP	Pumps-AutoFirePump	50	HP	746.0	1	1.00				37	37	50	0%		
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	12	HP	746.0	1	1.00			9		9	12	25%	2	3
JOCKEY PUMP	Pumps-JockeyPump	5	HP	746.0	1	1.00				4	4	5	10%		
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	2	1.00			4		4	6	25%	1	1
COMPRESSOR	Pumps-Via HP	1	HP	746.0	1	1.00				1	1	1	25%		
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	2	1.00			8		8	8	40%	3	3
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	8	HP	746.0	1	1.00			6		6	7	25%	1	2
GREASE PUMPS	Pumps-Grease	3	HP	746.0	1	1.00			2		2	3	25%	1	1
DUPLEX SUMP PUMPS	Pumps-Sump General	8	HP	746.0	1	1.00			6		6	7	25%	1	2
DUPLEX SUMP PUMPS	Pumps-Sump General	2	HP	746.0	1	1.00			1		1	2	25%		
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	1	1.00			84		84	84	40%	34	34
C1-AC-01G-1	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01G-2	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AHU-01G-1	Air Handling Unit	75	HP	746.0	1	1.00				56	56	75	50%	28	37
C1-AHU-01G-2	Air Handling Unit	75	HP	746.0	1	1.00				56	56	75	50%	28	37
C1-AHU-01G-3	Air Handling Unit	60	HP	746.0	1	1.00				45	45	60	50%	22	30
C1-MUA-01G-1	Fans (MakeUp Air)	5	HP	746.0	1	1.00				4	4	5	50%	2	2

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

Building: Casino Ph1	SqFt	KW					Connected		Service								
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA						
Floor: EVENT LEVEL																	
C1-RF-01G-1	Fans (Return)	75	HP	746.0	1	1.00				56	56	75	50%	28	37		
C1-RF-01G-2	Fans (Return)	75	HP	746.0	1	1.00				56	56	75	50%	28	37		
C1-RF-01G-3	Fans (Return)	60	HP	746.0	1	1.00				45	45	60	50%	22	30		
C1-TX-01G-1	Fans (Toilet Exhaust)	10	HP	746.0	1	1.00				7	7	10	60%	4	6		
C1-AC-01H-1	AC Unit	1	KW	1,000.0	1	1.00				1	1	1	50%		1		
C1-AC-01H-2	AC Unit	1	KW	1,000.0	1	1.00				1	1	1	50%		1		
C1-AC-01H-3	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1		
C1-AC-01H-4 - 5	AC Unit	20	HP	746.0	2	1.00				30	30	40	50%	15	20		
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	8	HP	746.0	1	1.00		6			6	7	25%	1	2		
C1-P-CHW-01H-1 - 3	Pumps-SCHW	30	HP	746.0	3	1.00				67	67	90	60%	40	54		
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	2	1.00		8			8	8	40%	3	3		
Floor Subtotal: EVENT LEVEL										933		41	498	1,472	1,666	623	711

Floor: EVENT MEZZ																	
Area Loads																	
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
SECTOR B		0					0.0										
Individual Loads On Floor: EVENT MEZZ																	
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
C1-AHU-05B-1	Air Handling Unit	50	HP	746.0	1	1.00					37	37	50	50%	19	25	
C1-AHU-05B-2	Air Handling Unit	50	HP	746.0	1	1.00					37	37	50	50%	19	25	
C1-RF-05B-1	Fans (Return)	50	HP	746.0	1	1.00					37	37	50	50%	19	25	
C1-RF-05B-2	Fans (Return)	50	HP	746.0	1	1.00					37	37	50	50%	19	25	
C1-P-HW-05B-1 - 3	Pumps-SHW	60	HP	746.0	3	1.00					134	134	179	60%	81	107	
Floor Subtotal: EVENT MEZZ											283	283	378		155	207	

Floor: F&B															
Area Loads															
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:						
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC		
F+B	_COMMON-Kitchen/Cafe (Electric Cooki	51,354	1.00	60.0		.25	61.3	51	3,081		13	3,145	3,311	1,125	1,184
								68%	35%		90%				
Floor Subtotal: F&B		51,354						51	3,081		13	3,145	3,311	1,125	1,184

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Casino Ph1

Floor: MECHANICAL LEVEL

Area Loads	Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
				LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
	SECTOR A		0						0.0										
	SECTOR B		0						0.0										
	SECTOR C		0						0.0										
	SECTOR D		0						0.0										

Individual Loads On Floor: MECHANICAL LEVEL

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
C1-AHU-50A-1	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50A-2	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50A-3	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-GX-50A-1	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50A-2	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50A-3	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-RF-50A-1	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50A-2	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50A-3	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-TX-50A-1	Fans (Toilet Exhaust)	2	HP	746.0	1	1.00					1	1	2	60%	1	1
C1-PRECIP-50A-1	Precipitator	2	HP	746.0	1	1.00					1	1	2	60%	1	1
C1-PRECIP-50A-2	Precipitator	2	HP	746.0	1	1.00					1	1	2	60%	1	1
C1-PRECIP-50A-3	Precipitator	5	HP	746.0	1	1.00					4	4	5	60%	2	3
C1-AHU-50B-1	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50B-2	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50B-3	Air Handling Unit	15	HP	746.0	1	1.00					11	11	15	50%	6	7
C1-GX-50B-1	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50B-2	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50B-3	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-RF-50B-1	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50B-2	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50B-3	Fans (Return)	15	HP	746.0	1	1.00					11	11	15	50%	6	7
C1-TX-50B-1	Fans (Toilet Exhaust)	5	HP	746.0	1	1.00					4	4	5	60%	2	3
C1-PRECIP-50B-1	Precipitator	2	HP	746.0	1	1.00					1	1	2	60%	1	1

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

Building: Casino Ph1	SqFt	KW					Connected		Service						
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Floor: MECHANICAL LEVEL															
C1-PRECIP-50B-2	Precipitator	2	HP	746.0	1	1.00				1	1	2	60%	1	1
C1-PRECIP-50B-3	Precipitator	2	HP	746.0	1	1.00				1	1	2	60%	1	1
C1-AHU-50C-1	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50C-2	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50C-3	Air Handling Unit	15	HP	746.0	1	1.00				11	11	15	50%	6	7
C1-AHU-50C-4	Air Handling Unit	20	HP	746.0	1	1.00				15	15	20	50%	7	10
C1-GX-50C-1	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-GX-50C-2	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-GX-50C-3	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-GX-50C-4	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-MUA-50C-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00				7	7	10	50%	4	5
C1-RF-50C-1	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50C-2	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50C-3	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50C-4	Fans (Return)	20	HP	746.0	1	1.00				15	15	20	50%	7	10
C1-TX-50C-1	Fans (Toilet Exhaust)	3	HP	746.0	1	1.00				2	2	3	60%	1	2
C1-PRECIP-50C-1	Precipitator	5	HP	746.0	1	1.00				4	4	5	60%	2	3
C1-PRECIP-50C-2	Precipitator	5	HP	746.0	1	1.00				4	4	5	60%	2	3
C1-PRECIP-50C-3	Precipitator	5	HP	746.0	1	1.00				4	4	5	60%	2	3
C1-AHU-50D-1	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50D-2	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50D-3	Air Handling Unit	25	HP	746.0	1	1.00				19	19	25	50%	9	12
C1-AHU-50D-4	Air Handling Unit	25	HP	746.0	1	1.00				19	19	25	50%	9	12
C1-RF-50D-1	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50D-2	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50D-3	Fans (Return)	60	HP	746.0	1	1.00				45	45	60	50%	22	30
C1-RF-50D-4	Fans (Return)	20	HP	746.0	1	1.00				15	15	20	50%	7	10
C1-TX-50D-1	Fans (Toilet Exhaust)	2	HP	746.0	1	1.00				1	1	2	60%	1	1
Floor Subtotal: MECHANICAL LEVEL										751	751	1,002		379	505

Floor: Vertical Transportation																
Area Loads	Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:						
				LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC		
Vertical Circulation	COMMON-MEP		0	.75	1.0		.25	0.0								

Individual Loads On Floor: Vertical Transportation

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

<i>KW</i>					<i>Connected</i>		<i>Service</i>		
LTG	Utility	UPS	LS	HVAC	<i>Total KW</i>	<i>Total KVA</i>	<i>Demand</i>	<i>Total KW</i>	<i>Total KVA</i>

Building: Casino Ph1

Floor: Vertical Transportation

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Escalators	Escalators	25	HP	746.0	2	1.00		37				37	41	50%	19	21
Passenger Elevators	Elevators	30	HP	746.0	4	1.40		125				125	139	20%	25	28
Service Elevators	Elevators	30	HP	746.0	6	1.40		188				188	209	20%	38	42
<i>Floor Subtotal:</i>		Vertical Transportation						351				351	390		81	90
<i>Building Subtotal:</i>		Casino Ph1	402,531				463	5,748	936	142	2,043	9,332	10,395		4,606	5,134
							1.15	14.28	2.33	.35	5.08			11.4		

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt	<i>KW</i>					<i>Connected</i>		<i>Service</i>		
	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	<i>Demand</i>	Total KW	Total KVA

Building: CUP 1

Floor: 1

Area Loads		<i>W/SqFt</i>					Total	<i>KW / Service Demand:</i>										
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
General	_COMMON-MEP	40,000	.75	1.0		.25		2.0	30	40			10	80	84		37	39
									40%	40%			90%					

Individual Loads On Floor: 1

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC							
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	11	1.00					22	22	23	100%	22	23		
B-GLS/T-1 - 2	Electric Boiler	576	KW	1,000.0	2	1.00					1,152	1,152	1,152	50%	576	576		
EWB-1	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2		
AFP-1	Pumps-AutoFirePump	350	HP	746.0	1	1.00				261		261	348	100%	261	348		
SEP-5,6	Pumps-Ejector	8	HP	746.0	2	1.00		11				11	15	100%	11	15		
SEP-7,8	Pumps-Ejector	8	HP	746.0	2	1.00		11				11	15	100%	11	15		
P-FO-GLU-1 - 4	Pumps-HP	2	HP	746.0	4	0.75					3	3	4	75%	3	3		
JP-1	Pumps-JockeyPump	5	HP	746.0	1	1.00				4		4	5	100%	4	5		
P-GCHW-GLS/T-1 - 4	Pumps-PCHW	100	HP	746.0	4	0.75					224	224	298	75%	168	224		
P-CHW-GLS/T-1 - 4	Pumps-PCHW	200	HP	746.0	4	0.75					448	448	597	75%	336	448		
P-GHW-GLS/T-1 - 3	Pumps-PHW	100	HP	746.0	3	0.66					148	148	197	75%	111	148		
P-HW-GLS/T-1 - 3	Pumps-PHW	150	HP	746.0	3	0.66					222	222	295	75%	166	222		
PA-SHWP-10T-1-2	Pumps-PHW	100	HP	746.0	2	0.50					75	75	99	75%	56	75		
SP-1,2	Pumps-Sump General	8	HP	746.0	2	1.00		11				11	15	100%	11	15		
SEP-3,4	Pumps-Sump General	8	HP	746.0	2	1.00		11				11	15	100%	11	15		
Floor Subtotal:		1		40,000				30	89		275	2,293	2,686	3,168		1,785	2,171	

Floor: 3

Area Loads		<i>W/SqFt</i>					Total	<i>KW / Service Demand:</i>										
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
General	_COMMON-MEP	40,000	.75	1.0		.25		2.0	30	40			10	80	84		37	39
									40%	40%			90%					

Individual Loads On Floor: 3

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC							
AHU-L3S-1	Air Handling Unit	60	HP	746.0	1	1.00					45	45	51	100%	45	51		
AHY-L3S-2 - 3	Air Handling Unit	20	HP	746.0	2	1.00					30	30	34	100%	30	34		
GX-L3T-1 - 2	Fans (Exhaust)	8	HP	746.0	2	1.00					11	11	15	100%	11	15		
TX-L3S-1	Fans (Toilet Exhaust)	8	HP	746.0	1	1.00					6	6	7	100%	6	7		
ASHP-LES-1-12	HeatPumps-AirSource	250	TR	1,864.0	12	0.92					5,126	5,126	6,408	53%	2,717	3,396		

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

		SqFt		KW					Connected		Service		
				LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Building: CUP 1													
Floor: 3													
Floor Subtotal:		3	40,000	30	40		10	5,218	5,298	6,599		2,845	3,542
Floor: All-MEP													
Area Loads													
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>				
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0					
Floor Subtotal:		All-MEP											
Floor: Vertical Transportation													
Area Loads													
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>				
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0					
Individual Loads On Floor: Vertical Transportation													
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC		
Service Elevators (60HP Each)	Elevators	60	HP	746.0	2	1.40					125	125	139
Floor Subtotal:		Vertical Transportation									125	125	139
Building Subtotal:		CUP 1	80,000				60	129		285	7,636	8,109	9,907
							.75	1.61		3.56	95.44		58.2

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Exterior Works

Floor: All-Program Space

Area Loads			W/SqFt					Total	KW / Service Demand:								
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC				
Landscaped Areas & Walkways-P	_COMMON-Landscaped Areas & Walkw	422,000	.10					0.1	42					42	44	34	36
									80%								
Pedestrian Bridges	_COMMON-Pedestrian Bridges	4,289	.10					0.1									
									80%								
Pedestrian Tunnel	_COMMON-Pedestrian Bridges	5,732	.10					0.1	1					1	1		
									80%								
Surface Roads/Driveways-P1	_COMMON-Surface Roads	238,000	.05					0.1	12					12	13	10	11
									85%								
Floor Subtotal:		All-Program Space	670,021						55					55	58	45	47
Building Subtotal:		Exterior Works	670,021						55					55	58	45	47
									.08							.1	

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Parking Garage A

Floor: 1

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	262,000	.15	.1		.05		0.3	39	13		13		66	69		54	57
									90%	50%		90%						

Individual Loads On Floor: 1

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00		8				8	8	100%	8	8
HEAT TRACE	Heat Trace	350	FT	12.0	1	1.00		4				4	4	100%	4	4
HEAT TRACE	Heat Trace	600	FT	12.0	1	1.00		7				7	7	100%	7	7
Floor Subtotal:		1		262,000				39	33		13	85	89		73	77

Floor: 2

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	265,000	.15	.1		.05		0.3	40	13		13		66	70		54	58
									90%	50%		90%						

Individual Loads On Floor: 2

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00		8				8	8	100%	8	8
HEAT TRACE	Heat Trace	200	FT	12.0	1	1.00		2				2	2	100%	2	2
Floor Subtotal:		2		265,000				40	24		13	77	81		65	68

Floor: 3

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	265,000	.15	.1		.05		0.3	40	13		13		66	70		54	58
									90%	50%		90%						

Individual Loads On Floor: 3

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00		8				8	8	100%	8	8
HEAT TRACE	Heat Trace	300	FT	12.0	1	1.00		4				4	4	100%	4	4
Floor Subtotal:		3		265,000				40	25		13	78	82		66	70

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Parking Garage A

Floor: 4

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	237,000	.15	.1		.05		0.3	36	12			12	59	63		49	51
									90%	50%		90%						

Individual Loads On Floor: 4																	
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00						8	8	100%	8	8	
HEAT TRACE	Heat Trace	100	FT	12.0	1	1.00						1	1	100%	1	1	
Floor Subtotal:		4		237,000				36	21			12	68	72		58	61

Floor: 5

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	237,000	.15	.1		.05		0.3	36	12			12	59	63		49	51
									90%	50%		90%						

Individual Loads On Floor: 5																	
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00						8	8	100%	8	8	
HEAT TRACE	Heat Trace	100	FT	12.0	1	1.00						1	1	100%	1	1	
Floor Subtotal:		5		237,000				36	21			12	68	72		58	61

Floor: 6

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	237,000	.15	.1		.05		0.3	36	12			12	59	63		49	51
									90%	50%		90%						

Individual Loads On Floor: 6																	
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00						8	8	100%	8	8	
HEAT TRACE	Heat Trace	100	FT	12.0	1	1.00						1	1	100%	1	1	
Floor Subtotal:		6		237,000				36	21			12	68	72		58	61

Floor: All-MEP

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Parking Garage A

Floor: All-MEP

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0										

Individual Loads On Floor: All-MEP		Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
		EV Chargers (2% of 3,410 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	68	1.00		510				510	567	40%	204	227
		Parking Ventilation	Air Handling Unit	40	HP	746.0	2	1.00		60				60	66	60%	36	40
Floor Subtotal:		All-MEP								570				570	633		240	266

Floor: All-Program Space

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
Parking	_COMMON-Parking (excluding EV chargi	0	.15	.1		.05		0.0										

Floor Subtotal:		All-Program Space																
-----------------	--	-------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Floor: Bus Depot

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
General	_COMMON-Parking (excluding EV chargi	80,467	.15	.1		.05		0.3	12	4			4	20	21		16	17
									90%	50%			90%					

Individual Loads On Floor: Bus Depot		Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
		AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	1	1.00		2				2	2	100%	2	2
		DRY VALVE, AIR COMPRESSORS & ASSOCIATED TRI	Air Compressors	1	HP	746.0	13	1.00		10				10	13	100%	10	13
		DRY VALVE, AIR COMPRESSORS & ASSOCIATED TRI	Air Compressors	1	HP	746.0	13	1.00		10				10	13	100%	10	13
		EF-1 - 2	Fans (Exhaust)	40	HP	746.0	2	1.00		60				60	80	100%	60	80
		SF-1 - 3	Fans (Supply)	8	HP	746.0	3	1.00		17				17	22	100%	17	22
		HEAT TRACE	Heat Trace	300	FT	12.0	1	1.00		4				4	4	100%	4	4
		HEAT TRACE	Heat Trace	500	FT	12.0	1	1.00		6				6	6	100%	6	6
		SEP-1,2	Pumps-Ejector	8	HP	746.0	2	1.00		11				11	15	100%	11	15
		SEP 3,4	Pumps-Ejector	8	HP	746.0	2	1.00		11				11	15	100%	11	15
		IRP-1,2	Pumps-Sump General	8	HP	746.0	2	1.00		11				11	15	100%	11	15

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

		KW					Connected		Service										
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA								
SqFt																			
Building: Parking Garage A																			
Floor: Bus Depot																			
Floor Subtotal:		Bus Depot	80,467	12	145	4	161	206	158	202									
Floor: Vertical Transportation																			
<i>Area Loads</i>																			
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:										
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC						
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25	0.0												
<i>Individual Loads On Floor: Vertical Transportation</i>																			
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA			
Passenger Elevators (30HP Each)	Elevators	30	HP	746.0	4	1.40		125				125	139	20%	25	28			
Floor Subtotal:		Vertical Transportation						125				125	139		25	28			
Building Subtotal:		Parking Garage A	1,583,467				238	984		79		1,301	1,447		800	894			
							.15	.62		.05					.5				

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Surface Parking Lot E

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0										

Individual Loads On Floor: All-MEP

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
EV Chargers (2% of 450 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	9	1.00		68				68	75	40%	27	30
Floor Subtotal:		All-MEP						68				68	75		27	30

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
Parking	_COMMON-Parking (excluding EV chargi	182,017	.15	.1		.05		0.3	27	9		9	46	48	37	40
Floor Subtotal:		All-Program Space		182,017					27	9		9	46	48	37	40
Building Subtotal:		Surface Parking Lot E		182,017					27	77		9	113	123	64	70
									.15	.42		.05			.4	

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Surface Parking Lot F

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0										

Individual Loads On Floor:																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
EV Chargers (2% of 500 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	10	1.00		75				75	83	40%	30	33
Floor Subtotal:		All-MEP										75	83		30	33

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
Parking	_COMMON-Parking (excluding EV chargi	200,900	.15	.1		.05		0.3	30	10		10		50	53	41	44
									90%	50%		90%					

Floor Subtotal:		All-Program Space	200,900						30	10		10		50	53	41	44
Building Subtotal:		Surface Parking Lot F	200,900						30	85		10		125	136	71	77
									.15	.42		.05				.4	

Phase 1: Load Letter Calcs

(All Area & Individual Loads)

SqFt

	<u>KW</u>					Connected		Service		
	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
						Connected		Service Demand		
						Total KW	Total KVA	Demand	Total KW	Total KVA
Phase 1: Totals	873	7,023	936	525	9,679	19,035	22,066		10,242	11,963



APPENDIX D: PROJECTED LOAD CALCULATIONS PHASE 2

Ph 2 w Marriot H/C: Load Letter Calcs Summary

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

Building:	SqFt		KW					Connected		Service	
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Total KW	Total KVA
Casino Ph1	402,531	Load:	463	5,748	936	142	2,043	9,332	10,395	4,606	5,134
		W/Sqft:	1.15	14.28	2.33	.35	5.08			11.4	
Casino Ph2	1,030,926	Load:	1,176	8,243	1,444	253	3,402	14,518	15,535	7,391	7,886
		W/Sqft:	1.14	8.00	1.40	.24	3.30			7.2	
CUP 1	80,000	Load:	60	129		285	14,353	14,826	18,353	8,352	10,400
		W/Sqft:	.75	1.61		3.56	179.41			104.4	
CUP 2	80,000	Load:	60	237		20	13,009	13,326	16,351	7,123	8,734
		W/Sqft:	.75	2.96		.25	162.61			89.0	
Exterior Works	1,488,021	Load:	130					130	137	105	111
		W/Sqft:	.09							.1	
Hotel Tower 1	826,430	Load:	721	1,978		37	2,009	4,745	5,125	1,634	1,775
		W/Sqft:	.87	2.39		.05	2.43			2.0	
Hotel Tower 2	481,886	Load:	418	1,203		27	1,202	2,850	3,082	989	1,076
		W/Sqft:	.87	2.50		.06	2.50			2.1	
MICE	245,296	Load:	223	1,175		61	905	2,364	2,555	1,050	1,133
		W/Sqft:	.91	4.79		.25	3.69			4.3	
Museum/Interactive	56,809	Load:	1,396	631		14	600	2,641	2,820	890	954
		W/Sqft:	24.58	11.10		.25	10.56			15.7	
Parking Garage A	1,583,467	Load:	238	3,032		79		3,348	3,722	1,619	1,804
		W/Sqft:	.15	1.91		.05				1.0	
Parking Garage B	900,000	Load:	135	2,060		45		2,240	2,477	977	1,076
		W/Sqft:	.15	2.29		.05				1.1	
Parking Garage C	1,000,000	Load:	150	2,050		50		2,250	2,487	980	1,078
		W/Sqft:	.15	2.05		.05				1.0	

Ph 2 w Marriot H/C: Load Letter Calcs Summary

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

Building:	SqFt		<i>KW</i>					<i>Connected</i>		<i>Service</i>	
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Total KW	Total KVA
Ph2 Col. Ext.	139,595	<i>Load:</i>	174	530	94	34	832	884	474	502	
		<i>W/Sqft:</i>	1.24	3.79	.67	.25			3.4		
Retail	203,197	<i>Load:</i>	159	4,930		51	5,540	5,868	2,049	2,171	
		<i>W/Sqft:</i>	.78	24.26		.25			10.1		
Surface Parking Lot E	182,017	<i>Load:</i>	27	347		9	383	423	172	190	
		<i>W/Sqft:</i>	.15	1.90		.05			.9		
Surface Parking Lot F	200,900	<i>Load:</i>	30	385		10	425	470	191	210	
		<i>W/Sqft:</i>	.15	1.92		.05			1.0		
Surface Parking Lot G	248,093	<i>Load:</i>	37	485		12	535	591	240	264	
		<i>W/Sqft:</i>	.15	1.95		.05			1.0		
Theater	170,725	<i>Load:</i>	3,434	1,635		43	5,542	5,872	1,963	2,083	
		<i>W/Sqft:</i>	20.11	9.57		.25			11.5		
Ph 2 w Marriot H/C: Totals			9,031	34,796	2,474	1,172	85,828	97,145	40,805	46,580	



Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Casino Ph1

Floor: AHU MEZZ

Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
SECTOR A		0					0.0										
SECTOR B		0					0.0										
SECTOR C		0					0.0										
SECTOR D		0					0.0										

Individual Loads On Floor: AHU MEZZ

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC						
C1-AC-30A-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1	
C1-AC-30A-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1	
C1-AHU-30A-1	Air Handling Unit	50	HP	746.0	1	1.00					37	37	50	50%	19	25	
C1-AHU-30A-2	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10	
C1-MUA-30A-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5	
C1-MUA-30A-2	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5	
C1-RF-30A-1	Fans (Return)	50	HP	746.0	1	1.00					37	37	50	50%	19	25	
C1-RF-30A-2	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10	
C1-AC-30B-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%			
C1-AC-30B-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1	
C1-AHU-30B-1	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10	
C1-AHU-30B-2	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10	
C1-MUA-30B-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5	
C1-RF-30B-1	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10	
C1-RF-30B-2	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10	
C1-P-CHW-30B-1 - 2	Pumps-SCHW	30	HP	746.0	2	1.00					45	45	60	60%	27	36	
C1-AC-30C-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%			
C1-AHU-30C-1	Air Handling Unit	25	HP	746.0	1	1.00					19	19	25	50%	9	12	
C1-AHU-30C-2	Air Handling Unit	10	HP	746.0	1	1.00					7	7	10	50%	4	5	
C1-AHU-30C-3	Air Handling Unit	15	HP	746.0	1	1.00					11	11	15	50%	6	7	
C1-MUA-30C-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00					7	7	10	50%	4	5	
C1-RF-30C-1	Fans (Return)	25	HP	746.0	1	1.00					19	19	25	50%	9	12	
C1-RF-30C-2	Fans (Return)	10	HP	746.0	1	1.00					7	7	10	50%	4	5	
C1-RF-30C-3	Fans (Return)	15	HP	746.0	1	1.00					11	11	15	50%	6	7	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

	SqFt	KW					Connected		Service					
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA			
Building: Casino Ph1														
Floor: AHU MEZZ														
C1-AC-30D-2	AC Unit	1							1	1	1	50%		
C1-AC-30D-1	AC Unit	1							1	1	2	50%	1	1
C1-AHU-30D-1	Air Handling Unit	20							15	15	20	50%	7	10
C1-AHU-30D-2	Air Handling Unit	50							37	37	50	50%	19	25
C1-AHU-30D-3	Air Handling Unit	50							37	37	50	50%	19	25
C1-RF-30D-1	Fans (Return)	20							15	15	20	50%	7	10
C1-RF-30D-2	Fans (Return)	50							37	37	50	50%	19	25
C1-RF-30D-3	Fans (Return)	50							37	37	50	50%	19	25
Floor Subtotal: AHU MEZZ									500	500	666		254	339

Floor: All-Program Space																
Area Loads			W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
Bathroom	_COMMON-Bathroom	9,181	1.00	1.0		.25	2.3	9	9		2		21	22	15	16
								68%	75%		90%					
BOH	_COMMON-BOH	7,798	1.00	1.0		.25	2.3	8	8		2		18	19	13	14
								68%	75%		90%					
Corridor	_COMMON-Public Corridors	36,832	.75	.5		.25	1.5	28	18		9		55	58	29	31
								60%	25%		90%					
Gaming	HOSPITALITY-Casino/Gaming Area	149,730	1.50	6.0	3.0	.25	10.8	225	898	449	37		1,610	1,695	1,123	1,183
								75%	65%	75%	90%					
Gaming Support	HOSPITALITY- Gaming Support	23,015	1.00	2.0	1.0	.25	4.3	23	46	23	6		98	103	72	76
								68%	75%	75%	90%					
IT	_COMMON-IT Room	10,317	1.00		45.0	.25	46.3	10		464	3		477	502	474	499
								68%		100%	90%					
Loading Dock	_COMMON-Loading Dock	25,807	1.00	7.5		.25	8.8	26	194		6		226	238	101	106
								68%	40%		90%					
Lobby	_COMMON-Lobby	7,937	2.50	2.5		.25	5.3	20	20		2		42	44	32	33
								75%	75%		90%					
MEP	_COMMON-MEP	69,838	.75	1.0		.25	2.0	52	70		17		140	148	65	68
								40%	40%		90%					
Office	COMMERCIAL-Office	6,695	1.00	3.0		.25	4.3	7	20		2		28	30	21	22
								68%	75%		90%					
Service Bars	HOSPITALITY-Service Bars	2,761	1.00	30.0		.25	31.3	3	83		1		86	91	31	33
								68%	35%		90%					

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

	SqFt	KW					Connected		Service					
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA			
Building: Casino Ph1														
Floor: All-Program Space														
Stairs	COMMON-Stairs	686	1.00	1.0	.25	2.3	1	1			2	2	1	1
							68%	75%		90%				
Storage	COMMON-Storage	580	1.00	1.0	.25	2.3	1	1			1	1	1	1
							68%	75%		90%				
Floor Subtotal: All-Program Space		351,177					411	1,367	936	88	2,803	2,953	1,978	2,084

Floor: CONCOURSE LEVEL																		
Area Loads			W/SqFt					KW / Service Demand:										
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	Total W/SqFt	LTG	Utility	UPS	LS	HVAC					
SECTOR A		0						0.0										
SECTOR B		0						0.0										
SECTOR C		0						0.0										
SECTOR D		0						0.0										

Individual Loads On Floor: CONCOURSE LEVEL																		
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC							
C1-AC-10A-1	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
C1-AC-10A-2	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4					4	4	40%	2	2	
C1-AC-10B-1	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
C1-AC-10B-2	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4					4	4	40%	2	2	
C1-AC-10C-1	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
C1-AC-10C-2	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4					4	4	40%	2	2	
C1-AC-10D-3	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
C1-AC-10D-4	AC Unit	1	KW	1,000.0	1	1.00						1	1	2	50%	1	1	
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4					4	4	40%	2	2	
Floor Subtotal: CONCOURSE LEVEL								16				10	26	29		12	13	

Floor: EVENT LEVEL											

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Casino Ph1

Floor: EVENT LEVEL

Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:					Total KW	Total KVA	Demand	Total KW	Total KVA
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
SECTOR A		0					0.0											
SECTOR B		0					0.0											
SECTOR C		0					0.0											
SECTOR D		0					0.0											
SECTOR E		0					0.0											
SECTOR G		0					0.0											
SECTOR H		0					0.0											

Individual Loads On Floor: EVENT LEVEL

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	5	1.00		420				420	420	40%	168	168
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	2	1.00		168				168	168	40%	67	67
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	2	1.00		168				168	168	40%	67	67
C1-AC-01A-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		
C1-AC-01A-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01A-3	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01A-4	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
HEAT TRACE	Heat Trace	125	Ft	12.0	1	1.00		2				2	2	40%	1	1
HEAT TRACE	Heat Trace	150	Ft	12.0	1	1.00		2				2	2	40%	1	1
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	1	1.00		2				2	3	25%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2
C1-AC-01B-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		
C1-AC-01B-2 - 3	AC Unit	1	KW	1,000.0	2	1.00					2	2	2	50%	1	1
C1-AC-01B-4 - 5	AC Unit	1	KW	1,000.0	2	1.00					2	2	2	50%	1	1
C1-AC-01B-9	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01B-10	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1
C1-AC-01B-11 - 12	AC Unit	1	KW	1,000.0	2	1.00					3	3	3	50%	1	2
C1-AC-01B-8	AC Unit	3	KW	1,000.0	1	1.00					3	3	3	50%	1	2

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

			KW					Connected		Service					
SqFt			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA			
Building: Casino Ph1															
Floor: EVENT LEVEL															
C1-AC-01B-6 - 7	AC Unit	6	KW	1,000.0	2	1.00				12	12	15	50%	6	8
C1-AC-01B-13 - 14	AC Unit	20	HP	746.0	2	1.00				30	30	40	50%	15	20
HEAT TRACE	Heat Trace	275	Ft	12.0	1	1.00			3		3	3	40%	1	1
HEAT TRACE	Heat Trace	150	Ft	12.0	1	1.00			2		2	2	40%	1	1
DUPLEX HOT WATER CIRCULATION PUMPS	Pumps-Domestic Hot Wate	1	HP	746.0	1	1.00							50%		
TRIPLE DOMESTIC WATER BOOSTER PUMPS	Pumps-DW Booster	8	HP	746.0	1	1.00			6		6	7	50%	3	4
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	8	HP	746.0	1	1.00			6		6	7	25%	1	2
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	2	1.00			4		4	6	25%	1	1
COMPRESSOR	Pumps-Via HP	1	HP	746.0	2	1.00				1	1	2	10%		
C1-AC-01C-2	AC Unit	1	KW	1,000.0	1	1.00				1	1	1	50%		
C1-AC-01C-1	AC Unit	1	KW	1,000.0	1	1.00				1	1	1	50%		1
C1-AC-01C-3 - 4	AC Unit	1	KW	1,000.0	2	1.00				3	3	3	50%	1	2
C1-AC-01C-5	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01C-6	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
HEAT TRACE	Heat Trace	500	Ft	12.0	1	1.00			6		6	6	40%	2	2
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	1	1.00			2		2	3	25%	1	1
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00			4		4	4	40%	2	2
C1-AC-01D-1	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01D-2	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01D-3	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
SPRINKLER BOOSTER PUMP	Pumps-AutoFirePump	50	HP	746.0	1	1.00				37	37	50	0%		
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	12	HP	746.0	1	1.00			9		9	12	25%	2	3
JOCKEY PUMP	Pumps-JockeyPump	5	HP	746.0	1	1.00				4	4	5	10%		
ELEVATOR SUMP PUMP	Pumps-Sump Elevator	3	HP	746.0	2	1.00			4		4	6	25%	1	1
COMPRESSOR	Pumps-Via HP	1	HP	746.0	1	1.00				1	1	1	25%		
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	2	1.00			8		8	8	40%	3	3
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	8	HP	746.0	1	1.00			6		6	7	25%	1	2
GREASE PUMPS	Pumps-Grease	3	HP	746.0	1	1.00			2		2	3	25%	1	1
DUPLEX SUMP PUMPS	Pumps-Sump General	8	HP	746.0	1	1.00			6		6	7	25%	1	2
DUPLEX SUMP PUMPS	Pumps-Sump General	2	HP	746.0	1	1.00			1		1	2	25%		
WATER HEATER	Water Heater - Heat Pump	84	KW	1,000.0	1	1.00			84		84	84	40%	34	34
C1-AC-01G-1	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AC-01G-2	AC Unit	1	KW	1,000.0	1	1.00				1	1	2	50%	1	1
C1-AHU-01G-1	Air Handling Unit	75	HP	746.0	1	1.00				56	56	75	50%	28	37
C1-AHU-01G-2	Air Handling Unit	75	HP	746.0	1	1.00				56	56	75	50%	28	37
C1-AHU-01G-3	Air Handling Unit	60	HP	746.0	1	1.00				45	45	60	50%	22	30
C1-MUA-01G-1	Fans (MakeUp Air)	5	HP	746.0	1	1.00				4	4	5	50%	2	2

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

Building: Casino Ph1	SqFt	KW					Connected		Service									
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA							
Floor: EVENT LEVEL																		
C1-RF-01G-1	Fans (Return)	75	HP	746.0	1	1.00					56	56	75	50%	28	37		
C1-RF-01G-2	Fans (Return)	75	HP	746.0	1	1.00					56	56	75	50%	28	37		
C1-RF-01G-3	Fans (Return)	60	HP	746.0	1	1.00					45	45	60	50%	22	30		
C1-TX-01G-1	Fans (Toilet Exhaust)	10	HP	746.0	1	1.00					7	7	10	60%	4	6		
C1-AC-01H-1	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		1		
C1-AC-01H-2	AC Unit	1	KW	1,000.0	1	1.00					1	1	1	50%		1		
C1-AC-01H-3	AC Unit	1	KW	1,000.0	1	1.00					1	1	2	50%	1	1		
C1-AC-01H-4 - 5	AC Unit	20	HP	746.0	2	1.00					30	30	40	50%	15	20		
DUPLEX SEWAGE EJECTOR PUMPS	Pumps-Ejector	8	HP	746.0	1	1.00			6			6	7	25%	1	2		
C1-P-CHW-01H-1 - 3	Pumps-SCHW	30	HP	746.0	3	1.00				67		67	90	60%	40	54		
STORAGE TANK ELECTRIC WATER HEATER	Water Heater - Elec Resistiv	4	KW	1,000.0	2	1.00			8			8	8	40%	3	3		
Floor Subtotal: EVENT LEVEL											933		41	498	1,472	1,666	623	711

Floor: EVENT MEZZ																		
Area Loads																		
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
SECTOR B		0					0.0											
Individual Loads On Floor: EVENT MEZZ																		
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA		
C1-AHU-05B-1	Air Handling Unit	50	HP	746.0	1	1.00					37	37	50	50%	19	25		
C1-AHU-05B-2	Air Handling Unit	50	HP	746.0	1	1.00					37	37	50	50%	19	25		
C1-RF-05B-1	Fans (Return)	50	HP	746.0	1	1.00					37	37	50	50%	19	25		
C1-RF-05B-2	Fans (Return)	50	HP	746.0	1	1.00					37	37	50	50%	19	25		
C1-P-HW-05B-1 - 3	Pumps-SHW	60	HP	746.0	3	1.00					134	134	179	60%	81	107		
Floor Subtotal: EVENT MEZZ											283	283	378		155	207		

Floor: F&B																
Area Loads																
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
F+B	_COMMON-Kitchen/Cafe (Electric Cooki	51,354	1.00	60.0		.25	61.3	51	3,081		13	3,145	3,311		1,125	1,184
Floor Subtotal: F&B		51,354						51	3,081		13	3,145	3,311		1,125	1,184

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Casino Ph1

Floor: MECHANICAL LEVEL

Area Loads	Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:					Total KW	Total KVA	Demand	Total KW	Total KVA	
				LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC						
	SECTOR A		0						0.0											
	SECTOR B		0						0.0											
	SECTOR C		0						0.0											
	SECTOR D		0						0.0											

Individual Loads On Floor: MECHANICAL LEVEL

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
C1-AHU-50A-1	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50A-2	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50A-3	Air Handling Unit	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-GX-50A-1	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50A-2	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50A-3	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-RF-50A-1	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50A-2	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50A-3	Fans (Return)	20	HP	746.0	1	1.00					15	15	20	50%	7	10
C1-TX-50A-1	Fans (Toilet Exhaust)	2	HP	746.0	1	1.00					1	1	2	60%	1	1
C1-PRECIP-50A-1	Precipitator	2	HP	746.0	1	1.00					1	1	2	60%	1	1
C1-PRECIP-50A-2	Precipitator	2	HP	746.0	1	1.00					1	1	2	60%	1	1
C1-PRECIP-50A-3	Precipitator	5	HP	746.0	1	1.00					4	4	5	60%	2	3
C1-AHU-50B-1	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50B-2	Air Handling Unit	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-AHU-50B-3	Air Handling Unit	15	HP	746.0	1	1.00					11	11	15	50%	6	7
C1-GX-50B-1	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50B-2	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-GX-50B-3	Fans (Exhaust)	2	HP	746.0	1	1.00					1	1	2	50%	1	1
C1-RF-50B-1	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50B-2	Fans (Return)	40	HP	746.0	1	1.00					30	30	40	50%	15	20
C1-RF-50B-3	Fans (Return)	15	HP	746.0	1	1.00					11	11	15	50%	6	7
C1-TX-50B-1	Fans (Toilet Exhaust)	5	HP	746.0	1	1.00					4	4	5	60%	2	3
C1-PRECIP-50B-1	Precipitator	2	HP	746.0	1	1.00					1	1	2	60%	1	1

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

	SqFt	KW					Connected		Service						
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Building: Casino Ph1															
Floor: MECHANICAL LEVEL															
C1-PRECIP-50B-2	Precipitator	2	HP	746.0	1	1.00				1	1	2	60%	1	1
C1-PRECIP-50B-3	Precipitator	2	HP	746.0	1	1.00				1	1	2	60%	1	1
C1-AHU-50C-1	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50C-2	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50C-3	Air Handling Unit	15	HP	746.0	1	1.00				11	11	15	50%	6	7
C1-AHU-50C-4	Air Handling Unit	20	HP	746.0	1	1.00				15	15	20	50%	7	10
C1-GX-50C-1	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-GX-50C-2	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-GX-50C-3	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-GX-50C-4	Fans (Exhaust)	2	HP	746.0	1	1.00				1	1	2	50%	1	1
C1-MUA-50C-1	Fans (MakeUp Air)	10	HP	746.0	1	1.00				7	7	10	50%	4	5
C1-RF-50C-1	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50C-2	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50C-3	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50C-4	Fans (Return)	20	HP	746.0	1	1.00				15	15	20	50%	7	10
C1-TX-50C-1	Fans (Toilet Exhaust)	3	HP	746.0	1	1.00				2	2	3	60%	1	2
C1-PRECIP-50C-1	Precipitator	5	HP	746.0	1	1.00				4	4	5	60%	2	3
C1-PRECIP-50C-2	Precipitator	5	HP	746.0	1	1.00				4	4	5	60%	2	3
C1-PRECIP-50C-3	Precipitator	5	HP	746.0	1	1.00				4	4	5	60%	2	3
C1-AHU-50D-1	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50D-2	Air Handling Unit	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-AHU-50D-3	Air Handling Unit	25	HP	746.0	1	1.00				19	19	25	50%	9	12
C1-AHU-50D-4	Air Handling Unit	25	HP	746.0	1	1.00				19	19	25	50%	9	12
C1-RF-50D-1	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50D-2	Fans (Return)	40	HP	746.0	1	1.00				30	30	40	50%	15	20
C1-RF-50D-3	Fans (Return)	60	HP	746.0	1	1.00				45	45	60	50%	22	30
C1-RF-50D-4	Fans (Return)	20	HP	746.0	1	1.00				15	15	20	50%	7	10
C1-TX-50D-1	Fans (Toilet Exhaust)	2	HP	746.0	1	1.00				1	1	2	60%	1	1
Floor Subtotal: MECHANICAL LEVEL										751	751	1,002		379	505

Floor: Vertical Transportation													
Area Loads		W/SqFt					KW / Service Demand:						
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	Total W/SqFt	LTG	Utility	UPS	LS	HVAC
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0					

Individual Loads On Floor: Vertical Transportation

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

<i>KW</i>					<i>Connected</i>		<i>Service</i>		
LTG	Utility	UPS	LS	HVAC	<i>Total KW</i>	<i>Total KVA</i>	<i>Demand</i>	<i>Total KW</i>	<i>Total KVA</i>

Building: Casino Ph1

Floor: Vertical Transportation

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC					
Escalators	Escalators	25	HP	746.0	2	1.00		37				37	41	50%	19	21
Passenger Elevators	Elevators	30	HP	746.0	4	1.40		125				125	139	20%	25	28
Service Elevators	Elevators	30	HP	746.0	6	1.40		188				188	209	20%	38	42
<i>Floor Subtotal:</i> Vertical Transportation								351				351	390		81	90
<i>Building Subtotal:</i> Casino Ph1		402,531					463	5,748	936	142	2,043	9,332	10,395		4,606	5,134
							1.15	14.28	2.33	.35	5.08				11.4	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Casino Ph2

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0											

Individual Loads On Floor:		All-MEP																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA		
Air-Side HVAC Equipment	Air Handling Unit	2,126	W/Ton	1,000.0	1	1.00					2,126	2,126	2,362	40%	850	945		
Pool Equipment	Pumps-PCHW	100	HP	746.0	1	1.00		75				75	83	40%	30	33		
Water-Side HVAC Equipment	Pumps-Via TR	2,126	W/Ton	600.0	1	1.00					1,276	1,276	1,417	50%	638	709		
Floor Subtotal:		All-MEP						75			3,402	3,476	3,862		1,518	1,687		

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
Amenity	COMMERCIAL-Amenities	1,378	2.00	4.0		.25	6.3	3	6			9	9		7	7
								78%	75%		90%					
BOH	_COMMON-BOH	43,332	1.00	1.0		.25	2.3	43	43		11	97	103		71	76
								68%	75%		90%					
Circulation East	_COMMON-Public Corridors	90,956	.75	.5		.25	1.5	68	45		23	136	144		73	77
								60%	25%		90%					
Circulation West	_COMMON-Public Corridors	90,956	.75	.5		.25	1.5	68	45		23	136	144		73	77
								60%	25%		90%					
East Gaming	HOSPITALITY-Casino/Gaming Area	132,082	1.50	6.0	3.0	.25	10.8	198	792	396	33	1,420	1,496		991	1,044
								75%	65%	75%	90%					
Gaming Support	HOSPITALITY- Gaming Support	68,420	1.00	2.0	1.0	.25	4.3	68	137	68	17	291	307		216	227
								68%	75%	75%	90%					
Gym	HOSPITALITY-Gym	3,181	2.00	8.0		.25	10.3	6	25		1	33	34		25	26
								78%	75%		90%					
IT	_COMMON-IT Room	12,956	1.00		45.0	.25	46.3	13		583	3	599	631		595	626
								68%		100%	90%					
Loading Dock	_COMMON-Loading Dock	80,341	1.00	7.5		.25	8.8	80	603		20	703	741		313	330
								68%	40%		90%					
Lobby	_COMMON-Lobby	42,911	2.50	2.5		.25	5.3	107	107		11	225	237		171	180
								75%	75%		90%					

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt						KW					Connected		Service		
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA					
Building: Casino Ph2																	
Floor: All-Program Space																	
MEP	_COMMON-MEP	113,795	.75	1.0		.25		2.0	85	114			28	228	240	105	112
									40%	40%			90%				
Office	COMMERCIAL-Office	33,176	1.00	3.0		.25		4.3	33	100			8	141	149	105	110
									68%	75%			90%				
Outdoor	_COMMON-Terrace	16,458	1.00	1.0		.25		2.3	16	16			4	37	39	27	29
									68%	75%			90%				
Restroom	_COMMON-Bathroom	10,208	1.00	1.0		.25		2.3	10	10			3	23	24	17	18
									68%	75%			90%				
Retail	RETAIL-Blended Retail (2,500 to 25,000 f	2,466		10.0		.25		10.3		25			1	25	27	10	11
										40%			90%				
Spa	HOSPITALITY-Spa	20,734	2.00	15.0				17.0	41	311				352	371	266	280
									78%	75%							
Storage	_COMMON-Storage	43,415	1.00	1.0		.25		2.3	43	43			11	98	103	72	76
									68%	75%			90%				
Swimming Pool	HOSPITALITY-Swimming Pool (excluding	22,215	1.00	1.0		.25		2.3	22	22			6	50	53	37	39
									68%	75%			90%				
West Gaming	HOSPITALITY-Casino/Gaming Area	132,082	1.50	6.0	3.0	.25		10.8	198	792	396		33	1,420	1,496	991	1,044
									75%	65%	75%		90%				
Floor Subtotal: All-Program Space		961,062							1,106	3,238	1,444	235		6,024	6,347	4,162	4,387

Floor: F&B																	
Area Loads		W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
F+B	_COMMON-Kitchen/Cafe (Electric Cooki	69,864	1.00	60.0		.25		61.3	70	4,192			17	4,279	4,505	1,530	1,611
									68%	35%			90%				
Floor Subtotal: F&B		69,864							70	4,192			17	4,279	4,505	1,530	1,611

Floor: Vertical Transportation																	
Area Loads		W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0									

Individual Loads On Floor: Vertical Transportation																	
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC						

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

<i>KW</i>					<i>Connected</i>		<i>Service</i>		
LTG	Utility	UPS	LS	HVAC	<i>Total KW</i>	<i>Total KVA</i>	<i>Demand</i>	<i>Total KW</i>	<i>Total KVA</i>

Building: Casino Ph2

Floor: Vertical Transportation

Escalators	Escalators	25	HP	746.0	2	1.00		37				37	41	50%	19	21
Escalators	Escalators	25	HP	746.0	4	1.00		75				75	83	50%	37	41
Passenger Elevators	Elevators	30	HP	746.0	8	1.40		251				251	279	20%	50	56
Service Elevators	Elevators	30	HP	746.0	12	1.40		376				376	418	20%	75	84

<i>Floor Subtotal:</i>	Vertical Transportation							739				739	821		181	201
------------------------	--------------------------------	--	--	--	--	--	--	-----	--	--	--	------------	------------	--	------------	------------

<i>Building Subtotal:</i>	Casino Ph2	1,030,926						1,176	8,243	1,444	253	3,402	14,518	15,535		7,391	7,886
								1.14	8.00	1.40	.24	3.30				7.2	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: CUP 1

Floor: 1

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
General	_COMMON-MEP	40,000	.75	1.0		.25	2.0	30	40			10	80	84	37	39
								40%	40%			90%				

Individual Loads On Floor: 1

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	11	1.00					22	22	23	100%	22	23
B-GLS/T-1 - 2	Electric Boiler	576	KW	1,000.0	2	1.00					1,152	1,152	1,152	50%	576	576
EWB-1	Water Heater - Elec Resistiv	4	KW	1,000.0	1	1.00		4				4	4	40%	2	2
AFP-1	Pumps-AutoFirePump	350	HP	746.0	1	1.00				261		261	348	100%	261	348
SEP-5,6	Pumps-Ejector	8	HP	746.0	2	1.00		11				11	15	100%	11	15
SEP-7,8	Pumps-Ejector	8	HP	746.0	2	1.00		11				11	15	100%	11	15
P-FO-GLU-1 - 4	Pumps-HP	2	HP	746.0	4	0.75					3	3	4	75%	3	3
JP-1	Pumps-JockeyPump	5	HP	746.0	1	1.00				4		4	5	100%	4	5
P-GCHW-GLS/T-1 - 4	Pumps-PCHW	100	HP	746.0	4	0.75					224	224	298	75%	168	224
P-GCHW-GLS/T-5- 6	Pumps-PCHW	100	HP	746.0	2	1.00					149	149	199	75%	112	149
P-CHW-GLS/T-1 - 4	Pumps-PCHW	200	HP	746.0	4	0.75					448	448	597	75%	336	448
P-CHW-GLS/T-5 6	Pumps-PCHW	200	HP	746.0	2	1.00					298	298	398	75%	224	298
P-GHW-GLS/T-1 - 3	Pumps-PHW	100	HP	746.0	3	0.66					148	148	197	75%	111	148
P-GHW-GLS/T-4	Pumps-PHW	100	HP	746.0	1	1.00					75	75	99	75%	56	75
P-HW-GLS/T-1 - 3	Pumps-PHW	150	HP	746.0	3	0.66					222	222	295	75%	166	222
P-HW-GLS/T-4	Pumps-PHW	150	HP	746.0	1	1.00					112	112	149	75%	84	112
PA-SHWP-10T-1-2	Pumps-PHW	100	HP	746.0	2	0.50					75	75	99	75%	56	75
SP-1,2	Pumps-Sump General	8	HP	746.0	2	1.00		11				11	15	100%	11	15
SEP-3,4	Pumps-Sump General	8	HP	746.0	2	1.00		11				11	15	100%	11	15
Floor Subtotal:		1	40,000				30	89			275	2,927	3,320	4,013	2,261	2,805

Floor: 3

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
General	_COMMON-MEP	40,000	.75	1.0		.25	2.0	30	40			10	80	84	37	39
								40%	40%			90%				

Individual Loads On Floor: 3

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
AHU-L3S-1	Air Handling Unit	60	HP	746.0	1	1.00					45	45	51	100%	45	51

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt	KW					Connected		Service										
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA								
Building: CUP 1																				
Floor: 3																				
AHY-L3S-2 - 3	Air Handling Unit	20																		
GX-L3T-1 - 2	Fans (Exhaust)	8																		
TX-L3S-1	Fans (Toilet Exhaust)	8																		
ASHP-LES-1-12	HeatPumps-AirSource	250																		
ASHP-LES-13-14 (Marriot)	HeatPumps-AirSource	250																		
ASHP-LES-15-28	HeatPumps-AirSource	250																		
Floor Subtotal:		3																		
		40,000																		
			30	40			10	11,276	11,356	14,172		6,056	7,556							
Floor: All-MEP																				
Area Loads																				
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>											
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC							
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0												
Individual Loads On Floor: All-MEP																				
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC									
Air-Side HVAC Equipment	Air Handling Unit	50	W/Ton	500.0	1	1.00						25	25	28	40%	10	11			
Floor Subtotal:		All-MEP										25	25	28		10	11			
Floor: Vertical Transportation																				
Area Loads																				
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>											
			LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC							
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0												
Individual Loads On Floor: Vertical Transportation																				
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC									
Service Elevators (60HP Each)	Elevators	60	HP	746.0	2	1.40						125	125	139	20%	25	28			
Floor Subtotal:		Vertical Transportation										125	125	139		25	28			
Building Subtotal:		CUP 1										60	129		285	14,353	14,826	18,353	8,352	10,400
		80,000										.75	1.61		3.56	179.41			104.4	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: CUP 2

Floor: 3

Area Loads			W/SqFt					Total	KW / Service Demand:												
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA			
General	_COMMON-MEP	40,000	.75	1.0		.25		2.0	30	40			10	80	84		37	39			
Floor Subtotal:									3	40,000				30	40		10	80	84	37	39

Floor: All-MEP

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0										

Individual Loads On Floor:																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Air-Side HVAC Equipment	Air Handling Unit	50	W/Ton	500.0	1	1.00					25	25	28	40%	10	11
Primary Water-Side HVAC Equipment - Ph2	Pumps-Via TR	6,000	W/Ton	300.0	1	1.00					1,800	1,800	2,000	60%	1,080	1,200
Phase 2 ASHP	HeatPumps-AirSource	250	TR	1,864.0	24	1.00					11,184	11,184	13,980	53%	5,928	7,409
Floor Subtotal:		All-MEP									13,009	13,009	16,008		7,018	8,621

Floor: All-Program Space

Area Loads			W/SqFt					Total	KW / Service Demand:												
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA			
MEP	_COMMON-MEP	40,000	.75	1.0		.25		2.0	30	40			10	80	84		37	39			
Floor Subtotal:									All-Program Space	40,000				30	40		10	80	84	37	39

Floor: Vertical Transportation

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0										

Individual Loads On Floor:																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Vertical Transportation																

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

		SqFt		<u>KW</u>					Connected		Service		
				LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Building: CUP 2													
Floor: Vertical Transportation													
Passenger Elevators (30HP Each)	Elevators	30	HP	746.0	1	1.40			31	35	20%	6	7
Service Elevators (60HP Each)	Elevators	60	HP	746.0	2	1.40			125	139	20%	25	28
<i>Floor Subtotal:</i>		Vertical Transportation							157	174		31	35
<i>Building Subtotal:</i>		CUP 2							60	237		20	13,009
		80,000							.75	2.96		.25	162.61
												7,123	8,734
												89.0	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Exterior Works

Floor: All-Program Space

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
Garage Rooftop Amenity	_COMMON-Terrace	0	.25				.25	0.0										
Landscaped Areas & Walkways-P	_COMMON-Landscaped Areas & Walkw	422,000	.10					0.1	42					42	44		34	36
									80%									
Landscaped Areas & Walkways-P	_COMMON-Landscaped Areas & Walkw	688,000	.10					0.1	69					69	72		55	58
									80%									
Park Areas / Stormwater Retentio	_COMMON-Park Areas	0	.05					0.0										
Pedestrian Bridges	_COMMON-Pedestrian Bridges	4,289	.10					0.1										
									80%									
Pedestrian Tunnel	_COMMON-Pedestrian Bridges	5,732	.10					0.1	1					1	1			
									80%									
Surface Roads/Driveways-P1	_COMMON-Surface Roads	238,000	.05					0.1	12					12	13		10	11
									85%									
Surface Roads/Driveways-P2	_COMMON-Surface Roads	130,000	.05					0.1	7					7	7		6	6
									85%									
Floor Subtotal:		All-Program Space	1,488,021						130					130	137		105	111
Building Subtotal:		Exterior Works	1,488,021						130					130	137		105	111
									.09								.1	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Hotel Tower 1

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0											

Individual Loads On Floor: All-MEP		Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
		Air-Side HVAC Equipment	Air Handling Unit	2,511	W/Ton	500.0	1	1.00					1,256	1,256	1,395	40%	502	558
		Water-Side HVAC Equipment	Pumps-Via TR	2,511	W/Ton	300.0	1	1.00					753	753	837	50%	377	419
Floor Subtotal:		All-MEP											2,009	2,009	2,232		879	977

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
BOH	HOSPITALITY-BOH	33,166	.75	1.0		.25	2.0	25	33			8	66	70		36	39
								50%	50%			90%					
Circulation	_COMMON-Public Corridors	114,835	.75	.5		.25	1.5	86	57			29	172	182		92	97
								60%	25%			90%					
Guest Rooms	HOSPITALITY-Hotel Rooms (noncooking)	676,607	.90	2.5			3.4	609	1,692				2,300	2,422		575	605
								25%	25%								
MEP	_COMMON-MEP	1,822	.75	1.0		.25	2.0	1	2				4	4		2	2
								40%	40%			90%					
Floor Subtotal:		All-Program Space	826,430					721	1,784			37	2,543	2,678		705	743

Floor: Vertical Transportation

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25	0.0										

Individual Loads On Floor: Vertical Transportation		Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
		Escalators	Escalators	25	HP	746.0	2	1.00					37	37	41	50%	19	21
		Passenger Elevators	Elevators	30	HP	746.0	4	1.40					125	125	139	20%	25	28
		Service Elevators	Elevators	30	HP	746.0	1	1.40					31	31	35	20%	6	7

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

		<i>KW</i>					<i>Connected</i>		<i>Service</i>		
		LTG	Utility	UPS	LS	HVAC	<i>Total KW</i>	<i>Total KVA</i>	<i>Demand</i>	<i>Total KW</i>	<i>Total KVA</i>
Building: Hotel Tower 1											
Floor: Vertical Transportation											
<i>Floor Subtotal:</i>	Vertical Transportation		194				194	216		50	56
<i>Building Subtotal:</i>	Hotel Tower 1	826,430	721	1,978	37	2,009	4,745	5,125	1,634	1,775	
			.87	2.39	.05	2.43			2.0		

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Hotel Tower 2

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0											

Individual Loads On Floor: All-MEP

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Water-Side HVAC Equipment	Pumps-Via TR	1,503	W/Ton	300.0	1	1.00					451	451	501	50%	225	251
Air-Side HVAC Equipment	Air Handling Unit	1,503	W/Ton	500.0	1	1.00					752	752	835	40%	301	334
Floor Subtotal: All-MEP											1,202	1,202	1,336		526	585

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
BOH	HOSPITALITY-BOH	25,467	.75	1.0		.25	2.0	19	25		6	51	54		28	30
								50%	50%		90%					
Circulation	_COMMON-Public Corridors	71,931	.75	.5		.25	1.5	54	36		18	108	114		58	61
								60%	25%		90%					
Guest Rooms	HOSPITALITY-Hotel Rooms (noncooking)	375,270	.90	2.5			3.4	338	938			1,276	1,343		319	336
								25%	25%							
MEP	_COMMON-MEP	9,218	.75	1.0		.25	2.0	7	9		2	18	19		9	9
								40%	40%		90%					
Floor Subtotal: All-Program Space		481,886						418	1,009		27	1,453	1,530		413	435

Floor: Vertical Transportation

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25	0.0										

Individual Loads On Floor: Vertical Transportation

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Service Elevators	Elevators	30	HP	746.0	1	1.40						31	35	20%	6	7
Escalators	Escalators	25	HP	746.0	2	1.00						37	41	50%	19	21
Passenger Elevators	Elevators	30	HP	746.0	4	1.40						125	139	20%	25	28

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

<i>KW</i>					<i>Connected</i>		<i>Service</i>		
LTG	Utility	UPS	LS	HVAC	<i>Total KW</i>	<i>Total KVA</i>	<i>Demand</i>	<i>Total KW</i>	<i>Total KVA</i>

Building: Hotel Tower 2

Floor: Vertical Transportation

<i>Floor Subtotal:</i>	Vertical Transportation			194				194	216		50	56
------------------------	--------------------------------	--	--	-----	--	--	--	------------	------------	--	-----------	-----------

<i>Building Subtotal:</i>	Hotel Tower 2	481,886	418	1,203	27	1,202	2,850	3,082	989	1,076
---------------------------	----------------------	---------	-----	-------	----	-------	--------------	--------------	------------	--------------

	<i>.87</i>	<i>2.50</i>		<i>.06</i>	<i>2.50</i>				<i>2.1</i>	
--	------------	-------------	--	------------	-------------	--	--	--	------------	--

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: MICE

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0											

Individual Loads On Floor:		All-MEP																				
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA						
Air-Side HVAC Equipment	Air Handling Unit	1,131	W/Ton	500.0	1	1.00					566	566	628	40%	226	251						
Water-Side HVAC Equipment	Pumps-Via TR	1,131	W/Ton	300.0	1	1.00					339	339	377	50%	170	189						
Floor Subtotal:		All-MEP															905	905	1,005		396	440

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:												
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC								
Ballroom	CULTURAL-Event Space: Non-Theatrical	105,080	1.00	4.0		.25	5.3	105	420		26	552	581		305	321					
								68%	50%		90%										
BOH	_COMMON-BOH	15,020	1.00	1.0		.25	2.3	15	15		4	34	36		18	19					
								50%	50%		90%										
Circulation	_COMMON-Public Corridors	73,788	.75	.5		.25	1.5	55	37		18	111	117		59	63					
								60%	25%		90%										
Conference	CULTURAL-Event Space: Non-Theatrical	5,523	1.00	4.0		.25	5.3	6	22		1	29	31		16	17					
								68%	50%		90%										
MEP	_COMMON-MEP	16,652	.75	1.0		.25	2.0	12	17		4	33	35		15	16					
								40%	40%		90%										
Outdoor	_COMMON-Terrace	13,845	1.00	1.0		.25	2.3	14	14		3	31	33		17	18					
								50%	50%		90%										
Restroom	_COMMON-Bathroom	7,909	1.00	1.0		.25	2.3	8	8		2	18	19		10	10					
								50%	50%		90%										
Floor Subtotal:		All-Program Space	237,817										215	533		59	807	852		440	465

Floor: F&B

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
F+B	_COMMON-Kitchen/Cafe (Electric Cooki	7,479	1.00	60.0		.25	61.3	7	449		2	458	482		164	172
								68%	35%		90%					

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		KW					Connected		Service							
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA					
Building: MICE																
Floor: F&B																
Floor Subtotal: F&B		7	449		2		458	482	164	172						
Floor: Vertical Transportation																
Area Loads		W/SqFt					KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	Total W/SqFt	LTG	Utility	UPS	LS	HVAC			
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0								
Individual Loads On Floor: Vertical Transportation																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Escalators	Escalators	25	HP	746.0	2	1.00		37				37	41	50%	19	21
Passenger Elevators	Elevators	30	HP	746.0	4	1.40		125				125	139	20%	25	28
Service Elevators	Elevators	30	HP	746.0	1	1.40		31				31	35	20%	6	7
Floor Subtotal: Vertical Transportation								194				194	216	50	56	
Building Subtotal: MICE		245,296					223	1,175		61	905	2,364	2,555	1,050	1,133	
							.91	4.79		.25	3.69			4.3		

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

		SqFt	KW					Connected		Service						
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Building: Museum/Interactive																
Floor: All-MEP																
Area Loads																
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0									
Individual Loads On Floor: All-MEP																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Air-Side HVAC Equipment	Air Handling Unit	750	W/Ton	500.0	1	1.00					375	375	417	40%	150	167
Water-Side HVAC Equipment	Pumps-Via TR	750	W/Ton	300.0	1	1.00					225	225	250	50%	113	125
Floor Subtotal:		All-MEP									600	600	667		263	292
Floor: All-Program Space																
Area Loads																
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Event Space: Theatrical	CULTURAL-Event Space: Theatrical	47,493	24.50	10.0		.25	34.8	1,164	475		12	1,650	1,738		502	529
								30%	30%		90%					
Gallery	CULTURAL-Museum/Gallery	9,316	25.00	10.0		.25	35.3	233	93		2	328	346		100	105
								30%	30%		90%					
Floor Subtotal:		All-Program Space	56,809					1,396	568		14	1,979	2,083		602	634
Floor: Vertical Transportation																
Area Loads																
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25	0.0									
Individual Loads On Floor: Vertical Transportation																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Passenger Elevators	Elevators	30	HP	746.0	2	1.40						63	70	40%	25	28
Floor Subtotal:		Vertical Transportation										63	70		25	28
Building Subtotal:		Museum/Interactive	56,809					1,396	631		14	600	2,641	2,820	890	954
								24.58	11.10		.25	10.56			15.7	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Parking Garage A

Floor: 1

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	262,000	.15	.1		.05		0.3	39	13			13	66	69		54	57
									90%	50%		90%						

Individual Loads On Floor: 1

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00						8	8	100%	8	8	
HEAT TRACE	Heat Trace	350	FT	12.0	1	1.00						4	4	100%	4	4	
HEAT TRACE	Heat Trace	600	FT	12.0	1	1.00						7	7	100%	7	7	
Floor Subtotal:		1	262,000					39	33			13	85	89		73	77

Floor: 2

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	265,000	.15	.1		.05		0.3	40	13			13	66	70		54	58
									90%	50%		90%						

Individual Loads On Floor: 2

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00						8	8	100%	8	8	
HEAT TRACE	Heat Trace	200	FT	12.0	1	1.00						2	2	100%	2	2	
Floor Subtotal:		2	265,000					40	24			13	77	81		65	68

Floor: 3

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
General	_COMMON-Parking (excluding EV chargi	265,000	.15	.1		.05		0.3	40	13			13	66	70		54	58
									90%	50%		90%						

Individual Loads On Floor: 3

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00						8	8	100%	8	8	
HEAT TRACE	Heat Trace	300	FT	12.0	1	1.00						4	4	100%	4	4	
Floor Subtotal:		3	265,000					40	25			13	78	82		66	70

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt	KW					Connected		Service						
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Building: Parking Garage A																
Floor: 4																
Area Loads			W/SqFt					Total	KW / Service Demand:							
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC			
General	_COMMON-Parking (excluding EV chargi	237,000	.15	.1		.05		0.3	36	12		12				
									59	63		49	51			
									90%	50%		90%				
Individual Loads On Floor: 4																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC					
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00		8				8	8 100%			
HEAT TRACE	Heat Trace	100	FT	12.0	1	1.00		1				1	1 100%			
Floor Subtotal:		4	237,000						36	21		12	68	72	58	61
Floor: 5																
Area Loads			W/SqFt					Total	KW / Service Demand:							
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC			
General	_COMMON-Parking (excluding EV chargi	237,000	.15	.1		.05		0.3	36	12		12				
									59	63		49	51			
									90%	50%		90%				
Individual Loads On Floor: 5																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC					
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00		8				8	8 100%			
HEAT TRACE	Heat Trace	100	FT	12.0	1	1.00		1				1	1 100%			
Floor Subtotal:		5	237,000						36	21		12	68	72	58	61
Floor: 6																
Area Loads			W/SqFt					Total	KW / Service Demand:							
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC			
General	_COMMON-Parking (excluding EV chargi	237,000	.15	.1		.05		0.3	36	12		12				
									59	63		49	51			
									90%	50%		90%				
Individual Loads On Floor: 6																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC					
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	4	1.00		8				8	8 100%			
HEAT TRACE	Heat Trace	100	FT	12.0	1	1.00		1				1	1 100%			
Floor Subtotal:		6	237,000						36	21		12	68	72	58	61

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Parking Garage A

Floor: All-MEP

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0										

Individual Loads On Floor: All-MEP

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC						
EV Chargers (2% of 3,410 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	68	1.00		510				510	567	40%	204	227	
Parking Ventilation	Air Handling Unit	40	HP	746.0	2	1.00		60				60	66	60%	36	40	
EV Chargers (8% of 3,410 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	273	1.00		2,048				2,048	2,275	40%	819	910	
Floor Subtotal: All-MEP								2,617				2,617	2,908		1,059	1,176	

Floor: All-Program Space

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
Parking	_COMMON-Parking (excluding EV chargi	0	.15	.1		.05		0.0										

Floor Subtotal: All-Program Space

Floor: Bus Depot

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
General	_COMMON-Parking (excluding EV chargi	80,467	.15	.1		.05		0.3	12	4			4	20	21		16	17
									90%	50%			90%					

Individual Loads On Floor: Bus Depot

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC						
AC UNIT	AC (Air Cooled Mini Split)	2	TR	1,000.0	1	1.00		2				2	2	100%	2	2	
DRY VALVE, AIR COMPRESSORS & ASSOCIATED TRI	Air Compressors	1	HP	746.0	13	1.00		10				10	13	100%	10	13	
DRY VALVE, AIR COMPRESSORS & ASSOCIATED TRI	Air Compressors	1	HP	746.0	13	1.00		10				10	13	100%	10	13	
EF-1 - 2	Fans (Exhaust)	40	HP	746.0	2	1.00		60				60	80	100%	60	80	
SF-1 - 3	Fans (Supply)	8	HP	746.0	3	1.00		17				17	22	100%	17	22	
HEAT TRACE	Heat Trace	300	FT	12.0	1	1.00		4				4	4	100%	4	4	
HEAT TRACE	Heat Trace	500	FT	12.0	1	1.00		6				6	6	100%	6	6	
SEP-1,2	Pumps-Ejector	8	HP	746.0	2	1.00		11				11	15	100%	11	15	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		KW					Connected		Service								
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA						
SqFt																	
Building: Parking Garage A																	
Floor: Bus Depot																	
SEP 3,4	Pumps-Ejector	8	HP	746.0	2	1.00		11			11	15	100%	11	15		
IRP-1,2	Pumps-Sump General	8	HP	746.0	2	1.00		11			11	15	100%	11	15		
Floor Subtotal: Bus Depot		80,467						12	145		4	161	206		158	202	
Floor: Vertical Transportation																	
Area Loads																	
		W/SqFt					KW / Service Demand:										
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	Total W/SqFt	LTG	Utility	UPS	LS	HVAC				
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0									
Individual Loads On Floor: Vertical Transportation																	
Individual Load Description		Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Passenger Elevators (30HP Each)		Elevators	30	HP	746.0	4	1.40		125				125	139	20%	25	28
Floor Subtotal: Vertical Transportation								125					125	139		25	28
Building Subtotal: Parking Garage A		1,583,467						238	3,032		79		3,348	3,722		1,619	1,804
							.15	1.91		.05						1.0	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt	KW					Connected		Service						
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Building: Parking Garage B																
Floor: All-MEP																
Area Loads																
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>							
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0								
Individual Loads On Floor: All-MEP																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
EV Chargers (10% of 2,440 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	244	1.00		1,830				1,830	2,033	40%	732	813
Parking Ventilation	Air Handling Unit	40	HP	746.0	2	1.00		60				60	66	60%	36	40
Floor Subtotal:		All-MEP						1,890				1,890	2,100		768	853
Floor: All-Program Space																
Area Loads																
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>							
Parking	_COMMON-Parking (excluding EV chargi	900,000	.15	.1		.05		0.3	135	45		45	225	238	185	195
									90%	50%		90%				
Floor Subtotal:		All-Program Space	900,000						135	45		45	225	238	185	195
Floor: Vertical Transportation																
Area Loads																
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>							
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0								
Individual Loads On Floor: Vertical Transportation																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Passenger Elevators (30HP Each)	Elevators	30	HP	746.0	4	1.40		125				125	139	20%	25	28
Floor Subtotal:		Vertical Transportation						125				125	139		25	28
Building Subtotal:		Parking Garage B	900,000					135	2,060		45	2,240	2,477		977	1,076
								.15	2.29		.05				1.1	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt	KW					Connected		Service			
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
Building: Parking Garage C													
Floor: All-MEP													
Area Loads													
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>				
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0					
Individual Loads On Floor: All-MEP													
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC		
EV Chargers (10% of 2,500 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	250	1.00		1,875				1,875	2,083
												40%	750
													833
Floor Subtotal:		All-MEP						1,875				1,875	2,083
													750
													833
Floor: All-Program Space													
Area Loads													
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>				
Parking	_COMMON-Parking (excluding EV chargi	1,000,000	.15	.1		.05		0.3	150	50		50	250
									90%	50%		90%	265
													205
													217
Floor Subtotal:		All-Program Space	1,000,000						150	50		50	250
													265
													205
													217
Floor: Vertical Transportation													
Area Loads													
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>				
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0					
Individual Loads On Floor: Vertical Transportation													
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC		
Passenger Elevators (30HP Each)	Elevators	30	HP	746.0	4	1.40		125				125	139
												20%	25
													28
Floor Subtotal:		Vertical Transportation							125				125
													139
													25
													28
Building Subtotal:		Parking Garage C	1,000,000						150	2,050		50	2,250
													2,487
													980
													1,078
									.15	2.05		.05	1.0

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Ph2 Col. Ext.

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0										

Individual Loads On Floor: All-MEP

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC			
Air-Side HVAC Equipment	Air Handling Unit	0	W/Ton	500.0	1	1.00								40%
Water-Side HVAC Equipment	Pumps-Via TR	0	W/Ton	300.0	1	1.00								50%

Floor Subtotal: **All-MEP**

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
BOH	_COMMON-BOH	13,549	1.00	1.0		.25	2.3	14	14		3		30	32	22	24
								68%	75%		90%					
Circulation	_COMMON-Public Corridors	13,125	.75	.5		.25	1.5	10	7		3		20	21	11	11
								60%	25%		90%					
Gaming	HOSPITALITY-Casino/Gaming Area	31,328	1.50	6.0	3.0	.25	10.8	47	188	94	8		337	355	235	248
								75%	65%	75%	90%					
Gaming Support	HOSPITALITY- Hotel (Blended Total)	2,162	1.00	2.5		.05	3.6	2	5				8	8	3	4
								50%	40%		90%					
Lobby	_COMMON-Lobby	23,814	2.50	2.5		.25	5.3	60	60		6		125	132	95	100
								75%	75%		90%					
MEP	_COMMON-MEP	41,682	.75	1.0		.25	2.0	31	42		10		83	88	39	41
								40%	40%		90%					
Outdoor	_COMMON-Terrace	8,874	1.00	1.0		.25	2.3	9	9		2		20	21	15	15
								68%	75%		90%					
Retail	RETAIL-Blended Retail (2,500 to 25,000 f	3,714				.25	0.3				1		1	1	1	1
											90%					

Floor Subtotal: **All-Program Space**

138,248

172

324

94

34

624

658

420

443

Floor: F&B

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt	KW					Connected		Service							
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA					
Building: Ph2 Col. Ext.																	
Floor: F&B																	
Area Loads			W/SqFt					Total	KW / Service Demand:								
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC				
F+B	_COMMON-Kitchen/Cafe (Electric Cooki	1,347	1.00	60.0		.25		61.3	1	81							
									68%	35%		90%					
Floor Subtotal:		F&B	1,347						1	81			83	87			
													29	31			
Floor: Vertical Transportation																	
Area Loads			W/SqFt					Total	KW / Service Demand:								
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC				
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0									
Individual Loads On Floor: Vertical Transportation																	
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA	
Passenger Elevators	Elevators	30	HP	746.0	2	1.40		63				63	70	20%	13	14	
Service Elevators	Elevators	30	HP	746.0	2	1.40		63				63	70	20%	13	14	
Floor Subtotal:		Vertical Transportation							125				125	139		25	28
Building Subtotal:		Ph2 Col. Ext.	139,595						174	530	94	34		832	884	474	502
									1.24	3.79	.67	.25				3.4	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt	KW					Connected		Service						
			LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Building: Retail																
Floor: All-MEP																
Area Loads																
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0									
Individual Loads On Floor: All-MEP																
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Air-Side HVAC Equipment	Air Handling Unit	500	W/Ton	500.0	1	1.00					250	250	278	40%	100	111
Water-Side HVAC Equipment	Pumps-Via TR	500	W/Ton	300.0	1	1.00					150	150	167	50%	75	83
Floor Subtotal:		All-MEP									400	400	444		175	194
Floor: All-Program Space																
Area Loads																
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
BOH	_COMMON-BOH	27,327	1.00	1.0		.25	2.3	27	27		7	61	65		33	35
								50%	50%		90%					
Circulation	_COMMON-Public Corridors	40,533	.75	.5		.25	1.5	30	20		10	61	64		32	34
								60%	25%		90%					
MEP	_COMMON-MEP	26,057	.75	1.0		.25	2.0	20	26		7	52	55		24	26
								40%	40%		90%					
Office	COMMERCIAL-Office	7,491	1.00	3.0		.25	4.3	7	22		2	32	34		17	18
								50%	50%		90%					
Outdoor	_COMMON-Terrace	1,783	1.00	1.0		.25	2.3	2	2			4	4		2	2
								50%	50%		90%					
Retail	RETAIL-Blended Retail (>25,000 ft ²)	27,248		10.0		.25	10.3		272		7	279	294		115	121
									40%		90%					
Floor Subtotal:		All-Program Space	130,439					87	370		33	490	516		224	237
Floor: F&B																
Area Loads																
Area	Space Type	Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
F+B	_COMMON-Kitchen/Cafe (Electric Cooki	72,758	1.00	60.0		.25	61.3	73	4,365		18	4,456	4,691		1,593	1,678
								68%	35%		90%					

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		KW					Connected		Service						
		LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA				
Building: Retail															
Floor: F&B															
Floor Subtotal:		F&B	72,758		73	4,365		18		4,456	4,691		1,593	1,678	
Floor: Vertical Transportation															
Area Loads		W/SqFt					KW / Service Demand:								
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	Total W/SqFt	LTG	Utility	UPS	LS	HVAC		
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25		0.0							
Individual Loads On Floor: Vertical Transportation															
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC				
Escalators	Escalators	25	HP	746.0	2	1.00		37						37	41
Passenger Elevators	Elevators	30	HP	746.0	4	1.40		125						125	139
Service Elevators	Elevators	30	HP	746.0	1	1.40		31						31	35
Floor Subtotal: Vertical Transportation								194						194	216
Building Subtotal: Retail		203,197					159	4,930		51	400			5,540	5,868
							.78	24.26		.25	1.97			2,049	2,171
														10.1	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Surface Parking Lot E

Floor: All-MEP

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0										

Individual Loads On Floor:																			
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC								
EV Chargers (2% of 450 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	9	1.00		68				68	75	40%	27	30			
EV Chargers (8% of 450 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	36	1.00		270				270	300	40%	108	120			
Floor Subtotal:		All-MEP											338	375		135	150		

Floor: All-Program Space

Area Loads			W/SqFt					Total	KW / Service Demand:									
Area	Space Type	Area SqFt	LTG	Utility	UPS	LS	HVAC	W/SqFt	LTG	Utility	UPS	LS	HVAC					
Parking	_COMMON-Parking (excluding EV chargi	182,017	.15	.1		.05		0.3	27	9		9		46	48	37	40	
									90%	50%		90%						

Floor Subtotal:		All-Program Space	182,017	27	9		9	46	48	37	40							
-----------------	--	--------------------------	---------	----	---	--	---	----	----	----	----	--	--	--	--	--	--	--

Building Subtotal:		Surface Parking Lot E	182,017	27	347		9	383	423	172	190							
									.15	1.90		.05						.9

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Surface Parking Lot F

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:					
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC	
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0							

Individual Loads On Floor: All-MEP		Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
		EV Chargers (2% of 500 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	10	1.00		75				75	83	40%	30	33
		EV Chargers (8% of 500 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	40	1.00		300				300	333	40%	120	133
Floor Subtotal:		All-MEP								375				375	417		150	167

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
Parking	_COMMON-Parking (excluding EV chargi	200,900	.15	.1		.05	0.3	30	10		10		50	53		41	44
								90%	50%		90%						

Floor Subtotal:		All-Program Space	200,900					30	10		10		50	53		41	44
-----------------	--	--------------------------	---------	--	--	--	--	----	----	--	----	--	----	----	--	----	----

Building Subtotal:		Surface Parking Lot F	200,900					30	385		10		425	470		191	210
								.15	1.92		.05					1.0	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

		SqFt	<i>KW</i>					<i>Connected</i>		<i>Service</i>			
			LTG	Utility	UPS	LS	HVAC	<i>Total KW</i>	<i>Total KVA</i>	<i>Demand</i>	<i>Total KW</i>	<i>Total KVA</i>	
Building: Surface Parking Lot G													
Floor: All-MEP													
<i>Area Loads</i>													
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>				
Misc MEP	_COMMON-MEP	0	.75	1.0		.25		0.0					
<i>Individual Loads On Floor: All-MEP</i>													
Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC		
EV Chargers (10% of 630 parking spots)	Electric Vehicle Charging	1	W Each	7,500.0	63	1.00		473				473	525
												40%	189
													210
<i>Floor Subtotal:</i>		All-MEP						473				473	525
													189
													210
Floor: All-Program Space													
<i>Area Loads</i>													
<u>Area</u>	<u>Space Type</u>	<u>Area SqFt</u>	<u>W/SqFt</u>					<u>Total W/SqFt</u>	<u>KW / Service Demand:</u>				
Parking	_COMMON-Parking (excluding EV chargi	248,093	.15	.1		.05		0.3	37	12		12	
									90%	50%		90%	
													51
													54
<i>Floor Subtotal:</i>		All-Program Space	248,093						37	12		12	
													51
													54
<i>Building Subtotal:</i>		Surface Parking Lot G	248,093						37	485		12	
													240
													264
									.15	1.95		.05	
													1.0

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

Sands NY Gaming Resort

Program Data Source: Populus Area Plan Rev 7

SqFt

KW					Connected		Service		
LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA

Building: Theater

Floor: All-MEP

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:									
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC					
Misc MEP	_COMMON-MEP	0	.75	1.0		.25	0.0											

Individual Loads On Floor: All-MEP

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Air-Side HVAC Equipment	Air Handling Unit	539	W/Ton	500.0	1	1.00					270	270	299	40%	108	120
Water-Side HVAC Equipment	Pumps-Via TR	539	W/Ton	300.0	1	1.00					162	162	180	50%	81	90
Floor Subtotal: All-MEP											431	431	479		189	210

Floor: All-Program Space

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:							
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC			
Circulation	_COMMON-Public Corridors	2,450	.75	.5		.25	1.5	2	1		1	4	4		2	2
Lobby	_COMMON-Lobby	22,138	2.50	2.5		.25	5.3	55	55		6	116	122		49	52
MEP	_COMMON-MEP	8,580	.75	1.0		.25	2.0	6	9		2	17	18		13	14
Theater	CULTURAL-Event Space: Theatrical	87,234	24.50	10.0		.25	34.8	2,137	872		22	3,031	3,192		922	972
Theater Support	CULTURAL-Theater Support	50,323	24.50	10.0		.25	34.8	1,233	503		13	1,749	1,841		706	743
Floor Subtotal: All-Program Space		170,725						3,434	1,441		43	4,917	5,177		1,693	1,783

Floor: Vertical Transportation

Area Loads		Area SqFt	W/SqFt					Total W/SqFt	KW / Service Demand:								
Area	Space Type		LTG	Utility	UPS	LS	HVAC		LTG	Utility	UPS	LS	HVAC				
Vertical Circulation	_COMMON-MEP	0	.75	1.0		.25	0.0										

Individual Loads On Floor: Vertical Transportation

Individual Load Description	Equipment Type	Size	Unit	W/Unit	Qty	Diversity	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Escalators	Escalators	25	HP	746.0	2	1.00						37	41	50%	19	21

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

		SqFt		<u>KW</u>					Connected		Service		
				LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
Building: Theater													
Floor: Vertical Transportation													
Passenger Elevators	Elevators	30	HP	746.0	4	1.40		125	125	139	40%	50	56
Service Elevators	Elevators	30	HP	746.0	1	1.40		31	31	35	40%	13	14
<i>Floor Subtotal:</i>		Vertical Transportation						194	194	216		81	90
<i>Building Subtotal:</i>		Theater		170,725				3,434	1,635			43	431
								20.11	9.57			.25	2.53
												1,963	2,083
												11.5	

Ph 2 w Marriot H/C: Load Letter Calcs

(All Area & Individual Loads)

SqFt

	<u>KW</u>					Connected		Service		
	LTG	Utility	UPS	LS	HVAC	Total KW	Total KVA	Demand	Total KW	Total KVA
						Connected		Service Demand		
						Total KW	Total KVA	Demand	Total KW	Total KVA
Ph 2 w Marriot H/C: Totals	9,031	34,796	2,474	1,172	38,354	85,828	97,145		40,805	46,580



E

Visit www.psegliny.com



FINAL TERMINATION NOTICE

We regret to inform you that your service will be turned off on, or after, JAN 19, 2024 because you have not paid the \$60524.31 overdue. Please call us at 1-800-966-4818 or visit any of our offices immediately and we will work with you to continue your service. The enclosed notice contains a summary of your rights and protections as New York utility customer. **PLEASE BRING THIS NOTICE TO OUR ATTENTION WHEN PAYING THIS BILL.**

As of January 1, 2024, your billing rate has been modified. Please review the information enclosed with this or previous bill.

Our walk-in Customer Service Centers are currently closed. Visit psegliny.com for payment options, including in-person, and free online account services.

NEXT METER READING

On or about 02/02/2024

CONTACT US

- **Business Solutions Center**
1-800-966-4818 | **Espanol** :1-800-490-0085
Weekdays 8AM-8PM, Automated Phone Services—24/7
- **Outside Toll Free**
1-631-755-3417
- **Outages/Emergencies (24/7)**
Text OUT to PSEGLI (773454) or Call 1-800-490-0075
- **Energy Efficiency** | **Report Theft of Service**
1-800-692-2626 | 1-631-755-6871
- facebook.com/PSEGLI twitter.com/PSEGLI
Weekdays 7AM-11PM, Sat, Sun 9AM-6PM

PAGE 1 of 3

CUSTOMER ID: 0481-4000-50-3

BILL DATE 01/04/2024

Please detach here and return with your check made payable to PSEG Long Island.



CUSTOMER ID: 0481-4000-50-3

PAY YOUR WAY, 24/7

We offer a variety of methods that make it easy to pay your bill. See reverse side for more information.

PSEGLI
PO Box 9039
Hicksville NY 11802-9039

Marriott Corp
101 James Doolittle Blvd
Uniondale NY 11553-3637

Amount Due

\$ 110,470.47

See Message Center

Customer ID: 0481-4000-50-3 | Account #: 5039997971
Service To: Marriott Corp
101 J Doolittle BI Hotel | Uniondale NY 11553

ACCOUNT SUMMARY

Service From Dec 4, 2023 - Jan 3, 2024

Previous balance \$ 120,765.93
Payment(s) Received Through 12/27/23 - -181,007.55
Thank You!

Balance Remaining -60,241.62
New charges 49,016.80
Returned Check 120,765.93
Late Payment Charge 907.54
Processing Fee For Return Check 21.82

Total Account Balance \$ 110,470.47

Past due required immediately to avoid termination \$ 60,524.31

See Message Center
Current Charges due 170,712.09

Total Amount \$ 110,470.47

A 1.5% late payment fee will be applied to outstanding charges if payment is not received by January 27, 2024

Amount Due

\$ 110,470.47

See Message Center

Enclosed: \$

0481400050310040046110470474170712094

10305000000000

Period 1: Off Peak - Every Day, Midnight to 7AM, All Year
 Period 2: Peak - Mon-Sat, 10AM to 10PM, Jun 1 to Sep 30
 Period 3: Other - All Remaining Hours, All Year

Amount Due **\$ 110,470.47**

[See Message Center](#)

DETAILS OF CURRENT ENERGY CHARGES

Rate 285 - Secondary, Commercial, Large, Multiple Periods

Meter # 096741629 Meter Multiplier: 1000
 Service: From 12/04/2023 00:01 AM ACTUAL reading Total Days: 30
 To 01/03/2024 00:01 AM ACTUAL reading

Delivery & System Charges

The cost to deliver electricity: includes operation and maintenance of the electric system and certain transition charges of \$0.021651/kWh on behalf of the Utility Debt Securitization Authority, the owner of such transition charges.

Period	From Reading	To Reading	Use	\$Amount
1-Energy	8297	8386	89000 Kwh	554.47
2-Energy	4311	4311	0 Kwh	0.00
2-Demand	19.529	19.529	0.0 Kw	0.00
3-Energy	17647	17886	239000 Kwh	6,464.95
3-Demand	60.439	61.086	647.0 Kw	5,291.81
Basic Service:	30 days	@6.6500		199.50
MFC:		@0.000465	328000 Kwh	152.65
Subtotal:				12,663.38

Power Supply Charges

The cost of electricity: includes the purchase of fuel (e.g. oil and gas) used to produce electricity and electricity purchased directly.

328000 KWH @0.0948625 **31,114.90**

Other Charges

DER Charge 328000 KWH @0.0025687	842.53
Delivery Service Adjustment	-0.61
Revenue Decoupling Adjustment	322.99
NY State Assessment:	124.04
Revenue-Based PILOTS:	57.56
State and Local Taxes: 8.625%	3,892.01
Subtotal:	5,238.52

It's Your Bill. How You pay is Your Choice.



Online or Phone

Make a payment anytime from a checking or savings account with My Account, by phone or by text.

www.psegliny.com
 Text PAY PSEGLI (773454)
 1-800-490-0025



DirectPay

Automatic payments from your bank. Skip check and stamps. Never worry about due dates.

www.psegliny.com



Credit Card

Pay your bill with a credit card online or by phone (fee may apply).

www.psegliny.com
 1-800-490-0025



In Person

Payments are accepted at any customer service center or authorized locations.

Locations at
www.psegliny.com



By Mail

Payments to:
 PSEGLI
 PO Box 9039
 Hicksville NY 11802-9039

Send correspondence to:
 PSEG Long Island, PO
 Box 9083, Melville, NY
 11747-9083

GO PAPERLESS! To sign up visit psegliny.com/paperless

Total Charges:

49,016.80

BILL DEFINITIONS

KWH - Kilowatt Hour - energy consumed if 1,000 watts (ex. ten 100W bulbs) are used for one hour.

kW or Demand - The highest amount of electricity used in any 1/4 hour during the billing period. 1 kW is equal to 1000 watts.

Meter Multiplier - Converts recorded use to total use on meters that are designed to only record partial use.

Basic Service - The minimum daily cost for a 24/7 connection to the electric system.

Delivery Service Adjustment - Charge or credit that tracks actual expenses against budgeted expenses for unpredictable costs, such as storm response.

Distributed Energy Resources (DER) Charge - Recovers the cost of energy efficiency and conservation programs, as well as renewable technologies.

Revenue-Based PILOTs (Payments in Lieu of Taxes) - State and local taxes on utility revenues. This does not include property taxes assessed on the electric system, which make up 15% of your bill.

Revenue Decoupling Adjustment - Charge or credit applied to balance actual delivery revenue with the approved revenues level. Encourages energy efficiency by breaking utility dependency on sales revenue.

NY State Assessment - Assessment imposed on all utilities and collected on behalf of the State.

Suffolk Property Tax Adjustment - The amount collected by PSEGLI from Suffolk County customers representing the overpayment of property taxes to the Shoreham taxing jurisdictions from a court-ordered legal settlement dated January 11, 2000.

Sales Tax - State and/or local sales taxes.

Customer Benefit Contribution (CBC) Charge - the cost of customer-funded public benefit programs. Applicable to net meter customers who connect on or after January 1, 2022.

Merchant Function Charge (MFC) - administrative and collection related costs associated with procuring electric supply.



ADAM ZUAR
SENIOR ASSOCIATE

Natural Gas Load Increases
Sands Gaming Resort
Las Vegas Sands Corporation
1255 Hempstead Turnpike
Uniondale, NY
Project No. 26107.N.000

August 17, 2023

Mr. Joseph Scibelli
Lead Account Manager
Customer Gas Connections/Customer Sales and Solutions
National Grid
joseph.scibelli@nationalgrid.com

Dear Mr. Scibelli:

This letter summarizes planned natural gas load increases associated with a development project for the existing Nassau Coliseum by the Las Vegas Sands Corporation (LVS).

JB&B is acting as the lead MEP Engineer for LVS to evaluate, and plan for, the development of a new integrated gaming resort at the site of the existing Nassau Coliseum. The conceived project will be constructed in two (2) major phases:

Phase 1 Development			Construction Start		7/1/2024
			Public Opening		1/1/2026
Structure	Meter Assembly	Description	Estimated Connected Load (CFH)	Required Pressure (inches of w.c.)	Type of Gas Service
Casino Ph1	Meter No. 1	Food and Beverage No.1	2,510	7-14	Firm
	Meter No. 2	Food and Beverage No.2	3,240	7-14	Firm
	Meter No. 3	Food and Beverage No.3	1,935	7-14	Firm
	Meter No. 4	Food and Beverage – No.4	2,170	7-14	Firm
	Meter No. 5	Food and Beverage – No.5	2,470	7-14	Firm
	Meter No. 6	Food and Beverage – No.6	1,300	7-14	Firm
	Meter No. 7	Food and Beverage – No.7	2,075	7-14	Firm
Phase 1 Subtotal			15,625		



Phase 2 Development			Construction Start	3/1/2025	
			Public Opening	6/1/2027	
Structure	Meter Assembly	Description	Estimated Connected Load (CFH)	Required Pressure (inches of w.c.)	Type of Gas Service
Casino Ph1		No Change	No Change	No Change	No Change
Casino Ph2	Meter No. 8	Food and Beverage – No.8	2,000	7-14	Firm
	Meter No. 9	Food and Beverage – No.9	2,000	7-14	Firm
	Meter No. 10	Food and Beverage – No.10	2,000	7-14	Firm
	Meter No. 11	Food and Beverage – No.11	2,000	7-14	Firm
	Meter No. 12	Food and Beverage – No.12	2,000	7-14	Firm
	Meter No. 13	Food and Beverage – No.13	2,000	7-14	Firm
	Meter No. 14	Food and Beverage – No.14	2,000	7-14	Firm
	Meter No. 15	Food and Beverage – No.15	1,575	7-14	Firm
	Meter No. 16	Food and Beverage – No.16	2,000	7-14	Firm
	Meter No. 17	Food and Beverage – No.17	2,000	7-14	Firm
	Meter No. 18	Food and Beverage – No.18	2,500	7-14	Firm
	Meter No. 19	Food and Beverage – No.19	2,500	7-14	Firm
		Phase 2 Subtotal	24,575		
Grand Total			40,200	7-14	Firm

Enclosed is a site plan (Appendix A - SKP-1) indicating the proposed gas service point of entry and outdoor gas meter assembly space.

Existing Natural Gas Service Configuration

The existing Nassau Coliseum currently receives high-pressure natural gas from the street main located in Charles Lindbergh Boulevard, as indicated on the latest site civil utility drawings. The existing 6 in. high-pressure natural gas sub-main runs South, and then West at 4 in. along the North facade of the existing Marriott and existing Coliseum, to serve the existing Nassau Coliseum. It is our understanding that the existing Nassau Coliseum has a connected natural gas load of approximately 2,000 CFH.

We respectfully request that National Grid confirm that the high-pressure natural gas sub-main connection occurs at Charles Lindbergh Boulevard, and that the service is adequate to support the natural gas loads associated with both Phases 1 and 2.



We look forward to discussing this exciting new project with you.

Very truly yours,

JAROS, BAUM & BOLLES
CONSULTING ENGINEERS, LLP

A handwritten signature in black ink, appearing to read 'Adam Zuar'.

Adam C. Zuar
Senior Associate
ACZ:jas

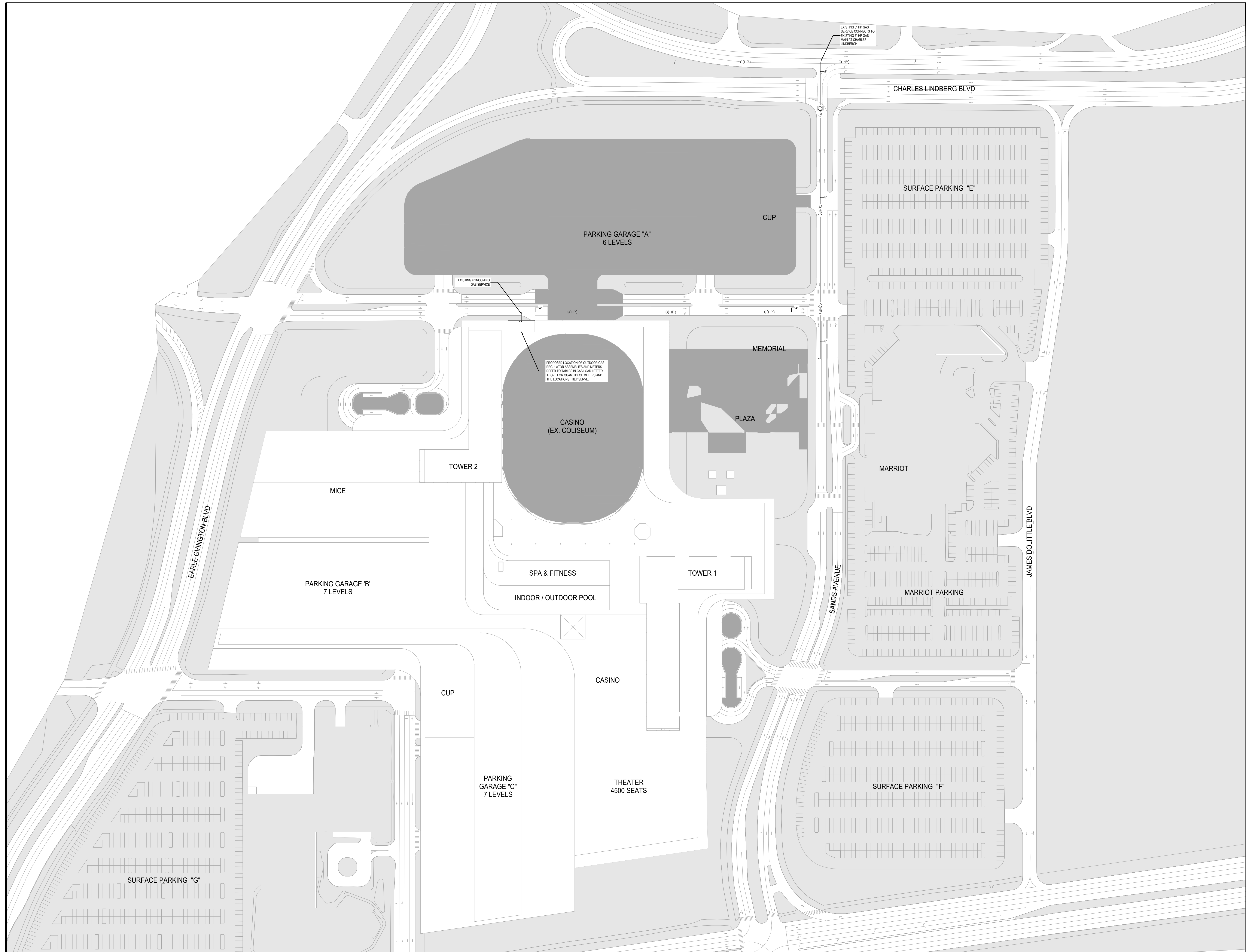
cc: (1) Mr. J. Hess
(1) Mr. M. Gross
(1) Mr. M. Bokenheide
(1) Mr. R. Dvorak
(1) Ms. D. Ford
(1) Mr. J. Mallie
(1) Ms. A. Husain
(1) Ms. M. M. DeCarlo
(1) Mr. J. Arcara

Enc.

v:\projects\26107.n.000-sands nassau gaming resort\wp\letters\2023-08-17_natural gas load increases_scibelli_acz-jas.docx



Appendix A: SKP-1 Concept Site Plan Phases 1 and 2



NO.	ISSUE	DATE

KEY PLAN

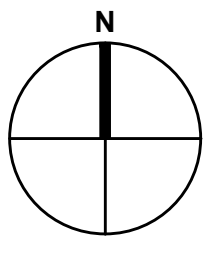
SANDS NASSAU

PROJECT ADDRESS

TITLE
**CONCEPT SITE
 PLAN PHASE 1 & 2**

STAMP

COMPASS



PROJECT
00000.0.000
 SCALE
 1" = 100'
 DRAWN BY
 DATE
 07/19/2023

SHEET NUMBER
SKP-1
 Sheet No. ___ of ___



SERVICE FOR
MARRIOTT CORP
 101 J DOOLITTLE BLVD
 UNIONDALE NY 11553

BILLING PERIOD
 Nov 20, 2023 to Dec 20, 2023

ACCOUNT NUMBER **PLEASE PAY BY**
 39072-50009 Jan 18, 2024

AMOUNT DUE
\$ 13,613.71

www.nationalgridus.com

CUSTOMER SERVICE
1-800-930-5003
 Monday-Friday, 8AM-8PM

GAS EMERGENCIES
1-800-490-0045

24 Hours/Day - 7 Days/Week
 (Does not replace 911 emergency
 medical services)

PARA ESPANOL
1-800-930-5003

CORRESPONDENCE ADDRESS
Accounts Processing KEDLI
Two Hanson Place
Brooklyn, NY 11217-4717

PAYMENT ADDRESS
PO BOX 371382
PITTSBURGH, PA 15250-7382

DATE BILL ISSUED
Dec 22, 2023

ACCOUNT BALANCE

Previous Balance		12,228.14
Payment Received on DEC 20 (ACH)	THANK YOU	- 12,228.14
Current Charges		+ 13,613.71
Amount Due ▶		\$ 13,613.71

To avoid late payment charges of 1.5%, \$ 13,613.71 must be received by Jan 18 2024.

SUMMARY OF CURRENT CHARGES

	DELIVERY SERVICES	SUPPLY SERVICES	OTHER CHARGES/ ADJUSTMENTS	TOTAL
Gas Service	3,742.39	9,871.73		13,614.12
Other Charges/Adjustments			-0.41	-0.41
Total Current Charges	\$ 3,742.39	\$ 9,871.73	-\$ 0.41	\$ 13,613.71



Utility Worker Safety Reminder: State laws are in place to help protect utility workers while they are performing their job duties. Causing physical injury to, or assaulting, a utility worker is punishable by law, and penalties include potential jail time.

Gas Usage History

Month	Therms	Month	Therms
Dec 22	11602	Jul 23	6310
Jan 23	9856	Aug 23	7119
Feb 23	8656	Sep 23	6220
Mar 23	9956	Oct 23	7568
Apr 23	8273	Nov 23	8503
May 23	7600	Dec 23	9485
Jun 23	6412		

KEEP THIS PORTION FOR YOUR RECORDS.

RETURN THIS PORTION WITH YOUR PAYMENT.



ACCOUNT NUMBER	PLEASE PAY BY	AMOUNT DUE
39072-50009	Jan 18, 2024	\$ 13,613.71

Accounts Processing KEDLI
 Two Hanson Place
 Brooklyn NY 11217

ENTER AMOUNT ENCLOSED



Write account number on check and make payable to National Grid

MARRIOTT CORP
 ADVANTAGE IQMS1489
 PO BOX 2440
 SPOKANE WA 99210-2440

008976

NATIONAL GRID
 PO BOX 371382
 PITTSBURGH PA 15250-7382

001361371 39072500099001361371018

DETAIL OF CURRENT CHARGES

Delivery Services

Service Period	No. of days	Current Reading	-	Previous Reading	=	Measured CCF	x	Therm Factor	=	Therms Used
Nov 20 - Dec 20	30	1159 <i>Actual</i>	-	91953 <i>Actual</i>	=	9206	x	1.03028	=	9485

METER NUMBER 05768814 NEXT SCHEDULED READ DATE ON OR ABOUT Jan 23

RATE Rate 257 Gas Non Resid General Use Delivery

Basic Service Charge (including first 3 therms)		37.66
Next 87 Therms	1.8441 x 87 therms	160.44
Next 2910 Therms	0.3739 x 2910 therms	1,088.05
Over/Last 6485 Therms	0.2404 x 6485 therms	1,558.99
Delivery Rate Adj	0.07657 x 9485 therms	726.26
Transp Adj Chg	-0.013567 x 9485 therms	-128.68
NY State and Local Surcharges		2.55
NY State Sales Tax	8.625 %	297.12
Total Delivery Services		\$ 3,742.39

Supply Services

SUPPLIER ENGIE
 920 RAILROAD AVE.
 WOODMERE, NY 11598



PHONE (855) 327-6937 ACCOUNT NO 3907250009

Gas Supply	0.958133 x 9485 therms	9,087.89
Sales Tax		783.84
Total Supply Services		\$ 9,871.73

Other Charges/Adjustments

Paperless Billing Credit		-0.41
Total Other Charges/Adjustments		-\$ 0.41

www.nationalgridus.com

Energy Measurement Terms

CCF – The unit of gas volume (100 cubic feet) as measured by your meter.

Therm – A unit of heat content equal to 100,000 British Thermal Units (BTU). A BTU represents the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit. The number of CCFs is multiplied by a conversion factor to determine the therms used. The number of therms is used to determine the gas charges on your bill.

Therm Factor – The factor that converts the quantity of gas used (CCF) to a quality measurement (Therms).

Meter Multiplier – Due to their design, some meters record a fraction of the total usage. The multiplier is used to convert the recorded meter reading on these types of meters to total actual consumption.

Charges

Basic Service Charge – Fixed charge prorated for the number of days of service.

Billing Charge – Reflects costs associated with issuing bills and processing payments. If you buy gas supply from an ESCO who does not bill charges separately, you avoid the Billing Charge. National Grid reserves the right to upwardly adjust a previously issued bill or back bill.

NY State and Local Surcharges - Includes State and City Gross Receipts Tax and State imposed taxes on utilities to maintain mass transit fares.

NY State Sales Tax - The Company is required to collect state and local sales tax in all NY State counties. Some school districts also impose sales tax.

Transportation Adjustment Charge – The cost of storing and transporting natural gas.

Gas Service

Delivery Rate Adjustment – Includes Site Investigation and Remediation Recovery Surcharge, weather-related debits and/or credits (heating customers only), Revenue Decoupling Mechanism Surcharge/Credit, New York Facilities System Surcharge/Surcredit, Gas Safety and Reliability Surcharge, Non-Firm Demand Response Revenues Reconciliation Surcharge/Credit, Electric Generator Revenue Reconciliation, Earnings Adjustment Mechanism, Demand Capacity Surcharge Mechanism, Net Utility Plant and Depreciation Expense Reconciliation Mechanism, Non Labor Demand Response O&M Cost, Rate Adjustment Clause, Late Payment Charge & Other Waived Fees and Arrears Management Program.

Gas Supply – A charge to reflect the Company's cost of gas purchased from suppliers and transporting the gas to the Company's distribution system. If you choose an alternate supplier, the price will be what you agree upon with that supplier.

Payments

Payments are accepted at any customer office or authorized payment location. Payments may be mailed to: National Grid, PO BOX 371382, PITTSBURGH, PA 15250-7382. Please write your Customer ID on the face of your check and make payable to National Grid.

Billing Credits

Paperless Billing Credit: A credit provided to Customers who elect to receive their bills electronically through the Company's Online Bill-Pay Program.

From: [Joseph Scibelli](#)
To: [Mengqian Gao](#)
Cc: [Hess, John](#); [Gross, Marc](#); [Brian Murrell](#); [Boekenheide, Mark](#); [Randy Dvorak](#); [Deb Ford](#); [Jonathan Mallie](#); [Ayesha Husain](#); [Michelle DeCarlo](#); [Jeff Arcara](#); [Joel Richardson](#); [Adam Zuar](#); [Hoover, Benjamin](#); [McKenna, Elle](#); [Justin Tomkins](#)
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases
Date: Tuesday, December 5, 2023 3:04:19 PM
Attachments: [image003.png](#)
[image004.png](#)

Good Afternoon,

The load letter submitted has been approved and capacity for this project will be reserved until July 31st 2024. I will be sending you a "Will Serve Letter" to sign and return that has additional details. Regarding your question pertaining to supplying gas from Earle Ovington Blvd, there would be no issue on our end to supply a gas service from that main. Please be advised that you would have to have the existing service disconnected and there maybe charges for installing the new service depending on the scope of work.

Also, service installation would be contingent upon obtaining the necessary highway permits from the local municipality.

If you have any questions please do not hesitate to contact me.

Regards,

Join the Energy Efficiency movement! Visit nationalgridus.com to get information about National Grid's energy efficiency programs and incentives in your area.

Joe Scibelli

Lead Account Manager
Customer Gas Connections | Customer Sales & Solutions
Nationalgrid

1-516-545-4569
1-516-512-9704
joseph.scibelli@nationalgrid.com

-
If you smell gas, Gas Emergency, please call 1-800-490-0045
If you are looking for gas availability, please call 1-877-696-4743
If you are checking on the status of your gas service application, please call Customer Care at 1-833-359-0645
If you are requesting a new meter, please call 1-877-597-0426

Hicksville-Ops 3, 175 East Old Country Rd, Hicksville, NY 11801
nationalgridus.com | [Twitter](#) | [LinkedIn](#) | [Facebook](#)

From: Mengqian Gao <gaom@jbb.com>
Sent: Tuesday, December 5, 2023 1:21 PM
To: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Cc: Hess, John <John.Hess@Sands.com>; Gross, Marc <marc.gross@sands.com>; Brian Murrell <BMurrell@H2M.com>; Boekenheide, Mark <Mark.Boekenheide@Sands.com>; Randy Dvorak <randy.dvorak@populous.com>; Deb Ford <deb.ford@populous.com>; Jonathan Mallie <jonathan.mallie@populous.com>; Ayesha Husain <ayesha.husain@populous.com>; Michelle DeCarlo <decarlom@jbb.com>; Jeff Arcara <arcaraj@jbb.com>; Joel Richardson <JRichardson@H2M.com>; Adam Zuar <zuara@jbb.com>; Hoover, Benjamin <benjamin.hoover@moodynolan.com>; McKenna, Elle <EMcKenna@moodynolan.com>; Justin Tomkins <JTomkins@H2M.com>
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe. If you suspect this email is malicious, please use the 'Report Phish' button.

Hi Joe,

Just wanted to follow up on the below and see if there is any update on this. We also would like to check if we could pull the gas service from the gas main along the west side of the building (Earle Ovington BLVD)?

Regards,
Meng



Mengqian Gao // she, her, hers
Senior Project Engineer
Main 212.530.9300 Direct 212.441.4058

NEW YORK // BOSTON // PHILADELPHIA
JB&B | 80 Pine Street, New York, NY 10005
[WWW.JBB.COM](https://www.jbb.com) | SEE JB&B'S [CONFIDENTIALITY POLICY](#)

From: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Sent: Thursday, November 16, 2023 10:36 AM
To: Mengqian Gao <gaom@jbb.com>
Cc: Hess, John <John.Hess@Sands.com>; Gross, Marc <marc.gross@sands.com>; Brian Murrell <BMurrell@H2M.com>; Boekenheide, Mark <Mark.Boekenheide@Sands.com>; Randy Dvorak <randy.dvorak@populous.com>; Deb Ford <deb.ford@populous.com>; Jonathan Mallie <jonathan.mallie@populous.com>; Ayesha Husain <ayesha.husain@populous.com>; Michelle DeCarlo <decarlom@jbb.com>; Jeff Arcara <arcaraj@jbb.com>; Joel Richardson <JRichardson@H2M.com>; Adam Zuar <zuara@jbb.com>
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

Good Morning Mengqian,

Engineering has completed their review of your request and have submitted their recommendation to my Sr. Management for approval. I will advise you once a decision is rendered. In the meantime, if you have any questions please feel free to contact me.

Regards,

Join the Energy Efficiency movement! Visit nationalgridus.com to get information about National Grid's energy efficiency programs and incentives in your area.

Joe Scibelli

From: [Joseph Scibelli](#)
To: [Mengqian Gao](#)
Cc: [Adam Zuar](#); [Paray, Danny](#); [Jeff Arcara](#); [Degregorio, Paul](#); [Ruffini, Melvin](#); [Brian Murrell](#); [Richard McFadden](#); [Joel Richardson](#); [Derek Wilson](#); [Terri Elkowitz](#); [Gail Pesner](#); [Boekenheide, Mark](#)
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases
Date: Tuesday, July 23, 2024 8:17:32 AM
Attachments: [image002.png](#)
[image004.png](#)
[image005.png](#)

Some people who received this message don't often get email from joseph.scibelli@nationalgrid.com. [Learn why this is important](#)

You're welcome

Join the Energy Efficiency movement! Visit nationalgridus.com to get information about National Grid's energy efficiency programs and incentives in your area.

Joe Scibelli

Lead Account Manager
Customer Gas Connections | Customer Sales & Solutions
Nationalgrid

1-516-545-4569
1-516-512-9704
joseph.scibelli@nationalgrid.com

-
If you smell gas, Gas Emergency, please call 1-800-490-0045
If you are looking for gas availability, please call 1-877-696-4743
If you are checking on the status of your gas service application, please call Customer Care at 1-833-359-0645
If you are requesting a new meter, please call 1-877-597-0426

Hicksville-Ops 3, 175 East Old Country Rd, Hicksville, NY 11801
nationalgridus.com | [Twitter](#) | [LinkedIn](#) | [Facebook](#)

From: Mengqian Gao <gaom@jbb.com>
Sent: Tuesday, July 23, 2024 8:15 AM
To: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Cc: Adam Zuar <zuara@jbb.com>; Paray, Danny <dparay@rxr.com>; Jeff Arcara <carcaraj@jbb.com>; Degregorio, Paul <pdegregorio@rxr.com>; Ruffini, Melvin <mel.ruffini@sands.com>; Brian Murrell <BMurrell@H2M.com>; Richard McFadden <mcfaddenr@jbb.com>; Joel Richardson <JRichardson@H2M.com>; Derek Wilson <Derek.Wilson@nationalgrid.com>; Terri Elkowitz <TElkowitz@VHB.com>; Gail Pesner <gpesner@vhb.com>; Boekenheide, Mark <Mark.Boekenheide@Sands.com>
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe. If you suspect this email is malicious, please use the 'Report Phish' button.

Got it, thanks for the clarification.

Regards,
Meng



Mengqian Gao // she, her, hers
Senior Project Engineer
Main 212.530.9300 Direct 212.441.4058

NEW YORK // BOSTON // PHILADELPHIA
JB&B | 80 Pine Street, New York, NY 10005
WWW.JBB.COM | SEE JB&B'S [CONFIDENTIALITY POLICY](#)

From: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Sent: Monday, July 22, 2024 5:53 PM
To: Mengqian Gao <gaom@jbb.com>
Cc: Adam Zuar <zuara@jbb.com>; Paray, Danny <dparay@rxr.com>; Jeff Arcara <carcaraj@jbb.com>; Degregorio, Paul <pdegregorio@rxr.com>; Ruffini, Melvin <mel.ruffini@sands.com>; Brian Murrell <BMurrell@H2M.com>; Richard McFadden <mcfaddenr@jbb.com>; Joel Richardson <JRichardson@H2M.com>; Derek Wilson <Derek.Wilson@nationalgrid.com>; Terri Elkowitz <TElkowitz@VHB.com>; Gail Pesner <gpesner@vhb.com>; Boekenheide, Mark <Mark.Boekenheide@Sands.com>
Subject: Re: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

That's the latest, the email extends it.

Get [Outlook for iOS](#)

From: Mengqian Gao <gaom@jbb.com>
Sent: Monday, July 22, 2024 5:50:08 PM
To: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Cc: Adam Zuar <zuara@jbb.com>; Paray, Danny <dparay@rxr.com>; Jeff Arcara <carcaraj@jbb.com>; Degregorio, Paul <pdegregorio@rxr.com>; Ruffini, Melvin <mel.ruffini@sands.com>; Brian Murrell <BMurrell@H2M.com>; Richard McFadden <mcfaddenr@jbb.com>; Joel Richardson <JRichardson@H2M.com>; Derek Wilson <Derek.Wilson@nationalgrid.com>; Terri Elkowitz <TElkowitz@VHB.com>; Gail Pesner <gpesner@vhb.com>; Boekenheide, Mark <Mark.Boekenheide@Sands.com>
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe. If you suspect this email is malicious, please use the 'Report Phish' button.

Thanks Joe.

I noticed that the attached "Will Serve Letter" shows the previous expiration date instead of 12/31/2024. Could your please verify if the latest one is attached?

Regards,
Meng



Mengqian Gao // she, her, hers
Senior Project Engineer
Main 212.530.9300 Direct 212.441.4058

From: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Sent: Monday, July 22, 2024 3:39 PM
To: Mengqian Gao <gaom@jbb.com>
Cc: Adam Zuar <zuaa@jbb.com>; Paray, Danny <dparay@rxr.com>; Jeff Arcara <arcaraj@jbb.com>; Degregorio, Paul <pdegregorio@rxr.com>; Ruffini, Melvin <mel.ruffini@sands.com>; Brian Murrell <BMurrell@H2M.com>; Richard McFadden <mcfaddenr@jbb.com>; Joel Richardson <JRichardson@H2M.com>; Derek Wilson <Derek.Wilson@nationalgrid.com>; Terri Elkowitz <TElkowitz@VHB.com>; Gail Pesner <gpesner@vhb.com>; Boekenheide, Mark <Mark.Boekenheide@Sands.com>
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

Good Afternoon,

As requested, the attached "Will Serve Letter's" expiration date has been extended until 12/31/2024. Once you apply it will be extended for an additional year from the receipt of the completed application(s).

If we don't receive an application by the expiration date mentioned above the job will be cancelled and the gas reserved for this project will be released back into our system and you will have to reapply for gas service.

In the meantime, if you have any questions please feel free to contact me.

Regards,

Join the Energy Efficiency movement! Visit nationalgridus.com to get information about National Grid's energy efficiency programs and incentives in your area.

Joe Scibelli

Lead Account Manager
Customer Gas Connections | Customer Sales & Solutions
Nationalgrid

1-516-545-4569
1-516-512-9704
joseph.scibelli@nationalgrid.com

If you smell gas, Gas Emergency, please call 1-800-490-0045
If you are looking for gas availability, please call 1-877-696-4743
If you are checking on the status of your gas service application, please call Customer Care at 1-833-359-0645
If you are requesting a new meter, please call 1-877-597-0426

Hicksville-Ops 3, 175 East Old Country Rd, Hicksville, NY 11801
nationalgridus.com | [Twitter](#) | [LinkedIn](#) | [Facebook](#)

From: Mengqian Gao <gaom@jbb.com>
Sent: Monday, July 22, 2024 10:37 AM
To: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Cc: Adam Zuar <zuaa@jbb.com>; Paray, Danny <dparay@rxr.com>; Jeff Arcara <arcaraj@jbb.com>; Degregorio, Paul <pdegregorio@rxr.com>; Ruffini, Melvin <mel.ruffini@sands.com>; Brian Murrell <BMurrell@H2M.com>; Richard McFadden <mcfaddenr@jbb.com>; Joel Richardson <JRichardson@H2M.com>; Derek Wilson <Derek.Wilson@nationalgrid.com>; Terri Elkowitz <TElkowitz@VHB.com>; Gail Pesner <gpesner@vhb.com>; Boekenheide, Mark <Mark.Boekenheide@Sands.com>
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe. If you suspect this email is malicious, please use the 'Report Phish' button.

Hi Joe,

I hope you had a great weekend. We would like to kindly request an extension on the Will Serve Letter, as discussed in our June meeting. Thank you!

Regards,
Meng



Mengqian Gao // she, her, hers
Senior Project Engineer
Main 212.530.9300 Direct 212.441.4058

NEW YORK // BOSTON // PHILADELPHIA
JB&B | 80 Pine Street, New York, NY 10005
WWW.JBB.COM | SEE JB&B'S [CONFIDENTIALITY POLICY](#)

From: Joseph Scibelli <Joseph.Scibelli@nationalgrid.com>
Sent: Monday, July 1, 2024 10:30 AM
To: Mengqian Gao <gaom@jbb.com>; Derek Wilson <Derek.Wilson@nationalgrid.com>
Cc: Adam Zuar <zuaa@jbb.com>; Paray, Danny <dparay@rxr.com>; Jeff Arcara <arcaraj@jbb.com>; Degregorio, Paul <pdegregorio@rxr.com>; Ruffini, Melvin <mel.ruffini@sands.com>; Brian Murrell <BMurrell@H2M.com>; Richard McFadden <mcfaddenr@jbb.com>; Joel Richardson <JRichardson@H2M.com>
Subject: RE: [EXTERNAL] Las Vegas Sands Corporation - Sands Gaming Resort - Natural Gas Load Increases

Good Morning,

No updates to report at this time I will check with my engineering area and get back to you. Probably won't be till middle of next week. Many people off for vacation this week.

Regards,

Join the Energy Efficiency movement! Visit nationalgridus.com to get information about National Grid's energy efficiency programs and incentives in your area.