

	SUITES POWER	
NORTH CLOSET	WEST CLOSET	SOUTH CLOSET
13.5"H x 8.5"W x 4.5"D QUADLOGIC ——		ROC
MINICLOSET—5 AS PER METERING CONTRACTOR QUANTITIES VARY PER NUMBER OF SUITES (TYPICAL)  PROVIDE 15A, 3P BREAKER FOR — EACH QUADLOGIC METER FED FROM SD PANEL (TYPICAL)		Mi
5 UNITS (3x100A & 2x125A)	7 UNITS————	5 UNITS ————————————————————————————————————
7 UNITS —	7 UNITS —	7 UNITS (6x100A & 1x125A) 6TH FLOO
8 UNITS SD-3 D	7 UNITS SD-6 D	8 UNITS SD-9 6 5TH FLOO
*20 RISER #3, 500A 8 UNITS ———	7 UNITS — 7 UNIT	*20 RISER #9, 500A 8 UNITS
8 UNITS SD-2 D	7 UNITS SD-5	8 UNITS SD-8 STD FLOO
16 RISER #2, 400A 8 UNITS —	14 RISER #5, 400A 8 UNITS	*16 RISER #8, 400A 8 UNITS —2ND FLOO
8 UNITS SD-1 D	3 UNITS SD-4	8 UNITS SD-7
<b>16</b> RISER #1, 400A	11 RISER #4, 400A	<sup>†</sup> <b>16</b> RISER #7, 400A
	TO TELEPHONE	DATA GATHERING
	BACKBOARD -	GATHERING PANEL P1 PL
SUITES POWER PANEL SCH	EDULE	

DESIGNATIO	N MAINS	BREAKERS AND FEEDERS	
SD		100A 2P (3C #1 RW90 FEEDERPLEX NUAL-35mmC(1-1/4") [3C+B]) OR	
	OR 400A, 3ø, 4W	125A 2P (3C #2/O RW90 FEEDERPLEX NUAL-41mmC(1-1/2") [3C+B]) - AS MARKED ON PLAN	
1	OTAL UNIT	COUNT: 151	
NOTE:			
		SMOKE SEAL AT ELECTRICAL CLOSET AND AT PANEL WITHIN SUITE.	
3. 'SD' F	PANEL ARE INDIVID	00A UNLESS NOTED OTHERWISE DUALLY METERED, SUPPLIED AND COMMISSIONED BY METERING CONTRACTOR. INSTALLED BY DIVISION 16. FOR MORE INFORMATION	
	METE	RING NOTES	
OTH		MENT (TRANSPONDERS, METER, METER BASES, CT'S, TEST BLOCK, AND CABINETS) ARE TO BE SUPPLIED BY UIREMENTS (FUSED DISCONNECTS, SPLITTER, DISCONNECT SWITCHED, AND DATA CABLING TO BE SUPPLIED BY TOR.	
2. DIVI	SION 16 TO INSTA	ALL METERING SYSTEM AND COMPONENTS.	
3. ALL	OW FOR COORDIN	ATION WITH METERING PROVIDER PRIOR TO ROUGH—IN OF METERING SYSTEM.	

8.	ALLOW FOR 12 CT DONUTS PER BOX, AND 2 CT DONUTS PER SUITE. CONTRACTOR TO PROVIDE AND INSTALL EMPTY METER BOX(S) TO METER SYSTEM SUPPLIER
9.	COORDINATE THE INSTALLATION OF SUITE METERING SYSTEM WITH CLIENT, ALLOW FOR ALL COSTS ASSOCIATED WITH COORDINATION
10.	. COORDINATE THE INSTALLATION OF TAMPERPROOF CHECK METERING TO CLIENT'S APPROVAL. ALLOW FOR COORDINATION WITH SYSTEM SUPPLIER
11.	ALL THE SD-* PANELS ARE INDIVIDUALLY METERED, SUPPLIED AND COMMISSIONED BY METERING CONTRACTOR. PANEL INSTALLATION & COORDINATION AT SITE BY DIV.16
	FIRE ALARM RISER NOTES
1.	. PROVIDE WIRING FOR SPRINKLER FLOW SWITCHES, PRESSURE SWITCHES AND SUPERVISED VALVES (NOT SHOWN ON ELECTRICAL DRAWINGS; EXACT LOCATIONS SHALL BE VERIFIED ON SITE) AND CONNECT TO CORRESPONDING ZONE OF FIRE ALARM SYSTEM.
2.	. PROVIDE END OF LINE RESISTOR FOR EACH ZONE.
3.	. SEE FLOOR PLANS FOR EXACT NUMBER AND LOCATION OF FIRE ALARM DEVICES.
4.	. FIRE ALARM PULL STATIONS SHALL BE RED IN COLOR. MOUNTING HEIGHT: 1200MM AFF.
5.	. SEE ALSO APPLICABLE NOTES DETAILS AND SEQUENCE OF OPERATION ON 'DETAILS' DRAWINGS.
6.	. ALL F/A SIGNAL WIRING SHALL BE WIRED TO CONFORM TO CLASS 'A' STANDARDS.
	FIRE ALARM SDEAKER CIRCUITS TO BE CLASS A

8. PROVIDE SEPARATE SECOND CLASS A SIGNAL CIRCUIT PER FLOOR SO THAT ONE CIRCUIT IS FOR THE CORRIDORS AND ONE 9. ALL FIRE ALARM RECALL FROM MANUAL DEVICES AND AUTOMATICALLY INITIATED DEVICES TO BE AS PER CODE AND TSSA 10. ADD CONTROL PANEL EXPANSION BOX AS PER MANUFACTURERS RECOMMENDATIONS AND SYSTEM REQUIREMENTS WITHIN PHASE 1 CACF TO HAVE A COMPLETE AND FULLY FUNCTIONAL INTERGRATED FIRE ALARM SYSTEM. 11. ALLOW FOR ALL COSTS ASSOCIATED WITH VERIFICATION AS REQUIRED.

ELECTRICAL SUPERVISION OF THE AUTOMATIC SPRINKLER SYSTEM IS REQUIRED TO INDICATE A SUPERVISORY SIGNAL ON THE FIRE ALARM ANNUNCIATOR/CONTROL PANEL FOR THE FOLLOWING:

 MOVEMENT OF A VALVE HANDLE THAT CONTROLS THE SUPPLY OF WATER TO SPRINKLERS, AND LOSS OF EXCESS WATER PRESSURE REQUIRED TO PREVENT FALSE ALARMS IN A WET SYSTEM,
 LOSS OF AIR PRESSURE IN A DRY PIPE SYSTEM,

 A TEMPERATURE APPROACHING THE FREEZING POINT IN A DRY PIPE VALVE ENCLOSURE, LOSS OF POWER TO A HEAT TRACING CABLE SERVING:

- AN EXIT OR MEANS OF EGRESS TO KEEP IT FREE FROM ICE AND SNOW

## FIRE ALARM SCHEDULE NOTES

. PROVIDE ON-OFF-AUTO SELECTOR SWITCHES IN ANNUNCIATOR PANEL FOR REMOTE CONTROL OF MUA'S, GARAGE EXHAUST FANS, PRESSURIZATION FANS, AND CONTROL FOR ALL ELEVATOR AND STAIR

PRESSURIZATION AS WELL AS THE AMENITY AREA ATRIUM SMOKE EXHAUST SYSTEM. 2. PROVIDE FAN SHUT-DOWN RELAYS TO DE-ENERGIZE ALL SUPPLY AIR FANS ON FIRE ALARM.

5. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SUPERVISED VALVES.

7. ALL AUDIBLE SIGNAL WIRING TO CONFORM TO CLASS 'A' SPECIFICATIONS.

8. IN SUITE WHERE APPLICABLE THE SPEAKERS SHALL BE CAPABLE TO BE SILENCED AS REQUIRED BY

RISER LOCATION AS PER  CODE REQUIREMENTS  (TYPICAL)  CLASS A WIRING  FIRE RATED JUNCTION  PER O.B.C REQUIREM  (TYPICAL)  CLASS A WIRING	N BOX AS MENTS ————————————————————————————————————		CLASS E	S WIRING		ROOF
	I		I		TOP GARI CHUTE	
		R	R R	R R	R	мрн
JB SF SV DB JB SIZES (TYPICA	0 00 00	R				7TH FLOOR
JB Z SF SV DB JB SP		R				6TH FLOOR
JB P ST SV DB JB SP	<b>S</b> JB JB	R	<b>6</b>	6 0		5TH FLOOR
		R				4TH FLOOR
JB V SF SV DB JB SP	<b>6</b> JB JB	R				3RD FLOOR
JB Z SF SV + JB JB S 2		R	6	<b>S</b>		2ND FLOOR
CENTRAL CONTROL PANEL C/W ANNUNCIATION IN CACF ROOM BATTERY AND CHARGER (FED FROM PANEL 'ECN')			STAIR 'A' LOWER  JB JB  S	JB JB  STAIR 'B' LOWER  JB JB  S  S  S  S  S  S  S  S  S  S  S  S  S	STAIR 'C' LOWER  JB JB  S  P	
JB SF SV	S JB JB	R	STAIR 'A' LOWER	RR RR STAIR 'B' LOWER	RR RR STAIR 'C' LOWER	1ST FLOOR
1-21mmC TO TELEPHONE BACKBOARD  1-21mmC TO ELEVATOR CONTROL PANEL  27mmC TO EACH ELEVATOR SHAFT  CONDUIT TO RETAIL AS PER DRAWINGS (AS APPLICABLE)			LOWEIN	LOTTLIN	LOWEIX	P1 PLAN

FIRE ALARM RISER

ELECT	RICALLY SUPERVISED VA	LVE SCHEDULE
SUPERVISED VALVE NO.	SYSTEM	LOCATION
S.V.#1	INCOMING FIRE MAIN ISOLATION	SPRINKLER ROOM
S.V.#2	INCOMING FIRE MAIN ISOLATION	SPRINKLER ROOM
S.V.#3	PRIVATE HYDRANT ISOLATION	SPRINKLER ROOM
S.V.#4	FIRE PUMP MAIN ISOLATION	SPRINKLER ROOM
S.V.#5	FIRE PUMP SUCTION	SPRINKLER ROOM
S.V.#6	FIRE PUMP DISCHARGE	SPRINKLER ROOM
S.V.#7	FIRE PUMP BY-PASS	SPRINKLER ROOM
S.V.#8	FIRE PUMP BY-PASS	SPRINKLER ROOM
S.V.#9	FIRE PUMP TEST HEADER	SPRINKLER ROOM
S.V.#10	WET SPRINKLER AND FSP COMBINATION MAIN	SPRINKLER ROOM
S.V.#11	DRY SPRINKLER SYSTEM HEADER	SPRINKLER ROOM
S.V.#12	DRY SPRINKLER SYSTEM P-1 NORTH	SPRINKLER ROOM
S.V.#13	DRY SPRINKLER SYSTEM P-1 CENTRE	SPRINKLER ROOM
S.V.#14)	DRY SPRINKLER SYSTEM P-1 SOUTH	SPRINKLER ROOM
S.V.#21	FIRE STANDPIPE RISER-1	P1 LEVEL
S.V.#22	FIRE STANDPIPE RISER-2	P1 LEVEL
S.V.#23	FIRE STANDPIPE RISER—3	P1 LEVEL
S.V.#24	FIRE STANDPIPE RISER-4	P1 LEVEL
S.V.#25	FIRE STANDPIPE RISER-5	P1 LEVEL
S.V.#26	FHC IN PARKING	P1 LEVEL
S.V.#27)	FHC IN PARKING	P1 LEVEL
S.V.#28	FHC IN PARKING	P1 LEVEL
S.V.#29	FHC IN PARKING	P1 LEVEL
S.V.#30	FHC IN PARKING	P1 LEVEL
S.V.#41	SPRINKLER SYSTEM ON GROUND FL. (SOUTH PART)	GROUND FLOOR
S.V.#42	SPRINKLER SYSTEM ON 2ND LEVEL (SOUTH PART)	2ND LEVEL
S.V.#43	SPRINKLER SYSTEM ON 3RD LEVEL (SOUTH PART)	3RD LEVEL
S.V.#44	SPRINKLER SYSTEM ON 4TH LEVEL (SOUTH PART)	4TH LEVEL
S.V.#45	SPRINKLER SYSTEM ON 5TH LEVEL (SOUTH PART)	5TH LEVEL
S.V.#46	SPRINKLER SYSTEM ON 6TH LEVEL (SOUTH PART)	6TH LEVEL
S.V.#47	SPRINKLER SYSTEM ON 7TH LEVEL (SOUTH PART)	7TH LEVELL
S.V.#51	SPRINKLER SYSTEM ON GROUND FL. (NORTH PART)	GROUND FLOOR
S.V.#52	SPRINKLER SYSTEM ON 2ND LEVEL (NORTH PART)	2ND LEVEL
S.V.#53	SPRINKLER SYSTEM ON 3RD LEVEL (NORTH PART)	3RD LEVEL
S.V.#54	SPRINKLER SYSTEM ON 4TH LEVEL (NORTH PART)	4TH LEVEL
S.V.#55	SPRINKLER SYSTEM ON 5TH LEVEL (NORTH PART)	5TH LEVEL
S.V.#56	SPRINKLER SYSTEM ON 6TH LEVEL (NORTH PART)	6TH LEVEL
S.V.#57)	SPRINKLER SYSTEM ON 7TH LEVEL (NORTH PART)	7TH LEVELL
S.V.#58	SPRINKLER SYSTEM ON MECHANICAL PENTHOUSE	PENTHOUSE
S.V.#61	SPRINKLER RISER IN GARBAGE CHUTE	

CCT #	DESCRIPTION
1	PARKING GARAGE — P1 (1 ZONE PER LEVEL)
2	ELEVATOR LOBBY - P1 (1 ZONE PER LEVEL)
3	SPARE
4	MAIN ELECTRICAL ROOM — P1 LEVEL
5	SUB-ELECTRICAL ROOM #1 - P1 LEVEL
6	SUB-ELECTRICAL ROOM #2 - P1 LEVEL
7	COMMUNICATION ROOM - P1 LEVEL
7	MECHANICAL ROOM - P1 LEVEL
8	GARBAGE ROOM — P1 LEVEL
9	GARBAGE LOADING AREA — P1 LEVEL
10	SPARE
11	1ST FLOOR
12-17	2ND FLOOR TO 7TH FLOOR
18	MECHANICAL PENTHOUSE
19	GENERATOR ROOM
20	PENTHOUSE ELECTRICAL ROOM
21	ELEVATOR MACHINE ROOM
22	ELEVATOR SHAFT
23	FRESH AIR UNIT DUCT DETECTOR MECH PENTHOUSE
24	STAIR 'A' UPPER STAIR
25	STAIR 'A' TOP OF UPPER STAIR
26	STAIR 'A' LOWER STAIR
27	STAIR 'A' TOP OF LOWER STAIR
28	STAIR 'B' UPPER STAIR
29	STAIR 'B' TOP OF UPPER STAIR
30	STAIR 'B' LOWER STAIR
31	STAIR 'B' TOP OF LOWER STAIR
32	STAIR 'C' TOP OF STAIR
33	MAIN SPRINKLER FLOW ALARM  PARKING GARAGE LEVEL—1 SPRINKLER FLOW ALARM
35 35	GROUND FLOOR SOFFIT AREA SPRINKLER FLOW ALARM
36	PARKING GARAGE LEVEL-1 LOADING AREA FLOW ALARM
37	WET SPRINKLER LINE TO GROUND FLOOR AMENITY FLOW ALARM
38	WET SPRINKLER LINE TO GARBAGE ROOM FLOW ALARM
39	WET SPRINKLER LINE TO GROUND FLOOR COMMON FLOW ALARM
40	WET SPRINKLER LINE TO SECOND FLOOR COMMON FLOW ALARM
41	SPRINKLER SYSTEM ON GROUND FL. FLOW ALARM (SOUTH PA
42	SPRINKLER SYSTEM ON 2ND LEVEL FLOW ALARM (SOUTH PAR
43	SPRINKLER SYSTEM ON 3RD LEVEL FLOW ALARM (SOUTH PAR
44	SPRINKLER SYSTEM ON 4TH LEVEL FLOW ALARM (SOUTH PAR
45	SPRINKLER SYSTEM ON 5TH LEVEL FLOW ALARM (SOUTH PAR
46	SPRINKLER SYSTEM ON 6TH LEVEL FLOW ALARM (SOUTH PAR
47	SPRINKLER SYSTEM ON 7TH LEVEL FLOW ALARM (SOUTH PAR
48	SPARE
49	SPARE
50	SPARE
51	SPRINKLER SYSTEM ON GROUND FL. FLOW ALARM (NORTH PA
52	SPRINKLER SYSTEM ON 2ND LEVEL FLOW ALARM (NORTH PAR
53	SPRINKLER SYSTEM ON 3RD LEVEL FLOW ALARM (NORTH PAR
54	SPRINKLER SYSTEM ON 4TH LEVEL FLOW ALARM (NORTH PAR
55	SPRINKLER SYSTEM ON 5TH LEVEL FLOW ALARM (NORTH PAR
56	SPRINKLER SYSTEM ON 6TH LEVEL FLOW ALARM (NORTH PAR
57	SPRINKLER SYSTEM ON 7TH LEVEL FLOW ALARM (NORTH PAR
58	SPRINKLER SYSTEM ON MECHANICAL PENTHOUSE
59	SPARE
60	SPARE
61	SPRINKLER RISER IN GARBAGE CHUTE FLOW ALARM

DRY SPKINKLER LOSS OF AIR PRESSURE IN P1 PARKING LEVEL

LOW TEMP. T-STAT IN MECHANICAL ROOM - P1 LEVEL HIGH CO LEVEL DETECTION IN MECHANICAL PENTHOUSE

HIGH CO LEVEL DETECTION IN PARKING GARAGE

\*\* NUMBER OF ZONES TO SUIT CODE REQUIREMENT

JOCKEY PUMP LOSS OF POWER

TRANSFER SWITCH #1D NOT IN 'AUTO'

TRANSFER SWITCH #2D NOT IN "AUTO"

TRANSFER SWITCH #3D NOT IN "AUTO" TRANSFER SWITCH #4D NOT IN "AUTO"

EMERGENCY DISCONNECT #1D 'OFF' EMERGENCY DISCONNECT #2D 'OFF'

EMERGENCY DISCONNECT #3D 'OFF'

EMERGENCY DISCONNECT #4D 'OFF'

PIPE TRACING LOSS OF POWER \*\*

SPARE 25%

SNOW MELTING LOSS OF POWER \*\*

PRINKLER SYSTEM ON 7TH LEVEL FLOW ALARM (SOUTH PART)  PARE  PARE  PARE  PRINKLER SYSTEM ON GROUND FL. FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON 2ND LEVEL FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON 3RD LEVEL FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON 4TH LEVEL FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON 5TH LEVEL FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON 6TH LEVEL FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON 7TH LEVEL FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON 7TH LEVEL FLOW ALARM (NORTH PART)  PRINKLER SYSTEM ON MECHANICAL PENTHOUSE	Engineering Inc. of any discrepancy proceeding. United Engineering Inc. is not respaccuracy of Architectural, structural etc. on this drawing. Refer to the appropriate trade draproceeding with any work. Installa conform to all applicable codes ar of the authorities having jurisdictio This drawing is not to be scaled, graphic representations only.
PARE PARE PRINKLER RISER IN GARBAGE CHUTE FLOW ALARM PARE 25%	
LE ZONES  DESCRIPTION	Project North
NIN INCOMING SPRINKLER LINE LOSS OF PRESSURE — 1 NIN INCOMING SPRINKLER LINE LOSS OF PRESSURE — 2 RE PUMP EMERGENCY DISCONNECT 'OFF' RE ALARM SYSTEM TROUBLE RE PUMP—LOSS OF POWER RE PUMP RUNNING RE PUMP PHASE REVERSAL INDICATOR IN—SET—COMMON TROUBLE INERATOR BREAKER "OFF" INERATOR RUNNING	Mechanical Electrical Consu 3645 Keele Street, Sui Toronto, Ontario, M3 Tel: (416) 398 1999, Fax: (4
SS OF PRESSURE OF INCOIMG GAS LINE FOR GENSET SS OF PRESSURE OF GAS LINE TO GENSET RE LINES TRACING POWER LOSS UMPRESSOR LOSS OF POWER	POWER, COMMUNICATION AND FIRE ALARM RISER
MPRESSOR LOSS OF AIR	PROJECT

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9 CM REVISED AS PER SI E-14

08 CM REVISED AS PER SI E-11

06 CM ISSUED FOR CONSTRUCTION

03 CM REVISED AS PER SI E-2

FOR CLARIFICATION

CM ISSUED FOR TENDER

04 CM ISSUED FOR PERMIT

CM REVISED AS PER SI E-5

CM PROGRESS FOR CONSTRUCTION

REVISED AS PER ESA COMMENTS AND

DESCRIPTION

**REVISIONS** 

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