			SE	ERVICE	SWITCHBOARD DESIGNATION :	PRIMARY SERVICE SV	VITCHGEAR												
				VOLT	AGE 13200V]	NEU			100%					BU	S RATI	NG	600 A	1
			P	HASE/V	VIRE 3Ø, 4W]	MIN. K.A.I.C.	SYM	14	4 K.A.I.(С.				MAIN LU	GS ON		600 A	1
				REMA	RKS														
	FEE	DER SI	NITCH			QUANTITY FEEDER (EACH SET)													
NO.	SW.	SW.	FUSE	FUSE	LOAD DESCF	RIPTION	CONNECTED	OF FEEDE		PH/	ASE LEGS	N	EUTRAL	(GROUND)	INSUL	ATION	С
NO.	SIZE	TYPE	TUSE	TYPE			,	(SETS	S)	NO.	SIZE	NO.	SIZE	NO.	SIZ	E	TY	ΈE	
2	-	-	-	-	FIRE PUMP CONNECTION		129.70				REFER TO	O DRAW	'ING E-701 F	FOR FE	EDER RE	EQUIRE	EMENTS	5	
3	600A	-	150A	E	EXISTING 20 DUNNIGAN SER	VICE SWITCH	2646.36				REFER TO	D DRAW	'ING E-701 F	FOR FE	EDER RE	EQUIRE	EMENTS	5	
4	600A	-	80A	E	PHOTOVOLTAIC SYSTEM CC	NNECTION	-		F	REFER ⁻	ΤΟ ΡΗΟΤΟΥ	OLTAIC	SYSTEM DF	RAWING	S FOR F	EEDE	R REQL	JIREMENT	rs
5	600A	-	150A	Е	SWITCHBOARD 'SWBD-N' VIA	A XFMR 'T-A'	1987.25				REFER TO	D DRAW	'ING E-701 F	OR FE	EDER RE	EQUIRE	EMENTS	;	
6	600A	-	40A	E	PANEL 'DP-10' VIA XFMR 'T-B	1	169.92				REFER TO	D DRAW	'ING E-701 F	FOR FEI	EDER RE	EQUIRE	EMENTS	;	
7	-	-	-	-	FUTURE SWITCH		-												
-																			

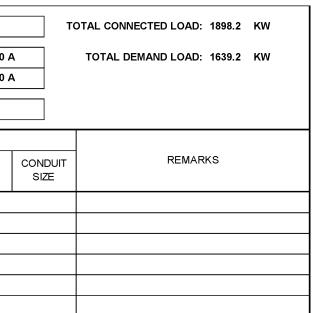
		D	ISTRIBL	JTION E	BOARD DESIGNATION :	SWBD-N											
			VOLT	AGE	480Y/277 V]	NEUT		1	100%					BUS RA		3000
		Р	HASE/V	VIRE	3Ø, 4W]	MIN. K.A.I.C.	SYM	65 K	K.A.I.0	.		I	MAIN CI	IRCUIT BREA		3000 /
			REMA	RKS													
	CIRCUIT	BREAKE	२					QUANTITY	,				FEE	DER (E	ACH SET)		
NO.	FRAME	RATING/	TYPE		LOAD DESC	RIPTION	LOAD (kVA)	OF FEEDERS		PHA	SE LEGS	N	EUTRAL	G	ROUND	INSU	JLATION
NO.		POLES						(SETS)		NO.	SIZE	NO.	SIZE	NO.	SIZE	1 т	YPE
1	225A	225A/3P		PAN	EL 'EM-LS-H' VIA 'ATS-LS	5'	23.44				REFER TO	DRAW	ING E-701 F	OR FEE	DER REQUI	REMENT	S
2	800A	800A/3P		PAN	EL 'EM-EQ-H' VIA 'ATS-E	Q'	432.80				REFER TO	DRAW	ING E-701 F	OR FEE	DER REQUI	REMENT	'S
3	400A	400A/3P		PAN	EL 'EM-AS/RS-H' VIA 'AT	S-AS/RS'	141.34				REFER TO	DRAW	ING E-701 F	OR FEE	DER REQUI	REMENT	S
4	1200A	1200A/3P		DIST	RIBUTION PANELBOARD) 'DP-AS/RS-1'	604.83				REFER TO	DRAW	ING E-701 F	OR FEE	DER REQUI	REMENT	S
5	1200A	800A/3P		DIST	RIBUTION PANELBOARE) 'DP-AS/RS-2'	279.09				REFER TO	DRAW	ING E-701 F	OR FEE	DER REQUI	REMENT	S
6	800A	800A/3P		PAN	EL 'DP-OFFICE'		416.67				REFER TO	DRAW	ING E-701 F	OR FEE	DER REQUI	REMENT	S

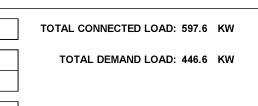
			DI	STRIBL	ITION BOARD DESIGNATION :	EMDP											TOTAL CONNECTED LOAD: 597.6 KW
				VOLT/	AGE 480Y/277 V		NEUT	RAL	100%					BUS RA	TING 1200	A	TOTAL DEMAND LOAD: 446.6 KW
			PH	HASE/W	/IRE 3Ø, 4W		MIN. K.A.I.C.	SYM 6	5 K.A.I.C.				MAIN CIF	RCUIT BREA	KER 1200	A	
	CIRCU	JIT BR	REAKER	1	QUANTITY FEEDER (EACH SET)												
NC		/1 - 1	ATING/	TYPE	LOAD DESCR	IPTION	CONNECTED LOAD (kVA)	OF FEEDERS	PHAS	E LEGS	N	EUTRAL	Gł	ROUND	INSULATION	CONDUIT	- REMARKS
	·	" P	OLES					(SETS)	NO.	SIZE	NO.	SIZE	NO.	SIZE	TYPE	SIZE	
1	225,	A 22	25A/3P		PANEL 'EM-LS-H' VIA 'ATS-LS	,	23.44			REFER TC	DRAW	/ING E-701 F	OR FEEI	DER REQUIF	REMENTS		
2	800	A 80	00A/3P		PANEL 'EM-EQ-H' VIA 'ATS-EC	ב'	432.80 REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS										
3	400	A 40	00A/3P		PANEL 'EM-AS/RS-H' VIA 'ATS	S-AS/RS'	141.34 REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS										
4	-		-		SPACE & PROVISIONS		-						•				

		C	ISTRIBU	JTION BOARD DESIGNATION :	EM-EQ-H											
			VOLT	AGE 480Y/277 V	7	NEU		100%					BUS RA		800 A	•
		Р	HASE/V	VIRE 3Ø, 4W		MIN. K.A.I.C.	SYM 6	5 K.A.I.	.C.			MAIN CI	RCUIT BREA		600 A	<u>،</u>
			REMA	RKS												
	CIRCUIT	BREAKE	२		CONNECTED OF DHASE LEGS NEUTRAL CROUND											
NO.	FRAME	RATING/	TYPE	LOAD DESC	CRIPTION	CONNECTED LOAD (kVA)	FEEDERS		ASE LEGS	N	EUTRAL		ROUND			C
		POLES					(SETS)	NO.	SIZE	NO.	SIZE	NO.	SIZE	IY	ΈE	
1	-	-		SPACE & PROVISIONS	(SETS) NO. SIZE							-				
2	400A	400A/3P		PANEL 'EM-QC-10'		393.24			REFER TC	DRAW	ING E-703 F	OR FEE	DER REQUI	REMENTS	;	
3	100A	60A/3P		ELEVATOR DISCONNECT		17.46			REFER TC	DRAW	ING E-703 F	OR FEE	DER REQUI	REMENTS	;	
4	-	-		SPACE & PROVISIONS		-						-				
5	-	-		SPACE & PROVISIONS		-						-				
6	-	-		SPACE & PROVISIONS		-						-				
7	150A	150A/3P		PANEL 'EM-EQ-L' VIA XFMR	'T-EM-EQ'	22.10			REFER TC	DRAW	ING E-703 F	OR FEE	DER REQUI	REMENTS	;	
8	-	-		SPACE & PROVISIONS	-						-					
9	-	-		SPACE & PROVISIONS												
10	-	-		SPACE & PROVISIONS		-						-				
11	-	-		SPACE & PROVISIONS		-						-				

		D	ISTRIBL	JTION BOARD DESIGNATION :	DP-ASRS-1									т	TOTAL CONNECTED LOAD: 604.8 KW
			VOLT	AGE 480Y/277 V		NEUT	RAL	100%				BUS RA	TING 1200	Α	TOTAL DEMAND LOAD: 604.8 KW
		P	HASE/V	VIRE 3Ø, 4W	N	11N. K.A.I.C. \$	SYM 3	5 K.A.I.C.			MAII	N CIRCUIT BREA	KER 1200	A	
			REMA	RKS	-										
	CIRCUIT	BREAKER	२				QUANTITY				FEEDEF	R (EACH SET)			
NO.	FRAME	RATING/	TYPE	LOAD DESCR	RIPTION	LOAD (kVA)	OF FEEDERS	PHASE	LEGS	NEUTRAL		GROUND	INSULATION	CONDUIT	REMARKS
NO.	FRAIVIE	POLES	TIFE				(SETS)	NO.	SIZE	NO. SIZE	E N	IO. SIZE	TYPE	SIZE	
1	200A	200A/3P		AS/RS SRM #2		141.34		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
2	200A	200A/3P		AS/RS SRM #3		141.34		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
3	100A	100A/3P		AS/RS MCP #1		20.78		R	EFER TO I	DRAWING E-20	1 FOR I	FEEDER REQUI	REMENTS		
4	100A	100A/3P		AS/RS MCP #2		20.78		R	EFER TO I	DRAWING E-20	1 FOR I	FEEDER REQUI	REMENTS		
5	100A	100A/3P		AS/RS MCP #3		20.78		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
6	100A	100A/3P		AS/RS MCP #4		20.78		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
7	100A	100A/3P		AS/RS MCP #5		20.78		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
8	100A	100A/3P		AS/RS MCP #6		20.78		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
9	100A	100A/3P		AS/RS MCP #7		20.78		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
10	250A	250A/3P		AS/RS VRC		176.67		R	EFER TO I	DRAWING E-20	2 FOR I	FEEDER REQUI	REMENTS		
11	-	- SPACE & PROVISIONS - -													
12	-	-		SPACE & PROVISIONS		-					-				
13	-	-		SPACE & PROVISIONS		-					-				
14	-	-		SPACE & PROVISIONS		-					-				

		PRIMARY SI	ERVICE	CALC	ULATION	<u>s</u>			
		LOAD TYPE			D	EMAN) LOAD		
		LIGHTING	50.7	kW	63.4	kW	(125%)		
		LIGHTING+RECEPT in Guestrooms	0.0	kW	0.0	kW			
CONDUIT	REMARKS	LARGEST MOTOR	309.4	kW	386.8	kW	(125%)	TOTAL CONNECTED LOAD =	4933.2 kW
SIZE		OTHER MOTORS	983.1	kW	983.1	kW	(100%)		
		RECEPTACLES	60.2	kW	35.1	kW	(>10kW,50%)	TOTAL DEMAND LOAD =	3768.0 kW
		CONTINUOUS	164.2	kW	205.3	kW	(125%)		
;		HEATING	10.7	kW	10.7	kW	(100%)	PERCENT SPARE CAPACITY =	30 %
		NONCONTINUOUS	812.5	kW	812.5	kW	(100%)		
		KITCHEN EQPT (COMMERCIAL)	0.0	kW	0.0	kW	(65.0%)	MINIMUM BALANCED 3-PHASE FEEDER W/ SPARE	214.3 A
		DIVERSE/NONCOINCIDENTAL	2542.4	kW	1271.2	kW	(50.0%)	CAPACITY=	





т	DTAL CONNECTED LOAD: 432.8 KW
	TOTAL DEMAND LOAD: 242.0 KW
CONDUIT SIZE	REMARKS

		C	DISTRIBL	JTION	BOARD DESIGNATION :	DP-ASRS-2							
			VOLT	AGE	480Y/277 V		NEU		100%	,			
		Р	HASE/V	VIRE	3Ø, 4W		MIN. K.A.I.C.	SYM 3	5 K.A.I	.C.			MAI
			REMA	RKS									
	CIRCUIT	BREAKE	R					QUANTITY				FEE	DEF
NO.	FRAME	RATING/	TYPE		LOAD DESCR	RIPTION	LOAD (kVA)	OF FEEDERS	PH	IASE LEGS	N	EUTRAL	
		POLES						(SETS)	NO.	SIZE	NO.	SIZE	N
1	100A	90A/3P		PAN	NEL 'LP-AS/RS' VIA XFMR '	'T-AS/RS'	29.04			REFER TO	DRAW	'ING E-702 F	OR I
2	150A	125A/3P		AIR	COMPRESSOR (60HP)		72.50			REFER TO	DRAW	'ING E-702 F	OR I
3	150A	125A/3P		AIR	COMPRESSOR (60HP) - S	STANDBY	72.50			REFER TO	DRAW	'ING E-702 F	OR I
4	100A	20A/3P		AIR	COMPRESSOR DRYER		2.50			REFER TO	DRAW	'ING E-702 F	OR I
5	100A	90A/3P		PAN	NEL 'LP-DOOR-A' VIA XFMF	r 'T-DOOR-A'	41.63			REFER TO	DRAW	'ING E-702 F	OR I
6	150A	150A/3P		PAN	NEL 'PP-M'		32.38			REFER TO	DRAW	'ING E-702 F	OR
7	100A	80A/1P		WA	TER HEATER 'WH(1)'		17.45		F	REFER TO DRA	WING	E-406 FOR E	BRAI
8	100A	60A/1P		WA	TER HEATER 'WH(2)'		11.10		F		WING	E-406 FOR E	BRA
9	-	-		SPA	ACE & PROVISIONS		-						-
10	-	-		SPA	ACE & PROVISIONS		-						-
1	1	1	1	· -· /				1					

		D	ISTRIBU		DP-10										т	OTAL CONNECTED LOAD: 169.9 KW
		DI	VOLTA HASE/W		NE MIN. K.A.I.			00% (.A.I.C.					BUS RA ⁻ RCUIT BREA			TOTAL DEMAND LOAD: 172.2 KW
		F I	REMA				25 K.									
	CIRCUIT	BREAKEF	2			QUANTI	TY				FE	EDER (EA	CH SET)			
NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPT	TION CONNECTE LOAD (kVA		≺s ⊨		E LEGS SIZE	NE NO.	EUTRAL	G NO.	ROUND	INSULATION TYPE	CONDUIT SIZE	REMARKS
1	225A	200A/3P		PANELBOARD 'PPH-10A'	51.07			F	REFER TO	DRAW	NG E-702	FOR FEE	DER REQUIF	REMENTS		
2	-	-		SPACE & PROVISIONS	0.00							-				
3	400A	300A/3P		PANELBOARD 'DB' VIA XFMR 'T-'	-10' 68.92			F	REFER TO	DRAW	NG E-702	FOR FEE	DER REQUIF	REMENTS		
4	100A	100A/3P		AS/RS MCP #9	20.78			F	REFER TO	DRAW	NG E-209	FOR FEE	DER REQUIF	REMENTS		
5	100A	100A/3P		AS/RS MCP #10	20.78 REFER TO DRAWING E-209 FOR FEEDER REQUIREMENTS									REMENTS		
6	225A	200A/3P		PANELBOARD 'PPH-10C'	8.36 REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS											
7	-	-		SPACE & PROVISIONS	-											
8	-	-		SPACE & PROVISIONS	-							-				

		L	ISTRIBU	JIION E	BOARD DESIGNATION :	DB						
			VOLT	AGE	208Y/120 V]	NEUT		100%			
		Р	HASE/V	VIRE	3Ø, 4W	-	MIN. K.A.I.C.	SYM 2	2 K.A.I.	C.		Ν
						1						
			REMA	RKS								
	CIRCUIT	BREAKE	२					QUANTITY				FEE
		RATING/	D /DE	1	LOAD DESCR	RIPTION	CONNECTED LOAD (kVA)	OF FEEDERS	PH	ASE LEGS	N	EUTRAL
NO.	FRAME	POLES	TYPE					(SETS)	NO.	SIZE	NO.	SIZE
1	150A	150A/3P		PAN	IELBOARD 'LP-10A'		40.10			REFER TC	DRAW	NG E-702 FC
2	100A	100A/3P		GUA	ARD BOOTH PANELBOAR	D	28.82			REFER TO	DRAW	NG E-702 FC
3	-	-		SPA	CE & PROVISIONS		-					-
4	-	-		SPA	CE & PROVISIONS		-					-
5	-	-		SPA	CE & PROVISIONS		-					-
6	-	-		SPA	CE & PROVISIONS		-					-

		C	ISTRIBU	JTION E	BOARD DESIGNATION :	DP-OFFICE							
			VOLT	AGE	480Y/277 V		NEUT	RAL	100%				
		Р	HASE/W	VIRE	3Ø, 4W]	MIN. K.A.I.C.	SYM 2	5 K.A.I	.C.			M
			LOCA	TION			A		EELEC	TRICAL ROOM	1		
	CIRCUIT	BREAKE	२					QUANTITY				FEE	ΞD
NO.	FRAME	RATING/	TYPE		LOAD DESCR	RIPTION	CONNECTED LOAD (kVA)	OF FEEDERS	PH	ASE LEGS	N	EUTRAL	
		POLES						(SETS)	NO.	SIZE	NO.	SIZE	
1	225A	225A/3P		PAN	JELBOARD 'PP-A' VIA XFN	IR 'T-OFFICE'	95.48			REFER TO	DRAW	ING E-702 F	-0
2	400A	300A/3P		PAN	IELBOARD 'LP-A'		139.13			REFER TO	DRAW	ING E-702 F	-0
3	100A	30A/3P		ROC	OFTOP UNIT 'RTU-1'		21.62			REFER TO	DRAW	ING E-307 F	-0
4	100A	25A/3P		ROC	OFTOP UNIT 'RTU-2'		15.80			REFER TO	DRAW	ING E-307 F	-0
5	100A	25A/3P		ROC	OFTOP UNIT 'RTU-3'		15.80			REFER TO	DRAW	ING E-307 F	-0
6	100A	15A/3P		ROC	OFTOP UNIT 'RTU-4'		10.81			REFER TO	DRAW	ING E-307 F	-0
7	100A	15A/3P		ROC	OFTOP UNIT 'RTU-5'		10.81			REFER TO	DRAW	ING E-307 F	-0
8	225A	225A/3P		PAN	IELBOARD 'PP-B' VIA XFN	1R 'T-B'	107.24			REFER TO	DRAW	ING E-702 F	-0
9	-	-		SPA	CE & PROVISIONS		-						-
10	-	-		SPA	CE & PROVISIONS		-						-

NOTES:

- REFER TO CONTRACT DRAWING F-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
- 2. REFER TO CONTRACT DRAWINGS F-701, F-702, AND F-703 FOR ELECTRICAL ONE-LINE DIAGRAMS.
- 3. ALL 277/480V AND 120/208V FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL BE ALUMINUM. CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND APPROPRIATELY SIZE CONDUCTORS AND ASSOCIATED CONDUITS BASED ON THE 2017 NATIONAL ELECTRIC CODE.
- 4. ALUMINUM CONDUCTORS SHALL BE UL LISTED AND COMPLY WITH ASTM B800, ASTM B801, UL 486C, AND ANSI H35.2-2017. INSTALLATION OF ALUMINUM CONDUCTORS SHALL BE INSTALLED IN COMPLIANCE WITH ANSI/NECA/AA 104-2012.
- 5. ALL SPLICES, TERMINATIONS, TAPS, AND CONDUCTOR CONNECTORS SHALL BE COMPATIBLE WITH CONDUCTOR MATERIAL. USE OXIDE INHIBITOR IN EACH SPLICE, TERMINATION, AND TAP FOR ALUMINUM CONDUCTORS.

					т	DTAL CONNECTED LOAD: 279.1 KW
	BUS RA	TING	800 A			TOTAL DEMAND LOAD: 199.3 KW
N C	RCUIT BREA	KER	800 A			
R (E.	ACH SET)					
G	ROUND	INS	ULATION	CON	DUIT	REMARKS
10.	SIZE		TYPE	SI	ZE	
FEE	DER REQUIF	REMEN	ITS			
FEE	DER REQUIF	REMEN	ITS			
FEE	DER REQUIF	REMEN	ITS			
FEE	DER REQUIF	REMEN	ITS			
FEE	DER REQUIF	REMEN	ITS			
FEE	DER REQUIF	REMEN	ITS			
NCH	I CIRCUIT RE	QUIRE	MENTS			
NCH	I CIRCUIT RE	QUIRE	MENTS			

			1	OTAL CONNECTED LOAD: 68.9 KW			
BUS RATING MAIN CIRCUIT BREAKER				TOTAL DEMAND LOAD: 68.9 KW			
3	DER (EACH SET)						
	GROUND	INSULATION	CONDUIT	REMARKS			
	NO. SIZE	TYPE	SIZE				
C		REMENTS					
C	OR FEEDER REQUIREMENTS						
-							
-							
-							
_							

				TOTAL CONNECTED LOAD: 416.7 KW				
BUS RATING 800 A			TOTAL DEMAND LOAD: 396.7 KW					
IAIN CIRCUIT BREA	800 A	800 A						
DER (EACH SET)	CH SET)							
GROUND	GROUND INSULATION SIZE TYPE		CONDUIT SIZE		REMARKS			
NO. SIZE								
DR FEEDER REQUI	REMEN	ITS						
DR FEEDER REQUIREMENTS								
DR FEEDER REQUIREMENTS								
DR FEEDER REQUIREMENTS								
DR FEEDER REQUIREMENTS								
DR FEEDER REQUIREMENTS								
DR FEEDER REQUI	REMEN	ITS						
DR FEEDER REQUI	REMEN	ITS						



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MANHATTAN BEER DISTRIBUTORS 20 DUNNIGAN DRIVE SUFFERN, NEW YORK

KEY PLAN							
REV	DESCRIPTION	DATE					
	ISSUED FOR DOB SUBMISSION	09/10/2021					
	ISSUED FOR BID	10/15/2021					
	ISSUED FOR PROGRESS	01/18/2022					
	ISSUED FOR BIDINSTRUCTION	08/36/2022					
DRAWN BY :		M.DIMATTIA					
CHECKED BY	 :	B.NEMCHEK					
APPROVED B		J.MIZRAHI					
DATE :		09/10/21					
SCALE :		N.T.S.					
DRAWING TIT							
SCHEDULES SHEET 1 OF 6							

DWG NUMBER :

E-601

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.