						I		* ELIDABOLI AND INICTALL OF OLT (DE O.T.)			
PANEL DESIGNATION: LOCATION	: ADMIN	OFF	CE ELE	CTRICAL	. ROOM	REMA	REMARKS: * FURNISH AND INSTALL GFCI TYPE CIRCUIT BREAKER				
SERVICE	208Y/	120 V	3 PH	HASE, 4 V	VIRE	1					
	BUS RA		225 AN				1				
MAIN CIRC			150 AN				NEUTR	RAL BUS: 100%			
SCC F		ATING (SYM.):		10 k Al.C.			GRO	UNDING: EQUIPMENT GROUND BUS: YES			
050,405.70	MOUNTING:		SURFACE MOUNTED					ISOLATED GROUND BUS: NO			
SERVICE TO:	TRIP	NO.	A	В	С	NO.	TRIP	SERVICE TO:			
ELEVATOR CAB LIGHTING	20A	1	2000	4000		2	20A	IT ROOM RECEPTACLES			
ELEVATOR MACHINERY SPACE RECEPT	20A	3		1680	.=	4	20A	IT ROOM RECEPTACLES			
ELEVATOR MACHINERY SPACE LIGHTS	20A	5			1700	6	20A	IT ROOM RECEPTACLES			
ELEVATOR HOISTWAY RECEPT	20A	7	180			8	20A	SPARE			
ELEVATOR HOISTWAY LIGHTS	20A	9		200		10	20A	SPARE			
EMERGENCY ROOM EXHAUST 'EF-6'	20A	11			1028	12	20A	UNIT HEATER 'UH-1'			
SPARE	20A	13	528			14	20A	UNIT HEATER 'UH-2'			
LOADING DOCK DOOR T41	35A	15		2688		16	35A	LOADING DOCK DOOR T40			
LOADING DOCK DOOR T39	35A	17			2688	18	35A	LOADING DOCK DOOR T38			
LOADING DOCK DOOR T37	35A	19	2688			20	35A	LOADING DOCK DOOR T36			
LOADING DOCK DOOR T35	35A	21		2688		22	35A	LOADING DOCK DOOR T34			
LOADING DOCK DOOR T33	35A	23			2688	24	35A	LOADING DOCK DOOR T32			
LOADING DOCK DOOR T31	35A	25	1344			26	20A	SPARE			
SPARE	20A	27		0		28	20A	SPARE			
SPARE	20A	29			0	30	20A	SPARE			
SPARE	20A	31	0			32	20A	SPARE			
SPARE	20A	33		0		34	20A	SPARE			
SPARE	20A	35			0	36	20A	SPARE			
SPARE	20A	37	0			38	20A	SPARE			
SPARE	20A	39		0		40	20A	SPARE			
SPARE	20A	41			0	42	20A	SPARE			
TOTAL CONNECTED LOAD PER	TOTAL CONNECTED LOAD PER PHASE (kVA)			7.26	8.10						
TOTAL CONNE	CTED L	DAC	22.10 KVA			61	.3 A				
TOTAL DE	MAND L	DAC		23.58 KV	4	65	5.4 A				

PANEL DESIGNATION:	LOCATION: EM	LOCATION: EMERGENCY ELECTRICAL ROOM							REMARKS:				
	SERVICE: 480	0Y/27	7 V	3 PH	IASE, 4 V	/IRE							
EM-ASRS-H	MAIN BUS	IN BUS RATING:			400 AMPS								
	MAIN CIRCUIT BREAKER:			400 AV				NEUTF	RAL BUS:				
		ATING (SYM.):		65 k A.I.C.				GRO	UNDING:	EQUIPMENT GROUND BUS: YES			
050/405 TO		TAUC		SURFACE MOUNTED					1	JISOLATED GROUND BUS: NO			
SERVICE TO:	TR	RIP N	NO.	Α	В	С	NO.	TRIP		SERVICE TO:			
			1	47112			2	20A		SPARE			
SRM#1	200	0A	3		47112		4	20A		SPARE			
			5			47112	6	20A		SPARE			
SPARE	20)A	7	0			8	20A		SPARE			
SPARE	20)A	9		0		10	20A	SPARE				
SPARE	20)A	11			0	12	20A		SPARE			
SPARE	20)A	13	0			14	20A		SPARE			
SPARE	20)A	15		0		16	20A		SPARE			
SPARE	20)A	17			0	18	20A		SPARE			
SPACE & PROVISIONS	-	-	19	0			20	-		SPACE & PROVISIONS			
SPACE & PROVISIONS	-	-	21		0		22	-		SPACE & PROVISIONS			
SPACE & PROVISIONS	-	-	23			0	24	-		SPACE & PROVISIONS			
SPACE & PROVISIONS	-	-	25	0			26	-		SPACE & PROVISIONS			
SPACE & PROVISIONS	-	-	27		0		28	-		SPACE & PROVISIONS			
SPACE & PROVISIONS	SPACE & PROVISIONS -		29			0	30	•		SPACE & PROVISIONS			
TOTAL CONNECTED	TOTAL CONNECTED LOAD PER PHASE (kVA)				47.11	47.11							
Т	OTAL CONNECTED	D LOA	4D	1	41.34 KV	Α	170.0 A						
	TOTAL DEMAND	D LOA	4D	1	76.67 KV	Α	21:	2.5 A					

Т		REMARKS:								
PANEL DESIGNATION:	LOCATION:	10 DUI	NNIGA	N ELEC	N ELECTRICAL ROOM			-KK)		
SERVICE:			277 V	3 PH	VIRE					
EM-QC-10	MAIN	400 AN								
	MAIN CIRCUIT BREAKER:			400 AN			NEUTF	RAL BUS: 100%		
	SCC RA			14 k Al.C.				GRO	UNDING: EQUIPMENT GROUND BUS: YES	
	-	MOUN	_		ACE MOL				ISOLATED GROUND BUS: NO	
SERVICE TO:		TRIP	NO.	Α	В	ပ	NO.	TRIP	SERVICE TO:	
			1	23833			2			
QUICK CHARGER #1		60A	3		23833		4	60A	QUICK CHARGER #2	
			5			23833	6			
			7	23833			8			
QUICK CHARGER #3		60A	9		23833		10	60A	QUICK CHARGER #4	
			11			23833	12			
QUICK CHARGER #5			13	23833			14			
		60A	15		23833		16	60A	QUICK CHARGER #6	
			17			23833	18			
QUICK CHARGER #7			19	23833			20	60A		
		60A	21		23833		22		QUICK CHARGER #8	
			23			23833	24			
			25	23833			26			
QUICK CHARGER #9		60A	27		23833		28	60A	QUICK CHARGER #10	
			29			23833	30			
			31	11917			32	20A	SPARE	
QUICK CHARGER #11		60A	33		11917		34	20A	SPARE	
			35			11917	36	20A	SPARE	
SPARE		20A	37	0			38	20A	SPARE	
SPARE		20A	39		0		40	20A	SPARE	
SPARE	SPARE 20A 41					0	42	20A	SPARE	
TOTAL CONNECTED LOAD PER PHASE (kVA)					131.08 131.08 131.08					
TOTAL CONNECTED LOAD				393.24 KVA			47	3.0 A		
TOTAL DEMAND LOAD				196.62 KVA			23	6.5 A		

NOTE: ONLY 50% OF THE QUICK CHARGERS SHALL BE UTILIZED AT ANY GIVEN TIME.

PANEL DESIGNATION:	LOCATION: AS/F	NTION: AS/RS ELECTRICAL ROOM						
DD 3	SERVICE: 480	Y/277 V	3 PI	HASE, 4 V	VIRE	1		
PP-M	MAIN BUS			225 AMPS				
		N LUGS ONLY:		150 AMPS			NEUTF	RAL BUS: 100%
		RATING (SYM.): MOUNTING:		35 k A.I.C. SURFACE MOUNTED			GRO	OUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO
SERVICE TO:	TRI		A B C		NO.	TRIP	SERVICE TO:	
		1	4212			2		
THERMOCYCLER 'TRG-	4' 15/	4 3		4212		4	15A	THERMOCYCLER 'TRG-3'
		5			4212	6		
		7	2688			8		
THERMOCYCLER 'TMI-2	2' 15/	-		2688		10	15A	THERMOCYCLER 'TRA-3'
THE KING OF GLEIK THE		11		2000	2688	12	THE TANGET GLERY THAT	
SPARE	20/		0		2000	14	20A	SPARE
SPARE	20/			0		16	20A	SPARE
SPARE	20/				0	18	20A	SPARE
SPARE		19	0			20	20A	SPARE
SPARE		A 21		0		22	20A	SPARE
SPARE		A 23			0	24	20A	SPARE
ASRS SOUTHLIGHTING		A 25	1988			26	20A	ASRS SOUTHLIGHTING
ASRS SOUTHLIGHTING		A 27		920		28	20A	SPARE
SPARE	20/	A 29			0	30	20A	SPARE
ASRS SOUTHLIGHTING	20/	A 31	1975			32	20A	ASRS SOUTHLIGHTING
ASRS SOUTHLIGHTING	20/	A 33		1973		34	20A	CANOPY LIGHTING
CANOPY LIGHTING	20/	35			1404	36	20A	CANOPY LIGHTING
CANOPY LIGHTING	20/	37	518			38	20A	JANITOR'S CLOSET 120 AND TOILET 121 LIGHTING
NEW BUILDING ELECTRIC ROOM	I LIGHTING 20/	39		120		40	20A	AIR COMPRESSION AND FIRE PUMP LIGHTING
SPARE	20/	A 41			0	42	20A	SPARE
SPARE	20/	43	468			44	20A	CANOPY LIGHTING
ASRS SOUTHLIGHTING	20/	45		1388		46	20A	CANOPY LIGHTING
ASRS SOUTHLIGHTING		A 47			920	48	20A	SPARE
SPARE		A 49	0			50	20A	SPARE
SPARE	20/	A 51		0		52	20A	SPARE
SPARE	20/	A 53			0	54	20A	SPARE
TOTAL CONNECTE	D LOAD PER PHASE	(kVA)	11.85	11.85 11.30 9.22				
Т	OTAL CONNECTED	LOAD		32.38 KVA			3.9 A	
	TOTAL DEMAND	LOAD		Д	42	2.5 A		

PANEL DESIGNATION:	LOCATION: A	AS/RS ELECTRICAL ROOM					REMA	ARKS:	* FURNISH AND INSTALL GFCI TYPE CIRCUIT BREAKER	
LP-ASRS	SERVICE: 2	208Y/1 JS RA		3 PH 225 AN	IASE, 4 V	VIRE				
LI -ASINS		MAIN CIRCUIT BREAKER:			IPS			NEUTF	RAL BUS: 100%	
	SCC RAT	SCC RATING (SYM.): MOUNTING:		10 k A.I.C. SURFACE MOUNTED				CD0	UNDING: EQUIPMENT GROUND BUS: YES	
	1							GRO	ISOLATED GROUND BUS: NO	
SERVICE TO:	1	TRIP	NO.	Α	В	С	NO.	TRIP	SERVICE TO:	
AAP #1		20A	1	1200			2	20A	PLC #1	
AAP #2		20A	3		1200		4	20A	PLC #2	
AAP #3		20A	5			1200	6	20A	PLC #3	
PROFILE CHECK #1		20A	7	1200			8	20A	NETWORK PANEL	
PROFILE CHECK #2		20A	9		1200		10	20A	PRINT AND APPLY #1	
PROFILE CHECK #3		20A	11			1200	12	20A	PRINT AND APPLY #2	
OVERHEAD MONITOR #1		20A	13	1200			14	20A	PRINT AND APPLY #3	
OVERHEAD MONITOR #2		20A	15		1200		16	20A	PRINT AND APPLY #4	
OVERHEAD MONITOR #3		20A	17			2040	18	20A	AS/RS MAINTENANCE RECEPTACLES	
EXHAUST FAN 'EF-3' & 'EF-4'		20A	19	1273			20	20A	AS/RS MAINTENANCE RECEPTACLES	
SPARE		20A	21		540		22	20A	ELECT. & MECH. ROOM RECEPTACLES	
SPARE		20A	23			900	24	20A	RESTROOM RECEPTACLES	
SPARE		20A	25	1500			26	20A	HAND DRYER	
LOADING DOCK DOOR	T61	20A	27		1944		28	20A	* WATER FOUNTAIN	
LOADING DOCK DOOR	T62	20A	29			2023	30	20A	TWO (2) ELECTRIC COVE HEATERS 'ECH-A	
LOADING DOCK DOOR	T63	20A	31	2023			32	204	1 VVO (2) ELECTRIC COVE REATERS ECH-A	
LOADING DOCK DOOR	T64	20A	33		2023		34	20A	TWO (2) ELECTRIC COVE HEATERS 'ECH-A	
SPARE		20A	35			679	36	207	TWO (2) ELECTRIC COVE TIEATERS EGIFA	
SPARE		20A	37	1500			38	20A	HAND DRYER	
SPARE		20A	39		1500		40	20A	HAND DRYER	
SPARE		20A	41			1500	42	20A	HAND DRYER	
TOTAL CONNECTE	ED LOAD PER PHA	ASE ((VA)	9.90	9.61	9.54				
	TOTAL CONNECT	ED LO	DAD	29.04 KVA			80).6 A		
	TOTAL DEMA	ND LC	DAD		27.97 KV	4	77	'.6 A		

PANEL DESIGNATION:	LOCATION:						REM	ARKS:	
	SERVICE: 2	3 PH	HASE, 4 V	VIRE	1				
LP-DOOR-A	MAIN BUS RATING: MAIN CIRCUIT BREAKER:			225 AN					
				150 AN				NEUT	RAL BUS: 100%
	SCC RATING (SYM.):		10 k Al.C.			1	GRC	DUNDING: EQUIPMENT GROUND BUS: YES	
SERVICE TO:	<u> </u>	MOUN	_	SURFACE MOUNTED			110		ISOLATED GROUND BUS: NO SERVICE TO:
LOADING DOCK DOOR 1		TRIP 35A	NO. 1	A 2688	В	С	NO.	TRIP 35A	LOADING DOCK DOOR T29
LOADING DOCK DOOR 1		35A	3	2000	2688		4	35A	LOADING DOCK DOOR T27
LOADING DOCK DOOR 1		35A	5		2000	2688	6	35A	LOADING DOCK DOOR T25
SPARE	120	20A	7	0		2000	8	20A	SPARE
LOADING DOCK DOOR 1	T22	35A	9		2688		10	35A	LOADING DOCK DOOR T21
LOADING DOCK DOOR 1		35A	11		2000	2688	12	35A	LOADING DOCK DOOR T19
LOADING DOCK DOOR 1		35A	13	2688		2000	14	35A	LOADING DOCK DOOR T17
LOADING DOCK DOOR 1		35A	15		2688		16	35A	LOADING DOCK DOOR T15
LOADING DOCK DOOR 1	Г14	35A	17			2688	18	35A	LOADING DOCK DOOR T13
LOADING DOCK DOOR 1	Г12	35A	19	2688			20	35A	LOADING DOCK DOOR T11
LOADING DOCK DOOR 1	Γ10	35A	21		2688		22	35A	LOADING DOCK DOOR T09
LOADING DOCK DOOR 1	Г08	35A	23			2688	24	35A	LOADING DOCK DOOR T07
LOADING DOCK DOOR 1	Г60	35A	25	2688			26	35A	LOADING DOCK DOOR T05
LOADING DOCK DOOR 1	Γ04	35A	27		2688		28	35A	LOADING DOCK DOOR T03
LOADING DOCK DOOR 1	Γ02	35A	29			2688	30	35A	LOADING DOCK DOOR T01
SPARE		20A	31	2000			32	25A	ELECTRIC WALL HEATER 'EWH-5'
SPARE		20A	33		2000		34	207	ELECTRIC WALLFILM EWIPS
SPARE		20A	35			0	36	20A	SPARE
SPARE		20A	37	0			38	20A	SPARE
SPARE		20A	39		0		40	20A	SPARE
SPARE		20A	41			0	42	20A	SPARE
TOTAL CONNECTE	D LOAD PER PH	IASE (k	(VA)	12.75	15.44	13.44			
1	OTAL CONNECT	TED LO	DAD	41.63 KVA			11	5.6 A	1
	TOTAL DEMAND LOAD				34.11 KVA			1.7 A	1

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.

ARCHITECT

di Domenico + Partners LLP



Landscape Architecture Planning 3743 Crescent Street, 3rd Floor Long Island City, New York 11101 Tel 212-337-0400

Fax 212-337-3567

Architecture

CIVIL PLANNING ENGINEER



JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC 120 Bedford Road Armonk, New York 10504 Tel 914-273-5225 Fax 914-273-2102



Burns Engineering, PC. 1261 Broadway, Suite 708 New York, New York 10001 Tel 212-962-3503

STRUCTURAL ENGINEER







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KEY PLAN

	ISSUED FOR BIDINSTRUCTION	08/36/202
	ISSUED FOR PROGRESS	01/18/202
	ISSUED FOR BID	10/15/202
	ISSUED FOR DOB SUBMISSION	09/10/202
REV	DESCRIPTION	DATE

DRAWN BY :	M.DIMATTIA
CHECKED BY:	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE:	N.T.S.

DRAWING TITLE: **ELECTRICAL PANEL** SCHEDULES SHEET 2 OF 6

DWG NUMBER :

E-602

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.