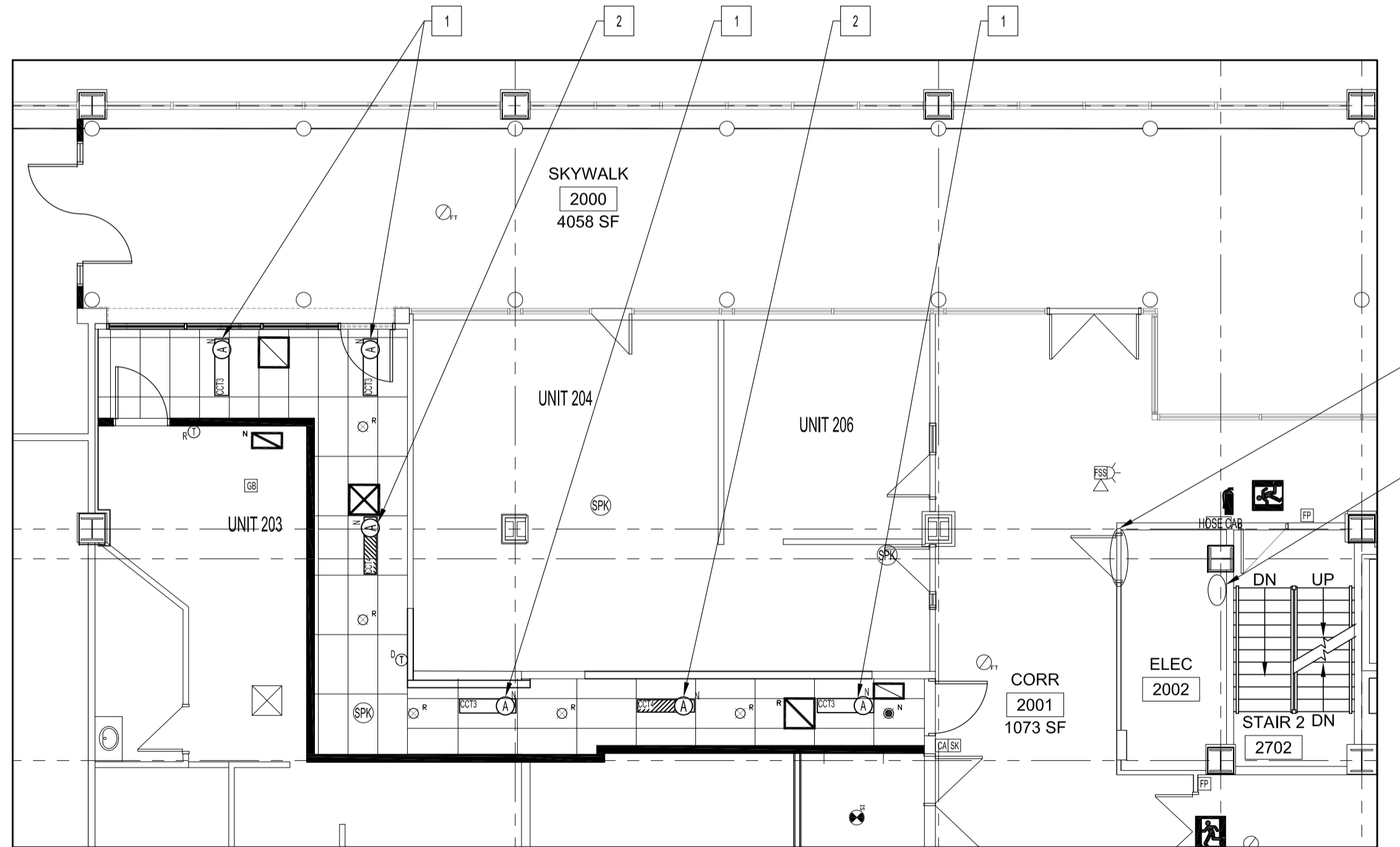


**PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - DEMOLITION**  
SCALE: 1/8"=1'-0"

**LIGHTING DEMOLITION NOTES:** "X"

ALSO SEE NOTES & SPECIFICATIONS.  
ABANDON WIRING, COMPONENTS & SUPPORTS NOT ALLOW.

1. REMOVE ALL CEILING TROFFERS, SPEAKERS & RETURN TO CONTRACT ADMINISTRATOR FOR REUSE IF IN NEAR NEW CONDITION.



**PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - RENOVATION**  
SCALE: 1/8"=1'-0"

**LIGHTING RENOVATION NOTES:** "X"

ALSO SEE NOTES & SPECIFICATIONS.

1. PROVIDE NEW LUMINAIRES & WIRE TO CIRCUITS SHOWN.

LUMINAIRE SCHEDULE			
TYPE	MANUFACTURER	LAMP	DESCRIPTION
(6)	LITHONIA G78 F 2 32 A12 MVOLT GEB10IS CSA	(2) T8 - 32W 4100K	1'X4' RECESSED FLUORESCENT, 120V
(7)	LITHONIA G78 F 2 32 A12 MVOLT GEB10IS CSA	(2) T8 - 32W 4100K	1'X4' RECESSED FLUORESCENT, 120V. WIRE TO EXISTING NIGHT LIGHT CIRCUIT.
(8)	AIMLITE RPST-U-M-WHT-NDC	LED	RUNNING MAN EMERGENCY EXIT SIGN, 120/347 VAC INPUT, FIELD SELECTABLE, WHITE.

- CCT: EXISTING NOT PART OF WORK.  
CCT1: EXISTING UNIT 203 LUMINAIRES; REMOVE LUMINAIRES & CIRCUITS BACK TO PANEL "02" 15A BRANCH CIRCUITS.  
CCT2: REMOVE LUMINAIRES & CIRCUITS BACK TO SOURCE.  
CCT3: WIRE TO EXISTING CORRIDOR LIGHT CIRCUIT ON FLOOR.  
CCT4: WIRE TO EXISTING EMERGENCY/NIGHT LIGHT CIRCUIT ON FLOOR.

**1.1 ELECTRICAL SPECIFICATIONS**

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, SUBMIT AND FACILITATE ALL ITEMS RELATED TO AVAILABLE MANITOBA HYDRO POWER SMART PROGRAM INCENTIVES.
2. REFER TO ARCHITECTURAL SPECIFICATIONS AND OTHER GENERAL CONDITIONS.
3. PROVIDE FOR A COMPLETE AND WORKING INSTALLATION AS HEREIN SPECIFIED AND AS SHOWN ON THE DRAWINGS TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
4. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE, PROVINCIAL AND MUNICIPAL CODES AND REGULATIONS.
5. OBTAIN ALL PERMITS, APPROVALS AND PAY ALL RELATED FEES REQUIRED FOR THIS INSTALLATION.
6. ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND BE C.S.A. APPROVED.
7. COORDINATE ALL CONDUIT RUNS AS SPECIFIED OR AS PER CONTRACT ADMINISTRATOR BEFORE INSTALLATION BEGINS.
8. ARRANGE FOR, AND COORDINATE, ROUGH-IN AND FINAL INSPECTIONS WITH INSPECTION AUTHORITIES, CONTRACT ADMINISTRATOR.
9. VISIT EXISTING SITE WHERE SUCH EQUIPMENT IS PRESENTLY INSTALLED, AND/OR OBTAIN OUTLETS, WIRING AND RECEPTACLE CONFIGURATIONS FROM EQUIPMENT MANUFACTURERS. EXACT CONFIGURATIONS MAY DIFFER FROM THOSE SHOWN ON THE DRAWINGS. INCLUDE ALL COSTS TO PROVIDE NECESSARY OUTLETS WIRING AND RECEPTACLES.

**1.2 EXAMINATION**

1. EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS TO ENSURE THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORILY CARRIED OUT. REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR.
2. THE CONTRACTOR SHALL EXAMINE THE SITE, LOCAL CONDITIONS AND CONSIDER HOW THEY MAY AFFECT THE PROJECT.

**1.3 SUPERVISION**

1. SUPERVISE THE WORK AT ALL TIMES THROUGH A RESPONSIBLE AND COMPETENT JOURNEYMAN ELECTRICIAN / SUPERVISOR.
2. FULL COOPERATION SHALL BE SHOWN WITH OTHER TRADES TO FACILITATE INSTALLATIONS AND TO AVOID DELAYS IN CARRYING OUT THE WORK.

**1.4 ACCURACY OF DATA**

1. DRAWINGS ARE SCHEMATIC; EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER DIMENSIONS SHALL BE GOVERNED BY THE BUILDING AS CONSTRUCTED.
2. OUTLETS OR EQUIPMENT SHALL BE MOVED TO ANY POINT WITHIN A 10' RADIUS WHEN RELOCATION IS REQUESTED BY THE CONTRACT ADMINISTRATOR BEFORE THE WORK HAS BEEN SUBSTANTIALLY COMPLETED, WITHOUT ADDITIONAL COST.
3. BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITH CIRCUITS ARRANGED EXACTLY AS SHOWN ON THE DRAWINGS. CONDUIT AND CABLE RUNS MAY BE MODIFIED TO SUIT THE INSTALLATION.

**1.5 APPROVAL OF MATERIAL**

1. REQUEST FOR APPROVAL OF MATERIAL AS EQUALS OR ALTERNATES TO THAT SPECIFIED SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR IN ACCORDANCE WITH B7.

**1.6 SHOP DRAWINGS**

1. PROVIDE SHOP DRAWINGS FOR REVIEW BY THE CONTRACT ADMINISTRATOR. THE SHOP DRAWINGS MUST BE ASSEMBLED INTO COMPLETE BROCHURES.
2. THE REVIEW OF THE SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THE REVIEW SHALL NOT MEAN APPROVAL OF THE DETAILED DESIGN INHERENT IN THE EQUIPMENT, THE RESPONSIBILITY FOR WHICH SHALL REMAIN WITH THE CONTRACTOR. THE REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR CONFIRMING AND CORRELATING THE DIMENSIONS ON THE JOBSITE, AND FOR INFORMATION THAT PERTAINS TO THE FABRICATION PROCESS, CONSTRUCTION TECHNIQUES, AND INSTALLATION DETAILS, AND FOR COORDINATING ALL WORK OF THE RELATED SUB-TRADES.
3. FABRICATION OF EQUIPMENT SHALL NOT COMMENCE UNTIL SHOP DRAWINGS OF SUCH EQUIPMENT HAVE BEEN REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR. TWO SETS SHALL BE SUBMITTED WITH LOCAL INSPECTION DEPARTMENT APPROVAL WHERE REQUIRED.
4. THE ELECTRICAL SUB-CONTRACTOR SHALL REVIEW ALL MECHANICAL SHOP DRAWINGS - REQUIRING ELECTRICAL CONNECTION - AND COORDINATE VOLTAGE AND SIZES WITH DIVISION 15 AND GENERAL CONTRACTOR.

**1.7 AS-BUILT DRAWINGS**

1. KEEP A RECORD SET OF DRAWINGS ON-SITE AT ALL TIMES RECORDING ANY CHANGES THAT MAY OCCUR. SUBMIT THESE DRAWINGS TO THE CONTRACT ADMINISTRATOR UPON COMPLETION OF THE WORK. AS-BUILTS SHALL INCLUDE TAGGING EXISTING AND NEW CIRCUITS AND EQUIPMENT.
2. SUBMIT A CERTIFICATE OF INSPECTION FROM THE LOCAL INSPECTION AUTHORITY UPON COMPLETION OF WORK.
3. THE CONTRACT ADMINISTRATOR RESERVES THE RIGHT TO RECOMMEND A PORTION OF THE CONTRACT FUNDS BE WITHHELD PENDING SUBMISSION OF ACCEPTABLE ON-SITE REDEFINE DRAWINGS.

**1.8 TESTING**

1. THE ELECTRICAL INSTALLATION SHALL BE COMPLETELY TESTED DEMONSTRATING THE EQUIPMENT AND SYSTEMS INSTALLED PERFORM IN THE MANNER INTENDED.

**1.9 GUARANTEE**

1. THE SATISFACTORY OPERATION OF ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF 12 CALENDAR MONTHS AFTER FINAL ACCEPTANCE OF THE BUILDING.

**1.10 REQUEST FOR CHANGE**

1. ALL QUOTATIONS IN RESPONSE TO REQUEST FOR CHANGE SHALL BE SUBMITTED COMPLETE WITH AN ITEMIZED COST BREAKDOWN OF ALL MATERIALS AND LABOUR REQUIRED IN THE CHANGE.

**1.11 GROUNDING**

1. THE ENTIRE INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF CANADIAN ELECTRICAL CODE.

**1.12 WORKMANSHIP**

1. INSTALL EQUIPMENT, CONDUIT AND CABLES IN A WORKMANLIKE MANNER TO PRESENT A NEAT APPEARANCE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. INSTALL CONDUITS AND CABLE RUNS PARALLEL AND/OR PERPENDICULAR TO BUILDING GRID LINES & COLUMNS IN CEILING SPACES, CHASES & BEHIND FURRING. IN AREAS WHERE SYSTEMS ARE TO BE EXPOSED, INSTALL NEATLY AND GROUP TO PRESENT A TIDY APPEARANCE.
2. INSTALL EQUIPMENT AND APPARATUS REQUIRING MAINTENANCE, ADJUSTMENT OR EVENTUAL REPLACEMENT WITH ADEQUATE CLEARANCES AND ACCESSIBILITY FOR SAME.
3. INCLUDE, IN THE WORK, ALL REQUIREMENTS SHOWN ON THE SHOP DRAWINGS OR MANUFACTURERS' INSTALLATION INSTRUCTIONS.
4. REPLACE WORK UNSATISFACTORY TO THE CONTRACT ADMINISTRATOR WITHOUT EXTRA COST.
5. USE OF CLIPS FOR SECURING ACRO TO CEILING SYSTEM IS PROHIBITED.
6. ALL CONDUITS MUST BE CLIPPED TO STRUCTURAL CONCRETE BY MEANS OF SUITABLE ANCHORS OR SUPPORTED BY UNISTRUT HANGERS AS CLOSE TO UNDERSIDE AS POSSIBLE. TYE WRAPS FOR WIRE HANGING AND FASTENING IS NOT ACCEPTABLE. PERFORATED STRAPPING IS ALSO UNACCEPTABLE. ALL ELECTRICAL COMPONENTS MUST BE SUPPORTED INDEPENDENTLY.
7. ALL ELECTRICAL SUPPORTS AND HANGER SHALL CONFORM TO LATEST EDITION OF CANADIAN ELECTRICAL CODE AND/OR MANUFACTURERS' INSTALLATION INSTRUCTIONS.

**2.0 MATERIALS AND INSTALLATION**

**2.1 OUTLET BOXES**

1. OUTLET, JUNCTION AND SWITCH BOXES SHALL BE GALVANIZED PRESSED STEEL OF SIZE AND TYPE TO SUIT EACH INDIVIDUAL APPLICATION.
2. OUTLETS SHALL NOT BE LOCATED ANYWHERE ON THE EXTERIOR CURTAIN WALL. OUTLETS SHOWN SHALL BE MOUNTED ON THE NEAREST DIVIDING WALL 2 FROM OUTSIDE WALL, OR NEAREST FURRED OUT COLUMN.
3. PROVIDE ALL REQUIRED ACCESS PANELS WITH SUITABLE FIRE RATINGS FOR THE WALL OR CEILING THEY ARE BEING INSTALLED IN.

**2.2 WIRING & CABLE**

1. EXISTING WIRING & CABLE INCLUDING INSULATION THAT IS FRAID, CRACKED OR DEEM NOT TO CODE SHALL BE REPLACED TO MEET CODE.
2. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL WIRE & CABLE SHALL BE COPPER, MINIMUM #12 AWG WITH 600V (90 DEGREES CELSIUS) X-LINK POLYETHYLENE INSULATION, UNLESS OTHERWISE NOTED OR PROHIBITED BY AUTHORITY HAVING JURISDICTION. ALL WIRING & CABLE TO BE IN ELECTRIC METALLIC TUBING.
3. WIRING & CABLE IN CONCRETE OR MASONRY CONSTRUCTION SHALL BE INSTALLED IN STEEL ELECTRIC METALLIC TUBING (EMT), PROVIDE A SEPARATE GROUNDING CONDUCTOR IN EMT. CONDUIT RUNS EMBEDDED IN CONCRETE SLABS. CONDUITS INSTALLED IN AREAS EXPOSED TO MOISTURE SHALL HAVE WATER TIGHT FITTINGS.
4. ALL WIRING & CABLE IN FINISHED AREAS SHALL BE CONCEALED. ALL CONDUCTORS AND CONDUITS SHALL BE RUN PERPENDICULAR OR PARALLEL TO THE BUILDING CORE WALLS.
5. CONDUIT, WIRING AND CABLE SHALL BE GROUPED WHERE POSSIBLE AND CLIPPED IN A NEAT AND WORKMANLIKE MANNER.
6. ALL WIRING IN SERVICE AREAS TO BE IN SURFACE MOUNTED EMT. DO NOT RUN CONDUIT HORIZONTALLY ON WALLS, VERTICAL DROPS ONLY.

**2.3 IDENTIFICATION OF EQUIPMENT**

1. ALL EQUIPMENT SHALL BE IDENTIFIED WITH 3/8" X 1/2" (1/8" LETTERS) ENGRAVED LAMACOID NAMEPLATES INDICATING PANEL AND CIRCUIT NUMBER. LAMACOIDS SHALL BE EITHER SCREWED OR RIVETED IN PLACE. WITH EXCEPTION TO RECEPTACLES AND LIGHTING SWITCHES, SELF ADHESIVE TYPE IS ACCEPTABLE. LAMACOIDS SHALL BE WHITE LETTERING ON RED FACE FOR EMERGENCY AND FIRE ALARM DEVICES AND WHITE LETTERING ON BLACK FACE TO NORMAL POWER DEVICES AND COMMUNICATION PANELS.
2. PROVIDE 1" X 3" LAMACOIDS FOR EACH NEW PANEL.

**2.4 CUTTING AND PATCHING**

1. ARRANGE AND PAY FOR ALL CUTTING AND PATCHING AS REQUIRED FOR THE ELECTRICAL INSTALLATION.
2. PROVIDE & INSTALL APPROPRIATE FIRE STOP AT ALL FIRE WALL & OR FLOOR PENETRATIONS. ACCEPTABLE MANUFACTURERS: HILTI, DOW CORNING, FIRE-STOP SYSTEMS (ELASTA-SEAL) OR G.E. SILICONE.
3. REFER TO MANUFACTURERS' SPECIFICATIONS FOR PRODUCT AND INSTALLATION DETAILS.

**2.5 DEVICES**

1. COLORS OF RECEPTACLES, SWITCHES, OUTLETS AND COVER PLATES SHALL BE WHITE, UNLESS NOTED OTHERWISE.
3. ACCEPTABLE MANUFACTURERS FOR COMMERCIAL SPEC RECEPTACLES SHALL BE HUBBELL, ARROW HART, BRYANT, LEVITON, WOODHEAD, PASS & SEYMOUR, MOUNT PANEL RECEPTACLES 48" ABOVE FINISH FLOOR, UNLESS OTHERWISE NOTED.
4. PROVIDE WHITE COVER PLATES FOR DEVICES.

**2.6 EQUIPMENT AND PANEL**

1. PANELBOARD, "201"
2. MAIN LUGS ONLY: 400 AMPERE MAXIMUM, #6-300 MCM
3. VOLTAGE: 240V AC MAXIMUM, 3-PHASE, 4-WIRE
4. MAXIMUM BRANCH BREAKERS (2-POLE 125A), 100 AMPERE
6. BOLT-ON BRANCH BREAKERS
7. TIN-PLATED ALUMINUM BUS
8. COMPLETE WITH BOX, INTERIOR, TRIM, (35) 15A/1P BREAKERS, (4) 20A/1P BREAKERS, (2) 30A/2P BREAKERS, (3) 40A/2P BREAKERS, (1) 50A/2P BREAKER
9. AMPERE RATING: 225A
10. I.C. RATING 10KA
11. BRANCH CIRCUITS: 64
9. ACCEPTABLE MANUFACTURERS ARE EATON POW-R-LINE 1a, COMPLETE PANELBOARD FACTORY ORDER P14L442-84 OR EQUIV.

**NOTES:**

REFER TO DRAWING E1.

No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	DTA	2017 02.17



DRAWN	DTA	CHECKED	DESIGNED	DTA	APPROVED
DATE	2016.12.22	USER	APPROVAL		

THE CITY OF WINNIPEG  
PLANNING, PROPERTY AND  
DEVELOPMENT DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
3-65 GARRY STREET, R3C 4K4

PROJECT  
FORMER POST OFFICE TOWER  
BUILDING CODE UPGRADES

266 GRAHAM AVENUE

SHEET TITLE  
PARTIAL SECOND FLOOR REFLECTED CEILING PLAN  
UNITS 204 & 206 - DEMOLITION AND RENOVATION  
LIGHTING AND SPECIFICATIONS

SCALE	PROJECT No:	SHEET No:
AS SHOWN	2014-146-02	E2