

1
E2.0 **ELECTRICAL LIGHTING LAYOUT**
SCALE: 1/100

LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MOUNTING	CATALOG NUMBER	LAMPS
A	2'x4' LED LUMINAIRE	RECESSED IN T-BAR	LITHONIA LIGHTING 2BLT4-4BL ADSM EZ1 LP835	45W LED
B	1'x4' LED LUMINAIRE, VANDAL RESISTANT	SURFACE MOUNTED	NEW STAR LIGHTING 37M14-TBA-TBA-L2-35-TBA-UN	50W LED
C	LED VAPOUR TIGHT LINEAR FIXTURE	MOUNTED AT UNDERSIDE OF DECK	AIMLITE VP4-LA3A-2/40K L7XLED T24	39.24W LED
D	6" LED DOWNLIGHT WET LOCATION	RECESSED	LITHONIA LIGHTING 6BPMW LED 30K 90CRI L7XLED T24	10.3W LED
E	4" DIRECT/INDIRECT LED FIXTURE	AIRCRAFT CABLE SUSPENDED	LITHONIA LIGHTING CRD 101500LMP 20/80 120 80 35K	50.67W LED
F	4" LED STRIP LUMINAIRE	MOUNTED AT UNDERSIDE OF DECK	LITHONIA LIGHTING ZL1N L48 5000LM FST MVOLT 35K 80 CRI	41.75W LED
G	4" LED DOWNLIGHT	RECESSED IN SOFFIT	LITHONIA LIGHTING 4BPMW LED	11.16W LED
H	LED CLOSET LIGHT	SURFACE MOUNTED ABOVE DOOR	LITHONIA LIGHTING FMCL 24 840 PIR	17W LED
I	LED DOWNLIGHT	SURFACE MOUNTED TO BACK OF TRELLIS BETWEEN BEAMS	LITHONIA LIGHTING OLWP LED P1 40K 120 PE B2	22.8W LED
K	LED TAPE LIGHT C/W POWER SUPPLY	SURFACE MOUNTED TO UNDERSIDE OF CABINETS	GREEN IMAGE - GS-50NFx2 C/W 48W AC/DC ADAPTOR	48W LED
L	6" LED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 40/10 LOGAR LSS	18W LED

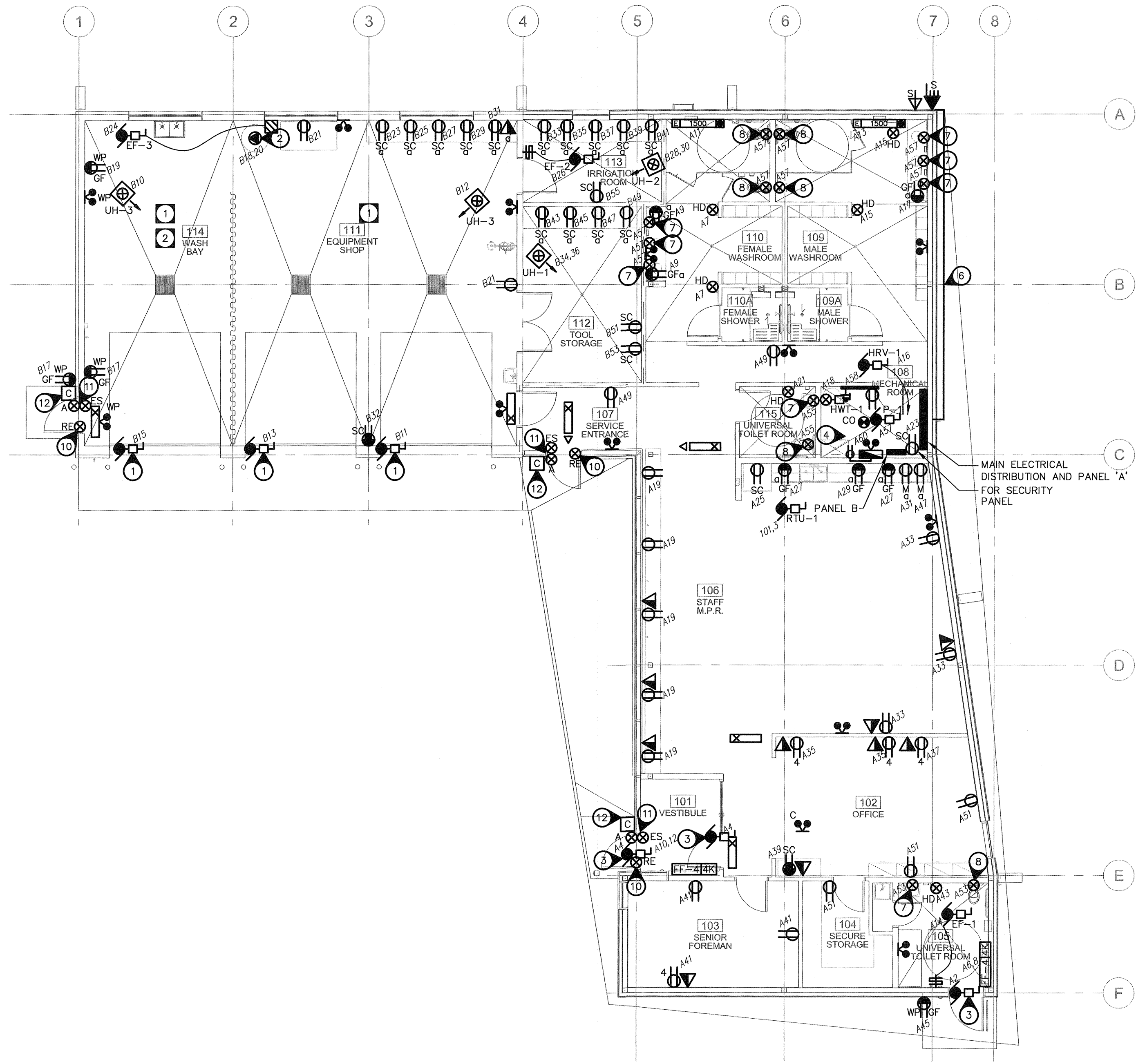
LUMINAIRE SCHEDULE NOTES:
1. UNLESS OTHERWISE NOTED, ALL LEDS TO BE 4000K & 80 CRI.

SPECIFIC ELECTRICAL NOTES

- 1 WIRE AND CONNECT OVER HEAD DOOR OPERATOR AND ALL RELATED CONTROLS. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- 2 WIRE AND CONNECT OWNER SUPPLIED AIR COMPRESSOR. (22A, 240V-1PH)
- 3 WIRE AND CONNECT POWER DOOR OPERATOR AND ALL RELATED CONTROLS. CONFIRM EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- 4 APPROXIMATE LOCATION OF ACCESS CONTROL SYSTEM. JOHNSON CONTROLS PEGASYS P2000 SOFTWARE VERSION 3.12. SOFTWARE AND NETWORK DEVICES ARE SUPPLIED BY CITY OF WINNIPEG AND INSTALLED BY CONTRACTOR.
- 5 2 HOUR OVERRIDE SWITCHES FOR LIGHTING TIMECLOCKS.
- 6 RUN CONDUIT ALONG EXTERIOR OF BUILDING AT HIGH LEVEL UNDER OVERHANG UNTIL ENTRY POINT AT MECH 108.
- 7 WIRE AND CONNECT AUTOMATIC FAUCET. REFER TO MECHANICAL.
- 8 WIRE AND CONNECT AUTOMATIC FLUSH. REFER TO MECHANICAL.

WET AND HAZARDOUS LOCATION ELECTRICAL NOTES

- 1 ALL WIRING IN SERVICE AREAS INDICATED TO COMPLY WITH C.E.C. 20-102. AREA FROM FINISHED FLOOR TO 50mm ABOVE FINISHED FLOOR TO BE HAZARDOUS AREA CLASS 1 ZONE 2. AREA BELOW FLOOR TO BE HAZARDOUS AREA CLASS 1 ZONE 2. ALL EQUIPMENT ABOVE THIS AREA SHALL BE IN COMPLIANCE WITH CANADIAN ELECTRICAL CODE 20-110.
- 2 ALL WIRING AND ELECTRICAL EQUIPMENT IN WET LOCATION TO BE IN COMPLIANCE WITH C.E.C. 22-002 CATEGORY 1.



2
E2.0 **ELECTRICAL POWER AND SYSTEMS LAYOUT**
SCALE: 1/100

- 9 SITE LOCATED LED STRIP DRIVER IN CONCEALED ACCESSIBLE SPACE. CO-ORDINATE WITH ARCHITECTURAL.
- 10 RUN 1/2" EMT FROM LEFT HAND SIDE OF TOP OF DOOR FRAME (FOR REQUEST TO EXIT DEVICE) INTO MECHANICAL ROOM 108. PRE-DRILL AND TAP FRAME FOR REQUEST TO EXIT MOUNT.
- 11 RUN 3/4" EMT DOWN THE INSIDE ON LOCK SIDE OF DOOR FRAME (FOR ELECTRIC STRIKE & DOOR CONTACT & CARD ACCESS CONTACTS) AND BACK TO MECHANICAL ROOM 108.
- 12 CARD ACCESS READER MOUNTED ON OUTSIDE WALL AT 900mm A.F.F.. RUN 1/2" EMT FROM READER TO MECHANICAL ROOM 108.

GENERAL ELECTRICAL NOTES

1. CONFIRM LOCATION AND REQUIREMENTS OF ACCESS CONTROL SYSTEM DEVICES PRIOR TO ROUGH IN.
2. CO-ORDINATE LOCATION OF ALL HARDWIRED PLUMBING FIXTURE WITH LOCATION OF GRAB BARS AND OTHER WASHROOM ACCESSORIES.
3. PROVIDE ONE(1) MERCURY EP1502 CONTROLLER TO CONTROL (TWO)2 DOORS AND ONE(1) MERCURY MRS2 TO CONTROL THE FINAL DOOR.
4. PROVIDE ALTRONIX POWER SUPPLY TO POWER CONTROLLERS, CARD ACCESS READERS, ELECTRIC STRIKES (24V) AND DOOR CONTACTS.
5. INSTALL CONTROLLERS IN JOI LOCKABLE ENCLOSURE AND INTERLOCK WITH POWER SUPPLY WITH EMT SLEEVES. CONTROLLERS AND POWER SUPPLY TO BE LOCATED IN MECHANICAL ROOM 108 WHERE SPACE PROVIDES.
6. DOOR DEVICES AND SENSORS ARE TO BE CONNECTED WITH HONEYWELL MULTI-CONDUCTOR PROFUSION 3195 CABLE HOME-RUNS (NO SPLICES).

MOTOR SCHEDULE								
NO.	DESCRIPTION	LOCATION	VOLTAGE	HP/W/MCA	C.B.	COND.	STARTER	NOTES
EF-1	EXHAUST FAN	WASHROOM 105	120V-1PH	FRAC	15A-1P	#12	--	1
EF-2	EXHAUST FAN	IRRIGATION ROOM	120V-1PH	FRAC	15A-1P	#12	--	1
EF-3	EXHAUST FAN	WASHBAY	120V-1PH	1/3HP	20A-1P	#12	2 SPEED MAGNETIC	1,2
P-1	PUMP	MECHANICAL ROOM	120V-1PH	FRAC.	15A-1P	#12	--	1
HRV-1	HEAT RECOVERY VENTILATION	MECHANICAL ROOM	120V-1PH	FRAC	15A-1P	#12	PACKAGED	1
RTU-1	ROOF TOP UNIT	ROOF	240V-1PH	39.8 MCA	60A-2P	#6	PACKAGED	1
HWT-1	HOT WATER TANK	MECHANICAL ROOM	120V-1PH	FRAC	15A-1P	#12	--	1
UH-3	GAS UNIT HEATER	EQUIPMENT SHOP 111	120V-1PH	3.8 FLA	15A-1P	#12	--	1

SPECIFIC NOTES:
1. WIRE AND CONNECT AS REQUIRED. REFER TO MECHANICAL.
2. MAGNETIC STARTER BY ELECTRICAL CONTRACTOR.
3. MANUAL STARTER BY ELECTRICAL CONTRACTOR.
4. COORDINATE INSTALLATION OF PATHWAYS TO FIT FOR SUMP PUMP WIRING.

GENERAL NOTES:
A. MANUAL STARTERS TO BE C/W OVERCURRENT PROTECTION.
B. ALL DISCONNECT SWITCHES TO BE SUPPLIED BY ELECTRICAL CONTRACTOR.
C. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT BREAKERS AND WIRING ACCORDING TO THE FINAL NAMEPLATES OF ALL THE MECHANICAL EQUIPMENT.
D. ALL LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTRACTOR.
E. ALL LINE VOLTAGE CONTROL WIRING BY ELECTRICAL CONTRACTOR - REFER TO MECHANICAL SECTION. CO-ORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

HEATING SCHEDULE						
TYPE	WATTS	VOLTAGE	DESCRIPTION	MANUFACTURER	CATALOGUE NO.	NOTES
E	1500	120	BASEBOARD	OUELLET	OFM150	1
FF-4	4000	240	FORCE FLOW	OUELLET	OAC0400	2
UH-1, 2	5000	240	UNIT HEATER	OUELLET	OAS050	3

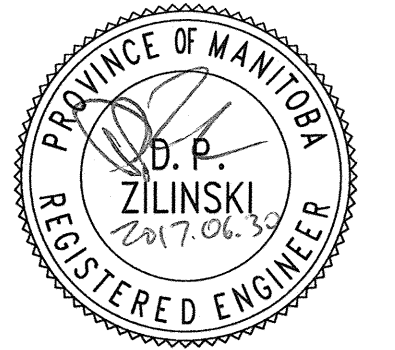
SPECIFIC HEATING NOTES:
1. C/W BUILT-IN THERMOSTAT OR WIRED TO REMOTE THERMOSTAT AS SHOWN ON DRAWINGS.
2. RECESSED UNLESS OTHERWISE INDICATED. C/W BUILT-IN THERMOSTAT UNLESS OTHERWISE INDICATED.
3. C/W BUILT-IN THERMOSTAT. MOUNT SECURELY WHERE INDICATED TO THE SATISFACTION OF THE ENGINEER.

GENERAL HEATING NOTES:
A. VOLTAGE TO BE AS INDICATED ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.

APEGM
Certificate of Authorization
Nova 3 Engineering Ltd.
No. 962 Date: 2017.06.30

4	YY.MM.DD	-
3	YY.MM.DD	-
2	YY.MM.DD	-
1	YY.MM.DD	-
0	17.06.30	- ISSUED FOR CONSTRUCTION

No. DATE REVISION / ISSUANCE



architecture inc.
120 Fort Street, Winnipeg, Manitoba R3C 1C7
TEL: (204) 943-6142
FAX: (204) 942-1276
WWW.NOVA3.CA
JN: 36-087

NOVA 3 ENGINEERING LTD.
CONSULTING ENGINEERS
201-120 FORT STREET TEL: (204) 943-6142
WINNIPEG, MANITOBA R3C 1C7 FAX: (204) 942-1276
WWW.NOVA3.CA JN: 36-087

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD. AND MAY ONLY BE REPRODUCED WITH THE WRITTEN PERMISSION OF NOVA 3 ENGINEERING LTD.
THE CONCEPT AND DESIGN INCORPORATED INTO THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY THE CLIENT AND OTHER RELATED SOURCES. PROFESSIONAL ENGINEER ACCEPTS NO RESPONSIBILITY FOR DRAWING AND DESIGN UNLESS DRAWING IS ACCOMPANIED BY ORIGINAL SEALED LETTER OF INTENT OR EQUIVALENT ACCEPTABLE FACSIMILE. PROFESSIONAL ENGINEER ACCEPTS NO RESPONSIBILITY FOR FINAL INSTALLATION CONFORMANCE WITHOUT ORIGINAL SEALED CERTIFICATE OF INSPECTION OR EQUIVALENT ACCEPTABLE FACSIMILE.

BID OPPORTUNITY 450-2017
KILDONAN PARK
MAINTENANCE BUILDING

ELECTRICAL FLOOR PLAN

Project No. 1559
Date JUNE 30, 2017

E2.0