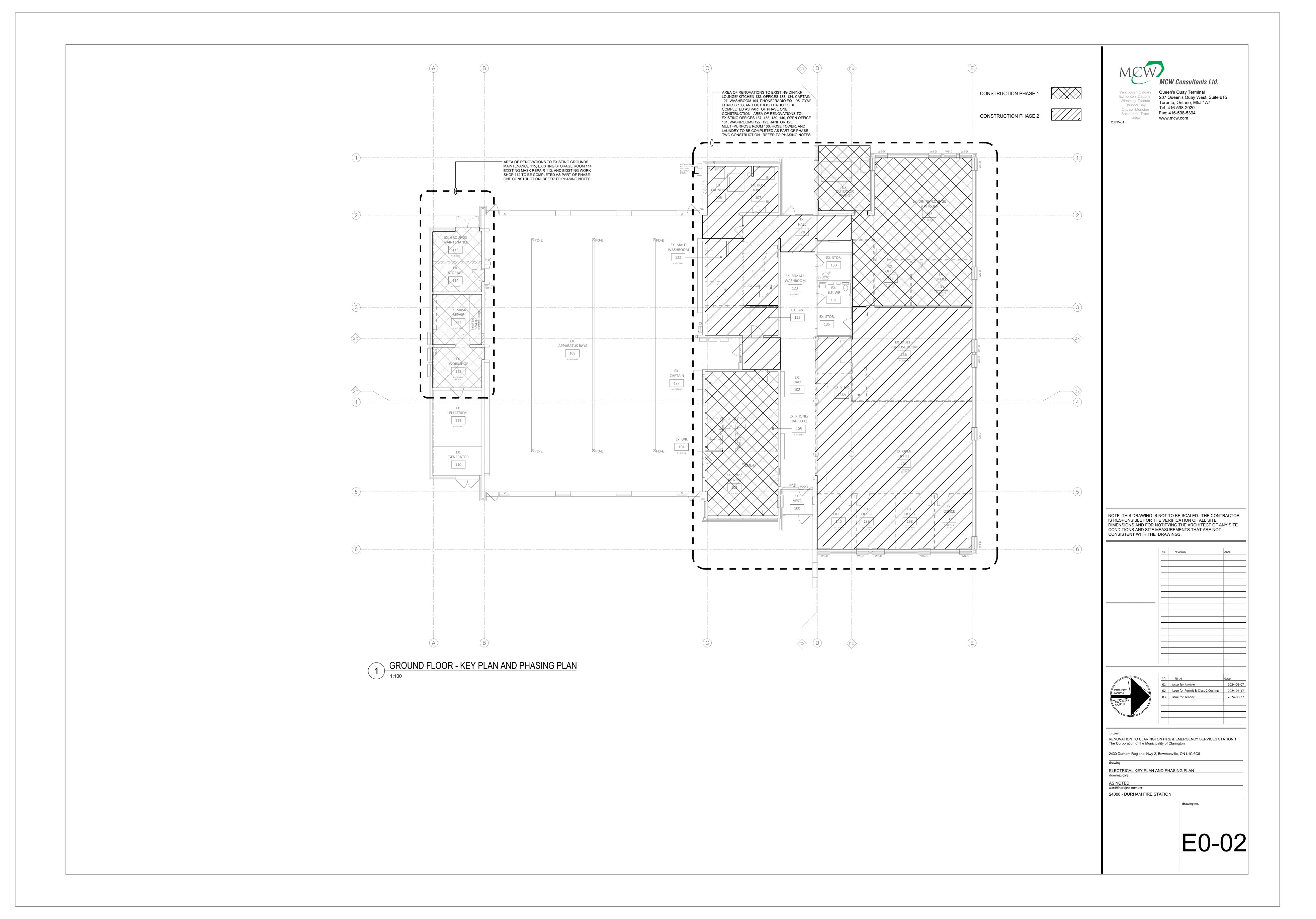
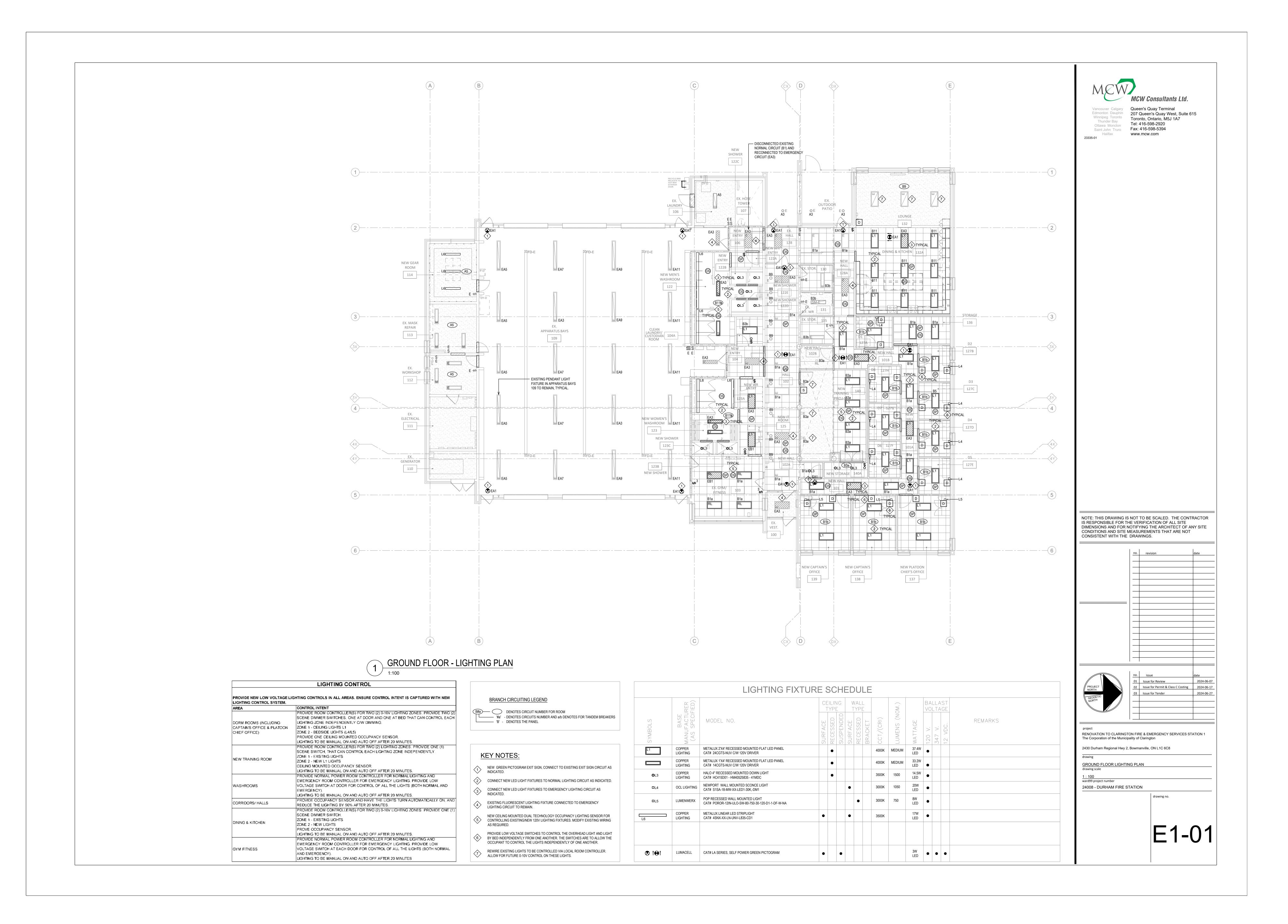
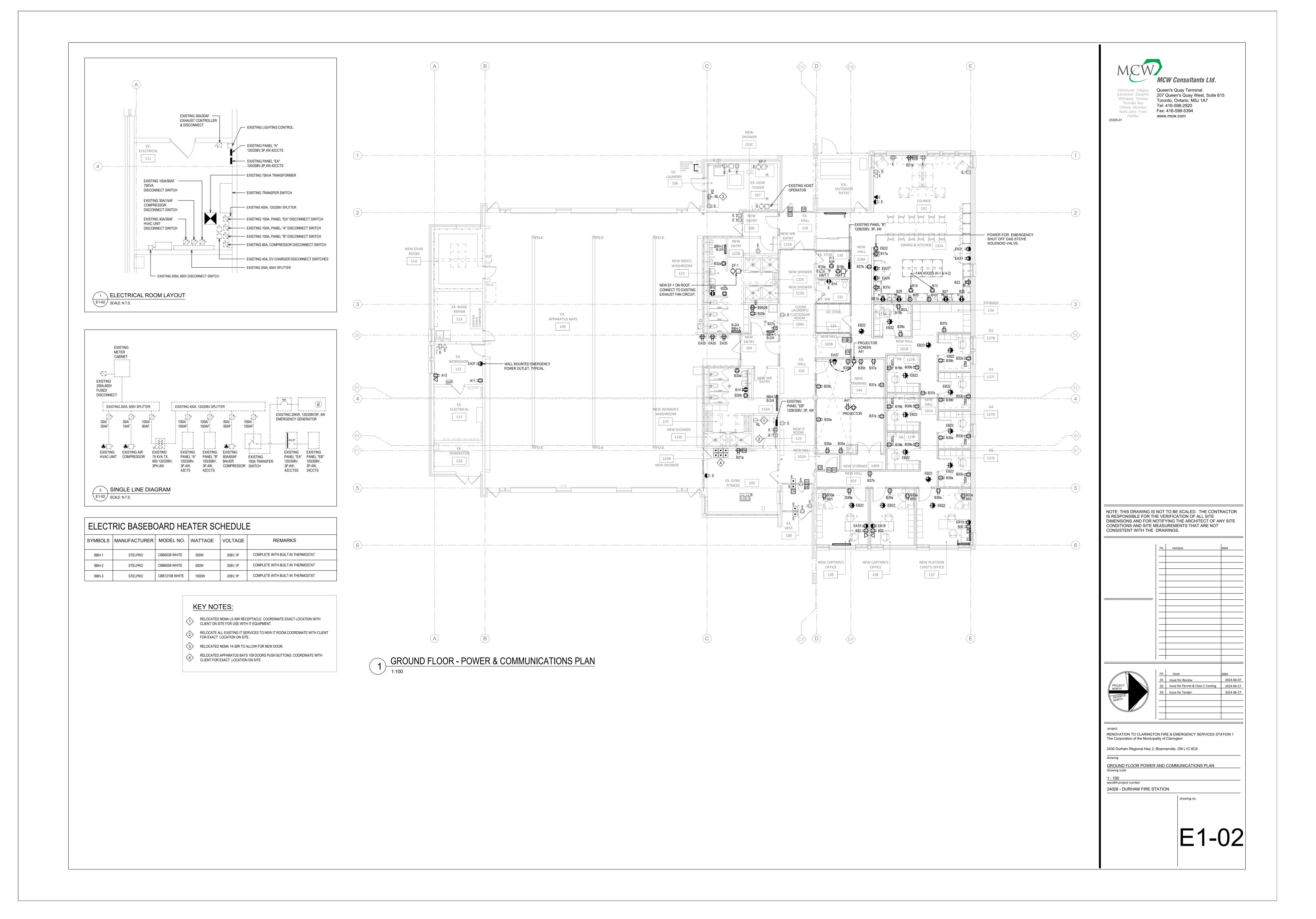


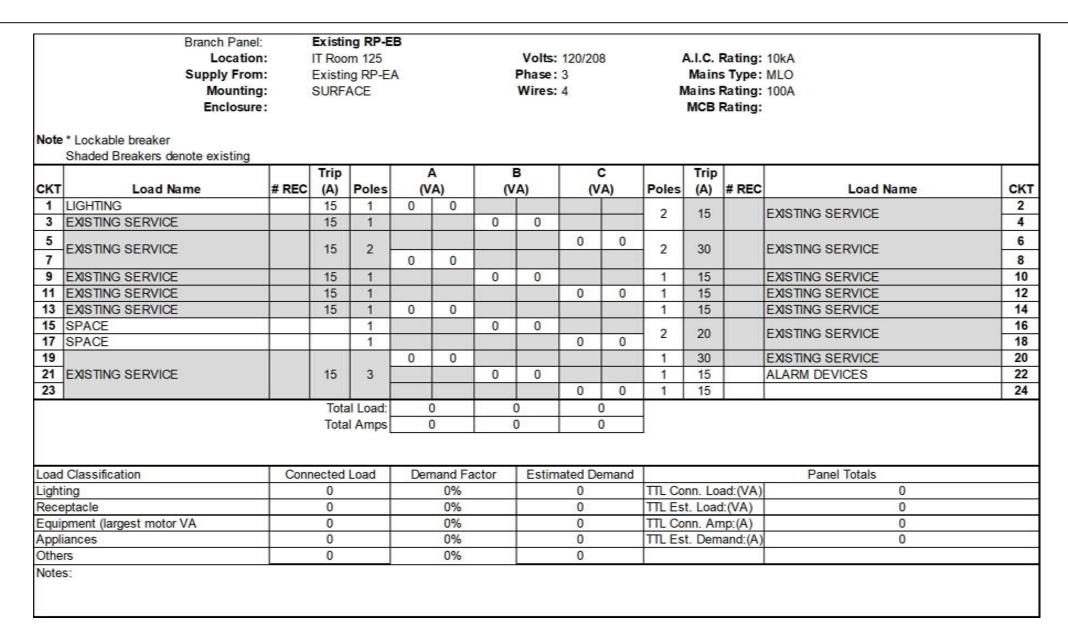


ELECTRICAL SYMBOL LEGEND			NOTE:  NOT ALL SYMBOLS SHOWN ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.	ELECTRICAL DRAWING LIST		
<u>LIGHTING</u>	EQUIPMENT CONNECTIONS AND CONTROLS	FIRE ALARM SYSTEM  SMOKE DETECTOR C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED	COMMUNICATIONS	E0-01 ELECTRICAL LEGEND, NOTES & DRAWING LIST	N.T.S.	
LINEAR FLUORESCENT LUMINAIRE, TYPE `A' AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT	DIRECT CONNECTION - 120 OR 208V AS SPECIFIED  DIRECT CONNECTION - 374 OR 600V AS SPECIFIED	CARBON MONOXIDE DETECTOR - WALL OR CEILING MOUNTED  SMOKE ALARM / CARBON MONOXIDE DETECTOR WITH VISUAL STROBE C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED	MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER  TV -TV- DATA OUTLET - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER	E0-02 ELECTRICAL KEY PLAN AND PHASING PLAN	1 : 100	
A CEILING MOUNTED LUMINAIRE, TYPE `A' AS SPECIFIED	DIRECT CONNECTION - 3/4 OR 000V AS SI EGII IED  DIRECT CONNECTION - 120 OR 208V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED	LIGHT - WALL OR CEILING MOUNTED  SMOKE ALARM WITH VISUAL STROBE C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED	TELEVISION OUTLET - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE	E1-01 GROUND FLOOR - LIGHTING PLAN	1 : 100	
WALL MOUNTED LUMINAIRE, TYPE `A' AS SPECIFIED	DIRECT CONNECTION - 347 OR 600V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED	LIGHTING CONTROL		E1-01 GROUND FLOOR - LIGHTING PLAN	1.100	
POLE MOUNTED LUMINAIRE, TYPE `H1' AS SPECIFIED	DIRECT CONNECTION - 120 OR 208V C/W FUSED DISCONNECT SWITCH AS SPECIFIED	\$ \$ # # ONE, TWO, THREE AND FOUR GANG SINGLE POLE TOGGLE SWITCHES	TELEVISION OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE  X X ANALOG OUTLET - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER	E1-02 GROUND FLOOR - POWER & COMMUNICATION PLAN	1 : 100	
DOUBLE SURFACE MOUNTED EMERGENCY LIGHTING REMOTE HEADS, TYPE 'BU-1' INDICATES BATTERY BANK FED FROM	DIRECT CONNECTION - 347 OR 600V C/W FUSED DISCONNECT SWITCH AS SPECIFIED	\$ 3-WAY SWITCH	'X' - NUMBER OF ANALOG DROPS, 1 ANALOG DROP UNLESS NOTED OTHERWISE	E2-01 PANEL SCHEDULES AND DETAILS	N.T.S.	
CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD  EMERGENCY LIGHTING BATTERY UNIT C/W DUPLEX RECEPTACLE AND DOUBLE REMOTE	MODULAR FURNITURE WHIP CONNECTION. PROVIDE HARD-WIRE CONNECTION AND CONDUIT SIZE AS PER COMMUNICATION DRAWINGS  'C' - DENOTES FOR COMMUNICATION	\$ 4-WAY SWITCH	ANALOG OUTLET - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE  'X' - NUMBER OF ANALOG DROPS, 1 ANALOG DROP UNLESS NOTED OTHERWISE			
EMERGENCY LIGHTING BATTERY UNIT C/W DUPLEX RECEPTACLE AND DOUBLE REMOTE HEADS. TYPE 'BU-1' AS SPECIFIED.	P' - DENOTES FOR POWER	KEY OPERATED LIGHT SWITCH	ANALOG OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE  'X' - NUMBER OF ANALOG DROPS, 1 ANALOG DROP UNLESS NOTED OTHERWISE	E3-01 GROUND FLOOR - LIGHTING DEMOLITION PLAN	1 : 100	
WALL MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. 'BU-1' INDICATES BATTERY UNIT FED FROM.	AS ABOVE FOR POLE MOUNTED. POLE IS PART OF SYSTEM FURNITURE  POWER AND COMMUNICATION HARDWIRE CONNECTIONS ON FLOOR, CORE DRILL OR TRENCHING CONCRETE ELOOR AS REQUIRED.	\$ F \$ TOGGLE SWITCH C/W RED PILOT LIGHT	X X DATA OUTLET - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER 'X' - NUMBER OF DATA DROPS, 1 DATA DROP UNLESS NOTED OTHERWISE	E3-02 GROUND FLOOR - POWER & COMMUNICATION DEMOLITION PLAN	1 : 100	
WALL MOUNTED SINGLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.	TRENCHING CONCRETE FLOOR AS REQUIRED  MOTOR CONNECTION C/W UNFUSED DISCONNECT SWITCH	\$ DOOR LIGHT SWITCH  Phubbell dual technology wall switch occupancy sensor,	DATA OUTLET - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE 'X' - NUMBER OF DATA DROPS, 1 DATA DROP UNLESS NOTED OTHERWISE			
CEILING MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED.	MOTOR CONNECTION C/W FUSED DISCONNECT SWITCH	\$ CAT# LHMTS1-G347-WH  F \$ FAN CONTROL SWITCH	DATA OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE 'X' - NUMBER OF DATA DROPS, 1 DATA DROP UNLESS NOTED OTHERWISE			
SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.  CEILING MOUNTED SINGLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.	MOTOR CONNECTION C/W LOOSE STARTER	FV \$ LUTRON VARIABLE SPEED FAN CONTROL SWITCH NTF SERIES	A CEILING OR ON WALL WITHIN 3M OF ACTUAL WAP. ['A' - DENOTES TYPE. SEE "WIRELESS ACCESS POINT SCHEDULE"]			
	MOTOR STARTER AS SPECIFIED	T \$ MANUAL TIMER SWITCH	TC RECESSED TELECOMMUNICATION PANEL			
SECURITY AND ACCESS CONTROL SYSTEMS  SECURITY SYSTEM CONTROL PANEL	UNFUSED DISCONNECT SWITCH	TC PROGRAMMABLE TIME CLOCK, TYPE 'A' AS SPECIFIED	HDMI HDMI OUTLET			
KP KEY PAD	FUSED DISCONNECT SWITCH	PE PHOTO ELECTRIC CONTROL	SP FLUSH MOUNTED CEILING MOUNTED AUXILIARY SOUND SPEAKER			
CR CARD READER	HD HAND DRYER	WATTSTOPPER CEILING OCCUPANCY SENSOR, CAT# LMDC-100				
REQUEST TO EXIT BUTTON		D DIMMER SCENE SWITCH  S SCENE SWITCH				
M EGRESS MOTION DETECTOR	GENERAL POWER	MISCELLANEOUS				
DOOR CONTACT	15A, U-GROUND SINGLE RECEPTACLE	indicates existing device to remain				
PUSH TO LOCK  ES ELECTRIC STRIKE	15A, U-GROUND DUPLEX RECEPTACLE	INDICATES EXISTING DEVICE TO BE MOVED				
AA AUDIBLE ALARM	USB CHARGER/15A, U-GROUND DUPLEX RECEPTACLE, HUBBELL CAT# USB15A5W	INDICATES EXISTING DEVICE IN RELOCATED POSITION				NOTE: THIS DRAWING IS NOT TO BE SCALED. THE CONTRACT IS RESPONSIBLE FOR THE VERIFICATION OF ALL SITE DIMENSIONS AND FOR NOTIFYING THE ARCHITECT OF ANY SI
MD MOTION DETECTOR	15A, U-GROUND QUAD RECEPTACLE	INDICATES EXISTING DEVICE TO BE DEMOLISHED				CONDITIONS AND SITE MEASUREMENTS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.
GLASS BREAK DETECTOR	(5-20RA) T-SLOT U-GROUND DUPLEX RECEPTACLE	INDICATES CONDUIT				no. revision date
ELR ELECTRIC LATCH RETRACTION	15A, U-GROUND SINGLE OR DUPLEX RECEPTACLE - MOUNTED ABOVE COUNTER	ELECTRICAL DRAWING NOTES				
EL ELECTRIC LOCK	15A, U-GROUND SINGLE EMERGENCY POWER RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER. PROVIDE RED RECEPTACLE	POWER DISTRIBUTION				
MAGLOCK DEVICE  WALL WITHIN 3M OF ACTUAL CAMERA.	15A, U-GROUND DUPLEX EMERGENCY POWER RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER. PROVIDE RED RECEPTACLE	POWER TRANSFORMER				
C ['A' - DENOTES TYPE OF CAMERA. SEE "CAMERA SCHEDULE".]	(5-20RA) T-SLOT U-GROUND DUPLEX EMERGENCY POWER RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER. PROVIDE RED RECEPTACLE	POWER TRANSFORMER C/W ELECTROSTATIC SHIELD				
ABOVE CEILING WITHIN 3M OF ACTUAL CAMERA.  ['A' - DENOTES TYPE OF CAMERA. SEE "CAMERA SCHEDULE".]	30A 120/208V/1Ø/30 AMP DRYER OUTLET	CURRENT CONTROL TRANSFORMER				
WALL WITHIN 3M OF ACTUAL CAMERA. ['A' - DENOTES TYPE OF CAMERA. SEE "CAMERA SCHEDULE".]	40A 120/208V/1Ø/40 AMP RANGE OUTLET	INCOMING POWER INTERRUPTER SWITCH				
S ALARM SOUNDER	20A 'A' SINGLE SPECIAL RECEPTACLE - AMPACITY AS INDICATED, TYPE 'A' AS SPECIFIED	DISCONNECT SWITCH				
PA PANIC ALARM	15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER	MOLDED CASE CIRCUIT BREAKER				no.issuedate01Issue for Review2002Issue for Permit & Class C Costing20
SA SECURITY ALARM CONTACT FOR MECHANICAL EQUIPMENT  SR SECURITY DOOR RELEASE	15A, U-GROUND HALF SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER (CONTROLLED BY SWITCH)	DRAW OUT AIR CIRCUIT BREAKER		GENERAL NOTES:		03 Issue for Tender 20
SH SMART HOME TOUCH PANEL		FIXED AIR CIRCUIT BREAKER		THE ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC. THE ELECTRICAL INSTALLATIO SHALL BE COORDINATED WITH OTHER TRADES SO THAT INTERFERENCES BETWEEN THE ELECTRICAL INSTALLATION AND ARCHITECTURAL, STRUCTURE, MECHANICAL, PLUMBING, FIRI		
M SECURITY SYSTEM MONITOR	15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER	ELECTRIC HEATING		PROTECTION AND EQUIPMENT INSTALLATION WILL BE AVOIDED.  2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOM AND AREA FINISHED, CEILING		project RENOVATION TO CLARINGTON FIRE & EMERGENCY SERVICES STATIO The Corporation of the Municipality of Clarington
s MAGLOCK RESET SWITCH	(5-20RA) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER	SUREFACE WALL MOUNTED ELECTRIC BASEBOARD HEATER  BRANCH CIRCUITING LEGEND		PLANS, DOOR SWINGS, FIRE RELATED PARTITIONS, CABINET AND CASE WORK AND BUILT-IN DETAILS.  3. ALL WIRING TO BE SIZE #12 AWG UNLESS NOTED OTHERWISE.		2430 Durham Regional Hwy 2, Bowmanville, ON L1C 6C8
CODE BLUE SPEAKER PHONE	15A, U-GROUND SINGLE RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE	2EP1-3 — '3' - DENOTES CIRCUIT NUMBER		4. CIRCUIT NUMBERS SHOWN ARE GROUPING ONLY. REFER ON JOB-SITE FOR EXACT CIRCUIT US		ELECTRICAL LEGEND, NOTES AND DRAWING LIST drawing scale
CODE BLUE INTEGRATED UNIT C/W ACCESSORIES, POLE OR PEDESTAL MOUNTED	15A, U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED	'P1' - DENOTES LOCATION OF PANEL (P1 LEVEL)  'E' - DENOTES EMERGENCY PANEL  '2' - DENOTES 120/208V OR  '6' - DENOTES 347/600V		<ol> <li>ALL THE FINAL CONNECTIONS SHOWN ON THE DRAWINGS ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION. CO-ORDINATE WITH MECHAL AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.</li> </ol>		N.T.S. ward99 project number 24008 - DURHAM FIRE STATION
INTERCOM AUDIO AND VISUAL STATION	OTHERWISE			6. ELECTRICAL SYSTEM EQUIPMENTS AND COMPONENTS SHALL BE CSA OR ULC LISTED AND BE COMPLIANCE WITH THE REGULATIONS ON ONTARIO BUILDING CODE.	IN	drawing no.
INTERCOM AUDIO AND VISUAL STATION  'A' - DENOTES AUDIO ONLY INTERCOM STATION	USB CHARGER/15A, U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE					
XP RECESS MOUNTED SECURITY PANEL	HARDWARE SUPPLIED DOOR EXIT BUTTON					



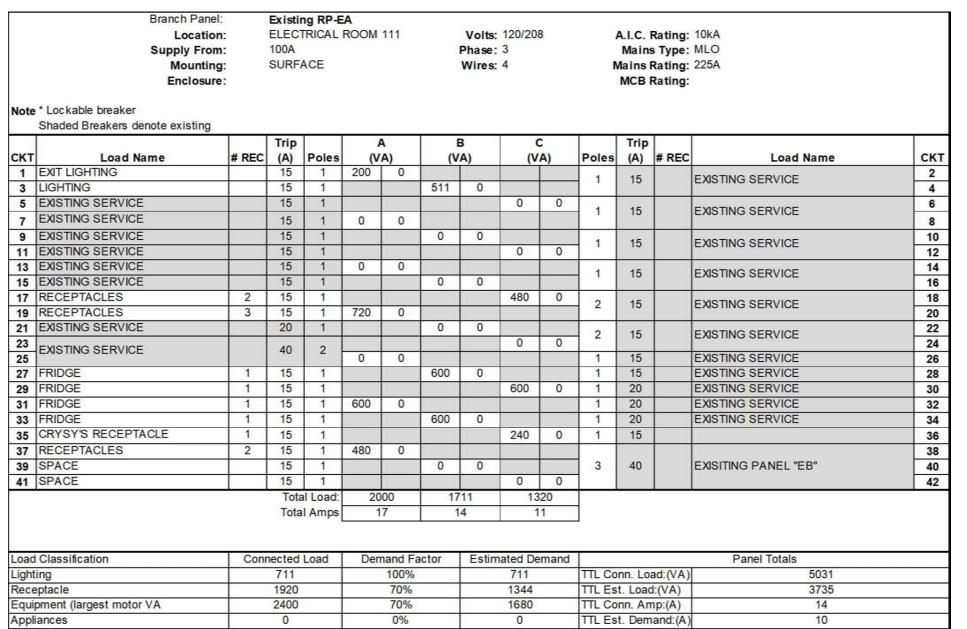






	Branch Panel: Location Supply From Mounting Enclosure	: : :	Existing RP-A ELECTRICAL ROOM 111 100A SURFACE					Volts: Phase: Wires:		8	N	Mains Mains F	Rating: Type: Rating: Rating:	MLO	
		# REC			- ' '		. 83	В	C A) (VA)		Balas	Trip			
CKT 1				Poles			(V	A)			Poles	(A) 15	# REC		CK.
	EXISTING SERVICE EXISTING SERVICE		15 15	1	0	0					1	15		EXISTING SERVICE	4
	EXISTING SERVICE	1	15	1			0	0	0	0	-	45		EMOTING OFFICE	6
_			-	1					U	U	3	15		EXISTING SERVICE	2
	EXISTING SERVICE		15	1	0	0						4.5		EMOTING OFFICE	8
	EXISTING SERVICE		15	1			0	0	0.10		1	15		EXISTING SERVICE	10
	WORKSHOP RECEPTACLE	1	15	1	0.40				240	0	1	15		EXISTING SERVICE	12
000	WORKSHOP RECEPTACLE	1	15	1	240	0					1	15		EXISTING SERVICE	14
	EXISTING SERVICE		15	1			0	0	_		1	20		EXISTING SERVICE	16
	EXISTING SERVICE		15	1	_				0	0	2	30		EXISTING SERVICE	18
	EXISTING SERVICE	+	15	1	0	0									20
	EXISTING SERVICE		20	1			0	0	0	0	2	30		EXISTING SERVICE	22
23 25	EXISTING SERVICE		20	3	0	_			0						26
27	ENSTING SERVICE		20		0	0	0	0			3	15		EXISTING SERVICE	28
29		+					0	U	0	0	- 1	13		ENSTING SERVICE	30
31	EXISTING SERVICE		15	2	0	0			U	U	1	20		EXISTING SERVICE	32
33	<u> </u>	-			U	U	0	200			1	15		NEW HOT WATER TANK P-1	34
35	EXISTING SERVICE		15	2			-	200	0	0	1	15	-	EXISTING SERVICE	36
37		1			0	0			U	U	-1:	10		ENSTING SERVICE	38
39	EXISTING SERVICE		15	2	U	U	0	0			3	30		EXISTING SERVICE	40
	TRAINING ROOM PROJECTOR		15	1			-	U	500	0	- 3	30		ENSTING SERVICE	42
41	TOTAL PRODUCTION				2	10	2	00		-					42
				Total Load: 240 Total Amps 2		200 740			1						
			Tota	Allips							J				
Load Classification		Con	Connected Load		Demand Fac		actor Estir		nated Demand					Panel Totals	
Lighting			0		0%				0		TTL Conn. Load			1180	
Receptacle			480		70%				336		TTL Est. Load:(VA)				
Equipment (largest motor VA		1	700		70%				490		TTL Conn. Amp:(A)			3	
Appliances		1	0		0%				0		TTL Est. Demand:(A)			2	
Othe Note:	Others		0		0%				0						

Branch Panel: Location: Supply From: Mounting: Enclosure:  Note * Lockable breaker			RP-B STOR 100A SURF	AGE 13	0	Volts: 120/208 Phase: 3 Wires: 4						Mains Mains I	Rating: Type: Rating: Rating:	MLO 225A	
112421143	Shaded Breakers denote existing		Trip	22 1111	Α		2100-	3	(			Trip			
CKT	CORRIDOR LTG	# REC	(A)	Poles 1	523	<b>A)</b> 575	(V	A)	(V	A)	Poles	(A)	# REC	Load Name	CK.
	LIGHTING		15	1	323	3/3	600	575	a .						2
	LIGHTING		15	1			000	010	600	575	2	15		BASEBOARD HEATERS	
- 4	LIGHTING		15	1	600	575					1				4
1000			10			0,0	0	0							
5							Ť		0	0	1 .				6
-	EXISTING SERVICE		30	2	0	0					2	15		EXISTING SERVICE	
7							0	0							8
9	LIGHTING		15	1					300	0	4	15		EXISTING SERVICE	10
9	LIGHTING		15	1	300	0					1 '	15		ENSTING SERVICE	10
11	LIGHTING		15	1			300	240			1	20*		WR RECEPTACLE	12
1.20			15	1					0	240		20		WK KEGEL TAGEE	12
13	GAS STOVE / KITCHEN HOOD		15	1	250	240					1 1	20*		WR RECEPTACLE	14
ITATES.							250	240				V IONENI		ESSENTANDA NERO DE MESONA TON ESPASE EN ESTA CONTROLLA CARRENTA DA COMPANION DE COM	
15	GAS STOVE / KITCHEN HOOD		15	1	050	200			250	0	1	15		EXISTING HOT WATER TANK	16
	EMOTING OFFICE		45	-	250	200	_	0			1	15		NEW HOT WATER TANK	
7/	EXISTING SERVICE		15 15	1			0	0	250	0	1	15 15		EXISTING SERVICE EXISTING SERVICE	18
	WATER FOUNTAIN		15	1	0	0			250	0	1	15			-
14	USB RECEPTACLES	4	15	1	U	U	960	0			1	15		EXISTING SERVICE WASHER	20
	EXISTING SERVICE	4	15	1	-		900	U	0	0	-	15		WASHER	
21	TV'S RECEPTACLES	2	15	1	480	0			U	0					22
.573,000			15		400	0	120	0			2	20		EXISTING SERVICE	-
23	RECEPTACLE	1	20	1			120	U	120	0	1 1				24
		87	1220	39	240	1000			120						
25	RECEPTACLE	1	20	1	210	1000	240	1000				212			26
0.7	DECEDITA OLE								240	1000	2	30		DRYER	-00
27	RECEPTACLE	1	20	1	240	1000									28
29	RECEPTACLE	1	20	1			240	1000			1	20		HAND DRYER	30
29	RECEPTACLE	1	20	1					240	100	1	20		HAND DRYER	30
	RECEPTACLE	1	20	1	500	1000					1	20		HAND DRYER	32
70.80 % 3	RECEPTACLE	1	20	1			500	1000			1	20		HAND DRYER	52
33	USB RECEPTACLES	3	15	1					720	0					34
	USB RECEPTACLES	4	15	1	960	0					2	15		EXISTING SERVICE	
35	TRAINNING RMN RECEPTACLES	3	15	1 1			720	0						2,10,111,0	36
	TRAINNING RMN RECEPTACLES	3	15						720	0					
37	TRAINNING RMN RECEPTACLES	3	15	1 1	720	0					1	15		EXISTING SERVICE	38
	RECEPTACLES	4	15		-		960	0	4000		-				
	RECEPTACLES	5	15 15	1	4440	_			1200	0	-				40
_	RECEPTACLES	6		4	1440	0	0	0		:	2	15		EXISTING SERVICE	
	EXISTING SERVICE EXISTING SERVICE		15 15	1		-	0	U	0	0					42
	ENSTING SERVICE				444	202	00	A.F.	_						
				al Load: al Amps		093	89	5		555 55					
Load	Classification	Con	nected	Load	Den	nand Fa	ctor	Estim	ated De	mand				Panel Totals	
Lighting		2923			100%				2923		TTL Conn. Load:(VA)				
Receptacle			8880		70%				6216		TTL Est. Load:(VA)			18610	
Equipment (largest motor VA		13530				70%			9471		TTL Conn. Amp:(A)			70	
Appli	ances	0				0%		0			TTL Es			52	
Others		1260				70%		882							



Equipment (largest motor VA

