## LIGHTING

- LIGHTING FIXTURE CEILING MOUNTED
- LIGHTING FIXTURE WALL MOUNTED
- LIGHTING FIXTURE 24H, CEILING MOUNTED
- LIGHTING FIXTURE 24H, WALL MOUNTED
- LIGHTING FIXTURE CONNECTED TO NORMAL POWER, WALL MOUNTED
- LIGHTING FIXTURE CONNECTED TO NORMAL POWER, CEILING MOUNTED
- SINGLE HEAD LOW VOLTAGE LIGHTING FIXTURE, WALL MOUNTED
- DOUBLE HEAD LOW VOLTAGE LIGHTING FIXTURE, WALL MOUNTED
- BATTERY UNIT c/w 2 LIGHTING HEADS
- EXIT LIGHTING FIXTURE, WALL MOUNTED
- CYLINDRICAL LIGHTING FIXTURE TYPE L13

## LIGHTING DEVICES

- SINGLE POLE SWITCH 15A, 125V
- $_3$ THREE-WAY SWITCH, 15A, 125V
- $_{WP}$ WEATHER PROOF SINGLE POLE SWITCH, 15A, 125V
- DIMMER SWITCH
- $_{TW}$ TUNABLE WHITE SWITCH
- SWITCH c/w OCCUPANCY SENSOR, WALL MOUNTED
- SINGLE POLE SWITCH, 15A, 125V, WITH PILOT LIGHT

## RECEPTACLES

- DUPLEX RECEPTACLE, 15A, 125V, TAMPER RESISTANT
- DUPLEX RECEPTACLE, ABOVE COUNTER, TAMPER RESISTANT
- IPC INTELLIGENT PROGRAMMABLE DUPLEX RECEPTACLE, 15A, 125V
- WP WEATHER PROOF DUPLEX RECEPTACLE, 15A, 125V, TAMPER RESISTANT
- COMBINATION DUPLEX RECEPTACLE, 15/20A, 125V, TAMPER RESISTANT
- COMBINATION DUPLEX RECEPTACLE, 15/20A, 125V, ABOVE COUNTER, TAMPER RESISTANT
- 30A SINGLE RECEPTACLE, 30A, 125/250V, 4 WIRES, CSA 14-30R
- 50A SINGLE RECEPTACLE, 50A, 125/250V, 4 WIRES, CSA 14-50R
- GFI RECEPTACLE WITH GROUND FAULT INTERRUPTER

## FIRE ALARM SYSTEM

- F MANUAL PULL STATION WITH GUARD PROTECTOR
- F SMOKE DETECTOR
- F/R DUCT SMOKE DETECTOR c/w RELAY
- R CONTROL RELAY MODULE
- S STROBE LIGHT WEATHER PROOF, WALL MOUNTED
- P SIREN – WEATHER PROOF WALL MOUNTED
- S COMBINED HORN AND STROBE
- F HORN, WALL MOUNTED
- MSA SUPERVISION MODULE
- FAP FIRE ALARM PANEL
- END OF LINE RESISTOR
- MI ISOLATOR MODULE

## DISTRIBUTION

- 120/208V, THREE-PHASE PANEL, SURFACE MOUNTED
- 347/600V, THREE-PHASE PANEL, SURFACE MOUNTED
- MANUAL TRANSFERT SWITCH
- DISCONNECT SWITCH WITH RECEPTACLE
- FUSED DISCONNECT SWITCH, 120V/240V
- UNFUSED DISCONNECT SWITCH, 120V/240
- FUSED DISCONNECT SWITCH, 600V/208-3P
- UNFUSED DISCONNECT SWITCH, 600V/208-3P
- COMBINED MAGNETIC STARTER
- XFO POWER TRANSFORMER
- MANUAL STARTER WITH PILOT LAMP
- PULL BOX OR JUNCTION BOX
- W WASHROOM EQUIPMENT SENSORS CONNECTION, COORDINATE EXACT LOCATION WITH MECHANICAL DIVISION
- H CONTROL PANEL AND HOOD CONNECTION
- HT HEAT-TRACING CONNECTION
- M RADIANT HEATING MANIFOLDS CONNECTION
- V VENTILATION UNIT CONNECTION
- 1/3 SINGLE PHASE MOTOR, 1/3 HP
- 10 THREE PHASE MOTOR, 10 HP
- P.C. CONTROL PANEL c/w DISCONNECT SWITCH, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR BUT CONNECTED BY ELECTRICAL CONTRACTOR
- ONE (1) METER CLEARANCE AREA

## TELEPHONE AND DATA

- TELEPHONE OUTLET, WALL MOUNTED
- TELEPHONE OUTLET, WALL MOUNTED, HEIGHT ACCORDING TO SPECS
- DATA OUTLET, WALL MOUNTED
- DATA OUTLET, WALL MOUNTED, HEIGHT ACCORDING TO SPECS
- COMBINED TELEPHONE AND DATA OUTLETS, WALL MOUNTED
- COMBINED TELEPHONE AND DATA OUTLETS, WALL MOUNTED, HEIGHT ACCORDING TO SPECS
- CEILING MOUNTED WI-FI ROUTER/ANTENNA/RECEPTACLE

## SECURITY SYSTEM

- DOME CAMERA
- NVR NETWORK VIDEO RECORDER
- SM SCREEN MONITOR
- AFX CONTROLLER FOR INTRUSION AND ACCESS CONTROL
- KP KEYPAD TO ENABLE OR DISABLE THE INTRUSION SYSTEM
- GB GLASSBREAK DETECTOR
- C MAGNETIC DOOR CONTACT
- AS LOCAL AUDIBLE ALARM
- MOTION DETECTOR
- PB ELECTRIFIED PANIC BAR 3-15S
- CR MAGNETIC CARD READER
- DOOR PUSH BUTTON
- CT CURRENT TRANSFER
- G ELECTRIC STRIKE
- R CONTROL RELAY MODULE
- JB JUNCTION BOX
- PS POWER SUPPLY
- SIG AUTOMATIC SIGNALER
- 101 / 01 DOOR NUMBER / HARDWARE GROUP

## MISCELLANEOUS

- NEW OUTDOOR LIGHTING POLE
- UNDERGROUND CONDUIT
- AG PVC CONDUIT FIXED UNDER BUILDING
- P EXISTING OVERHEAD CABLES 25kV (QULLIQ & NORTHWESTEL)
- P NEW OVERHEAD CABLES 25kV (QULLIQ & NORTHWESTEL)
- MALT GROUNDING SYSTEM
- EP EXISTING POLE
- NP NEW ELECTRICAL POLE (BY QEC)
- XXXX DOOR NUMBER
- MALT GROUNDING
- WP WEATHERPROOF
- HM MOUNTING HEIGHT
- c/w COMPLETE WITH
- V/G GREEN
- BAS BUILDING AUTOMATIC SYSTEM
- 2 No.12 AWG + 1#12 GREEN WIRES IN 21mm CONDUIT
- 2 No.10 AWG + 1#12 GREEN WIRES IN 21mm CONDUIT
- 3 No.12 AWG + 1#12 GREEN WIRES IN 21mm CONDUIT
- 3 No.10 AWG + 1#12 GREEN WIRES IN 21mm CONDUIT
- UPWARD CONDUIT
- DOWNWARD CONDUIT
- T TELEPHONE CONDUIT
- I DATA CONDUIT
- PULL BOX OR JUNCTION BOX

### NOTES FOR THE CONDUITS ROUTING:

ELECTRICAL CONDUIT LAYOUT FOR ALL OPEN CEILING ROOMS ON THE GROUND AND 1ST FLOOR MUST BE SUBMITTED FOR REVIEW TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.

- LAYOUT IS TO PRIORITIZE THE USAGE OF CEILING DROPS CLOSE TO WALLS AND THE USAGE OF EXTERIOR WALLS FOR HORIZONTAL CONDUIT INSTALLATIONS;
- ALL CONDUITS EXCEPT LIGHTING FIXTURE ELECTRICAL FEED MUST BE HIDDEN, SURFACE INSTALLATIONS FOR ALL OTHER SYSTEMS ARE PROHIBITED;
- FOR THE CORRIDORS THE ELECTRICAL CONTRACTOR HAS TO COORDINATE WITH THE VENTILATION CONTRACTOR IN ORDER TO INSTALL ALL STRUCTURAL SUPPORT FOR FURTHER INSTALLATION OF ELECTRICAL BOXES AND CONDUITS PRIOR TO HIS INSTALLATION.
- THE SHORTEST WAY IS NOT ALWAYS POSSIBLE IN THE CORRIDOR CEILINGS SINCE THERE IS A LOT OF MECHANICAL CONDUIT TO BE INSTALLED.
- ELECTRICAL CONTRACTOR IS TO PROVIDE A MINIMUM OF 12 FLUSH AND FLANGELESS ACCESS TRAP DOORS 305mm x 305mm FOR INSTALLATION IN THE GYPSUM CEILINGS AND WALLS OR ENOUGH FOR HIS ROUTING DESIGN IF IT IS MORE THAN 12. INSTALLATION BY THE GENERAL CONTRACTOR, COORDINATE WITH THE OTHER CONTRACTORS TO COMBINE ACCESS AND REDUCE THE AMOUNT OF ACCESS TRAPS.

THE ELECTRICAL CONTRACTOR HAS TO CONSIDER ENOUGH CONDUIT, BOXES, JUNCTIONS, WIRES AND ALL NECESSARY HARDWARE AND WORKING HOURS TO COMPENSATE THE DIFFERENCE BETWEEN THE INITIAL AND FINAL CONDUIT LAYOUT.

**LIST OF SPARE EQUIPMENTS - ELECTRICITY TO PROVIDED**

| DESCRIPTION | QUANTITY | NOTES |
|---|---|---|
| **DESTRIBUTION EQUIPMENTS** | | |
| MANUEL STARTOR WITH PILOT LIGHT | 4 | |
| THERMAL PROTECTION ELEMENT | 4 | |
| MAINTENANCE SWITCH 30A-120V | 2 | |
| FAST ACTION FUSE FOR EACH SIZE | 4 | |
| DELAY ACTION FUSE FOR EACH SIZE | 4 | |
| DUPLEX RECEPTACLE 15A-120V, TAMPER RESISTANT | 10 | c/w COVER PLATE |
| DUPLEX RECEPTACLE 15/20A-120V, TAMPER RESISTANT | 5 | c/w COVER PLATE |
| DUPLEX RECEPTACLE 15/20A-120V, GFI, TAMPER RESISTANT | 5 | c/w COVER PLATE |
| DUPLEX RECEPTACLE 15/20A-120V, WP, TAMPER RESISTANT | 5 | c/w WEATHER PROOF COVER PLATE |
| INTELLIGENT PROGRAMMABLE DUPLEX RECEPTACLE 15A-120V | 2 | c/w WEATHER PROOF COVER PLATE |
| **COMMUNICATION EQUIPMENTS** | | |
| TELEPHONE OUTLET | 3 | |
| DATA OUTLET | 3 | |
| COMBINED TELEPHONE AND DATA OUTLET | 5 | |
| **LIGHTING EQUIPMENTS** | | |
| SINGLE POLE SWITCH 15A-120V | 4 | c/w COVER PLATE |
| SINGLE POLE SWITCH 15A-120V c/w POLE LIGHT | 2 | c/w COVER PLATE |
| THREE WAY SWITCH 15A-120V | 2 | c/w COVER PLATE |
| THREE WAY SWITCH 15A-120V c/w POLE LIGHT | 2 | c/w COVER PLATE |
| DIMMER SWITCH & TUNABLE WHITE SWITCH | 4 | c/w COVER PLATE |
| **COMPLETE LIGHTING FIXTURES** | | |
| TYPE L2 | 2 | |
| TYPE L4 | 2 | |
| TYPE L5 | 2 | |
| TYPE L12 | 2 | |
| **FIRE ALARM EQUIPMENTS** | | |
| SMOKE DETECTOR | 2 | |
| MANUAL PULL STATION c/w GUARD PROTECTOR | 2 | |
| CONTROL RELAY MODULD | 4 | |
| SUPERVISION MODULE | 4 | |
| COMBINED HORN AND STROBE | 4 | |
| **SECURITY EQUIPMENTS** | | |
| DOME CAMERA | 1 | |
| GLASSBREAK DETECTOR | 2 | |
| MAGNETIC DOOR CONTACT | 2 | |
| LOCAL AUDIBLE ALARM | 2 | |
| MOTION DETECTOR | 2 | |


Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest


**PRELIMINARY**
**NOT FOR CONSTRUCTION**


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| Revision | Description | Date |
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Client / client

**Indigenous and Northern Affairs Canada**

**Public Works and Gouverment Services Canada**

Project title / Projet

**NEW IQALUIT DAYCARE**

Designed by / Conçu par: **R.H.**

Drawn by / Dessiné par: **J.F.**

Approved by / Approuvé par: **R.H.**

PWGSC Project Manager / Administrateur de Projets TPSGC: **Russell Knister**

Drawing title / Titre du dessin

**ELECTRICITY**

**LEGEND**

| Project no./No. du projet | Drawing no./No. du dessin | Revision no. |
|---|---|---|
| 648139 | E001<br>2 OF 21 | 1 |

PWGSC – A1 – 841X594

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