

GENERAL NOTES:

- 1 ALL ELECTRICAL EQUIPMENT SHOWN IN THIN SOLID LINES IS EXISTING TO REMAIN.
- 2 ALL ELECTRICAL EQUIPMENT SHOWN IN THICK SOLID LINES IS NEW TO BE PROVIDED UNDER THIS CONTRACT, TOGETHER WITH ALL ASSOCIATED CONDUITS AND WIRING.
- 3 ALL ELECTRICAL EQUIPMENT SHOWN IN THICK DASHED LINES WITH LETTER 'R' IS EXISTING TO BE RELOCATED AS SHOWN. EXTEND ALL CONDUITS AND WIRING TO SUIT.
- ALL ELECTRICAL EQUIPMENT SHOWN IN THICK DASHED LINES WITH LETTER 'X' IS EXISTING TO BE REMOVED C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE BACK
- FOR ANY REQUIRED SHUT DOWN, CONTRACTOR TO COORDINATE WITH SITE MANAGER AND OBTAIN APPROVAL BEFORE SHUT DOWN CAN BE PERFORMED.
- EXISTING FIRE ALARM SYSTEM TO REMAIN OPERATIONAL FOR DURATION OF THIS PROJECT, PROVIDE DUST PROTECTION. PROVIDE FIRE WATCH IF REQUIRED. EXISTING FIRE ALARM PROVIDER IS CHUBB EDWARDS.
- PROVIDE NEW BREAKERS AS REQUIRED IN EXISTING ELECTRICAL PANELS TO ACCOMMODATE NEW CONNECTIONS, ALSO PROVIDE BLANK PLATES WHERE CIRCUIT BREAKERS ARE NOT INSTALLED, PROVIDE NEW TYPED PANEL LEGEND TYPICAL FOR ALL PANELS TOUCHED BY THIS CONTRACT. TURN OVER TO THE OWNER ALL BREAKERS REMOVED UNDER THIS CONTRACT.
- 8 ALL EXISTING AND NEW CONDUITS AND WIRING PASSING THRU FLOOR AND FIRE RATED WALLS TO BE FIRE STOP USING 3M FIRE RETARDANT MASTIC SEALANT NO EQUIVALENT.
- ALL WIRING TO BE R/RW90, MINIMUM SIZE #12AWG COPPER, IN EMT CONDUIT UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL CIRCUITS ARE SHOWN FOR GROUPING PURPOSES ONLY, CONTRACTOR TO USE AVAILABLE CIRCUITS IN EXISTING ELECTRICAL PANELS. REUSE EXISTING AND/OR PROVIDE NEW ELECTRICAL BREAKERS AS REQUIRED.
- (11) REGROUP CIRCUITS AS REQUIRED.
- (12) COORDINATE ALL WORK WITH ARCHITECTURAL AND MECHANICAL CONTRACTORS.
- THIS DRAWING WAS BASED ON PARTIAL SITE REVIEW ONLY, ALL EQUIPMENT, ACCESSORIES, SIZES, LOCATIONS AND DETAILS OF INSTALLATIONS TO BE CONFIRMED ON SITE.
- SEISMIC RESTRAINT SYSTEM (SRS) PROVIDE DESIGN, SUPPLY AND INSTALLATION OF COMPLETE SRS FOR ALL SYSTEMS, EQUIPMENT SPECIFIED FOR INSTALLATION ON THIS PROJECT AS PER ONTARIO BUILDING CODE LATEST EDITION. THIS INCLUDES ELECTRICAL LIGHT FIXTURES, TRANSFORMERS, MCC'S, UPS, DIESEL GENERATORS, FIRE PROTECTION, CONDUIT, COMMUNICATIONS, ELECTRICAL EQUIPMENT AND SYSTEMS, BOTH VIBRATION ISOLATED AND STATICALLY SUPPORTED.

	LIGHTING FIXTURE SCHEDULE										
YPE	DESCRIPTION	CATALOGUE NUMBER	LAMPS PER FIXTURE				VOLTS	TOTAL	MOUNTING	DEMARKS	
IPE			NO.	TYPE	WATTS	COLOUR	LUMENS	VULIS	WATTS	MOUNTING	REMARKS
Α	1X4 Lay In	PEERLESS # LACH3-14G-32-35K-12-MV-D1	1	LED	34	3500°K	3200	120	34	TILE	
В	1X4 Surface	PEERLESS # LXHL-14-32-35K-12-MV-D1	1	LED	34	3500°K	3200	120	34	SURFACE	
С	2X4 Lay In	PEERLESS # LACH3-24G-40-35K-12-MV-D1	1	LED	40	3500°K	4000	120	40	TILE	
D	2X4 Lay In	PEERLESS # LACH3-24G-40-35K-12-MV-D1/FK24	1	LED	40	3500°K	4000	120	40	DRYWALL	
E	POTLIGHT	PRESCOLITE # LF6LEDG4-6FLED5G425KWT-B24	1	LED	14.5	3500°K	1100	120	14.5		
F	POTLIGHT VANDAL RESISTANT	PRESCOLITE # LF6LEDG4-6LFLED5G435KVR-B24	1	LED	14.5	3500°K	1100	120	14.5		VANDAL RESISTANT
G	EXIT 1-Face	STANPRO # RMS1WH-NDC	1	LED	2			120	2	UNIVERSAL	RUNNING MAN
Н	EXIT 2-Face	STANPRO # RMS2WH-NDC	1	LED	2			120	2	UNIVERSAL	RUNNING MAN

* OR APPROVED EQUIVALENTS *

NEW PANEL 'PP-6' SCHEDULE EXISTING PANEL 'CDP-1' SCHEDULE MAKE : COMMANDER 600/347V, 3PH, 4 WIRE 400A MAINS, SURFACE MOUNTED LOCATED IN MAIN ELEC. RM. 120/208V, 3PH, 4 WIRE 225A MAINS, RECESSED MOUNTED LOCATED ON GROUND FLOOR __F.F_HEATER — VESTIBULE EM.LIGHTING. GFI RECPT. W.C 109 -F.F HEATER - STAIR E _ F.F HEATER - VESTIBULE _GFI RECPT. W.C 107 RECEPT. RECEPTION 100A. GFI RECEPT. VIP LOUNGE & W.C 105 _EX.FANS 3,4,5 & 6 RECEPT. V.I.P LOUGE 102 GFI RECEPT. W.C 103 & 104 _BASEBOARD HEATER — STAIR A F.F HEATER - VESTIBULE ___ UTILITY RECEPT. CONTROLS TRANSFORMER RECEPT. OFFICE MILLING MACHINE BASEBOARD HEATER - W.C 29 KITCHEN RECEPT _ KITCHEN RECEPT. BASEBOARD HEATER - STAIRWELL EXTERIOR RECEPT. NORTH & EAST SIDE EXTERIOR RECEPT. SOUTH SIDE 38 DOOR OPERATORS

BASEBOARD HEATER - STAIR 208 EM.LIGHTING. BASEBOARD HEATER W.C 206_ BASEBOARD HEATER 209 BASEBOARD HEATER W.C 205 RECEPT. MEETING RM 201 RECEPT. OFFICE/QUIET ROOM RECEPT. MEETING RM 20 CREW WORK STATIONS RECEPT. MEETING RM : _CREW WORK STATIONS RECEPT, MEETING RM 20 RECEPT. KITCHEN _ RECEPT. KITCHEN _GFI RECEPT. W.C 205 & 206 RECEPT. KITCHEN EX.FAN 1 & CREW WORK STATIONS _T.V — QUIET ROOM _RECEPT. OFFICE ROOF - EXTERIOR RECEPT.

NEW PANEL 'PP-6A' SCHEDULE

ELECTRICAL LEGEND 120 VOLT FLUORESCENT LIGHT FIXTURE T-BAR POT LIGHT SHATTER RESISTANT POT LIGHT \otimes \otimes exit light ceiling and wall mounted 120 VOLT SINGLE POLE TOGGLE SWITCH | ELECTRICAL PANEL JUNCTION BOX FIRE ALARM SPEAKER FIRE ALARM PULL STATION FIRE ALARM SMOKE DETECTOR CEILING MOUNTED FIRE ALARM BELL DUPLEX RECEPTACLE WALL MOUNTED DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER DATA/TELEPHONE OUTLET WALL MOUNTED BASE FEED FOR SYSTEM FURNITURE TELEPHONE OUTLET DATA OUTLET DISCONNECT SWITCH EMERGENCY - FLUORESCENT LIGHT FIXTURE 15 AMP. 125 VOLT DUPLEX RECEPTACLE CONNECTED TO DEDICATED CIRCUIT NEMA L6-30R TWISTLOCK RECEPTACLE, 30A, 208V, CONNECTED TO DEDICATED CIRCUIT 15 AMP. 125 VOLT DUPLEX RECEPTACLE DEDICATED CIRCUIT AND CEILING MOUNTED 15 AMP. 125 VOLT GFI DUPLEX RECEPTACLE RECEPTACLE - TYPE AS INDICATED |CEILING MOUNTED RECEPTACLE -TYPE AS INDICATED CR CARD READER DOOR BELL ELECTRIC STRIKE MOTION DETECTOR 60 DOOR CONTACT PUSH BUTTON, DOOR OPERATOR THREE PHASE MOTOR SINGLE PHASE MOTOR DIRECT CONNECTION ELECTRICAL BASEBOARD HEATER COMMUNICATION PANEL CORE DRILL - PREFERRED LOCATION REFER TO ARCH. DWGS FOR DIMENSIONS

NOT ALL SYMBOLS SHOWN IN LEGEND SET ARE

NECESSARILY USED IN DRAWING SET.

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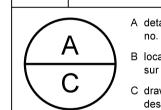
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JRP ENGINEERING Professional Engineers

1361 Cornfield Cres, Greely, Ontario, K4P 1E6 Tel: (613) 821−2652 E−Mail: admin@jrpeng.com

Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

2 ISSUED FOR PERMIT 15.10.13
1 ISSUED FOR TENDER 15.10.05
revisions description date



A detail no.
no. du detail

B location drawing no.
sur dessin no.

C drawing no.
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No. du projet

project

SAFETY ACCESS TO TARMAC

drawing

Project no.

ELECTRICAL — GENERAL NOTES, DETAILS & SCHEDULES

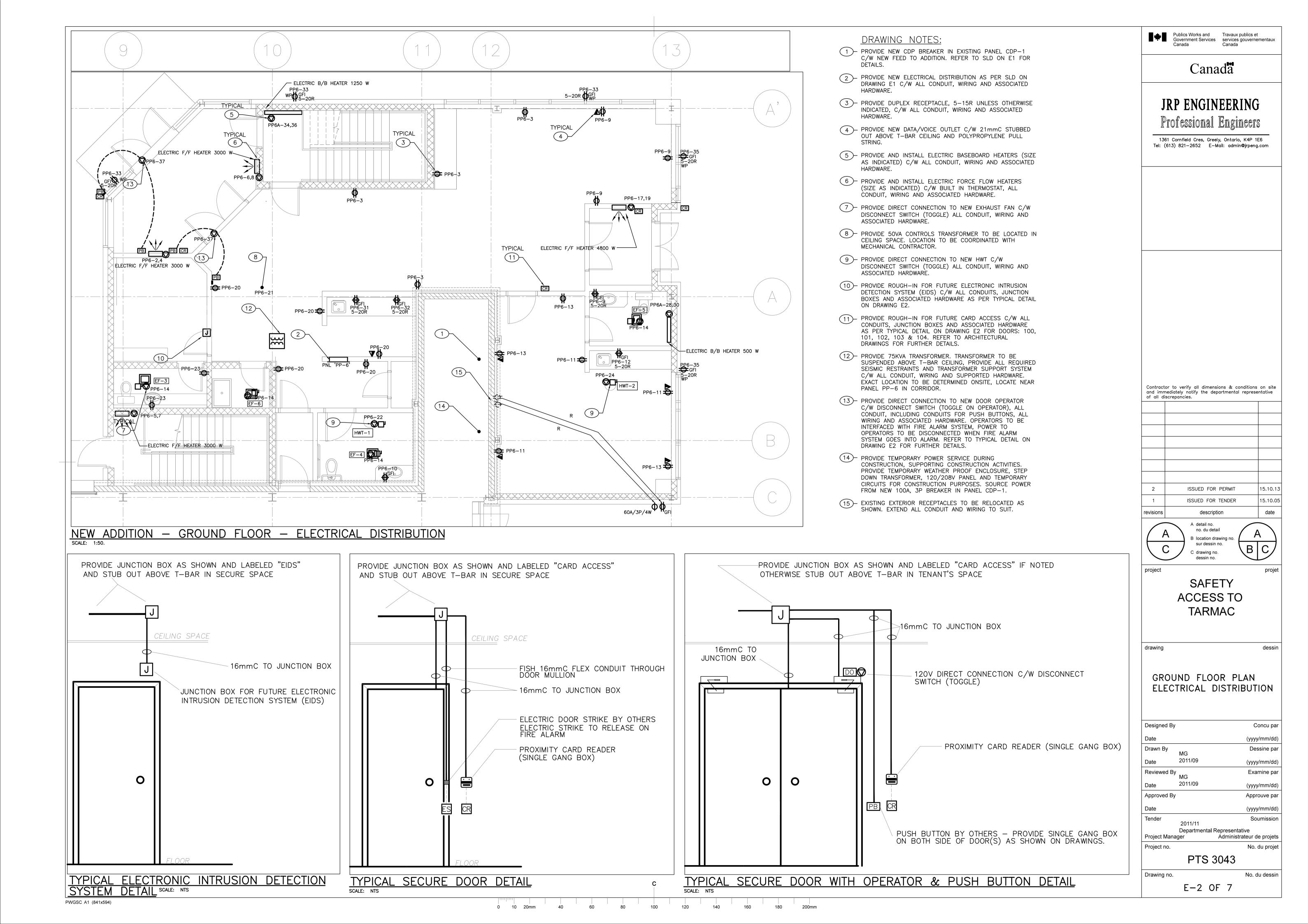
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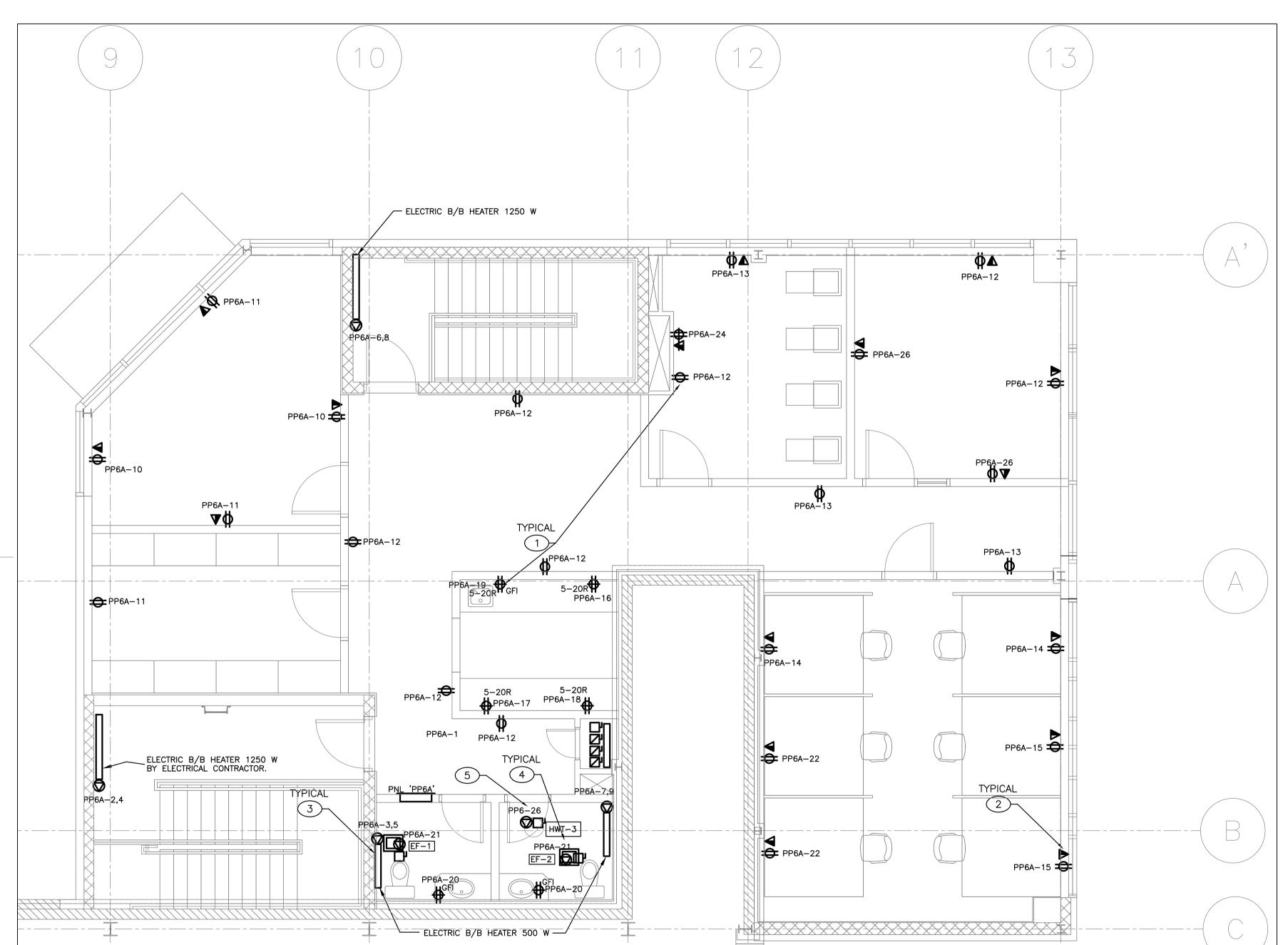
PTS 3043

Drawing no. No. du dessin $E-1 \quad OF \quad 7$

PWGSC A1 (841x594)

10 20mm 40 60 80 100 120 140 160 180





NEW ADDITION - SECOND FLOOR - ELECTRICAL DISTRIBUTION

SCALE: 1:50.

DRAWING NOTES:

- 1 PROVIDE DUPLEX RECEPTACLE (5-15R) C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 2 PROVIDE NEW DATA/VOICE OUTLET C/W 21mmC STUBBED OUT ABOVE T-BAR CEILING AND POLYPROPYLENE PULL
- 3 PROVIDE AND INSTALL ELECTRIC BASEBOARD HEATERS (SIZE AS INDICATED) C/W ALL CONDUIT, WIRING AND ASSOCIATED
- 4 PROVIDE DIRECT CONNECTION TO NEW EXHAUST FAN C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 5 PROVIDE DIRECT CONNECTION TO NEW HWT C/W DISCONNECT SWITCH (TOGGLE) ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.

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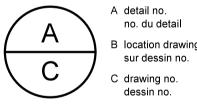
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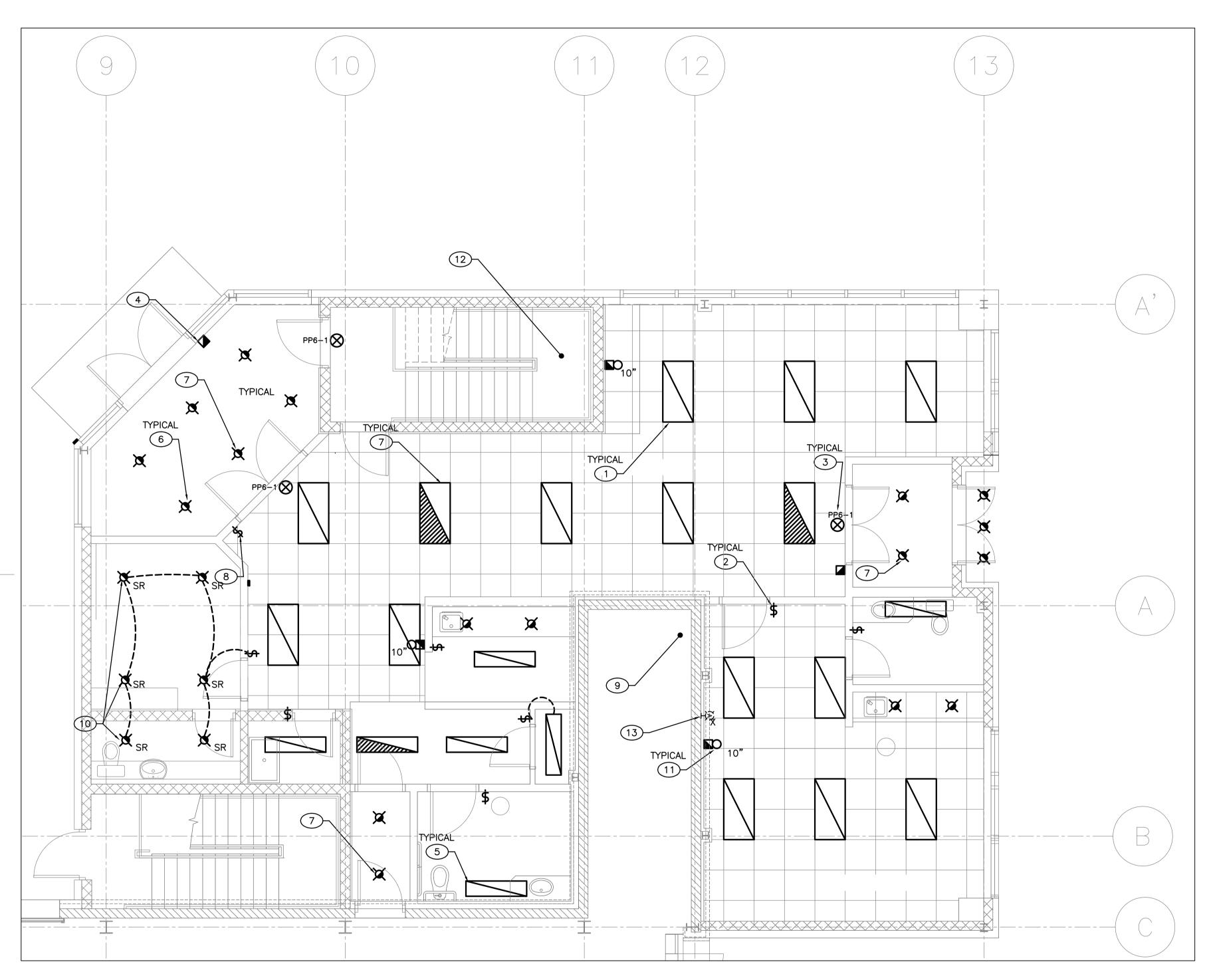
SECOND FLOOR PLAN ELECTRICAL DISTRIBUTION

Concu par Designed By (yyyy/mm/dd) Drawn By Dessine par (yyyy/mm/dd) Reviewed By MG Examine par (yyyy/mm/dd) Approved By Approuve par (yyyy/mm/dd) Tender Soumission Departmental Representative Project Manager Project no. No. du projet PTS 3043

E-3 OF 7

No. du dessin

PWGSC A1 (841x594)



NEW ADDITION - GROUND FLOOR - REFLECTED CEILING PLAN

SCALE: 1:50.

PWGSC A1 (841x594)

DRAWING NOTES:

- 1 PROVIDE NEW FLUORESCENT LIGHT FIXTURE C/W ALL CONDUIT WIRING AND ASSOCIATED HARDWARE. CONTROL AS INDICATED.
- 2 PROVIDE NEW LIGHTING CONTROL SWITCH, CONTROL ENTIRE ROOM UNLESS OTHERWISE INDICATED. PROVIDE ALL REQUIRED CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 3 PROVIDE NEW CEILING MOUNTED EXIT SIGN C/W DIRECTIONAL ARROWS AS INDICATED.
- 4 PROVIDE NEW F/A PULL STATION, TIE IN TO EXISTING BASE BUILDING FIRE ALARM SYSTEM C/W ALL CONDUIT, WIRING, ASSOCIATED HARDWARE ND F/A SYSTEM VERIFICATION. ALL COSTS ND CO-ORDINATION IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 5 PROVIDE NEW SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE C/W ALL CONDUIT, WIRING AND ASSOCIATED
- 6 PROVIDE NEW POT LIGHT C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 7 EMERGENCY LIGHTING FIXTURE TO REMAIN UNSWITCHED AT ALL TIMES. TIE INTO EM. LIGHTING CIRCUIT.
- 8 PROVIDE MASTER LIGHTING CONTROL SWITCH. SWITCH TO CONTROL ALL GENERAL LIGHTING NOT CONTROLLED BY INDIVIDUAL ROOM LIGHTING CONTROL C/W CONTRACTOR, ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 9 PROVIDE THREE (3) LIGHTING CIRCUITS, AS PER PANEL LEGEND C/W ALL CONDUIT, WIRING AND ASSOCIATED
- 10- PROVIDE THREE (3) SHATTER RESISTANT TYPE POLYMER/POLYCARBONATE OR LAMINATED TEMPERED GLASS POT LIGHT FIXTURES THAT ARE SECURELY MOUNTED WITH PERMANENT FASTENERS (SCREWS).
- (11)- TYPICAL OF THREE: PROVIDE NEW F/A BELL (10"), TIE IN TO EXISTING BASE BUILDING FIRE ALARM SYSTEM C/W ALL CONDUIT, WIRING, ASSOCIATED HARDWARE ND F/A SYSTEM VERIFICATION. ALL COSTS ND CO-ORDINATION IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 12- ALL NEW FIRE ALARM DEVICES (LOOP) TO BE RUN BACK TO MAIN FIRE ALARM PANEL, LOCATED AT MAIN ENTRANCE OF EXISTING BUILDING. EXISTING FIRE ALARM PANEL IS ADDRESSABLE.
- 13 EXISTING LIGHT TO BE DISCONNECT AND REMOVED. REMOVE ALL CONDUIT AND WIRING BACK TO NEAREST J/B.

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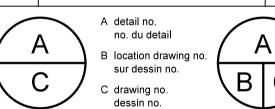
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GROUND FLOOR PLAN R.C.P

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Project Manager Administrateur de projets Project no.

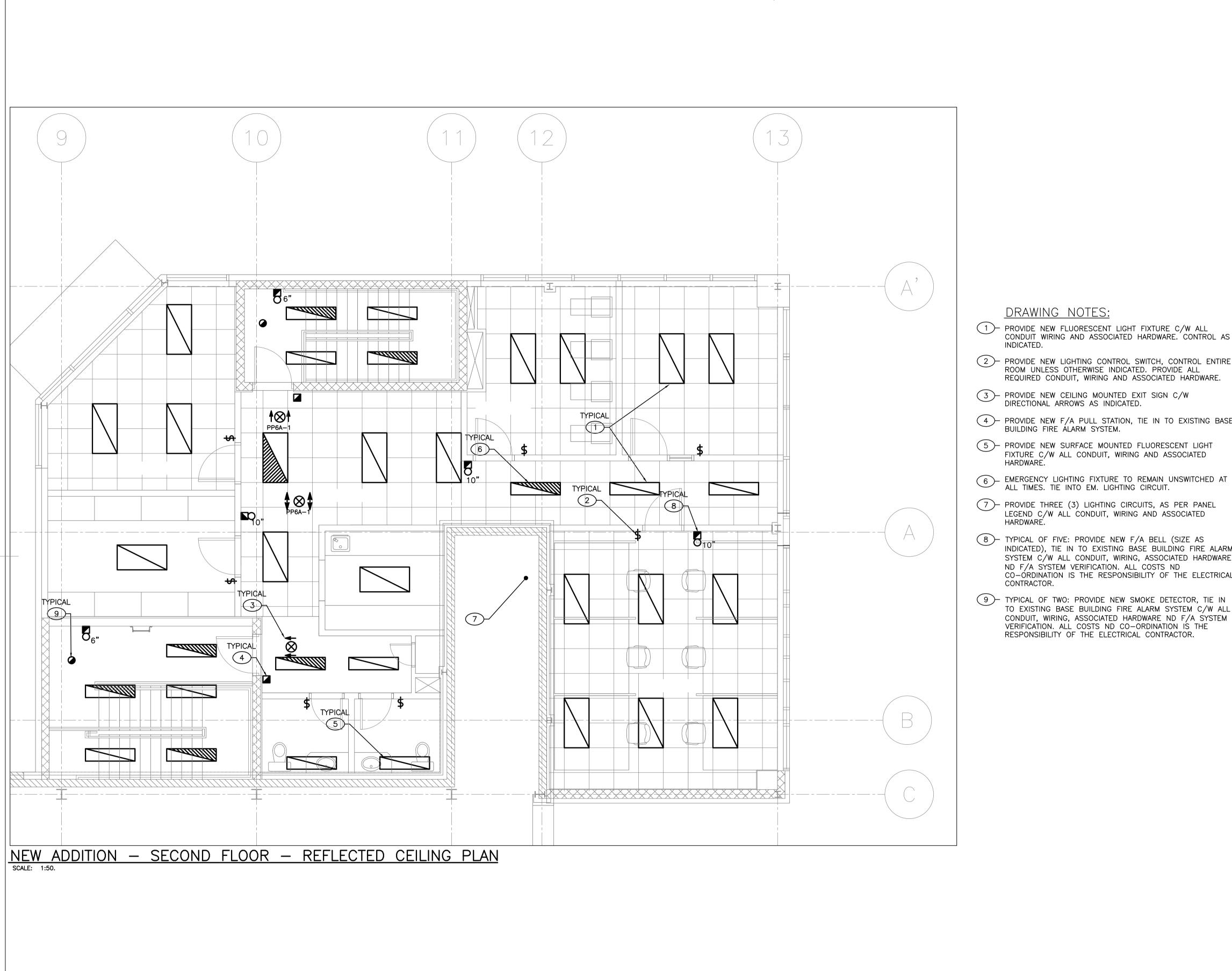
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PTS 3043

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E-4 OF 7



PWGSC A1 (841x594)

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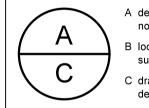
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- 1- PROVIDE NEW FLUORESCENT LIGHT FIXTURE C/W ALL CONDUIT WIRING AND ASSOCIATED HARDWARE. CONTROL AS
- 2 PROVIDE NEW LIGHTING CONTROL SWITCH, CONTROL ENTIRE ROOM UNLESS OTHERWISE INDICATED. PROVIDE ALL REQUIRED CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 3 PROVIDE NEW CEILING MOUNTED EXIT SIGN C/W
- 4 PROVIDE NEW F/A PULL STATION, TIE IN TO EXISTING BASE
- 5 PROVIDE NEW SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE C/W ALL CONDUIT, WIRING AND ASSOCIATED
- 7 PROVIDE THREE (3) LIGHTING CIRCUITS, AS PER PANEL LEGEND C/W ALL CONDUIT, WIRING AND ASSOCIATED
- 8 TYPICAL OF FIVE: PROVIDE NEW F/A BELL (SIZE AS INDICATED), TIE IN TO EXISTING BASE BUILDING FIRE ALARM SYSTEM C/W ALL CONDUIT, WIRING, ASSOCIATED HARDWARE ND F/A SYSTEM VERIFICATION. ALL COSTS ND CO-ÓRDINATION IS THE RESPONSIBILITY OF THE ELECTRICAL
- 9 TYPICAL OF TWO: PROVIDE NEW SMOKE DETECTOR, TIE IN TO EXISTING BASE BUILDING FIRE ALARM SYSTEM C/W ALL CONDUIT, WIRING, ASSOCIATED HARDWARE ND F/A SYSTEM VERIFICATION. ALL COSTS ND CO-ORDINATION IS THE

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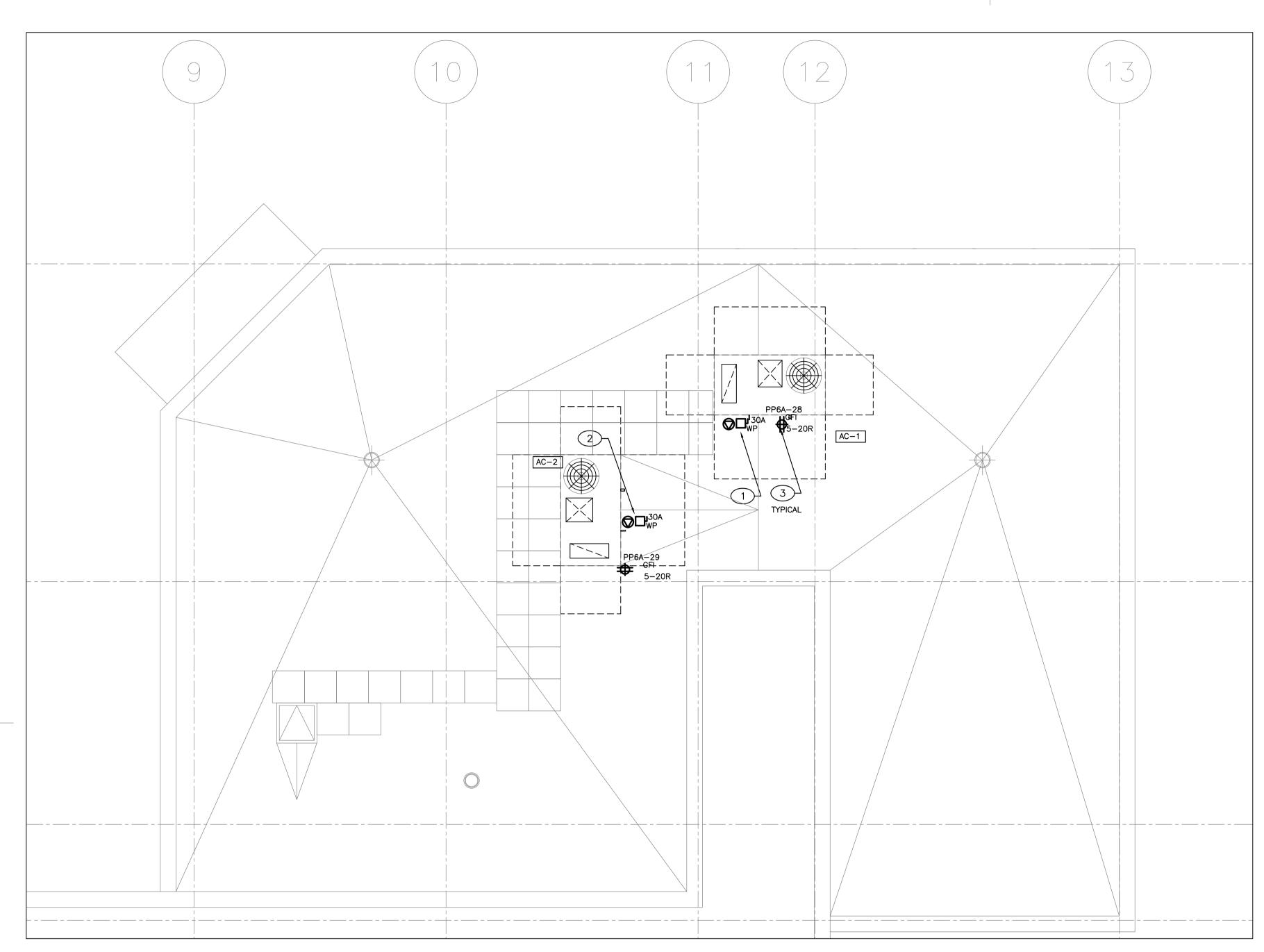
SECOND FLOOR PLAN

R.C.P

Designed By		Concu par
Date		(yyyy/mm/dd)
Drawn By	MG	Dessine par
Date	2011/09	(yyyy/mm/dd)
Reviewed By	MG	Examine par
Date	2011/09	(yyyy/mm/dd)
Approved By		Approuve par
Date		(yyyy/mm/dd)
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Project no.		No. du projet

PTS 3043

No. du dessin E-5 OF 7



NEW ADDITION - ROOF PLAN

SCALE: 1:50.

DRAWING NOTES:

- 1 PROVIDE WP DISCONNECT SWITCH AND DIRECT CONNECTION TO A/C #1 C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 2 PROVIDE WEATHER PROOF DISCONNECT SWITCH AND DIRECT CONNECTION TO A/C #2 C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
- 3 PROVIDE DEDICATED GFI, 5-20R, DUPLEX RECEPTACLE, C/W ALL CONDUIT, WIRING AND ASSOCIATED HARDWARE.
 TRANSITION FROM EMT TO TECK 90 C/W LIQUID TIGHT CONNECTORS ON ROOF.

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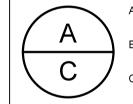
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ROOF PLAN

Designed By		Concu par
Date		(yyyy/mm/dd)
Drawn By	MG	Dessine par
Date	2011/09	(yyyy/mm/dd)
Reviewed By	MG	Examine par
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