LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	CATALOGUE NO.	LAMPS	MOUNTING
A	RECESSED LED 610mm X 610mm, ACRYLIC LENS, 0-10V DIMMING.	LITHONIA: # 2ACL2-35L-D38-LP840 PHILIPS: # 2CL-G-36L-840-2-D-UNV-DIM COOPER: # 22EN-LD1-34-UNV-L840-CD1-U	38W LED, 3500 LUMEN, CCT 4000K, 82 CRI	RECESSED IN CEILING.
B1	LED LINEAR SUSPENDED FIXTURE, 1220mm, 100% DIRECT, 0-10V DIMMING.	PINNACLE: # L6A100-40HO-4-AC48-UNV-1D-W PEERLESS: # SPM9L-HI-0/100-WHR-4FT-R4-120-EZB-SCT-LP840-12-C032 COOPER: # J2-WL-1L40-1D-UNV-AC48-4-DLED	11.9W/FT LED, 975 LUMEN/FT, CCT 4000K, 82 CRI	SUSPENDED 2.7m A.F.F. (USE APPROPRIATE MOUNTING BRACKET FOR CEILING TYPE)
B2	LED LINEAR SUSPENDED, CONTINUOUS RUN OF 2440mm, 80% DIRECT, 20% INDIRECT, 0-10V DIMMING.	PINNACLE: # L6A80-40HO-8-AC48-UNV-1D-W PEERLESS: # SPM9L-HI-20/80-WHR-8FT-R4-120-EZB-SCT-LP840-48-C032 COOPER: # J2-WL-1L40-1D-UNV-AC48-8-DL4	11.9W/FT LED, 975 LUMEN/FT, CCT 4000K, 82 CRI	SUSPENDED 2.7m A.F.F. (USE APPROPRIATE MOUNTING BRACKET FOR CEILING TYPE)
B3	LED LINEAR SUSPENDED, CONTINUOUS RUN OF 3660mm, 80% DIRECT, 20% INDIRECT, 0-10V DIMMING.	PINNACLE: # L6A80-40HO-12-AC48-UNV-1D-W PEERLESS: # SPM9L-HI-20/80-WHR-12FT-R4-120-EZB-SCT-LP840-48-C032 COOPER: # J2-WL-1L40-1D-UNV-AC48-12-DL4	11.9W/FT LED, 975 LUMEN/FT, CCT 4000K, 82 CRI	SUSPENDED 5m A.F.F. (USE APPROPRIATE MOUNTING BRACKET FOR CEILING TYPE)
B6	LED LINEAR SUSPENDED, CONTINUOUS RUN OF 7320mm, 80% DIRECT, 20% INDIRECT, 0-10V DIMMING.	PINNACLE: # L6A80-40HO-24-AC48-UNV-1D-W PEERLESS: # SPM9L-HI-20/80-WHR-24FT-R4-120-EZB-SCT-LP840-48-C032 COOPER: # J2-WL-1L40-1D-UNV-AC48-24-DL4	11.9W/FT LED, 975 LUMEN/FT, CCT 4000K, 82 CRI	SUSPENDED 5m A.F.F. (USE APPROPRIATE MOUNTING BRACKET FOR CEILING TYPE)
B8	LED LINEAR SUSPENDED, CONTINUOUS RUN OF 9760mm, 80% DIRECT, 20% INDIRECT, 0-10V DIMMING.	PINNACLE: # L6A80-40HO-32-AC48-UNV-1D-W PEERLESS: # SPM9L-HI-20/80-WHR-32FT-R4-120-EZB-SCT-LP840-48-C032 COOPER: # J2-WL-1L40-1D-UNV-AC48-32-DL4	11.9W/FT LED, 975 LUMEN/FT, CCT 4000K, 82 CRI	SUSPENDED 3m A.F.F. (USE APPROPRIATE MOUNTING BRACKET FOR CEILING TYPE)
C	6" LED OPEN DOWNLIGHT, RUGGED 16-GAUGE GALVANIZED STEEL FRAME, SPECULAR CLEAR LENS.	LITHONIA: # REAL6C-D6AZ-ESL-1500L-40K-.95SC-120-LP6LN COOPER: # LD6A15D010TE-ERM6A15840-6LM1LI-WF-HB26 PHILIPS: # C6L-15-N-U-VB-Z10V-C6L1520DL-40K-W-CCL	18.8W LED, 1500 LUMEN, CCT 4000K, 82 CRI	RECESSED IN CEILING.
Cd	6" LED OPEN DOWNLIGHT, RUGGED 16-GAUGE GALVANIZED STEEL FRAME, SPECULAR CLEAR LENS, 0-10V DIMMING.	LITHONIA # REAL6C-D6AZ-ESL-1500L-40K-.95SC-120-LP6LN-NSD COOPER: # LD6A15D010TE-ERM6A15840-6LM1LI-WF-HB26 PHILIPS: # C6L-15-N-U-VB-Z10V-C6L1520DL-40K-W-CCL	18.8W LED, 1500 LUMEN, CCT 4000K, 82 CRI	RECESSED IN CEILING.
E	LENSED LED STRIPLIGHT, 1220mm, C/W AIRCRAFT CABLE KIT.	LITHONIA: # ZL2N-L48-5000LM-MDD-MVOLT-40K-80CRI-WH-ZACVH COOPER: # SNLED-LD1-52-UNV-LW-L840-CD1-U-Y-TOGGLE-10 PHILIPS: # LF4-10-41-40-U-LAG-SVC60	72W LED, 5000 LUMEN, CCT 4000K, 80 CRI	SUSPENDED 3m A.F.F. (USE APPROPRIATE MOUNTING BRACKET FOR CEILING TYPE)
Es	LENSED LED STRIPLIGHT, 1220mm.	LITHONIA: # ZL2N-L48-5000LM-MDD-MVOLT-40K-80CRI-WH COOPER: # SNLED-LD1-52-UNV-LW-L840-CD1-U PHILIPS: # LF4-10-41-40-U-LAG	72W LED, 5000 LUMEN, CCT 4000K, 80 CRI	SURFACE MOUNT TO CEILING.
F	6" LED RECESSED DOWNLIGHT, CLEAR SPECULAR LENS, C/W GASKET, SUITABLE FOR WET LOCATIONS.	LITHONIA: # REAL6C-D6AZ-ESL-1000L-40K-.90SC-L7XLED-T24 COOPER: # LD6A10D010TE-ERN6A10840-6LN1LI-HB26-LGSKT6IP66 PHILIPS: # C6L-10-N-VB-Z10V-C6L10DL-40K-W-CCL	11W LED, 1000 LUMEN, CCT 4000K, 80 CRI	RECESSED IN CEILING.
G	RECESSED LED 610mm X 610mm, #19 PATTERN ACRYLIC LENS.	LITHONIA: # 2TL2-33L-FW-A19-D38-LP840 PHILIPS: # 2TG-38L-840-2-FS-A19-UNV COOPER: # 2GR-LD1-32-A19/156-UNV-L840-CD1-U	38W LED, 3300 LUMEN, CCT 4000K, 82 CRI	RECESSED IN T-BAR CEILING.
Gg	RECESSED LED TROFFER, 610mm X 610mm, #19 PATTERN ACRYLIC LENS, C/W DRYWALL KIT.	LITHONIA: # 2TL2-33L-FW-A19-D38-LP840-DGA22 PHILIPS: # 2TG-38L-840-2-FS-A19-UNV-FMA22 COOPER: # 2GR-LD1-32-A19/156-UNV-L840-CD1-U-DF22W	38W LED, 3300 LUMEN, CCT 4000K, 82 CRI	RECESSED IN GWB CEILING.
H	RECESSED LED TROFFER, 610mm X 610mm, VANDAL RESISTANT, SEALED AND GASKETED UNIT, 0.25" CLEAR POLYCARBONATE LENS.	COOPER: # SGI-G-2-LD3-3-HI-40-CP250-FA-UNV-ED1C-TP NEWSTAR: # 57L22-DC-L4401-2/B-12 KENALL: # MMPCADE22-F-0/0-9-1/2-45L40K-DCC-DV	72W LED, 4270 LUMEN, CCT 4000K, 82 CRI	RECESSED IN T-BAR CEILING.
Hg	RECESSED LED 610mm X 610mm, VANDAL RESISTANT, SEALED AND GASKETED UNIT, 0.25" CLEAR POLYCARBONATE LENS, C/W DRYWALL KIT.	COOPER: # SGI-G-2-LD3-3-HI-40-CP250-FA-UNV-ED1C-TP-DF22W-U NEWSTAR: # 57L22-DC-L4401-2/B-12 KENALL: # MMPCADE22-F-0/0-9-1/2-45L40K-DCC-DV	72W LED, 4270 LUMEN, CCT 4000K, 82 CRI	RECESSED IN GWB CEILING.
I	FLOURESCENT FIXTURE, VANDAL RESISTANT, CORNER MOUNT, 14GA STEEL HOUSING, C/W FLORESCENT NIGHT LIGHT.	COOPER # FMC-X-232-UNV-80/86-EB81-FNL	32W T8, CCT 4100K, 85 CRI	CORNER MOUNT BETWEEN CEILING AND WALL.
J	SURFACE MOUNT DRUM FIXTURE, WHITE ACRYLIC DIFFUSER, 279mm DIAMETER, LISTED FOR DAMP LOCATIONS.	HUBBELL # CF11-2-13	2 x 13W QUAD TUBE	SURFACE MOUNT TO CEILING.
K	LED INDUSTRIAL LUMINAIRE, 1220mm, SUITABLE FOR WET LOCATIONS, ENCLOSED AND GASKETED.	PHILIPS: # DWAE43L840-4-UNV-CM LITHONIA: # FEM4LED-4L-IMAFL-120-WFL COOPER: # VT-LD2-55DR-W-UNV-L840-CD2-WL-U	49W LED, 4300 LUMEN, CCT 4000K, 80 CRI	SURFACE MOUNT TO CEILING.
L	LED WALL DIRECT FIXTURE, 0-10V DIMMING, 2440mm, BLACK FINISH.	PHILIPS: # 1228LAGQP-08-7-1-E-B (FLAT ENDCAP) PEERLESS: # SQWS-HI-8FT-R8-120-EZB-SCT-LP840-C099-SCEP COOPER: # S22DW-2L40-SR-8-U-DD-SI-S92-XX	28.1W LED & 2400 LUMEN per 4FT, CCT 4000K, 82 CRI	WALL MOUNT 3m A.F.F.
M1	SUSPENDED LINEAR LED FIXTURE, VANDAL RESISTANT, HEAVY DUTY RUGGED CONSTRUCTION, RIBBED POLYCARBONATE LENS, 20GA CRS REFLECTOR, 610mm. FIXTURE TO COME C/W STEM SETS FOR MOUNTING.	COOPER: # HVSL12-2-LD3-3HI-40-UNV-O-ED1C-SF1-SCF-48-B NEWSTAR: # VIC2W-L4401-RW-12-WH KENALL: # MLHA12-24-F-MW-PP-50L40K-DCC-DV-PM	77.8W LED, 4548 LUMEN, CCT 4000K, 82 CRI	SUSPENDED 2.9m A.F.F.
M2	SUSPENDED LINEAR LED FIXTURE, VANDAL RESISTANT, HEAVY DUTY RUGGED CONSTRUCTION, RIBBED POLYCARBONATE LENS, 20GA CRS REFLECTOR, 1220mm, 2 CIRCUIT. FIXTURE TO COME C/W STEM SETS FOR MOUNTING.	COOPER: # HVSL12-4-LD3-2HI-40-UNV-O-ED2C-SF1-SCF-48-B NEWSTAR: # VIC4W-L4402-RW-12-WH KENALL: # MLHA12-48-F-MW-PP-100L40K-DCC-DV-PM-2CCT	102.4W LED, 6503 LUMEN, CCT 4000K, 82 CRI	SUSPENDED 2.9m A.F.F.
M3	LINEAR LED FIXTURE, VANDAL RESISTANT, HEAVY DUTY RUGGED CONSTRUCTION, RIBBED POLYCARBONATE LENS, 20GA CRS REFLECTOR, 1220mm, 1 CIRCUIT.	COOPER: # HVSL12-4-LD3-2HI-40-UNV-O-ED1C-SF1 NEWSTAR: # VIC4W-L4401-RW-12-WH KENALL: # MLHA12-48-F-MW-PP-100L40K-DCC-DV	102.4W LED, 6503 LUMEN, CCT 4000K, 82 CRI	SURFACE MOUNT TO CEILING.
N	LED LINEAR WALL FIXTURE, 610mm.	EUREKA: # 3540-23-LED.9.40-120V-SC-WH XTC LIGHTING: # WS-2954-24-LED-SN-MWD-120	9W LED, 540 LUMEN, CCT 4000K, 80 CRI	WALL MOUNTED ABOVE BATHROOM MIRROR.
TL	LED TASK LIGHT FOR DESKTOP APPLICATION, DIMMABLE, 120V PLUG-IN, TASK LIGHT C/W POWER CORD.	CONTEMPORARY LIGHTING: # E41030-SA ARTEMIDE: # LED/8W	9W LED, CCT 3200K	DESK MOUNTED.
Q	LED OUTDOOR SIGN FIXTURE, C/W WALL MOUNT BRACKET (150mm), BLACK COLOR, CONTINUOUS RUN OF 3m.	PAPPI LIGHTING: # LP08LED(3m LENGHT)-120-WM-MBA-EW-SKWM - 0 10V DIMMING PHILIPS: # BLN-70W-L-U-ASM-FGS-BK HTM LIGHTING: # PLL145-LED-3M-WALLMOUNT	50W LED, CCT 4600K	ABOVE OUTDOOR SIGN.
R2.4	LED WALL LUMINAIRE, TYPE IV MEDIUM DISTRIBUTION, BLACK FINISH.	LITHONIA: # DSXW1-LED-10C-530-40K-T4M-MVOLT-DMG-DBLXD PHILIPS: # 121-DIM-4-26LA-NW-UNIV-BLP COOPER: # ISW-C01-LED-E1-BL4-BK	20W LED, 1753 LUMEN, CCT 4000K, 70 CRI	EXTERIOR WALL MOUNT 3.8m A.F.G.
S1.4	LED AREA LUMINAIRE, TYPE IV MEDIUM DISTRIBUTION, BLACK FINISH, C/W FACTORY INSTALLED HOUSE-SIDE SHIELD.	LITHONIA: # DSX1-LED-30C-700-40K-T4M-MVOLT-SPA-HS-DBLXD PHILIPS: # ECF-1-4-70LA-3270-NW-UNV-BLP-IS COOPER: # GLEON-AE-02-LED-E1-SL4-BK-700-HS	68W LED, 6736 LUMEN, CCT 4000K, 70 CRI	POLE MOUNT.
S1.5	LED AREA LUMINAIRE, TYPE V WIDE DISTRIBUTION, BLACK FINISH.	LITHONIA: # DSX1-LED-30C-700-40K-T5W-MVOLT-SPA-DBLXD PHILIPS: # ECF-1-5-70LA-3270-NW-UNV-BLP COOPER: # GLEON-AE-02-LED-E1-5WQ-BK-700	68W LED, 6847 LUMEN, CCT 4000K, 70 CRI	POLE MOUNT.
U	LED BOLLARD, ASYMMETRICAL, 120V, 0-10V DIMMING, ANCHORAGE UNIT, BLACK FINISH.	BEGA:# 9558 U.S. ARCHITECTURAL: # TNA/24LED120/RAL-9005-T BETA-CALCO: # 830-7612-BL	32W LED, 1053 LUMEN, CCT 4000K, 80 CRI	EXTERIOR SHAFT MOUNT.
W	OUTDOOR LED DOWNLIGHT,150mm, 0-10V DIMMING, WET LOCATION LISTED, BLACK.	LITHONIA: # REAL6CD6 -AZ-ESL-1500L-40K-.95SC-120-LP6LN-NSD-ISH PHILIPS: # C6L-15-N-U-VB-Z10V-C6L1520DL-40K-W-CCL COOPER: # LD6A15D010TE-ERM6A15840-6LM1LI-HB26-LGSKT6IP66	18.8W LED, 1500 LUMEN, CCT 4000K, 80 CRI	CANOPY RECESSED.

EMERGENCY LIGHTING SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER'S CATALOGUE NO.	LAMP(S)	MOUNTING
⇅	EMERGENCY LIGHTING BATTERY UNIT C/W DUAL HEADS, 18W / 12VDC SEALED BATTERY, 4W LED LAMP HEAD.	AIMLITE: # EBST-12036-2MD-4LR-WHT READY-LITE: # LDX12-36-2-LD7 LUMACELL: # RG12C-44-LD7-ZD	2 x 4W LED LAMP 12VDC	WALL MOUNTED.
⇅ V	EMERGENCY LIGHTING BATTERY UNIT C/W DUAL HEADS, VANDAL-RESISTANT 18W / 12VDC SEALED BATTERY, 4W LED LAMP HEAD.	AIMLITE: # EBQV12036-24LR-LMR16-WHT/VTX READY-LITE # LDX12-36VQ-LD7-TP LUMACELL # RG12-36-QB-2-LD7-TP	2 x 4W LED LAMP 12VDC	WALL MOUNTED.
⊗ V	ILLUMINATED EXIT SIGN (GREEN RUNNING MAN), VANDAL-RESISTANT, BATTERY, SINGLE FACE.	AIMLITE: # RPVR1WWHT-BAT READY-LITE: # RN-1-W-SP LUMACELL: # LN-1-W-S	LED	WALL MOUNTED.
↔ ⊗ V	ILLUMINATED EXIT SIGN (GREEN RUNNING MAN), VANDAL-RESISTANT, BATTERY, SINGLE FACE.	AIMLITE: # RPVR1WWHT-BAT READY-LITE: # RN-1-W-SP LUMACELL: # LN-1-W-S	LED	WALL MOUNTED.
⊗	ILLUMINATED EXIT SIGN (GREEN RUNNING MAN), BATTERY, SINGLE FACE.	AIMLITE # RPST1MWHT-BAT READY-LITE: # RS-1-SP-W LUMACELL: # LS-1-W-S	LED	WALL MOUNTED.
→ ⊗	ILLUMINATED EXIT SIGN (GREEN RUNNING MAN), BATTERY, SINGLE FACE.	AIMLITE # RPST1MWHT-BAT READY-LITE: # RS-1-SP-W LUMACELL: # LS-1-W-S	LED	WALL MOUNTED.
⊗	ILLUMINATED EXIT SIGN (GREEN RUNNING MAN), BATTERY, SINGLE FACE.	AIMLITE # RPST1MWHT-BAT READY-LITE: # RS-1-SP-W LUMACELL: # LS-1-W-S	LED	CEILING MOUNTED.

LEGEND:

SITE PLAN:

— — — —	INDICATES POWER / TELECOMMUNICATION UNDERGROUND LINE.
— ———	INDICATES ELECTRICAL SERVICES OVERHEAD LINE.
— — — —	INDICATES ELECTRICAL SERVICES UNDERGROUND LINE.
————	INDICATES EXPOSED CONDUIT.
- - - - - - - -	INDICATES CONCRETE ENCASED DUCT BANK OR U/G CONDUIT.
● PP	UTILITY POWER POLE.
←——	POLE GUY.
S1.4 ●◁	POLE MOUNTED SITE LUMINAIRE. S1.4 - INDICATES TYPE IN LUMINAIRE SCHEDULE.
⊙	GROUNDING ROD.
⊡	GROUND ROD ELECTRODE WITH INSPECTION BOX.
○	BOLLARD.

LIGHTING LAYOUT:

A	INDICATES TYPE IN LUMINAIRE SCHEDULE.
b	INDICATES SWITCHING.
▭	LUMINAIRE.
EBP1-6	INDICATES CIRCUIT NUMBER.
□	LUMINAIRE, RECESSED MOUNTED.
▭	LUMINAIRE, SUSPENDED/SURFACE MOUNT.
▭	LUMINAIRE, WALL MOUNTED.
◎	LUMINAIRE, POTLIGHT RECESSED.
□	LUMINAIRE, EXTERIOR WALL MOUNTED.
TL	TASK LIGHTING.
$\$^{b}_{D, V, N}$	LIGHTING SWITCH, SINGLE GANG. b - INDICATES SWITCHING. D - INDICATES DIMMING SWITCH. V - INDICATES VANDAL PROOF. N - INDICATES NIGHT LIGHT SWITCH.
$\$^{GP}_{D}$	GRAPHIC WALL PAD LIGHTING CONTROL. D - INDICATES DIMMING
$\$^{b}_{D, V, Y, 3}$	LIGHTING SWITCH, DUAL GANG. D - INDICATES DIMMING SWITCH. V - INDICATES VANDAL PROOF. b - INDICATES SWITCHING. 3 - INDICATES 3-WAY.
OS_{b}	OCCUPANCY SENSOR, CEILING MOUNTED. b - INDICATES SWITCHING.
VS_{b}	VACANCY SENSOR, CEILING MOUNTED. b - INDICATES SWITCHING.
VS	VACANCY SENSOR, WALL MOUNTED.
DS_{b}	DAYLIGHT SENSOR, CEILING MOUNTED. b - INDICATES SWITCHING
DS^{S}_{b}	DAYLIGHT SENSOR, SUSPENDED. b - INDICATES SWITCHING
↔ ⊗ V	ILLUMINATED EXIT SIGN, SINGLE FACE, WALL MOUNTED. V - INDICATES VANDAL PROOF. ARROWS - INDICATES PATH OF EGRESS.
⊗	ILLUMINATED EXIT SIGN, SINGLE FACE, CEILING MOUNTED.
⇅ V	EMERGENCY LIGHTING BATTERY UNIT C/W DUAL HEADS, WALL MOUNTED. V - INDICATES VANDAL PROOF.
PP1-16	POWER PACK. 1 - INDICATES NUMBER OF INTERNAL RELAY. 16 - INDICATES MAXIMUM OF 16A LIGHTING LOAD.
PP1-5D	DIMMING POWER PACK . 1 - INDICATES NUMBER OF INTERNAL RELAY. 5 - INDICATES MAXIMUM OF 5A LIGHTING LOAD. D - INDICATES DIMMING.

TELECOMMUNICATIONS LAYOUT:

▽	TELEPHONE OUTLET.
▼ CT	TELECOMMUNICATIONS OUTLET. 2 DATA / 1 VOICE. CT - INDICATES OUTLET MOUNTED ABOVE COUNTER TOP.
▼ CT, R	EQUIPMENT TELECOMMUNICATIONS CONNECTION. R - INDICATES RADIO OUTLET. CT - INDICATES OUTLET MOUNTED OVER COUNTER TOP.
▭ PB	PULL BOX.
▭	BASKET TRAY.

FIRE ALARM LAYOUT:

FACP	FIRE ALARM CONTROL PANEL.
FAA	FIRE ALARM ANNUNCIATOR PANEL.
RPS	REMOTE POWER SUPPLY.
◩ V	FIRE ALARM MANUAL PULL STATION, ADDRESSABLE. V - INDICATES VANDAL PROOF.
▽ V	FIRE ALARM HORN. V - INDICATES VANDAL PROOF.
⊗ V	FIRE ALARM STROBE. V - INDICATES VANDAL PROOF.
ⓢ V	FIRE ALARM SMOKE DETECTOR, ADDRESSABLE, CEILING MOUNTED. V - INDICATES VANDAL PROOF.
ⓢ D	FIRE ALARM DUCT SMOKE DETECTOR, ADDRESSABLE.
ⓘ	FIRE ALARM HEAT DETECTOR, ADDRESSABLE.
AIM	ADDRESSABLE INPUT MODULE.
ARM	ADDRESSABLE RELAY MODULE.
LIM	FAULT ISOLATOR MODULE.
EOL	END-OF-LINE DEVICE.
SPD	SURGE PROTECTION DEVICE.
SS	SUPERVISORY SWITCH.
FS	FLOW SWITCH.
PS	PRESSURE SWITCH.
C	CONTACTOR.
⊢⊣	N/O CONTACT.

POWER LAYOUT:

⊖ GFI, WP, V, a, EV	DUPLEX RECEPTACLE. GFI- INDICATES GROUND FAULT INTERRUPTER. WP- INDICATES WEATHER-PROOF. V - INDICATES VANDAL PROOF. a - INDICATES MOUNTED ON BASKET TRAY. EV - INDICATES RECEPTACLE FOR ELECTRONIC FAUCET (TO BE MOUNTED DIRECTLY UNDER SINK).
⊕	TWO DUPLEX RECEPTACLE, MOUNTED ON A DUAL GANG BACKBOX.
⊕	TWO DUPLEX RECEPTACLE, MOUNTED OVER COUNTER TOP ON A BACKBOX.
⊖	DUPLEX RECEPTACLE, MOUNTED OVER COUNTER TOP.
▨	POWER PANEL 120/208V.
▭	POWER PANEL 347/600V.
◩	DIRECT EQUIPMENT CONNECTION.
□	DISCONNECT SWITCH.
⧓	MANUAL DISCONNECT SWITCH.
⊠	MAGNETIC DISCONNECT SWITCH.
○	SINGLE PHASE MOTOR.
○	THREE PHASE MOTOR.
⊤⊤	BUS BAR.
TH	THERMOSTAT.
▼⊖	COMBINATION POWER AND COMMUNICATION FLOOR BOX.
▭	UNIT HEATER. A - CEILING HUNG UNIT HEATER, 2.4m A.F.F. B - WALL SURFACE MOUNTED UNIT HEATER, 0.3m A.F.F. C - WALL RECESSED UNIT HEATER, 0.3m A.F.F. D - CEILING RECESSED UNIT HEATER. E - RADIANT CEILING PANEL.
Ⓣ	AMBIENT SENSING THERMOSTAT.
SM	AUTOMATIC CONTROLLER FOR SNOW MELTING SYSTEM.
RHC	RADIANT HEAT CONTROL BOX.
MD	MOTOR DAMPER.
HC	DOOR OPERATOR BUTTON. WP- INDICATES WEATHER-PROOF.
▽ G	GAS DETECTION STROBE/HORN.
NO2 CO	GAS DETECTION SENSOR.

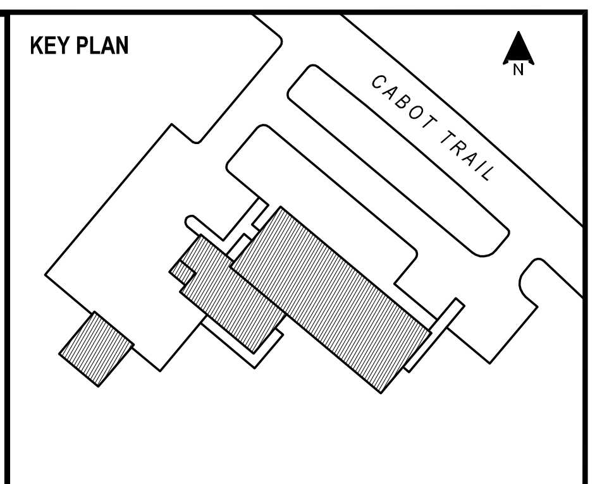
SECURITY LAYOUT:

□	CAMERA.
M	MICROPHONE.
PR	PROXIMITY CARD READER.
⬘	DOOR CONTACT, SURFACE MOUNTED.
⬘ R	DOOR CONTACT, RECESSED.
◇	MOTION SENSOR.
K	KEYPAD.
IAP	INTRUSION ALARM PANEL.
JB	JUNCTION BOX CT - INDICATES MOUNTED ABOVE COUNTER TOP.
□	DOOR CHIME.
▽ □	HORN FOR PANIC ALARM SYSTEM.
⊡	PUSH BUTTON. P - INDICATES PANIC ALARM PUSH BUTTON. R - INDICATES PANIC ALARM RESET BUTTON.

SCHEMATICS & DIAGRAMS:

—— - - ——	INDICATES EQUIPMENT OUTLINE.
— — — — — —	INDICATES ROOM OUTLINE.
⌒	BREAKER.
○╱ ○	SWITCH, N/O.
○—○	SWITCH, N/C.
⊥	PUSHBUTTON, N/O.
⊥	PUSHBUTTON, N/C.
H O A	SWITCH, HAND-OFF-AUTOMATIC.
○╱	SWITCH, SELECTOR.
| |	CONTACTOR, N/O.
⫽	CONTACTOR, N/C.
○⫽○	CONTACTS, N/C
○⊣⊢○	CONTACTS, N/O
▭	FUSE.
Ⓒ	COIL.
⊗	INDICATING LIGHT.
○	TERMINATION NODE.
⏚	GROUND.
∽	OVERLOAD, THERMAL.
≋	CONTROL TRANSFORMER.
∈	CURRENT TRANSFORMER.
≋	POTENTIAL TRANSFORMER.
≋	POWER TRANSFORMER.
○	SINGLE PHASE MOTOR.
○	THREE PHASE MOTOR.
◩	DIRECT EQUIPMENT CONNECTION.

KEY PLAN



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Halifax, Nova Scotia, Canada

Certified ISO 9001

Member of the SNC • LAVALIN Group

GENERAL NOTES:

1. ROOM 118 IS A SECURE ROOM. ONLY CONDUITS SERVICING THIS ROOM SHALL ENTER THE ROOM. ALL SERVICE SHALL BE DEDICATED. TYPICAL FOR ALL SYSTEMS.
2. ROOM 119 IS A SECURE ROOM. ONLY CONDUITS SERVICING THIS ROOM SHALL ENTER THE ROOM. ALL SERVICE SHALL BE DEDICATED. TYPICAL FOR ALL SYSTEMS.
3. ROOM 115 IS A SECURE ROOM. ONLY CONDUITS SERVICING THIS ROOM SHALL ENTER THE ROOM. ALL SERVICE SHALL BE DEDICATED. TYPICAL FOR ALL SYSTEMS.
4. CONFIRM ALL ELECTRICAL SYSTEMS IN ROOMS 209 AND 210 WITH DEPARTMENTAL REPRESENTATIVE BEFORE INSTALLATION.
5. DO NOT RUN CONDUIT HORIZONTALLY THROUGH WOOD STUDS. CONDUIT SHALL ENTER FROM THE TOP OF THE WALL.
6. DO NOT INSTALL ANY EXPOSED CONDUITS IN SKYLIGHT AREA.
7. REFER TO STRUCTURE FOR BUILDING DESIGN LOADS TO BE USED FOR DESIGN OF EXTERIOR SITE LIGHTING POLES AND ASSEMBLY. SUPPLY TO PROVIDE DESIGN CALCULATIONS TO ENSURE CONFORMANCE WITH PROJECT REQUIREMENTS.
8. COORDINATE INSTALLATION OF ALL UNDERGROUND UTILITIES, SERVICES AND SYSTEMS WITH ALL TRADES.

NO.	REVISION	DATE
C02	ISSUED FOR TENDER	18 JUL 2014

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REGISTERED PROFESSIONAL ENGINEER
DATE 18 JULY 2014
Hamdi B
H. M. Battikh
9961
PROVINCE OF NOVA SCOTIA

INGONISH CIVIC
BUILDING

Project Address

DSRA JOB #: 12169
DRAWN BY: STAFF
CHECKED BY: H.B. / J.L.
SCALE: AS INDICATED

LEGEND &
LUMINAIRE SCHEDULE

501

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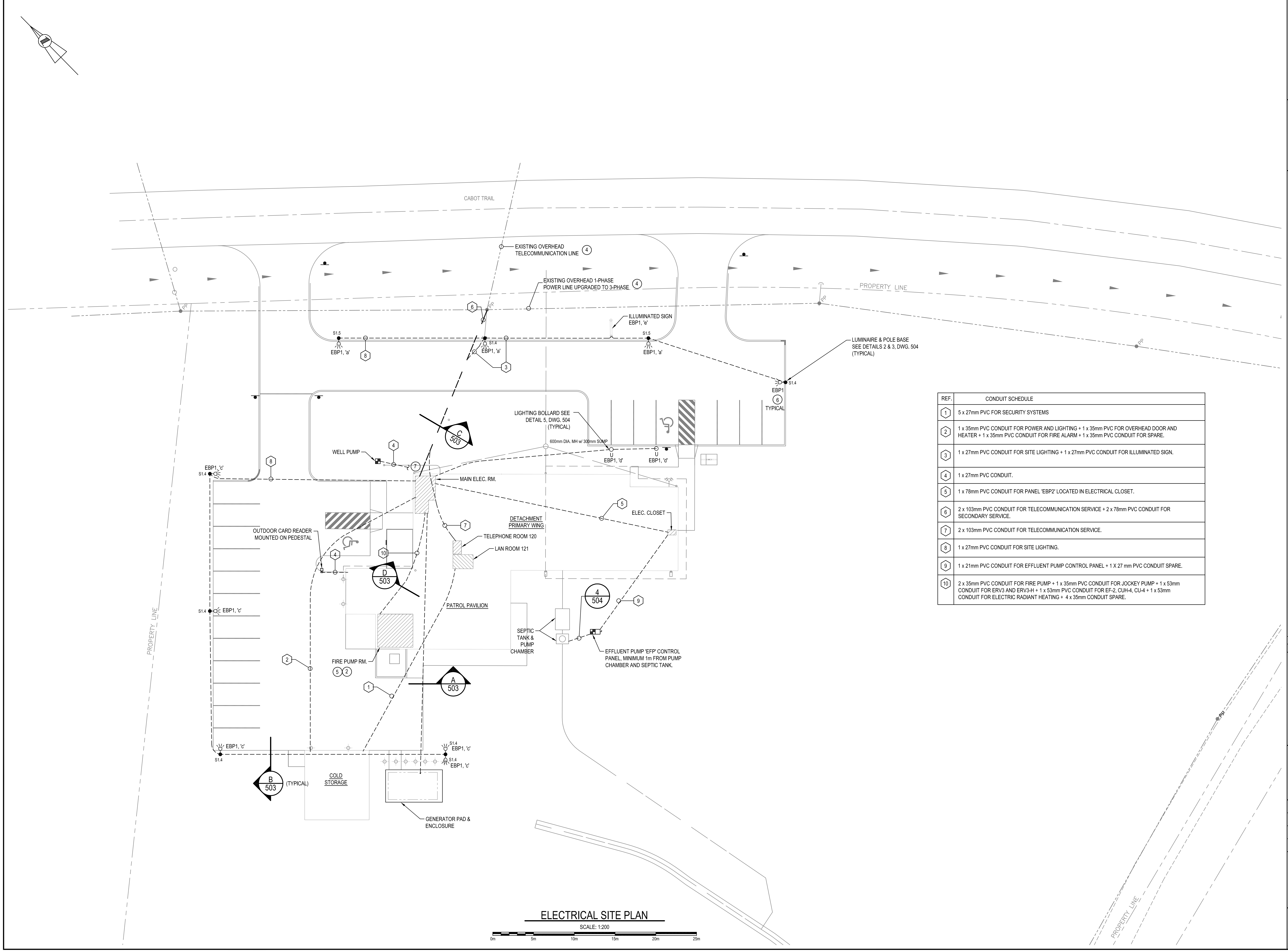
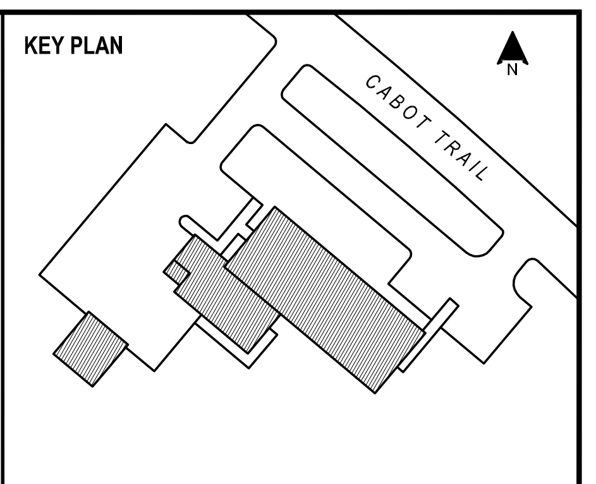

CABOT TRAIL
PROPERTY LINE
PROPERTY LINE
PROPERTY LINE
PP
EXISTING OVERHEAD TELECOMMUNICATION LINE ④
EXISTING OVERHEAD 1-PHASE POWER LINE UPGRADED TO 3-PHASE ④
6
ILLUMINATED SIGN EBP1, 'e'
S1.5
EBP1, 'a'
8
S1.4
EBP1, 'a'
3
S1.5
EBP1, 'a'
LUMINAIRE & POLE BASE SEE DETAILS 2 & 3, DWG. 504 (TYPICAL)
S1.4
EBP1
⑥ TYPICAL
LIGHTING BOLLARD SEE DETAIL 5, DWG. 504 (TYPICAL)
600mm DIA. MH w/ 300mm SUMP
U EBP1, 'd'
U EBP1, 'd'
C 503
WELL PUMP
4
7
EBP1, 'c'
S1.4
8
MAIN ELEC. RM.
5
ELEC. CLOSET
DETACHMENT PRIMARY WING
7
TELEPHONE ROOM 120
LAN ROOM 121
OUTDOOR CARD READER MOUNTED ON PEDESTAL
4
10
D 503
4 504
9
PATROL PAVILION
S1.4
EBP1, 'c'
SEPTIC TANK & PUMP CHAMBER
EFFLUENT PUMP 'EFP' CONTROL PANEL, MINIMUM 1m FROM PUMP CHAMBER AND SEPTIC TANK.
2
FIRE PUMP RM.
⑤②
1
A 503
EBP1, 'c'
S1.4
S1.4
EBP1, 'c'
S1.4
EBP1, 'c'
B 503
(TYPICAL)
COLD STORAGE
GENERATOR PAD & ENCLOSURE
0m
5m
10m
15m
20m
25m

ELECTRICAL SITE PLAN

SCALE: 1:200

REF.	CONDUIT SCHEDULE
1	5 x 27mm PVC FOR SECURITY SYSTEMS
2	1 x 35mm PVC CONDUIT FOR POWER AND LIGHTING + 1 x 35mm PVC FOR OVERHEAD DOOR AND HEATER + 1 x 35mm PVC CONDUIT FOR FIRE ALARM + 1 x 35mm PVC CONDUIT FOR SPARE.
3	1 x 27mm PVC CONDUIT FOR SITE LIGHTING + 1 x 27mm PVC CONDUIT FOR ILLUMINATED SIGN.
4	1 x 27mm PVC CONDUIT.
5	1 x 78mm PVC CONDUIT FOR PANEL 'EBP2' LOCATED IN ELECTRICAL CLOSET.
6	2 x 103mm PVC CONDUIT FOR TELECOMMUNICATION SERVICE + 2 x 78mm PVC CONDUIT FOR SECONDARY SERVICE.
7	2 x 103mm PVC CONDUIT FOR TELECOMMUNICATION SERVICE.
8	1 x 27mm PVC CONDUIT FOR SITE LIGHTING.
9	1 x 21mm PVC CONDUIT FOR EFFLUENT PUMP CONTROL PANEL + 1 X 27 mm PVC CONDUIT SPARE.
10	2 x 35mm PVC CONDUIT FOR FIRE PUMP + 1 x 35mm PVC CONDUIT FOR JOCKEY PUMP + 1 x 53mm CONDUIT FOR ERV3 AND ERV3-H + 1 x 53mm PVC CONDUIT FOR EF-2, CUH-4, CU-4 + 1 x 53mm CONDUIT FOR ELECTRIC RADIANT HEATING + 4 x 35mm CONDUIT SPARE.

KEY PLAN


CABOT TRAIL
N

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NOTES:

1. MINIMIZE CONDUIT CROSSING.
2. DO NOT RUN ANY CONDUIT UNDER FIRE PUMP ROOM.
3. UTILIZE LONG SWEEP UTILITY ELBOWS (MIN. 900mm) FOR ALL UNDERGROUND BENDS.
4. WORK BY UTILITIES COORDINATE WITH NSPI AND TELECOMMUNICATION PROVIDER. PAY ALL ASSOCIATED FEES.
5. SEE STRUCTURAL DRAWING FOR FIRE PUMP ROOM UNDERGROUND RESERVOIR.
6. SEE PANEL SCHEDULE FOR SITE LIGHTING CIRCUITS.
7. RUN WET WELL CONDUIT TO WET WELL CONTROLLER IN MECHANICAL ROOM 109.

NO.	REVISION	DATE
C01	ISSUED FOR TENDER	18 JUL 2014

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BUILDING

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DRAWN BY: STAFF
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SCALE: AS INDICATED

ELECTRICAL SITE PLAN

502

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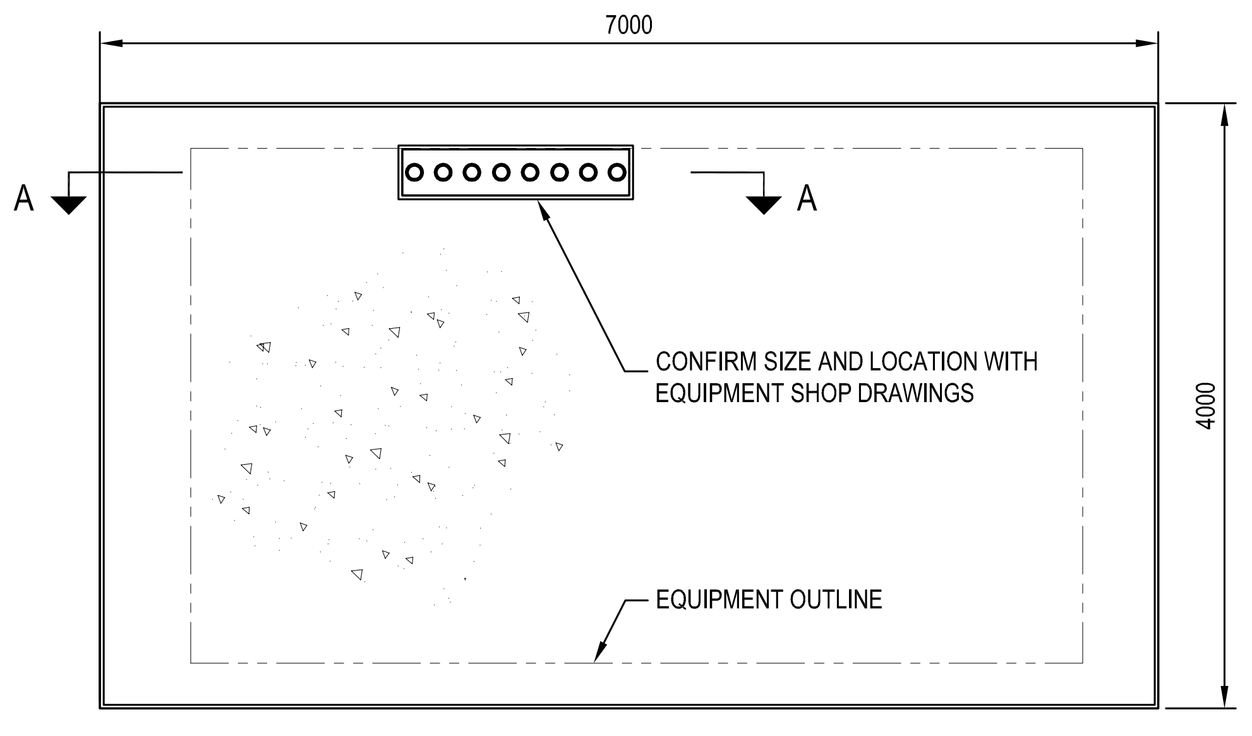
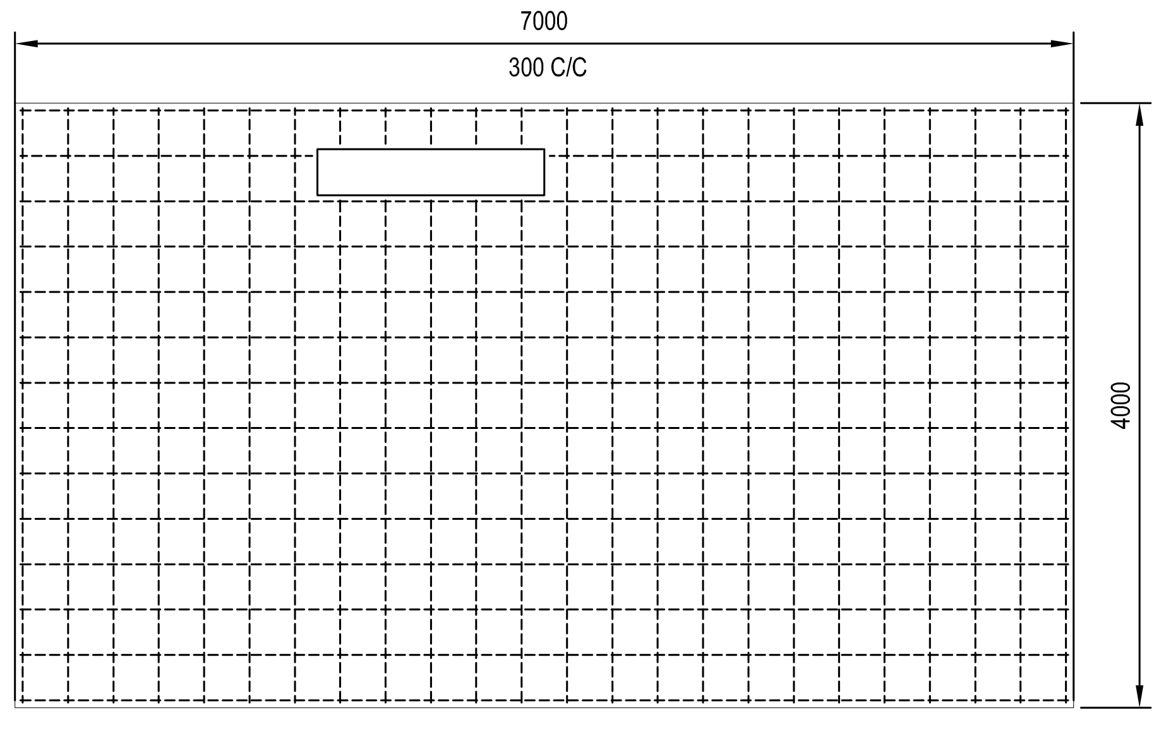
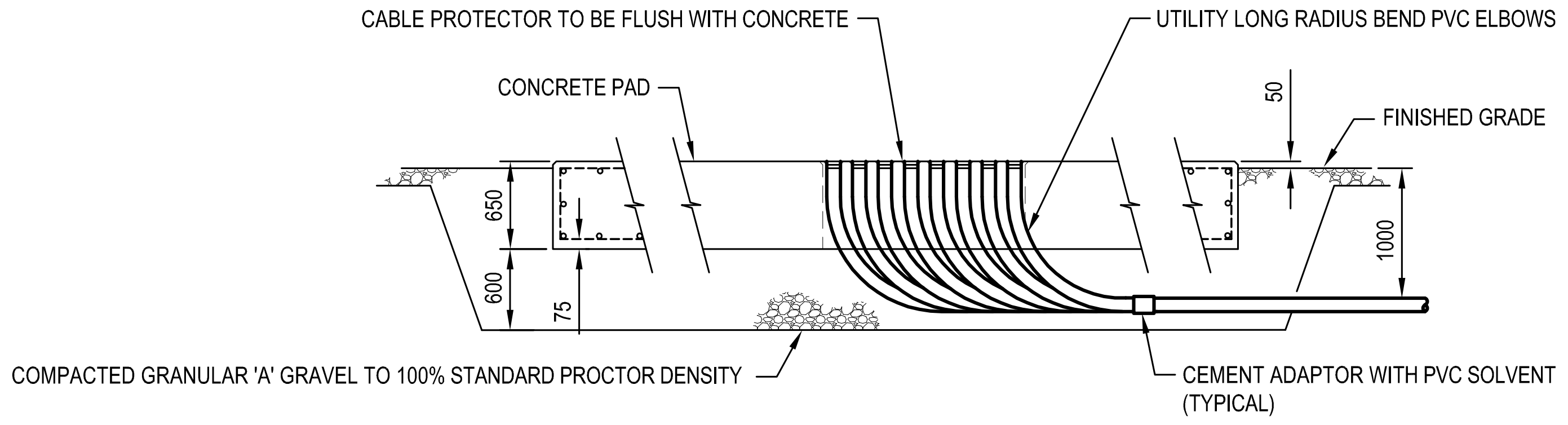

7000
A
A
CONFIRM SIZE AND LOCATION WITH EQUIPMENT SHOP DRAWINGS
4000
EQUIPMENT OUTLINE

PLAN LAYOUT


7000
300 C/C
4000

REINFORCING LAYOUT


CABLE PROTECTOR TO BE FLUSH WITH CONCRETE
UTILITY LONG RADIUS BEND PVC ELBOWS
CONCRETE PAD
50
FINISHED GRADE
650
600
75
1000
COMPACTED GRANULAR 'A' GRAVEL TO 100% STANDARD PROCTOR DENSITY
CEMENT ADAPTOR WITH PVC SOLVENT (TYPICAL)

SECTION A - A

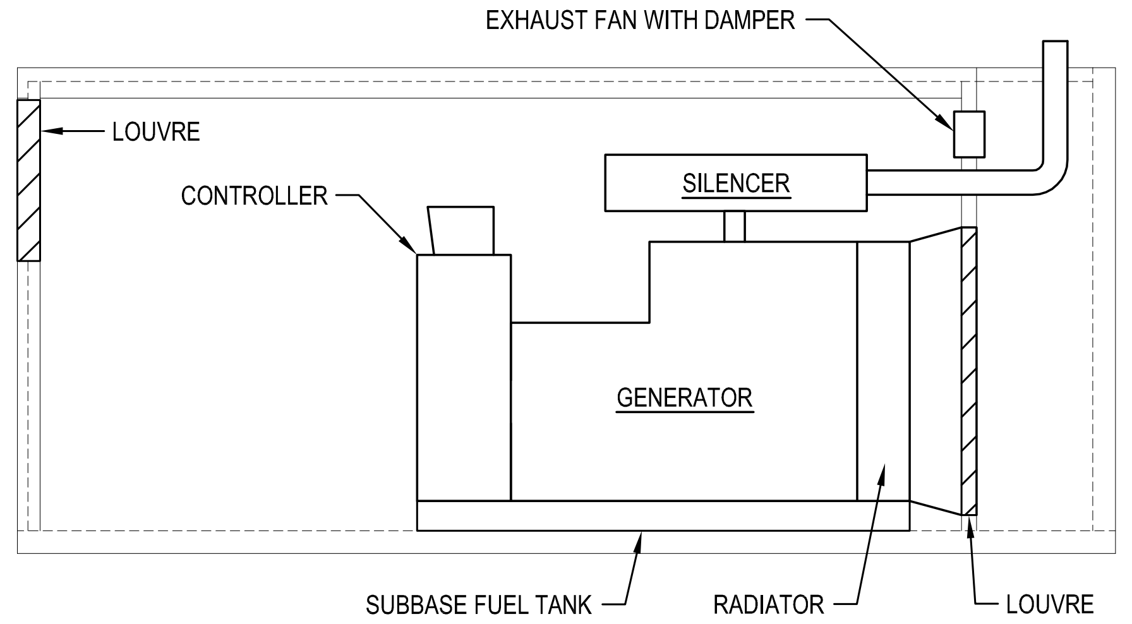
NOTES:

1. ALL DIMENSIONS ARE TO BE CONFIRMED WITH EQUIPMENT SUPPLIERS.
2. SEE STRUCTURAL FOR NOTES FOR CONCRETE REQUIREMENTS.

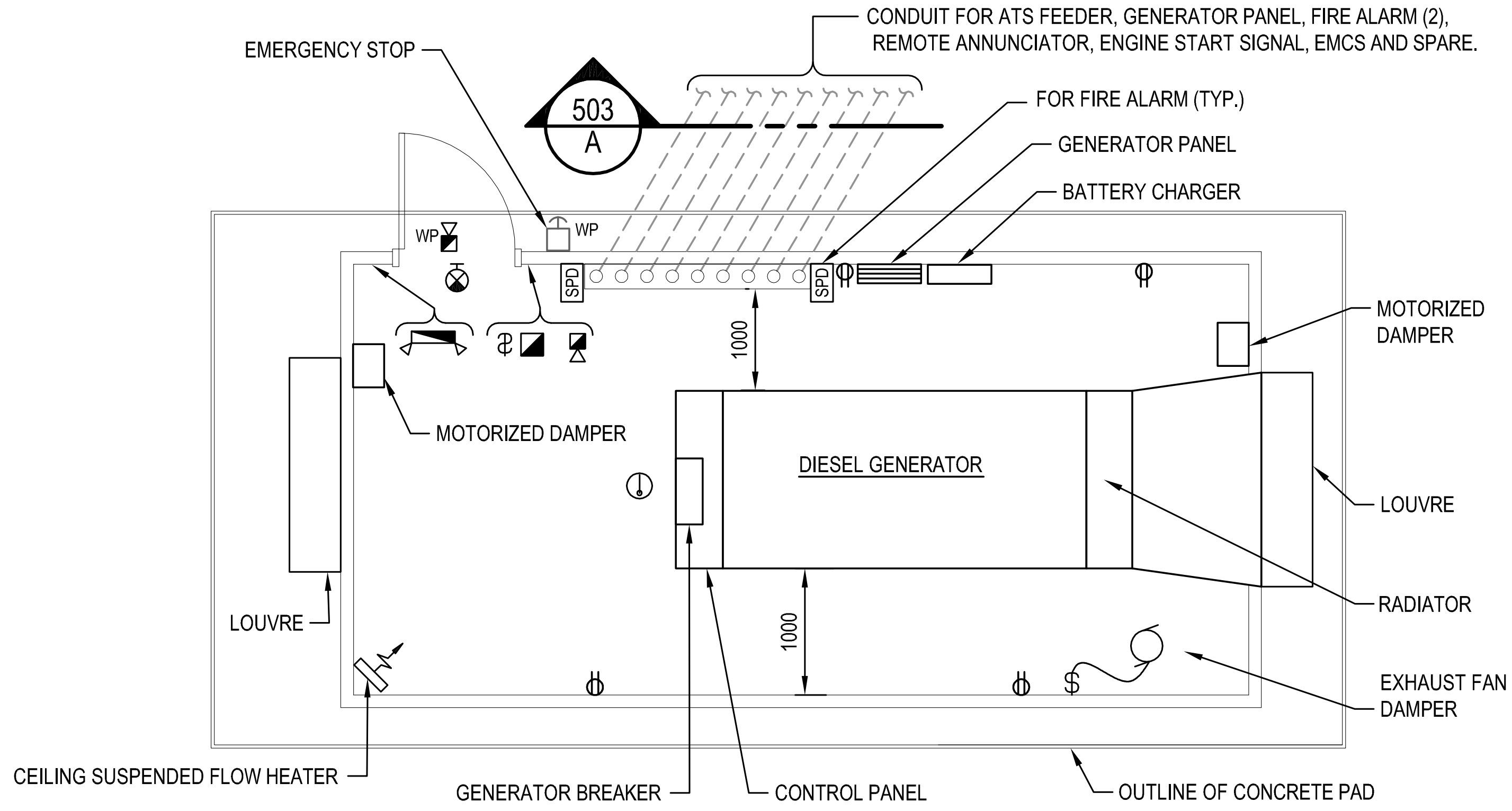
DETAIL - CONCRETE PAD FOR GENERATOR

1
502

SCALE : N.T.S.


EXHAUST FAN WITH DAMPER
LOUVRE
CONTROLLER
SILENCER
GENERATOR
SUBBASE FUEL TANK
RADIATOR
LOUVRE

ELEVATION


CONDUIT FOR ATS FEEDER, GENERATOR PANEL, FIRE ALARM (2), REMOTE ANNUNCIATOR, ENGINE START SIGNAL, EMCS AND SPARE.
EMERGENCY STOP
503
A
FOR FIRE ALARM (TYP.)
GENERATOR PANEL
BATTERY CHARGER
WP
WP
SPD
SPD
1000
MOTORIZED DAMPER
MOTORIZED DAMPER
DIESEL GENERATOR
LOUVRE
RADIATOR
1000
LOUVRE
EXHAUST FAN WITH DAMPER
CEILING SUSPENDED FLOW HEATER
GENERATOR BREAKER
CONTROL PANEL
OUTLINE OF CONCRETE PAD

PLAN VIEW

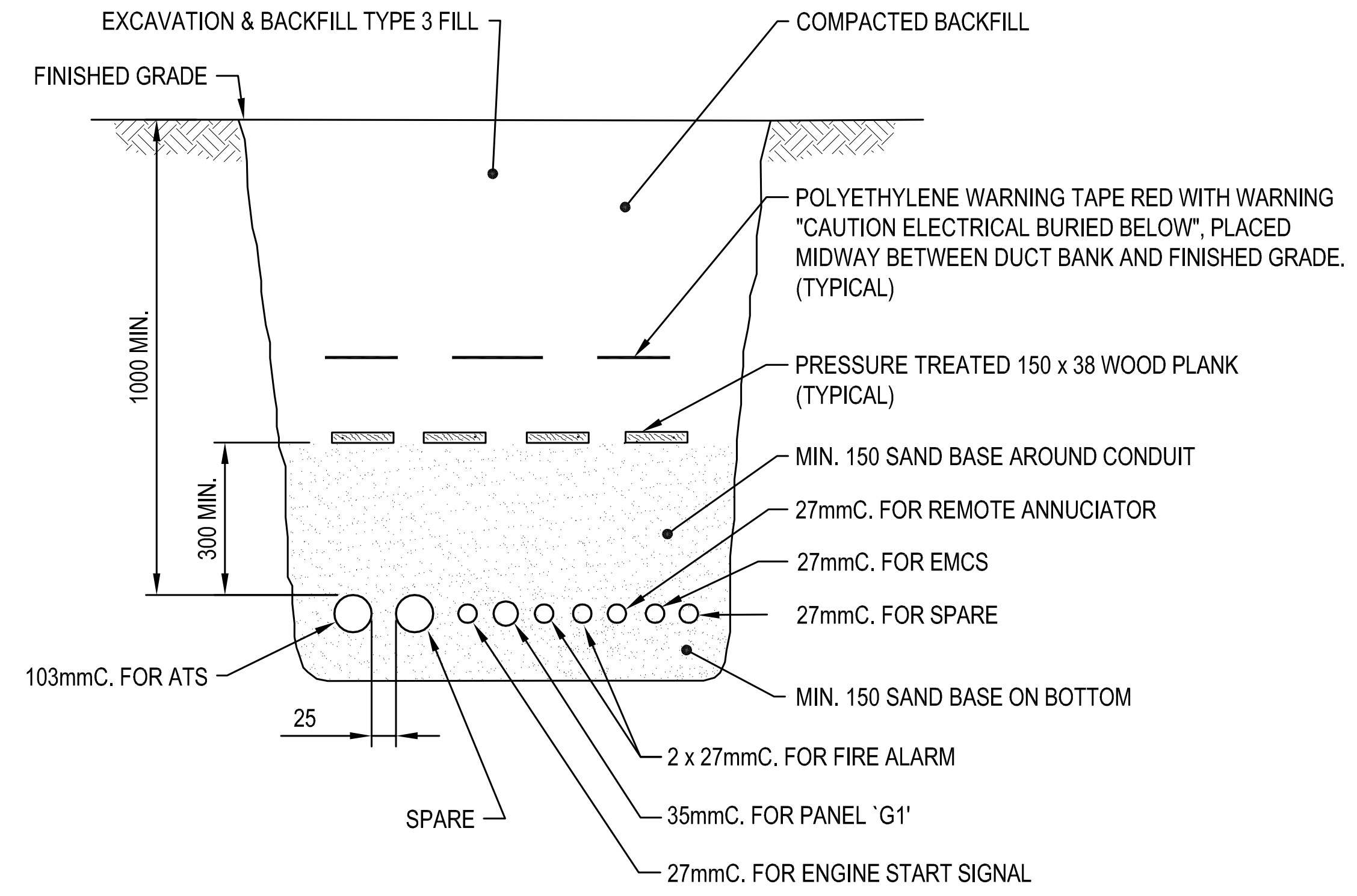
NOTES:

1. LAYOUT SHOWN IS FOR INFORMATION PURPOSES ONLY. REFER TO GENERATOR SHOP DRAWINGS FOR EXACT LOCATION OF ELECTRICAL EQUIPMENT AND CIRCUIT STUB-UPS.

DETAIL - EMERGENCY GENERATOR LAYOUT

2
502

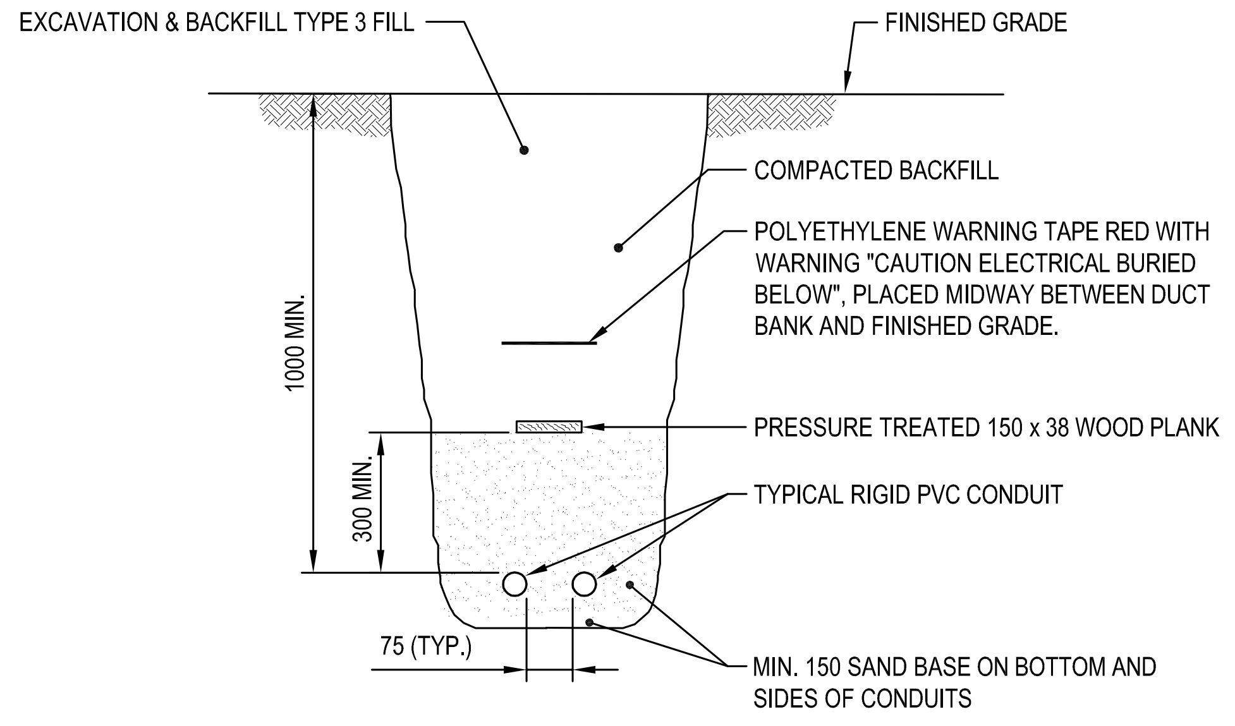
SCALE : N.T.S.


EXCAVATION & BACKFILL TYPE 3 FILL
COMPACTED BACKFILL
FINISHED GRADE
POLYETHYLENE WARNING TAPE RED WITH WARNING "CAUTION ELECTRICAL BURIED BELOW", PLACED MIDWAY BETWEEN DUCT BANK AND FINISHED GRADE. (TYPICAL)
1000 MIN.
PRESSURE TREATED 150 x 38 WOOD PLANK (TYPICAL)
MIN. 150 SAND BASE AROUND CONDUIT
300 MIN.
27mmC. FOR REMOTE ANNUCIATOR
27mmC. FOR EMCS
27mmC. FOR SPARE
103mmC. FOR ATS
MIN. 150 SAND BASE ON BOTTOM
25
2 x 27mmC. FOR FIRE ALARM
SPARE
35mmC. FOR PANEL `G1'
27mmC. FOR ENGINE START SIGNAL

SECTION

A
502

SCALE : N.T.S.


EXCAVATION & BACKFILL TYPE 3 FILL
FINISHED GRADE
COMPACTED BACKFILL
POLYETHYLENE WARNING TAPE RED WITH WARNING "CAUTION ELECTRICAL BURIED BELOW", PLACED MIDWAY BETWEEN DUCT BANK AND FINISHED GRADE.
1000 MIN.
PRESSURE TREATED 150 x 38 WOOD PLANK
300 MIN.
TYPICAL RIGID PVC CONDUIT
75 (TYP.)
MIN. 150 SAND BASE ON BOTTOM AND SIDES OF CONDUITS

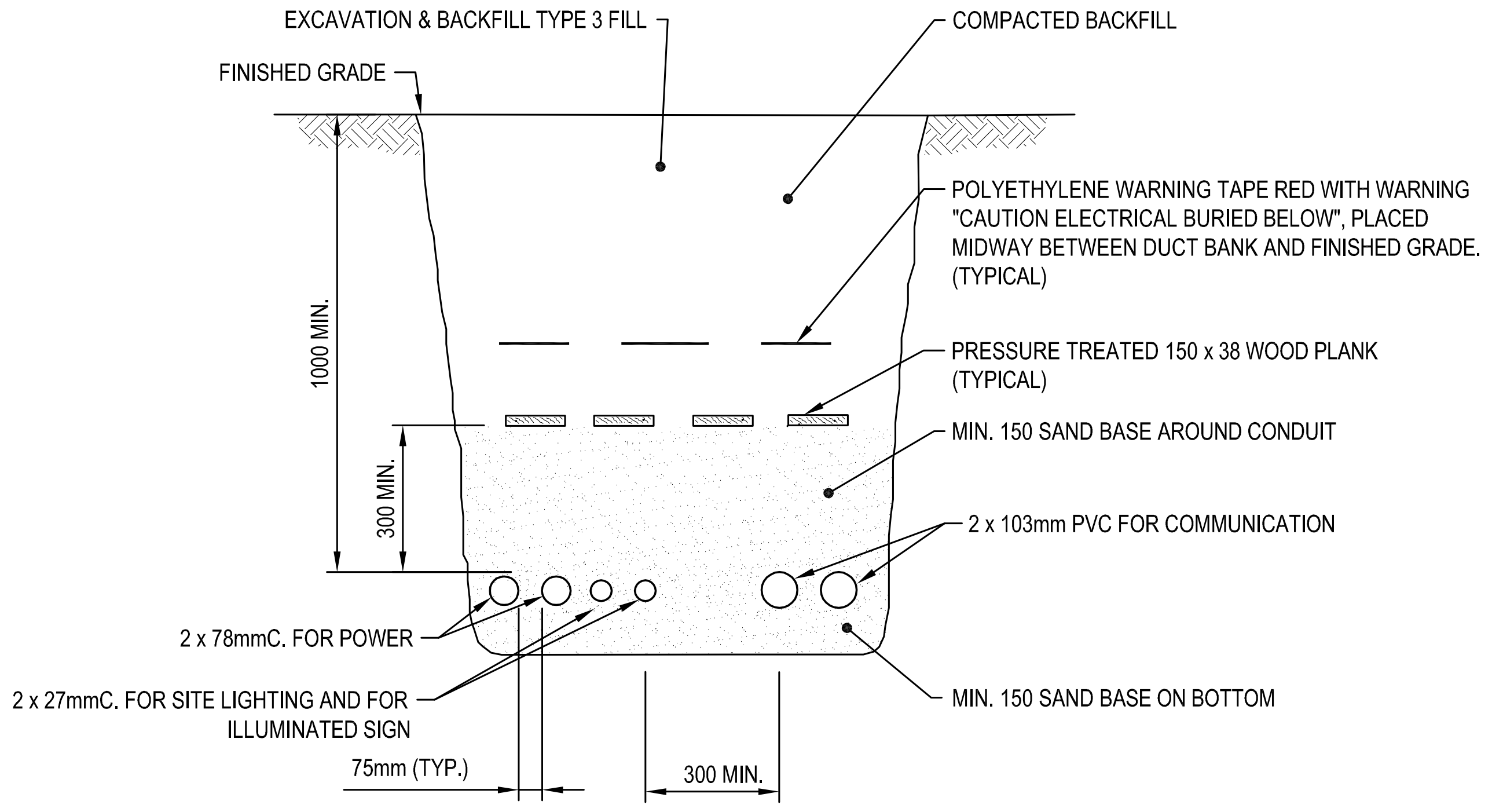
NOTES:

1. REFER TO DRAWING 502 FOR CONDUIT SIZE AND QUANTITY.

TYP. DIRECT BURIED CONDUIT

B
502

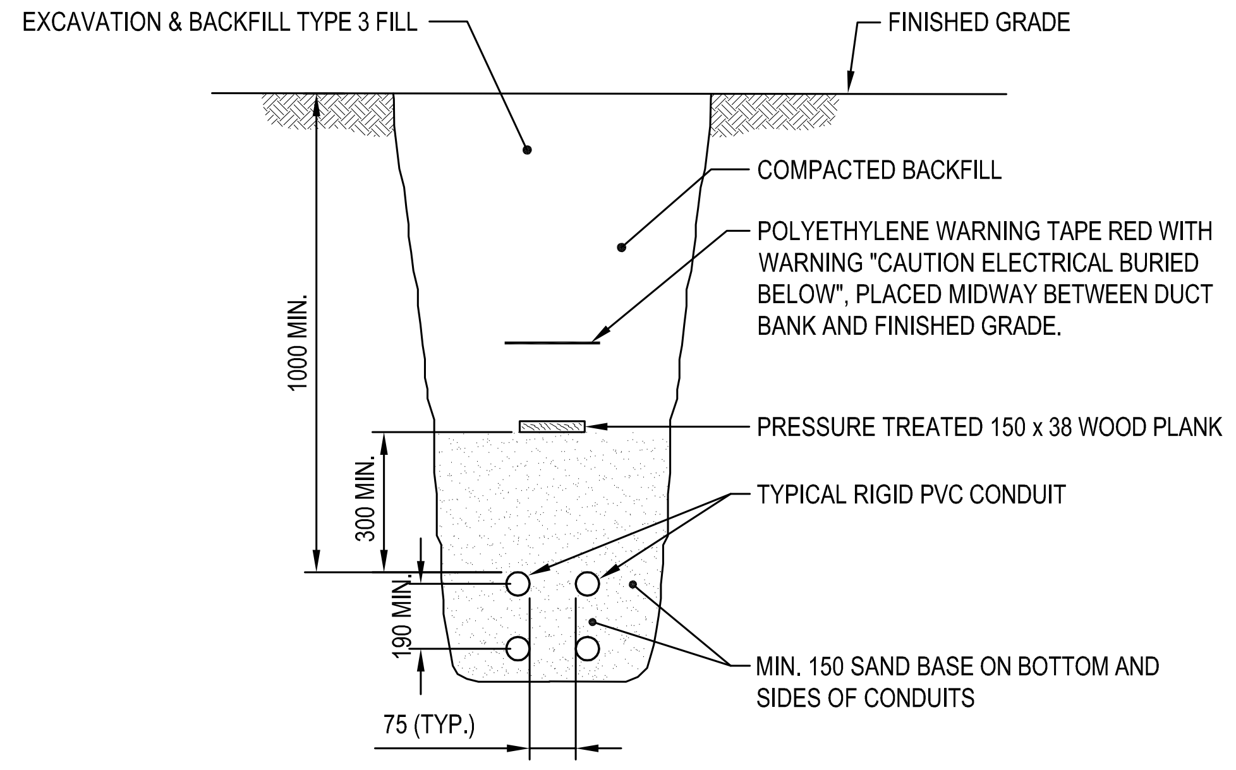
SCALE : N.T.S.


EXCAVATION & BACKFILL TYPE 3 FILL
COMPACTED BACKFILL
FINISHED GRADE
POLYETHYLENE WARNING TAPE RED WITH WARNING "CAUTION ELECTRICAL BURIED BELOW", PLACED MIDWAY BETWEEN DUCT BANK AND FINISHED GRADE. (TYPICAL)
1000 MIN.
PRESSURE TREATED 150 x 38 WOOD PLANK (TYPICAL)
MIN. 150 SAND BASE AROUND CONDUIT
300 MIN.
2 x 103mm PVC FOR COMMUNICATION
2 x 78mmC. FOR POWER
2 x 27mmC. FOR SITE LIGHTING AND FOR ILLUMINATED SIGN
MIN. 150 SAND BASE ON BOTTOM
75mm (TYP.)
300 MIN.

SECTION

C
502

SCALE : N.T.S.


EXCAVATION & BACKFILL TYPE 3 FILL
FINISHED GRADE
COMPACTED BACKFILL
POLYETHYLENE WARNING TAPE RED WITH WARNING "CAUTION ELECTRICAL BURIED BELOW", PLACED MIDWAY BETWEEN DUCT BANK AND FINISHED GRADE.
1000 MIN.
PRESSURE TREATED 150 x 38 WOOD PLANK
300 MIN.
TYPICAL RIGID PVC CONDUIT
190 MIN.
MIN. 150 SAND BASE ON BOTTOM AND SIDES OF CONDUITS
75 (TYP.)

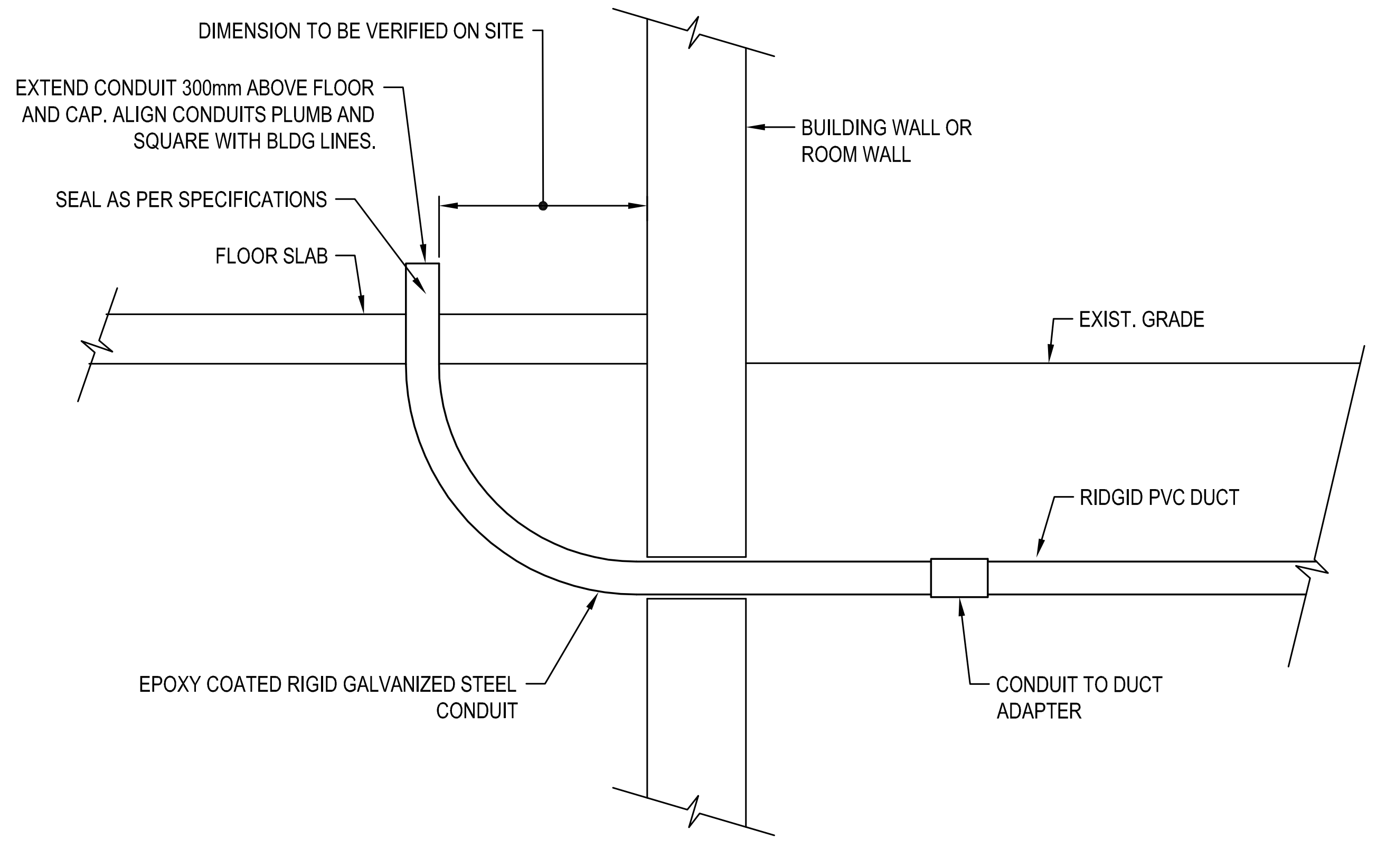
NOTES:

1. REFER TO DRAWING 502 FOR CONDUIT SIZE AND QUANTITY.

TYP. DIRECT BURIED CONDUIT

D
502

SCALE : N.T.S.


DIMENSION TO BE VERIFIED ON SITE
EXTEND CONDUIT 300mm ABOVE FLOOR AND CAP. ALIGN CONDUITS PLUMB AND SQUARE WITH BLDG LINES.
BUILDING WALL OR ROOM WALL
SEAL AS PER SPECIFICATIONS
FLOOR SLAB
EXIST. GRADE
RIDGID PVC DUCT
EPOXY COATED RIGID GALVANIZED STEEL CONDUIT
CONDUIT TO DUCT ADAPTER

NOTES:

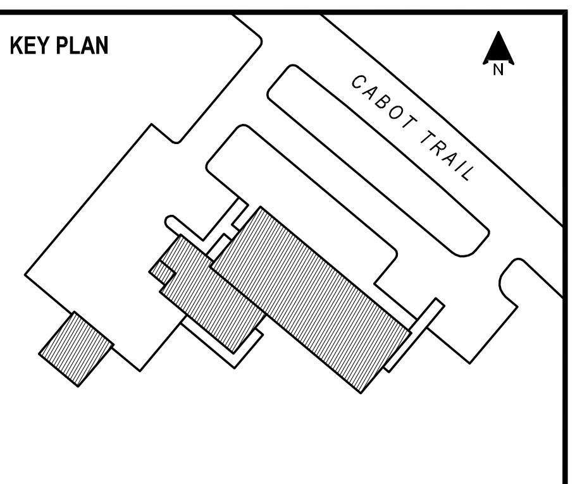
1. REFER TO DRAWING 502 FOR CONDUIT SIZE, QUANTITY AND LOCATION.

TYPICAL BUILDING OR ROOM DUCT ENTRANCE

3
-

SCALE : N.T.S.

KEY PLAN


CABOT TRAIL
N

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9961

INGONISH CIVIC
BUILDING

Project Address

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SITE DETAILS
SHEET 1

503

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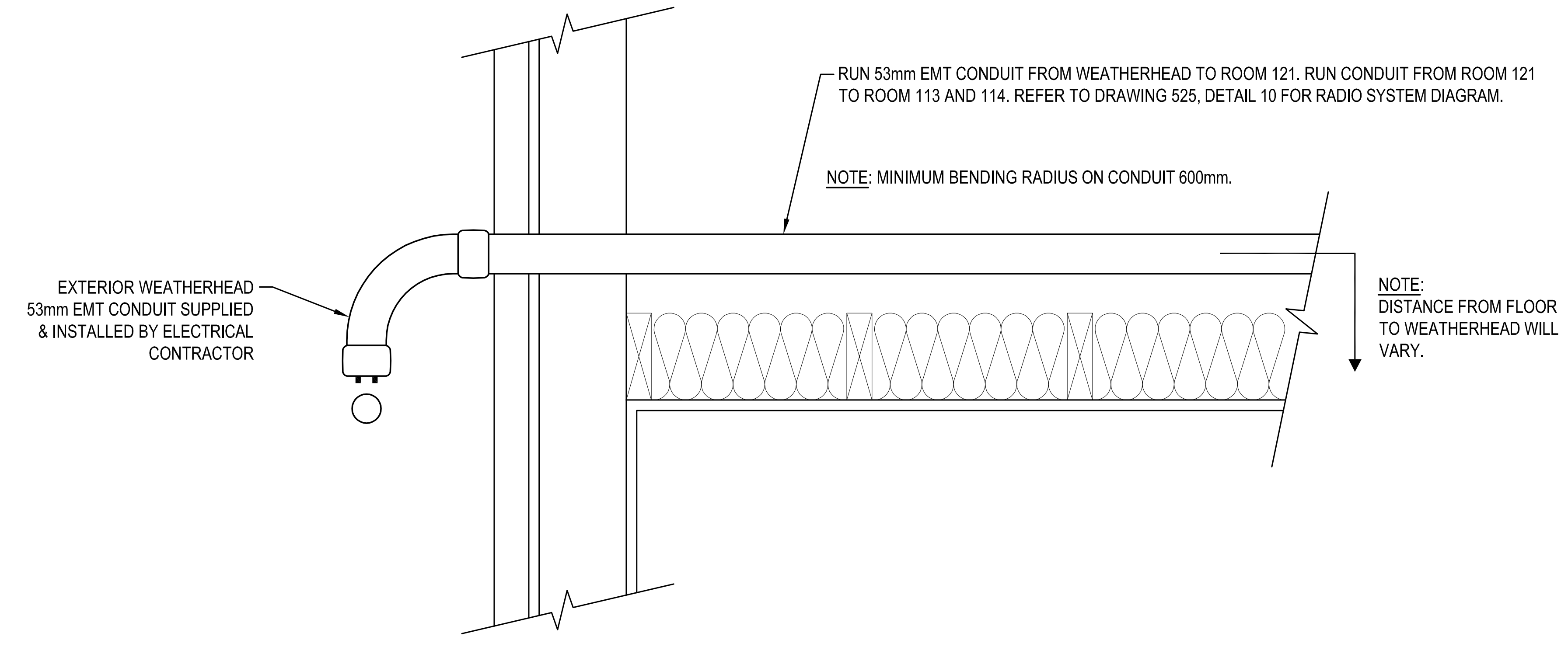
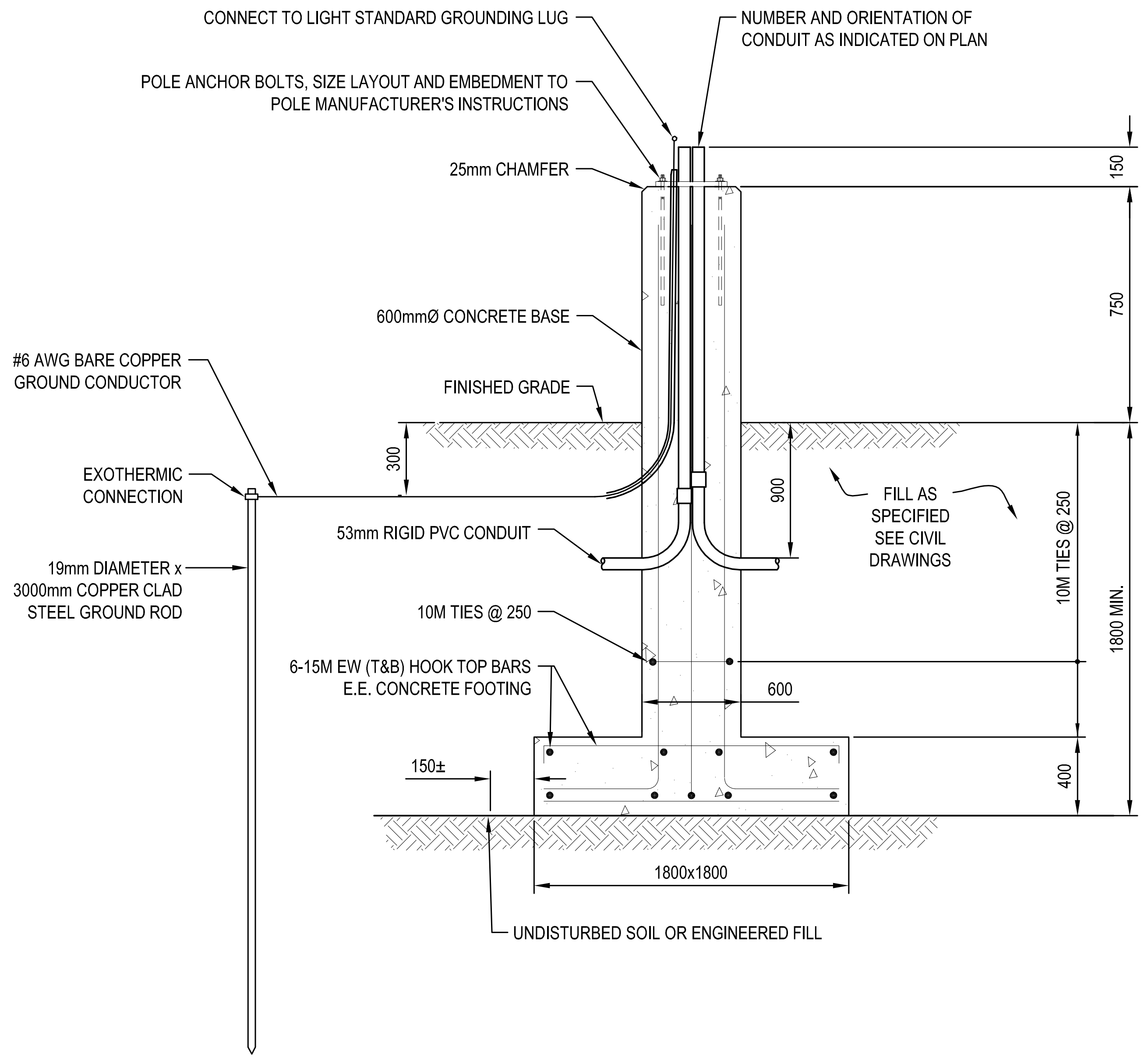

RUN 53mm EMT CONDUIT FROM WEATHERHEAD TO ROOM 121. RUN CONDUIT FROM ROOM 121 TO ROOM 113 AND 114. REFER TO DRAWING 525, DETAIL 10 FOR RADIO SYSTEM DIAGRAM.
NOTE: MINIMUM BENDING RADIUS ON CONDUIT 600mm.
EXTERIOR WEATHERHEAD 53mm EMT CONDUIT SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR
NOTE: DISTANCE FROM FLOOR TO WEATHERHEAD WILL VARY.

NOTES:

1. CABLE TO BE SUPER FLEX 400. WITH 8.3m OF EXTRA CABLE TO BE COILED IN ROOM 121.

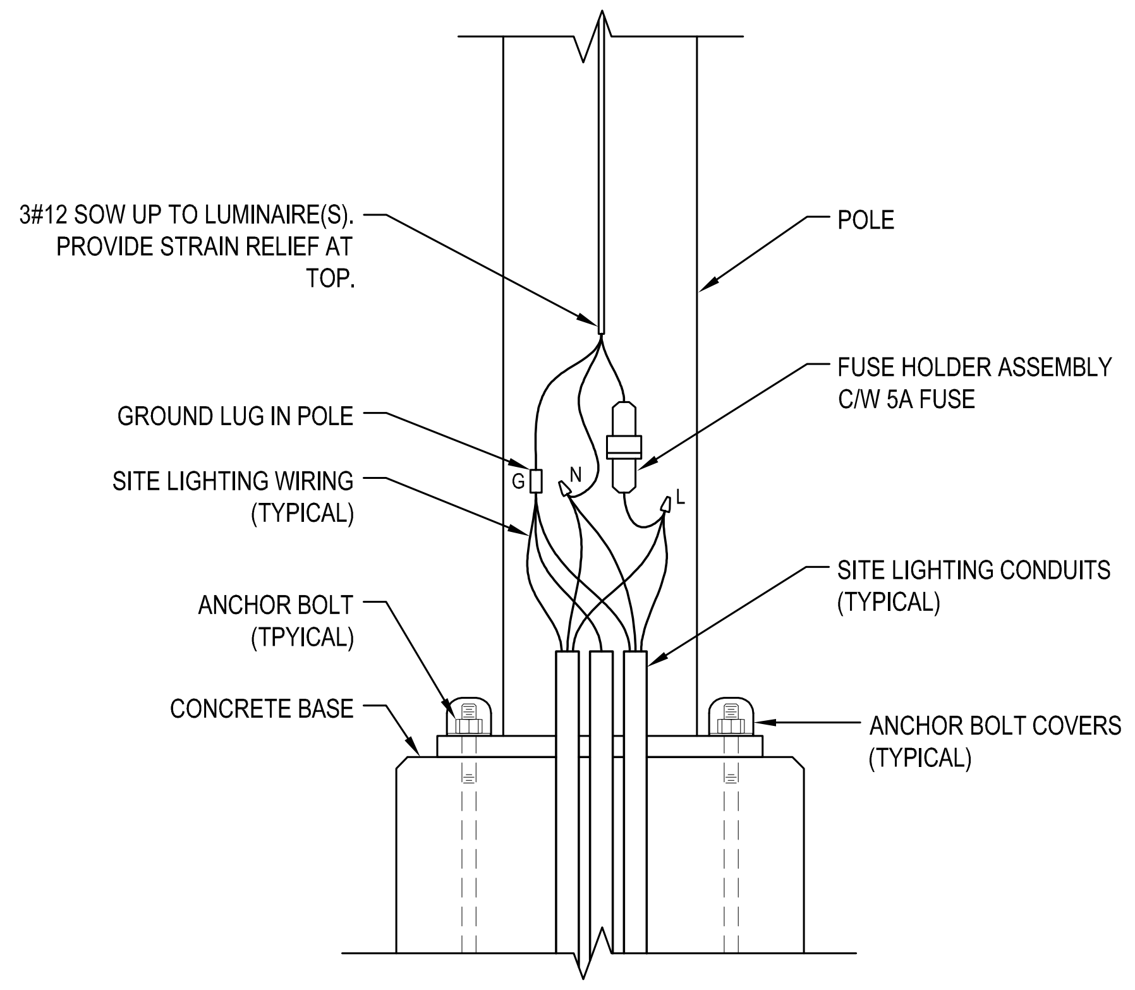
DETAIL - ANTENNA (BUILDING MOUNTED) 1/515

SCALE : N.T.S.


CONNECT TO LIGHT STANDARD GROUNDING LUG
NUMBER AND ORIENTATION OF CONDUIT AS INDICATED ON PLAN
POLE ANCHOR BOLTS, SIZE LAYOUT AND EMBEDMENT TO POLE MANUFACTURER'S INSTRUCTIONS
25mm CHAMFER
150
750
600mmØ CONCRETE BASE
#6 AWG BARE COPPER GROUND CONDUCTOR
FINISHED GRADE
EXOTHERMIC CONNECTION
300
900
FILL AS SPECIFIED SEE CIVIL DRAWINGS
10M TIES @ 250
1800 MIN.
19mm DIAMETER x 3000mm COPPER CLAD STEEL GROUND ROD
53mm RIGID PVC CONDUIT
10M TIES @ 250
6-15M EW (T&B) HOOK TOP BARS E.E. CONCRETE FOOTING
600
150±
400
1800x1800
UNDISTURBED SOIL OR ENGINEERED FILL

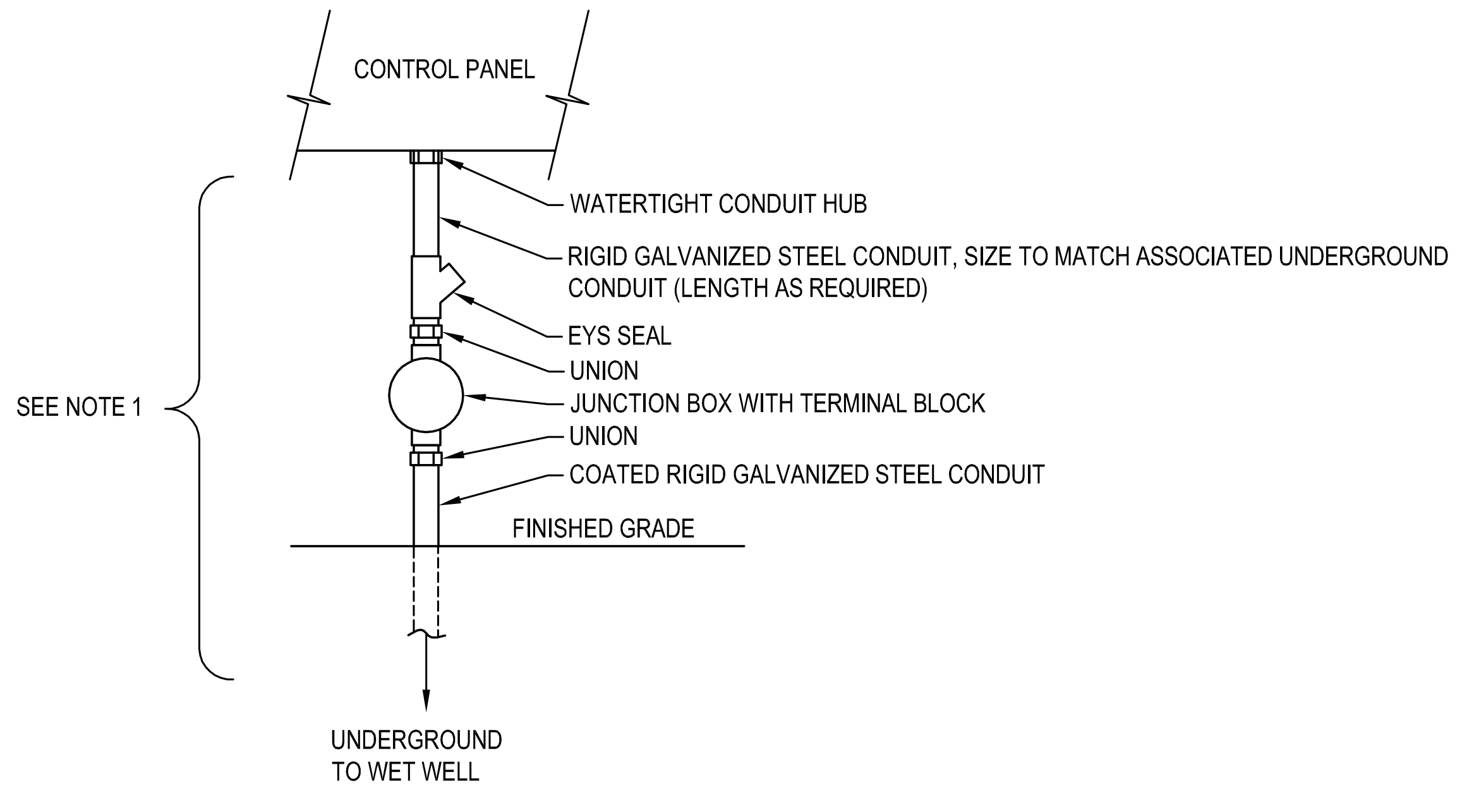
DETAIL - POLE MOUNT LUMINAIRE BASE 2/502

SCALE : N.T.S.


3#12 SOW UP TO LUMINAIRE(S). PROVIDE STRAIN RELIEF AT TOP.
POLE
FUSE HOLDER ASSEMBLY C/W 5A FUSE
GROUND LUG IN POLE
SITE LIGHTING WIRING (TYPICAL)
G
N
L
SITE LIGHTING CONDUITS (TYPICAL)
ANCHOR BOLT (TPYICAL)
CONCRETE BASE
ANCHOR BOLT COVERS (TYPICAL)

DETAIL - SITE LIGHTING POLE WIRING 3/502

SCALE : N.T.S.

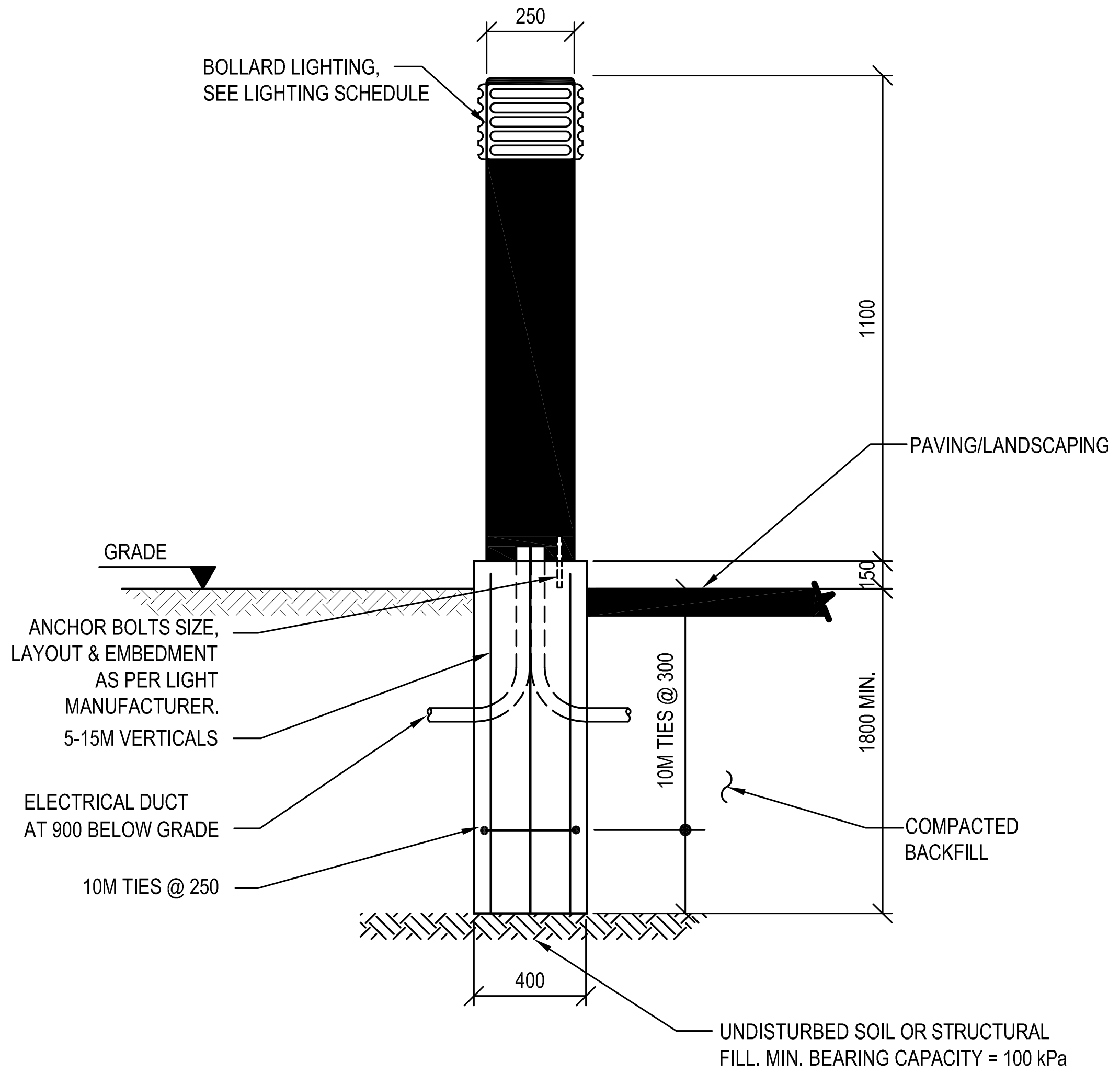

CONTROL PANEL
WATERTIGHT CONDUIT HUB
RIGID GALVANIZED STEEL CONDUIT, SIZE TO MATCH ASSOCIATED UNDERGROUND CONDUIT (LENGTH AS REQUIRED)
EYS SEAL
UNION
SEE NOTE 1
JUNCTION BOX WITH TERMINAL BLOCK
UNION
COATED RIGID GALVANIZED STEEL CONDUIT
FINISHED GRADE
UNDERGROUND TO WET WELL

NOTES:

1. ALL COMPONENTS SHALL BE APPROVED FOR CLASS I, ZONE 2, GR. IIA & IIB, T3 HAZARDOUS LOCATION.
2. PROVIDE ADDITIONAL SUPPORTS FOR JUNCTION BOXES AND CONDUIT STUB-UPS AS REQUIRED.
3. MAINTAIN SUFFICIENT SPACE FOR EASY REPLACEMENT OF THE SEALING FITTINGS.
4. COORDINATE STUB-UPS LOCATION AND ARRANGEMENT WITH SUPPLIED CONTROL PANEL. ONLY BOTTOM CONDUIT ENTRY TO THE CONTROL PANEL.

TYPICAL CONDUIT ENTRY FROM WET WELL 4/502

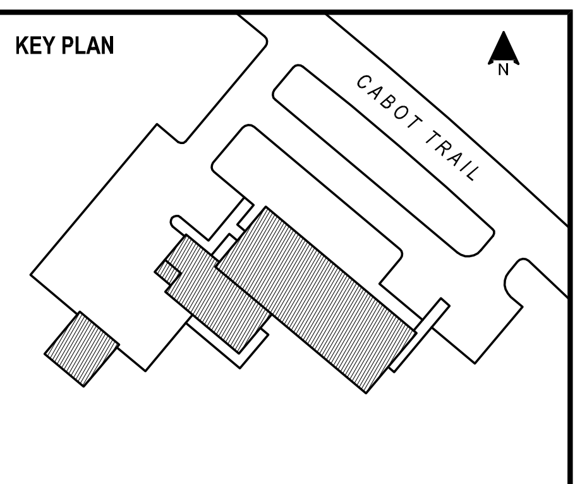
SCALE : N.T.S.


250
BOLLARD LIGHTING, SEE LIGHTING SCHEDULE
1100
PAVING/LANDSCAPING
GRADE
150
ANCHOR BOLTS SIZE, LAYOUT & EMBEDMENT AS PER LIGHT MANUFACTURER.
5-15M VERTICALS
10M TIES @ 300
1800 MIN.
ELECTRICAL DUCT AT 900 BELOW GRADE
COMPACTED BACKFILL
10M TIES @ 250
400
UNDISTURBED SOIL OR STRUCTURAL FILL. MIN. BEARING CAPACITY = 100 kPa

DETAIL FOR CONCRETE BASE FOR BOLLARD 5/502

SCALE : N.T.S.

KEY PLAN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INGONISH CIVIC BUILDING

Project Address

DSRA JOB #: 12169
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CHECKED BY: H.B. / J.L.
SCALE: AS INDICATED

SITE DETAILS
SHEET 2

504

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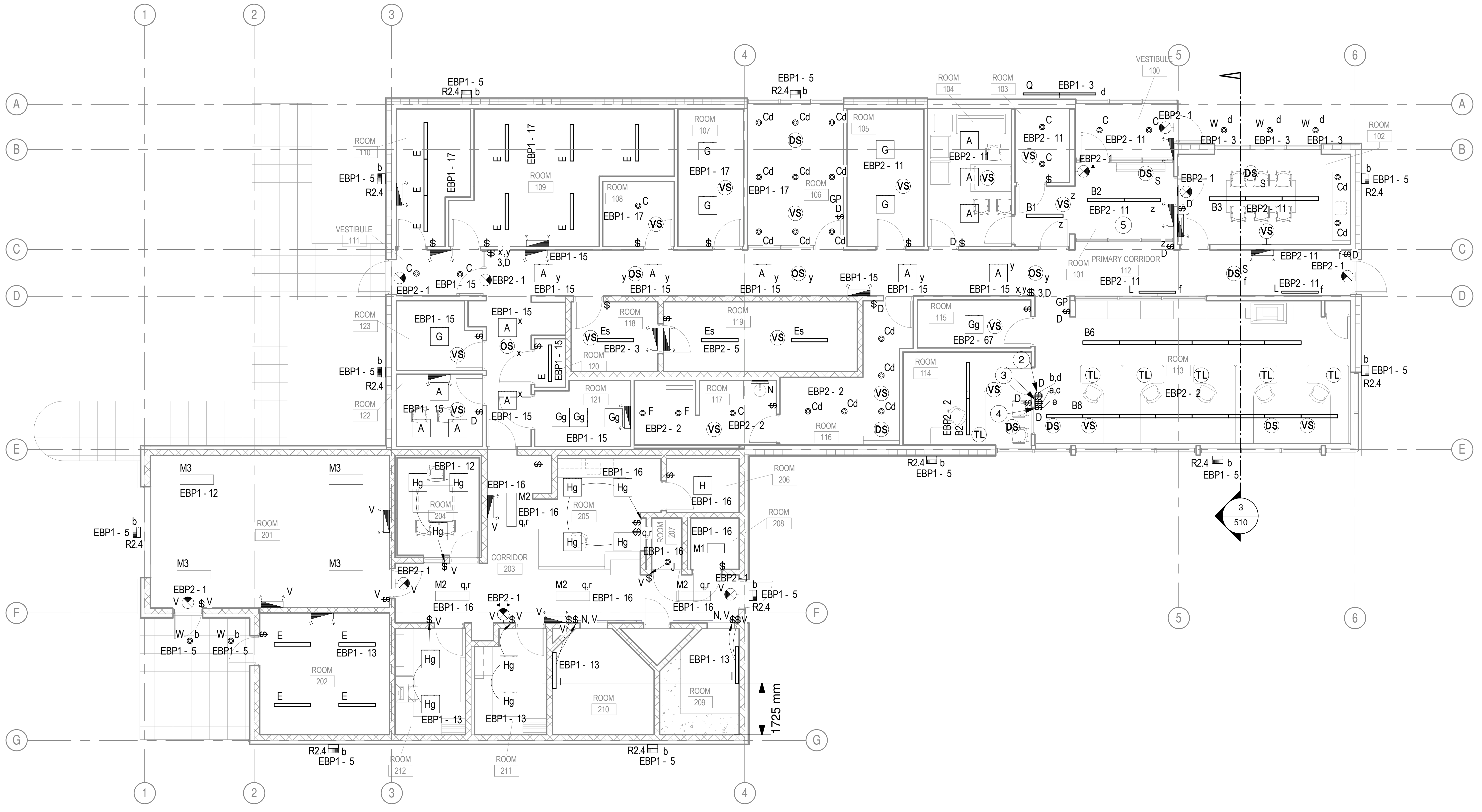
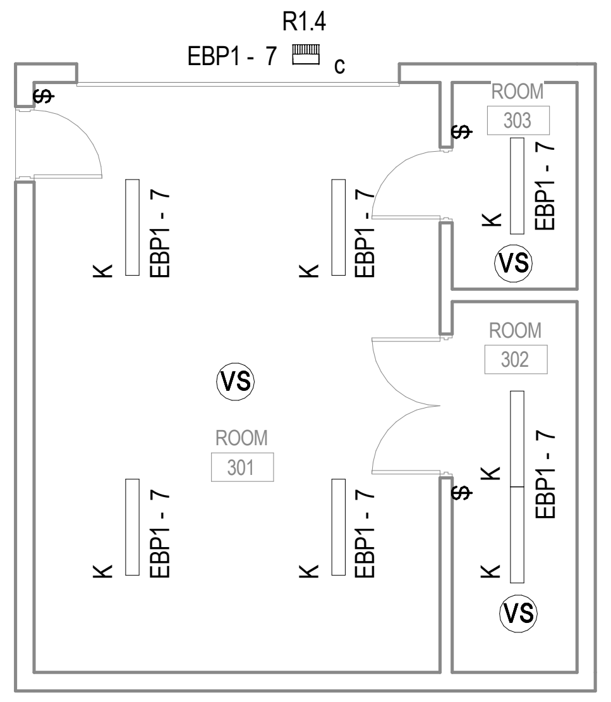

1
2
3
4
5
6
A
B
C
D
E
F
G
ROOM 110
ROOM 109
ROOM 108
ROOM 107
ROOM 106
ROOM 105
ROOM 104
ROOM 103
VESTIBULE 100
ROOM 102
VESTIBULE 111
ROOM 101
PRIMARY CORRIDOR 112
ROOM 123
ROOM 122
ROOM 120
ROOM 121
ROOM 118
ROOM 119
ROOM 117
ROOM 116
ROOM 115
ROOM 114
ROOM 113
ROOM 201
ROOM 204
CORRIDOR 203
ROOM 205
ROOM 207
ROOM 206
ROOM 208
ROOM 202
ROOM 210
ROOM 209
ROOM 212
ROOM 211
EBP1 - 5
R2.4
EBP1 - 17
EBP1 - 15
EBP1 - 16
EBP1 - 13
EBP1 - 12
EBP2 - 11
EBP2 - 1
EBP2 - 2
EBP2 - 3
EBP2 - 67
EBP1 - 3
EBP1 - 3
1725 mm
3
510

1 MAIN FLOOR - LIGHTING

1 : 100

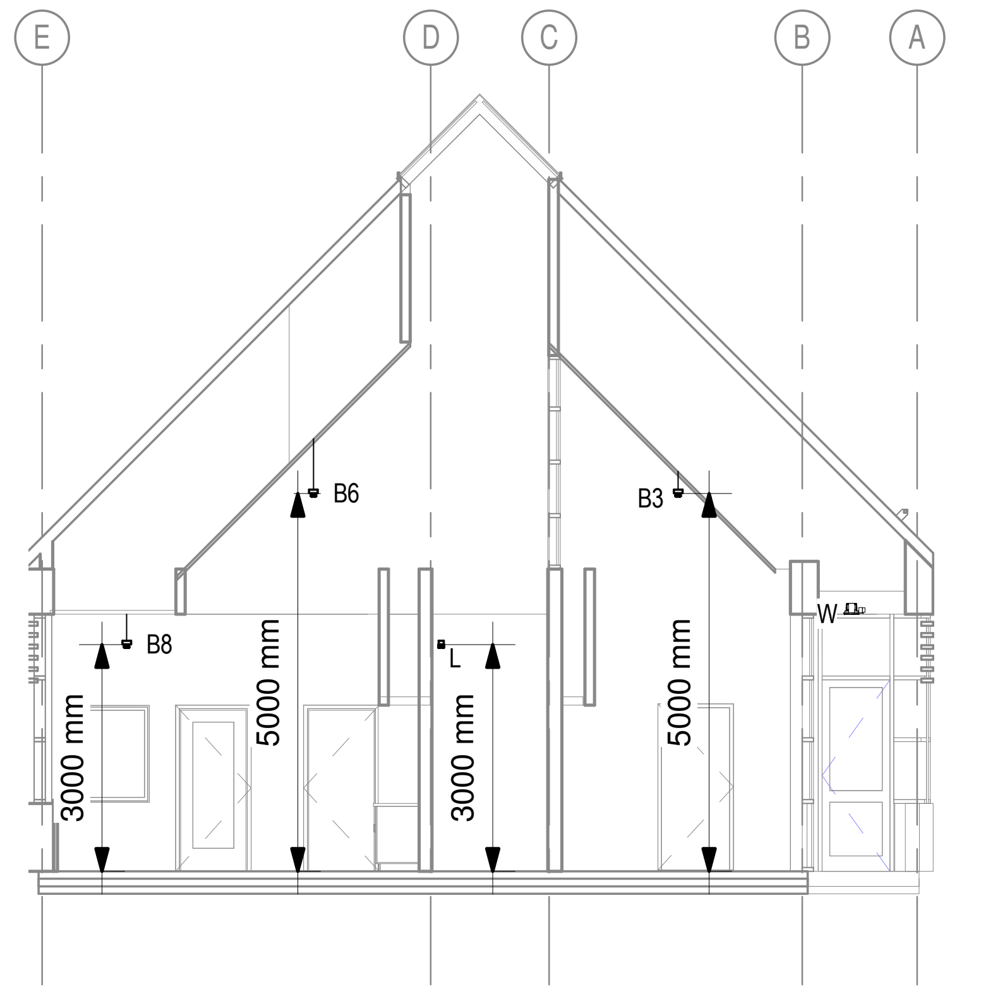
1:100 2000 0 2000 4000 6000 mm


R1.4
EBP1 - 7
c
ROOM 303
ROOM 302
ROOM 301
EBP1 - 7
K
VS

2 COLD STORAGE - LIGHTING

1 : 100

1:100 2000 0 2000 4000 6000 mm

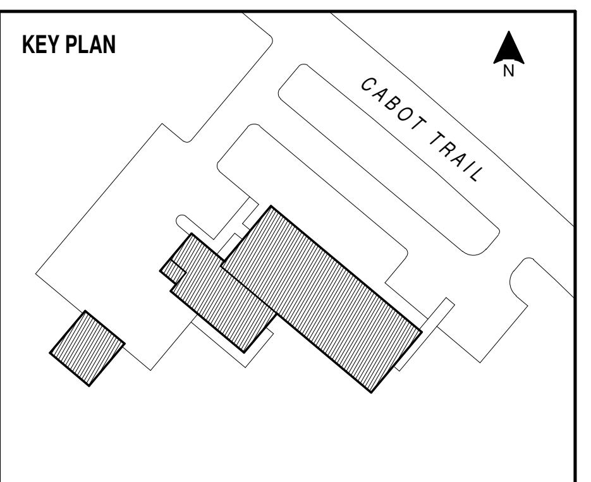

E
D
C
B
A
B6
B3
B8
L
W
3000 mm
5000 mm
3000 mm
5000 mm

NOTE:
1. NOT ALL ITEMS ARE SHOWN FOR CLARITY.

3 SECTION THRU ROOM 113 AND 102

510

1 : 100


KEY PLAN
CABOT TRAIL
N

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NOTES

1. ROOMS WITH ONE CIRCUIT NUMBER SHOWN IMPLIES THAT ALL FIXTURES AND EMERGENCY LIGHTING WITHIN THE ROOM ARE ON THAT CIRCUIT UNLESS NOTED OTHERWISE.
2. BYPASS SWITCH FOR OUTDOOR BUILDING PERIMETER LIGHTING.
3. BYPASS SWITCH FOR PARKING LOT LIGHTING.
4. BYPASS SWITCH FOR OUTDOOR ILLUMINATED SIGN.
5. MOUNT FIXTURE TYPES B1 AND B2 IN ROOM 101 AT 2700mm A.F.F.

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INGONISH CIVIC BUILDING

INGONISH, NS

DSRA JOB #: 12169
DRAWN BY: C.N.
CHECKED BY: H.B. / J.L.
SCALE: 1 : 100

LIGHTING LAYOUT

510

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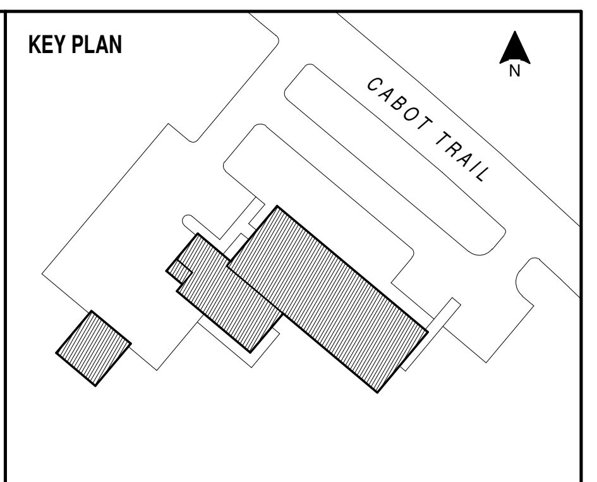
KEY PLAN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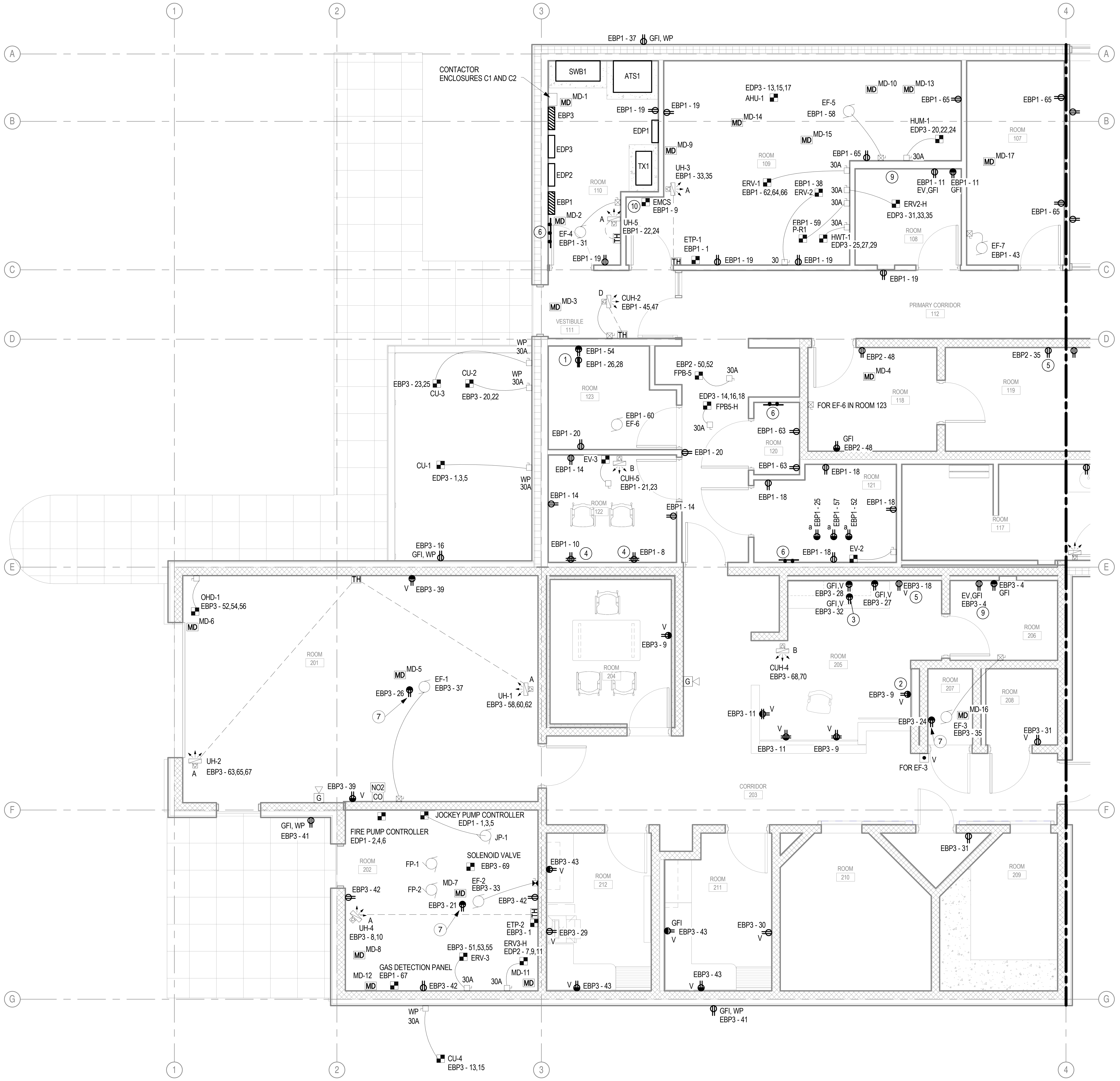
1
2
3
4
A
B
C
D
E
F
G
EBP1 - 37
GFI, WP
CONTACTOR
ENCLOSURES C1 AND C2
SWB1
ATS1
MD
MD-1
EBP3
EDP3
EDP2
EBP1
EDP1
TX1
ROOM
110
MD-2
EF-4
EBP1 - 31
EBP1 - 19
UH-5
EBP1 - 22,24
EMCS
EBP1 - 9
UH-3
EBP1 - 33,35
MD-9
EBP1 - 19
EDP3 - 13,15,17
AHU-1
MD-14
MD-10
MD-13
EBP1 - 65
EF-5
EBP1 - 58
HUM-1
EDP3 - 20,22,24
MD-15
ROOM
109
EBP1 - 65
30A
ERV-1
EBP1 - 62,64,66
EBP1 - 38
ERV-2
ERV2-H
EDP3 - 31,33,35
FRP1 - 59
P-R1
HWT-1
EDP3 - 25,27,29
ETP-1
EBP1 - 1
TH
EBP1 - 19
30
EBP1 - 11
EV,GFI
GFI
ROOM
108
EBP1 - 19
EBP1 - 65
ROOM
107
MD-17
EF-7
EBP1 - 43
MD-3
CUH-2
EBP1 - 45,47
VESTIBULE
111
PRIMARY CORRIDOR
112
EBP1 - 54
EBP1 - 26,28
ROOM
123
EBP2 - 50,52
FPB-5
EDP3 - 14,16,18
FPB5-H
EBP1 - 60
EF-6
EBP1 - 20
EBP1 - 63
ROOM
120
EBP2 - 48
MD-4
ROOM
118
FOR EF-6 IN ROOM 123
EBP2 - 35
ROOM
119
EBP2 - 48
WP
30A
EBP3 - 23,25
CU-3
CU-2
EBP3 - 20,22
CU-1
EDP3 - 1,3,5
EV-3
CUH-5
EBP1 - 21,23
EBP1 - 14
ROOM
122
EBP1 - 10
EBP1 - 8
EBP1 - 18
ROOM
121
EBP1 - 25
EBP1 - 57
EBP1 - 52
EV-2
ROOM
117
EBP3 - 16
GFI, WP
TH
EBP3 - 39
OHD-1
EBP3 - 52,54,56
MD-6
ROOM
201
MD-5
EF-1
EBP3 - 26
EBP3 - 37
UH-1
EBP3 - 58,60,62
UH-2
EBP3 - 63,65,67
EBP3 - 9
ROOM
204
GFI,V
EBP3 - 28
EBP3 - 32
EBP3 - 27
EBP3 - 18
EV,GFI
EBP3 - 4
ROOM
206
CUH-4
EBP3 - 68,70
ROOM
205
ROOM
207
ROOM
208
MD-16
EF-3
EBP3 - 35
EBP3 - 24
EBP3 - 11
EBP3 - 9
EBP3 - 31
FOR EF-3
CORRIDOR
203
EBP3 - 39
NO2
CO
JOCKEY PUMP CONTROLLER
EDP1 - 1,3,5
JP-1
FIRE PUMP CONTROLLER
EDP1 - 2,4,6
GFI, WP
EBP3 - 41
ROOM
202
FP-1
SOLENOID VALVE
EBP3 - 69
FP-2
MD-7
EF-2
EBP3 - 33
EBP3 - 21
EBP3 - 42
UH-4
EBP3 - 8,10
MD-8
ETP-2
EBP3 - 1
ERV3-H
EDP2 - 7,9,11
EBP3 - 51,53,55
ERV-3
GAS DETECTION PANEL
EBP1 - 67
MD-12
MD-11
EBP3 - 43
ROOM
212
EBP3 - 29
ROOM
211
EBP3 - 30
ROOM
210
EBP3 - 31
ROOM
209
GFI, WP
EBP3 - 41
WP
30A
CU-4
EBP3 - 13,15

1 MAIN FLOOR AREA A - POWER

1 : 50

1:50 1000 0 1000 2000 3000 mm

NOTES

1. 14-30R FOR WASHER/DRYER. COORDINATE RECEPTACLE CSA CONFIGURATION WITH SHOP DRAWING BEFORE INSTALLATION.
2. RECEPTACLE FOR WALL CLOCK AT 1.8 METERS A.F.F.
3. 5-20R RECEPTACLE FOR MICROWAVE OVEN AT 1.5 METERS A.F.F. COORDINATE WITH MILLWORK.
4. ABOVE CCTV CABINETS.
5. 5-20R RECEPTACLE FOR REFRIGERATOR.
6. GROUND BAR.
7. PROVIDE 5-20R RECEPTACLE ADJACENT TO THE MECHANICAL EQUIPMENT ON THE ROOF. INSTALL RECEPTACLE AT 750mm ABOVE THE FINISHED FLOOR.
8. 20A DEDICATED RECEPTACLE MOUNTED ABOVE T-BAR FOR VAPOR EXHAUST FAN.
9. EV (ELECTRONIC FAUCET) RECEPTACLE TO BE MOUNTED DIRECTLY BELOW SINK. CORRDINATE EXACT LOCATION WITH MECHANICAL BEFORE INSTALLATION.
10. EMCS CABINET BY MECHANICAL. COORDINATE EXACT LOCATION OF CABINET WITH MECHANICAL CONTRACTOR.
11. ROUTE FEEDER FOR JOCKEY PUMP, ERV3, ERV3-H, EF-2, CUH-4 AND CU-4 THOUGH UNDERGROUND CONDUIT. REFER TO CONDUIT SCHEDULE (REFERANCE 10) ON DRAWING 502.

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INGONISH CIVIC BUILDING

INGONISH, NS

DSRA JOB #: 12169
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AREA A - POWER LAYOUT

511

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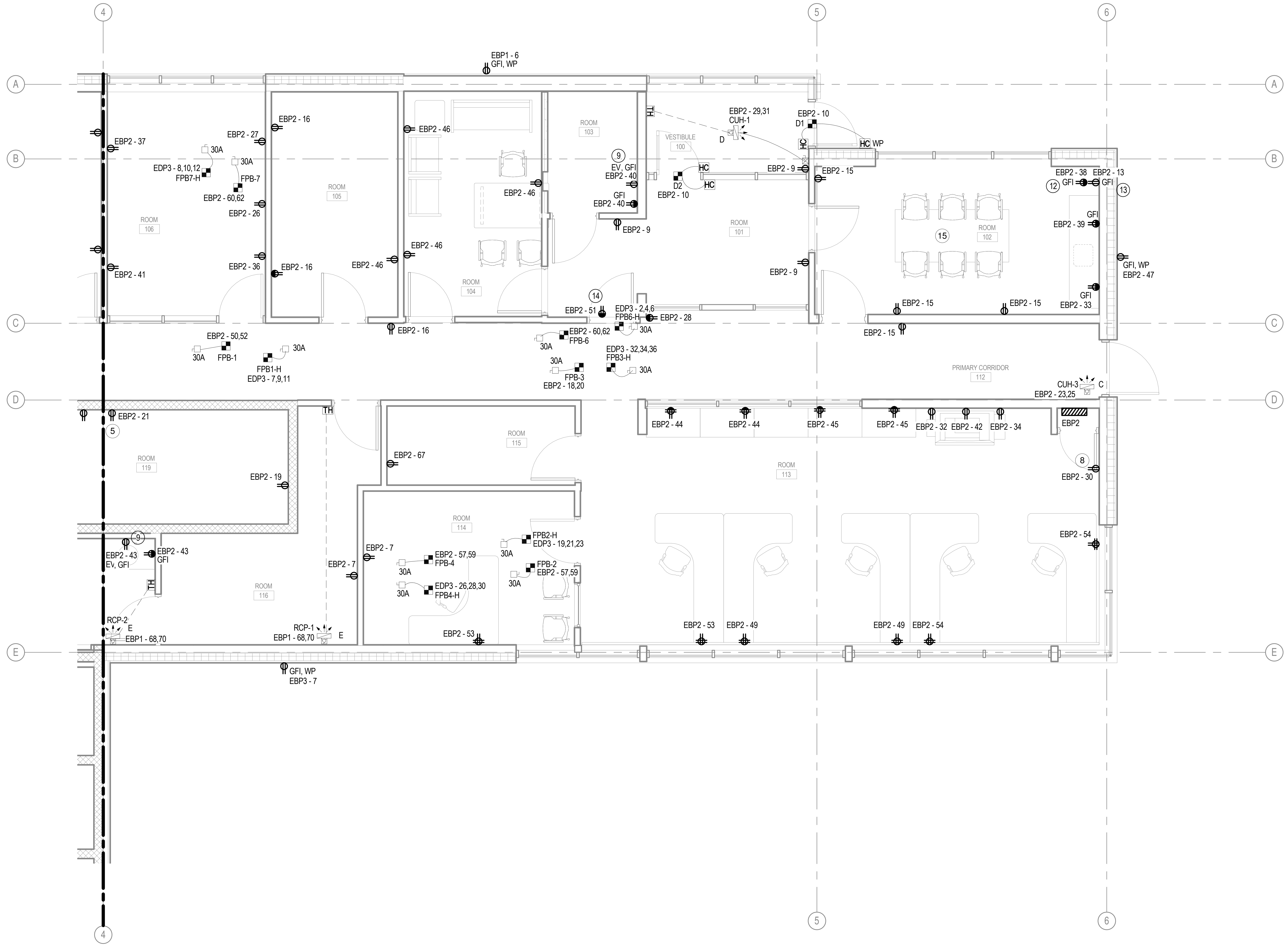
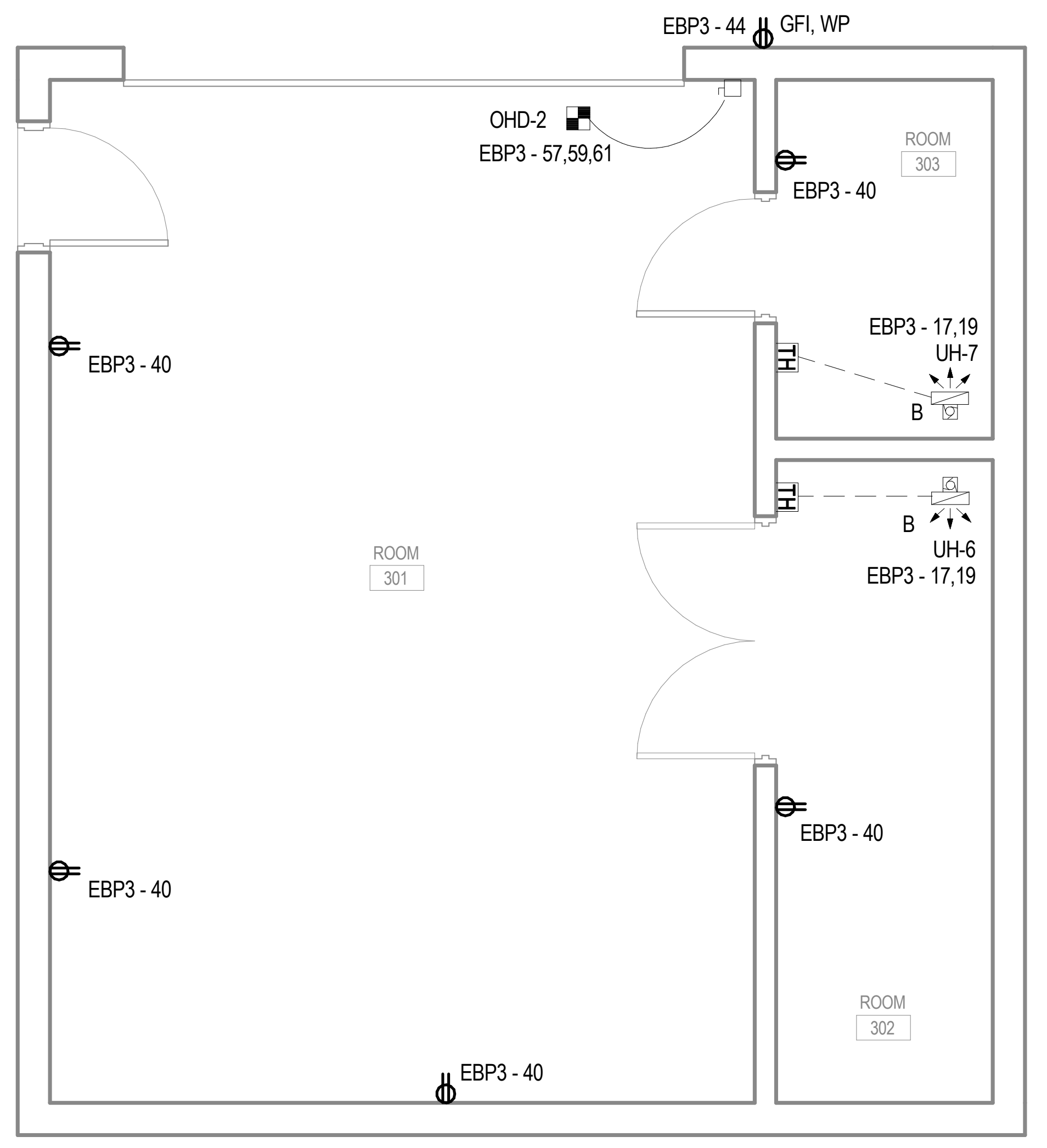

4
5
6
A
B
C
D
E
EBP1 - 6
GFI, WP
EBP2 - 37
EBP2 - 27
30A
EDP3 - 8,10,12
FPB7-H
30A
FPB-7
EBP2 - 60,62
EBP2 - 26
ROOM
106
EBP2 - 41
EBP2 - 36
EBP2 - 16
ROOM
105
EBP2 - 16
EBP2 - 46
EBP2 - 46
EBP2 - 46
EBP2 - 46
ROOM
104
EBP2 - 16
ROOM
103
9
EV, GFI
EBP2 - 40
GFI
EBP2 - 40
EBP2 - 9
TH
VESTIBULE
100
EBP2 - 29,31
CUH-1
D
D2
EBP2 - 10
HC
HC
EBP2 - 10
D1
HC
HC WP
EBP2 - 9
EBP2 - 15
ROOM
101
EBP2 - 9
14
EBP2 - 51
EDP3 - 2,4,6
FPB6-H
EBP2 - 28
30A
EBP2 - 60,62
FPB-6
30A
EDP3 - 32,34,36
FPB3-H
30A
30A
FPB-3
EBP2 - 18,20
EBP2 - 50,52
30A
FPB-1
30A
FPB1-H
EDP3 - 7,9,11
EBP2 - 38
EBP2 - 13
12
GFI
GFI
13
GFI
EBP2 - 39
15
ROOM
102
GFI, WP
EBP2 - 47
GFI
EBP2 - 33
EBP2 - 15
EBP2 - 15
EBP2 - 15
PRIMARY CORRIDOR
112
CUH-3
C
EBP2 - 23,25
EBP2 - 21
5
TH
ROOM
119
EBP2 - 19
ROOM
115
EBP2 - 67
EBP2 - 44
EBP2 - 44
EBP2 - 45
EBP2 - 45
EBP2 - 32
EBP2 - 42
EBP2 - 34
EBP2
8
EBP2 - 30
ROOM
113
9
EBP2 - 43
EV, GFI
EBP2 - 43
GFI
TH
ROOM
116
EBP2 - 7
ROOM
114
EBP2 - 7
EBP2 - 57,59
FPB-4
30A
FPB2-H
EDP3 - 19,21,23
30A
FPB-2
EBP2 - 57,59
30A
30A
EDP3 - 26,28,30
FPB4-H
EBP2 - 54
RCP-2
E
EBP1 - 68,70
RCP-1
EBP1 - 68,70
E
EBP2 - 53
EBP2 - 53
EBP2 - 49
EBP2 - 49
EBP2 - 54
GFI, WP
EBP3 - 7

1 MAIN FLOOR AREA B - POWER

1 : 50

1:50 1000 0 1000 2000 3000 mm

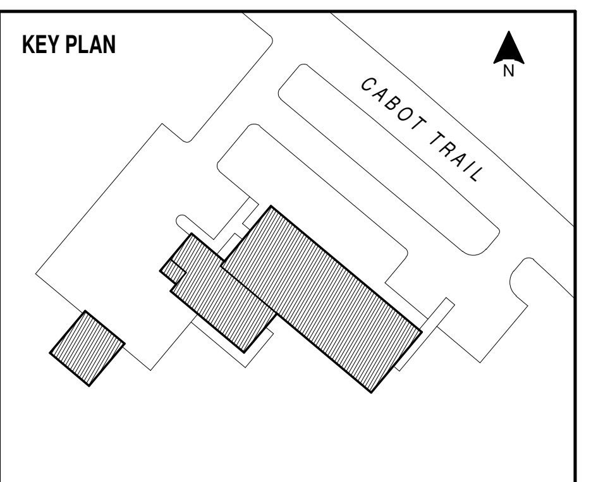

EBP3 - 44
GFI, WP
OHD-2
EBP3 - 57,59,61
ROOM
303
EBP3 - 40
EBP3 - 40
EBP3 - 17,19
UH-7
TH
B
TH
B
UH-6
EBP3 - 17,19
ROOM
301
EBP3 - 40
EBP3 - 40
ROOM
302
EBP3 - 40

2 COLD STORAGE - POWER

1 : 50

1:50 1000 0 1000 2000 3000 mm

KEY PLAN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NOTES

1. 14-30R FOR WASHER/DRYER. COORDINATE RECEPTACLE CSA CONFIGURATION WITH SHOP DRAWING BEFORE INSTALLATION.
2. RECEPTACLE FOR WALL CLOCK AT 1.8 METERS A.F.F.
3. 5-20R RECEPTACLE FOR MICROWAVE OVEN AT 1.5 METERS A.F.F. COORDINATE WITH MILLWORK.
4. ABOVE CCTV CABINETS.
5. 5-20R RECEPTACLE FOR REFRIDGERATOR.
6. GROUND BAR.
7. PROVIDE 5-20R RECEPTACLE ADJACENT TO THE MECHANICAL EQUIPMENT ON THE ROOF. INSTALL RECEPTACLE AT 750mm ABOVE THE FINISHED FLOOR.
8. 20A DEDICATED RECEPTACLE MOUNTED ABOVE T-BAR FOR VAPOR EXHAUST FAN.
9. EV (ELECTRIC FAUCET) RECEPTACLES TO BE MOUNTED DIRECTLY BELOW SINK. CORRDINATE EXACT LOCATION WITH MECHANICAL BEFORE INSTALLATION.
10. EMCS CABINET BY MECHANICAL. COORDINATE EXACT LOCATION OF CABINET WITH MECHANICAL.
11. ROUTE FEEDER FOR JOCKEY PUMP, ERV3, ERV3-H, EF-2, CUH-4 AND CU-4 THROUGH UNDERGROUND CONDUIT. REFER TO CONDUIT SCHEDULE (REFERANCE 10) ON DRAWING 502.
12. 5-20R RECEPTACLE FOR MICROWAVE. MOUNTED ABOVE COUNTER-TOP.
13. 5-20R RECEPTACLE FOR MINI-FRIDGE. COORDINATE WITH MILLWORK.
14. OUTLET FOR INFORMATION SCREEN TO BE WALL MOUNTED ABOVE DOOR. CONFIRM MOUNTING HEIGHT WITH DEPARTMENTAL REPRESENTATIVE.
15. SEE DRAWING 515 FOR FLOOR BOX LOCATION.

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INGONISH CIVIC BUILDING

INGONISH, NS

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AREA B - POWER LAYOUT

512

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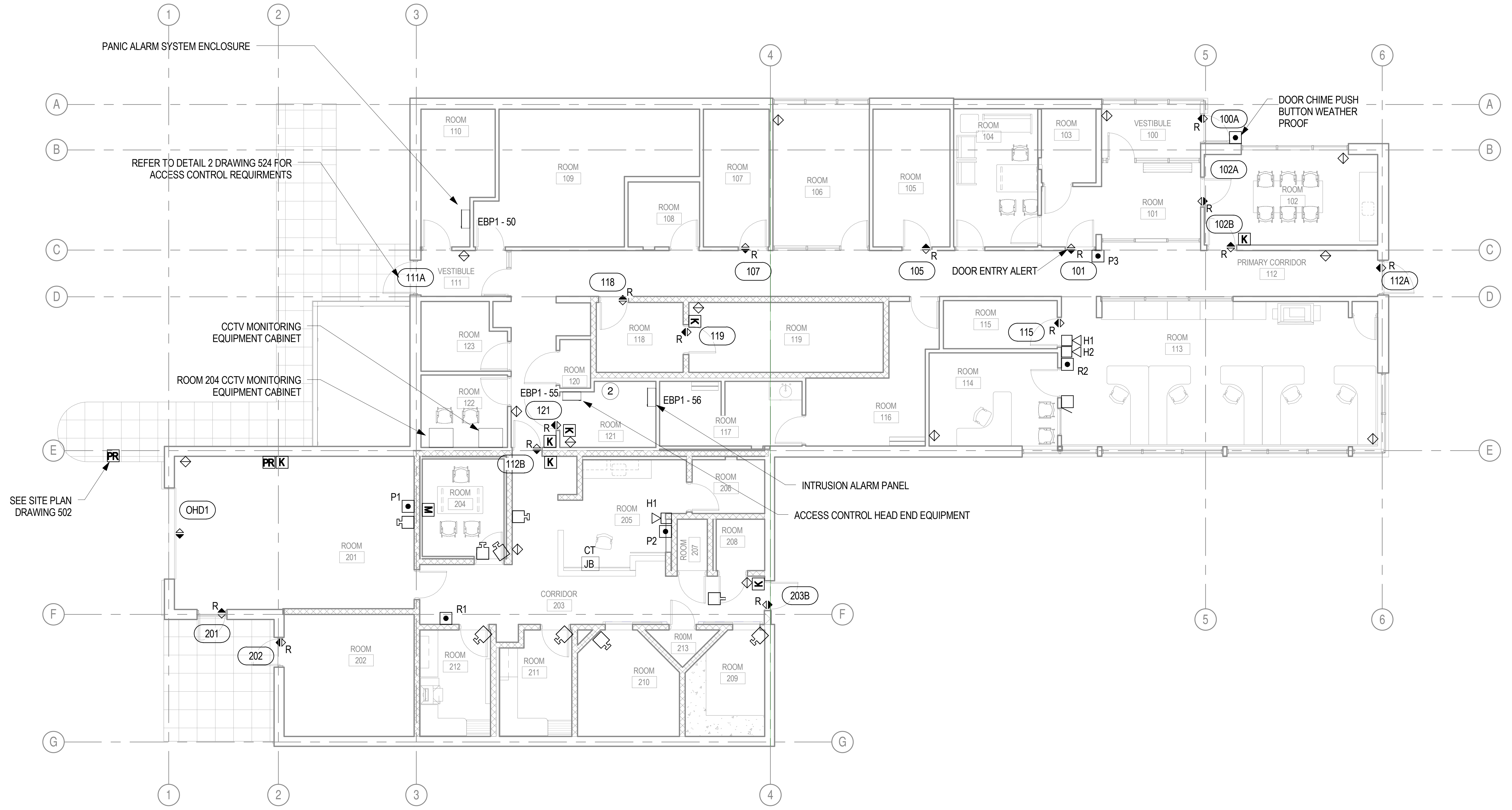
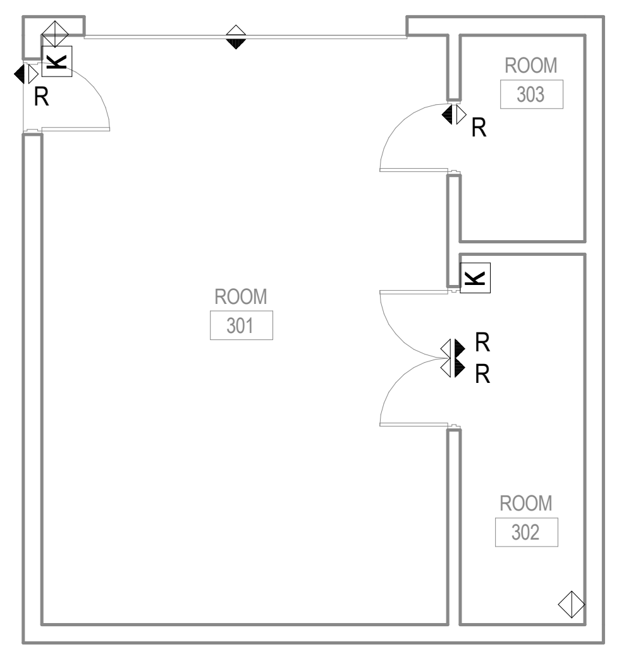

PANIC ALARM SYSTEM ENCLOSURE
REFER TO DETAIL 2 DRAWING 524 FOR ACCESS CONTROL REQUIRMENTS
CCTV MONITORING EQUIPMENT CABINET
ROOM 204 CCTV MONITORING EQUIPMENT CABINET
SEE SITE PLAN DRAWING 502
EBP1 - 50
EBP1 - 55
EBP1 - 56
INTRUSION ALARM PANEL
ACCESS CONTROL HEAD END EQUIPMENT
DOOR CHIME PUSH BUTTON WEATHER PROOF
DOOR ENTRY ALERT
1
2
3
4
5
6
A
B
C
D
E
F
G
ROOM 110
ROOM 109
ROOM 108
ROOM 107
ROOM 106
ROOM 105
ROOM 104
ROOM 103
VESTIBULE 100
ROOM 101
ROOM 102
PRIMARY CORRIDOR 112
VESTIBULE 111
ROOM 123
ROOM 122
ROOM 120
ROOM 121
ROOM 118
ROOM 119
ROOM 117
ROOM 116
ROOM 115
ROOM 114
ROOM 113
ROOM 201
ROOM 204
ROOM 205
ROOM 206
ROOM 207
ROOM 208
CORRIDOR 203
ROOM 202
ROOM 212
ROOM 211
ROOM 210
ROOM 213
ROOM 209
111A
107
105
101
100A
102A
102B
112A
118
119
115
121
112B
OHD1
201
202
203B
PR
PR
K
R
P1
P2
P3
H1
H2
R1
R2
CT
JB

1 MAIN FLOOR - SECURITY

1 : 100

1:100 2000 0 2000 4000 6000 mm

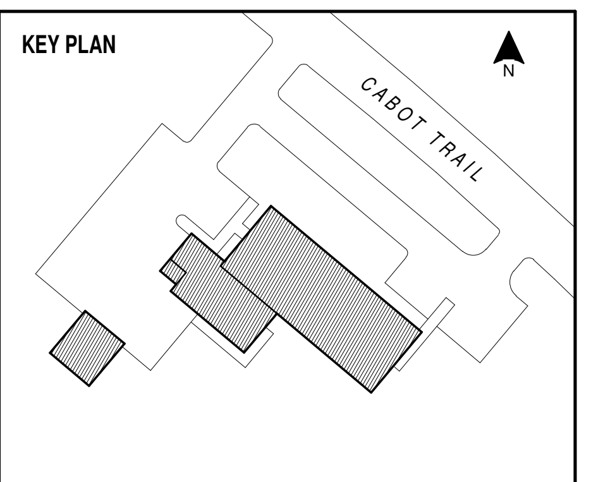

ROOM 303
ROOM 301
ROOM 302
R
R
R
R

2 COLD STORAGE - SECURITY

1 : 100

1:100 2000 0 2000 4000 6000 mm

KEY PLAN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NOTES

1. REFER TO DRAWINGS 523 AND 524 FOR RISERS AND DETAILS.
2. REFER TO TELECOMUNICATIONS DRAWING 515 FOR LAYOUT OF SECURITY SYSTEM BASKET TRAY.

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PROVINCE OF NOVA SCOTIA

INGONISH CIVIC BUILDING

INGONISH, NS

DSRA JOB #: 12169

DRAWN BY: C.N.

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SECURITY LAYOUT

513

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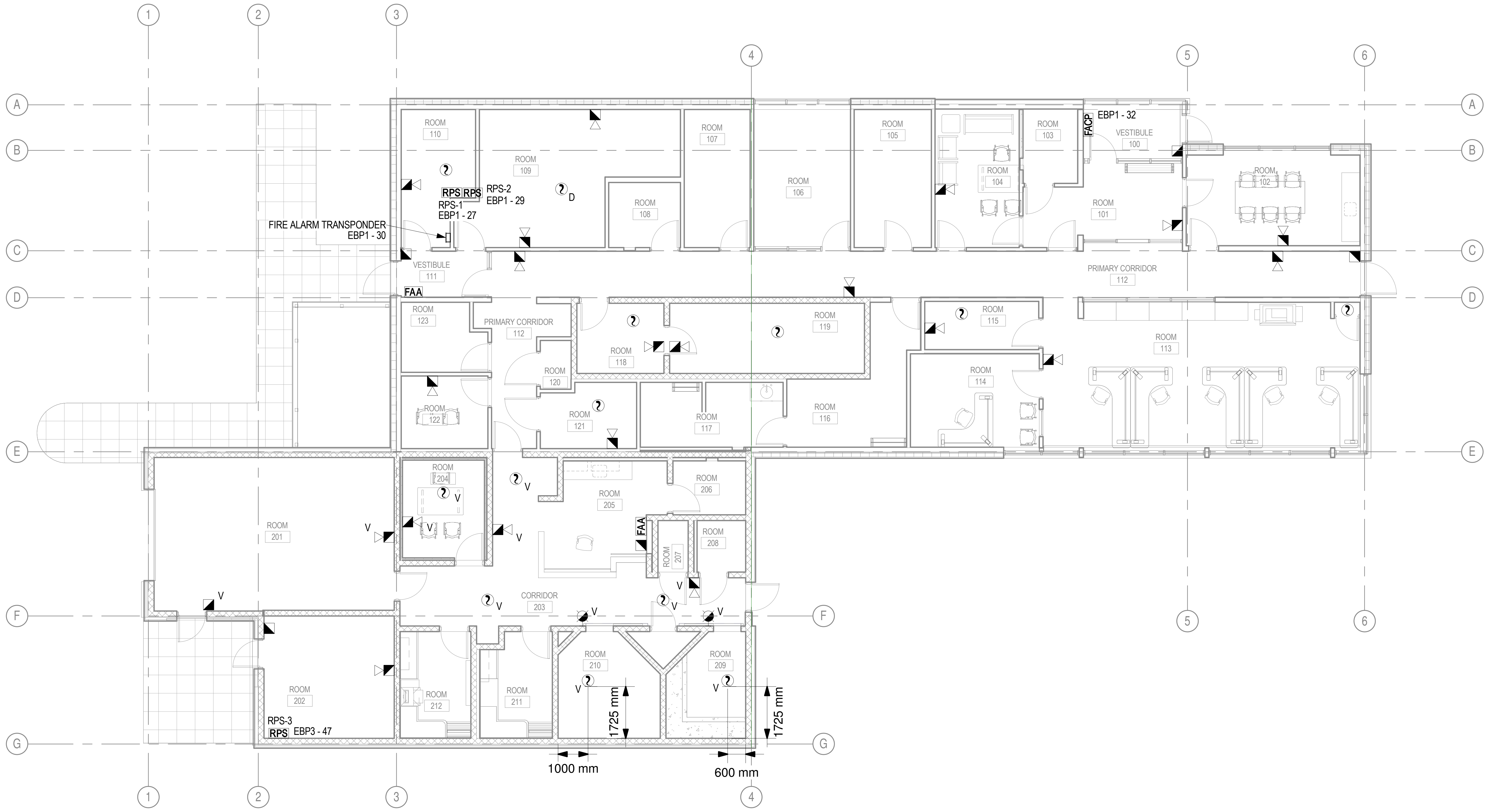
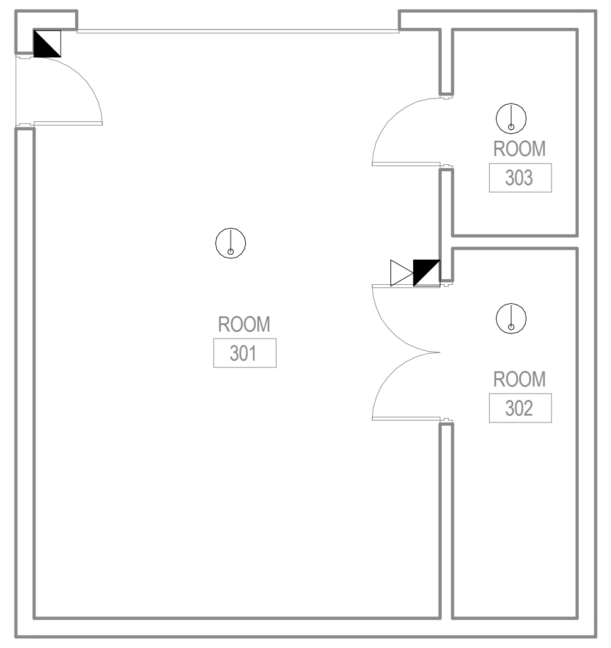

1
2
3
4
5
6
A
B
C
D
E
F
G
ROOM 110
ROOM 109
ROOM 108
ROOM 107
ROOM 106
ROOM 105
ROOM 104
ROOM 103
VESTIBULE 100
ROOM 101
ROOM 102
FACP
EBP1 - 32
RPS RPS
RPS-2
EBP1 - 29
RPS-1
EBP1 - 27
D
FIRE ALARM TRANSPONDER
EBP1 - 30
VESTIBULE 111
FAA
PRIMARY CORRIDOR 112
ROOM 123
ROOM 122
ROOM 120
ROOM 121
ROOM 118
ROOM 119
ROOM 117
ROOM 116
ROOM 115
ROOM 114
ROOM 113
ROOM 201
ROOM 204
ROOM 205
ROOM 206
FAA
ROOM 207
ROOM 208
CORRIDOR 203
ROOM 202
RPS-3
RPS
EBP3 - 47
ROOM 212
ROOM 211
ROOM 210
ROOM 209
V
1725 mm
1725 mm
1000 mm
600 mm

1 MAIN FLOOR - FIRE ALARM

1 : 100

1:100 2000 0 2000 4000 6000 mm

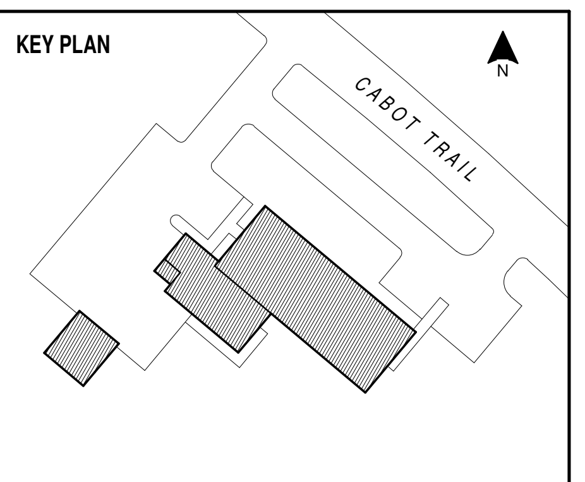

ROOM 303
ROOM 301
ROOM 302

2 COLD STORAGE - FIRE ALARM

1 : 100

1:100 2000 0 2000 4000 6000 mm

KEY PLAN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INGONISH CIVIC
BUILDING

INGONISH, NS

DSRA JOB #: 12169
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FIRE ALARM LAYOUT

514

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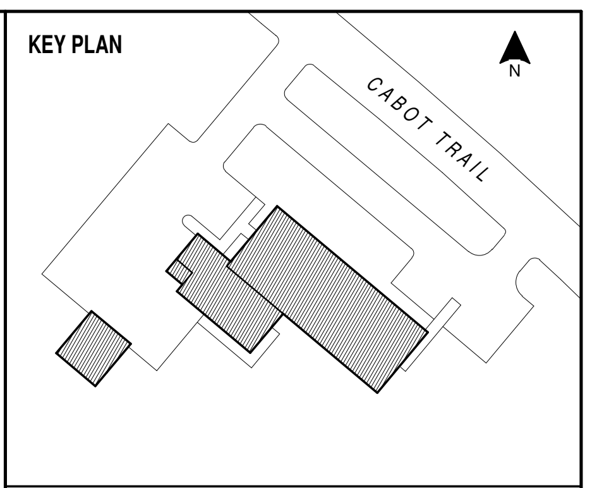
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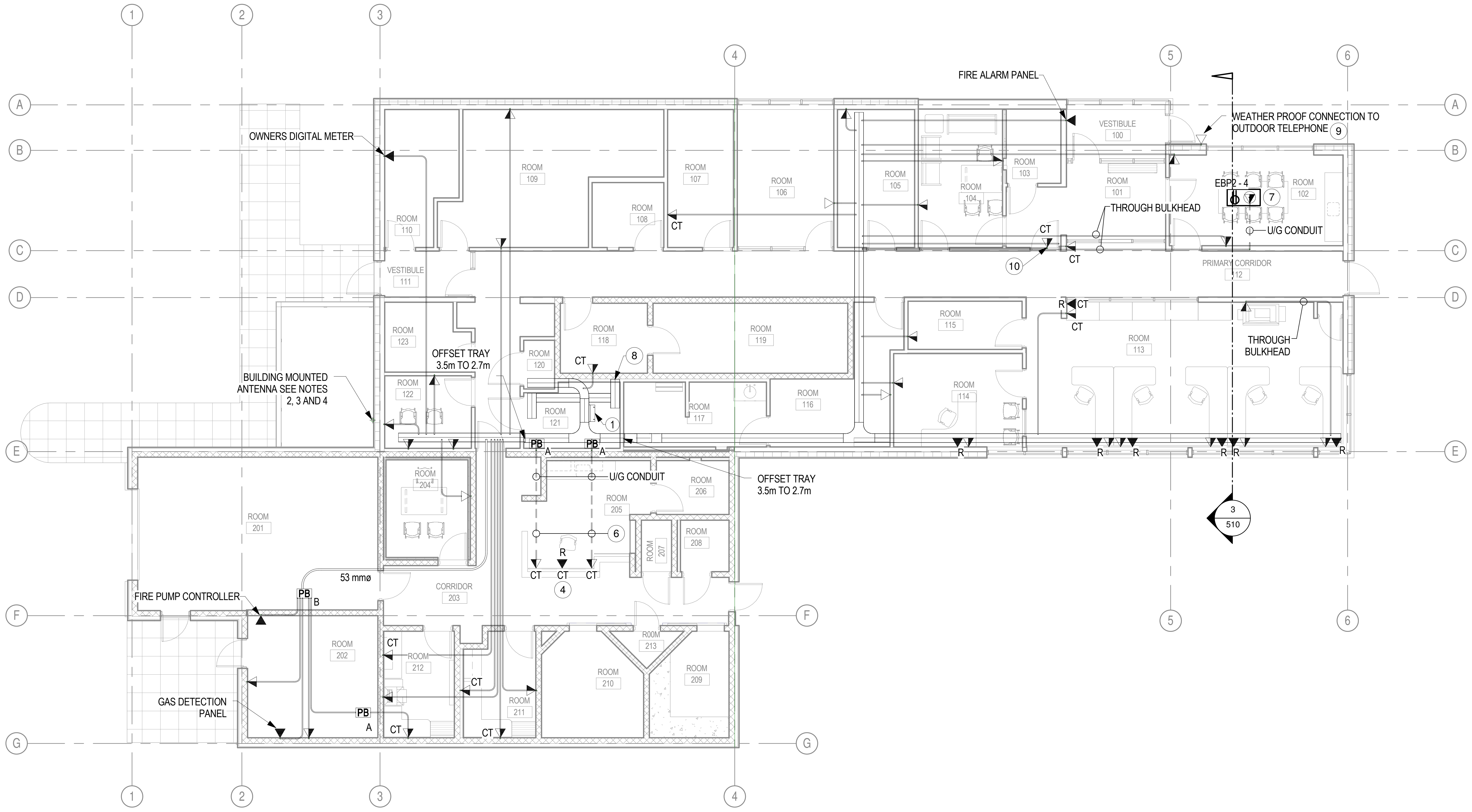
1
2
3
4
5
6
A
B
C
D
E
F
G
FIRE ALARM PANEL
WEATHER PROOF CONNECTION TO OUTDOOR TELEPHONE
9
OWNERS DIGITAL METER
ROOM 109
ROOM 107
ROOM 106
ROOM 105
ROOM 104
ROOM 103
VESTIBULE 100
ROOM 101
ROOM 102
EBPP - 4
7
ROOM 108
ROOM 110
CT
THROUGH BULKHEAD
U/G CONDUIT
10
VESTIBULE 111
PRIMARY CORRIDOR 112
ROOM 123
ROOM 118
ROOM 119
ROOM 115
ROOM 113
THROUGH BULKHEAD
OFFSET TRAY 3.5m TO 2.7m
ROOM 120
8
BUILDING MOUNTED ANTENNA SEE NOTES 2, 3 AND 4
ROOM 122
ROOM 121
ROOM 117
ROOM 116
ROOM 114
1
PB
A
R
ROOM 204
U/G CONDUIT
OFFSET TRAY 3.5m TO 2.7m
ROOM 206
ROOM 205
ROOM 201
6
ROOM 207
ROOM 208
3
510
53 mmø
CORRIDOR 203
4
FIRE PUMP CONTROLLER
B
ROOM 202
ROOM 212
ROOM 213
ROOM 210
ROOM 209
ROOM 211
GAS DETECTION PANEL

1 MAIN FLOOR - TELECOMMUNICATIONS

1 : 100

2000 0 2000 4000 6000 mm

1:100

PULL BOX SCHEDULE				
PULL BOX	LENGTH	WIDTH	DEPTH	WIDTH INCREASE FOR ADDITIONAL CONDUIT
A	405 mm	100 mm	75 mm	50 mm
B	914 mm	200 mm	100 mm	125 mm

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NOTES

1. TELECOMMUNICATIONS CABINET SUPPLIED AND INSTALLED BY THIS CONTRACTOR.
2. ANTENNA TO BE MOUNTED TO HAVE MINIMUM 1.2m CLEARANCE FROM ELECTRICAL/MECHANICAL EQUIPMENT. ANTENNA SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONSULT ANTENNA MANUFACTURER FOR ADDITIONAL CLEARANCE REQUIREMENTS BEFORE INSTALLATION.
3. SEE DRAWING 504 DETAIL 1 FOR ANTENNA BUILDING MOUNTING.
4. SEE DRAWING 525 DETAIL 10 FOR RADIO SYSTEM RACEWAY REQUIREMENTS.
5. ALL CONDUITS 27mm UNLESS NOTED OTHERWISE.
6. PVC TO EMT STUB-UP THROUGH GUARD STATION COUNTER. PROVIDE PULLBOX WITHIN ROOM 121 ON WALL IF REQUIRED.
7. PVC TO EMT STUB-UP THROUGH WALL. CONTINUE CONDUIT TO CABLE TRAY THROUGH BULKHEAD. PROVIDE PULL BOX IF NECESSARY.
8. SECURITY SYSTEM BASKET TRAY TO BE MOUNTED BELOW TELECOM TRAY 2.45m A.F.F. COORDINATE WITH SECURITY PANEL BEFORE INSTALLATION.
9. OUTDOOR PHONE SUPPLIED BY DEPARTMENTAL REPRESENTATIVE AND INSTALLED BY THIS CONTRACTOR. SEAL CONDUIT ENTRY TO OUTDOOR TELEPHONE.
10. TELECOM OUTLET FOR INFORMATION SCREEN TO BE WALL MOUNTED ABOVE DOOR. CONFIRM MOUNTING HEIGHT WITH DEPARTMENTAL REPRESENTATIVE.

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INGONISH CIVIC
BUILDING

INGONISH, NS

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CHECKED BY: H.B. / J.L.
SCALE: 1 : 100

TELECOMMUNICATIONS
LAYOUT

515

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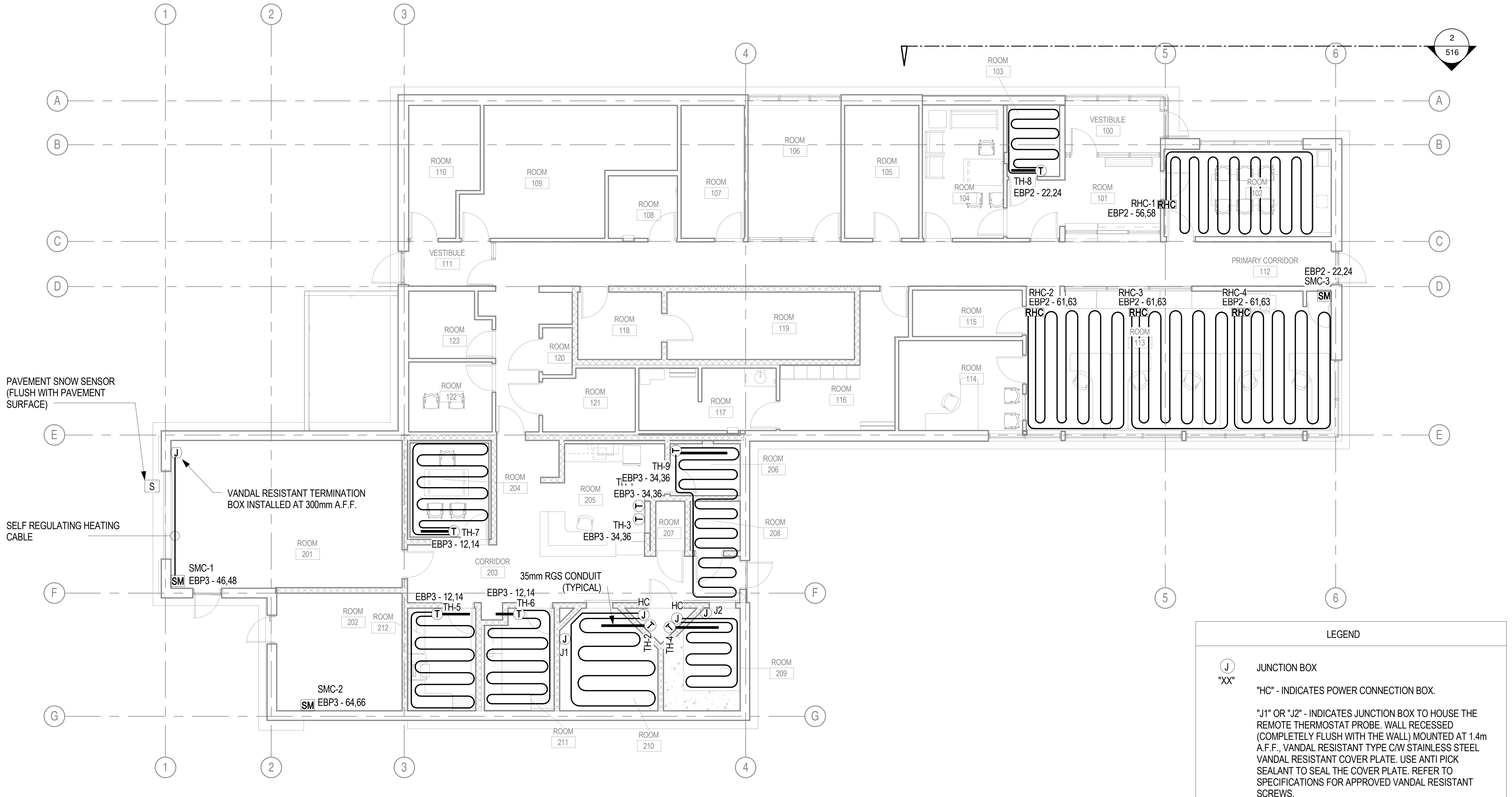

1
2
3
4
5
6
A
B
C
D
E
F
G
2
516
ROOM 103
VESTIBULE 100
ROOM 110
ROOM 109
ROOM 108
ROOM 107
ROOM 106
ROOM 105
ROOM 104
ROOM 101
ROOM 102
TH-8
EBP2 - 22,24
RHC-1
EBP2 - 56,58
RHC
VESTIBULE 111
PRIMARY CORRIDOR 112
EBP2 - 22,24
SMC-3
SM
ROOM 123
ROOM 120
ROOM 118
ROOM 119
ROOM 115
RHC-2
EBP2 - 61,63
RHC-3
EBP2 - 61,63
RHC-4
EBP2 - 61,63
ROOM 113
ROOM 122
ROOM 121
ROOM 117
ROOM 116
ROOM 114
PAVEMENT SNOW SENSOR (FLUSH WITH PAVEMENT SURFACE)
S
J
VANDAL RESISTANT TERMINATION BOX INSTALLED AT 300mm A.F.F.
SELF REGULATING HEATING CABLE
ROOM 201
SMC-1
EBP3 - 46,48
ROOM 204
TH-7
EBP3 - 12,14
ROOM 205
TH-9
EBP3 - 34,36
EBP3 - 34,36
TH-3
EBP3 - 34,36
ROOM 206
ROOM 207
ROOM 208
CORRIDOR 203
35mm RGS CONDUIT (TYPICAL)
ROOM 202
ROOM 212
EBP3 - 12,14
TH-5
EBP3 - 12,14
TH-6
HC
HC
J1
J2
TH-2
TH-4
ROOM 209
SMC-2
EBP3 - 64,66
ROOM 211
ROOM 210

1 MAIN FLOOR - SNOW MELTING AND RADIANT HEATING

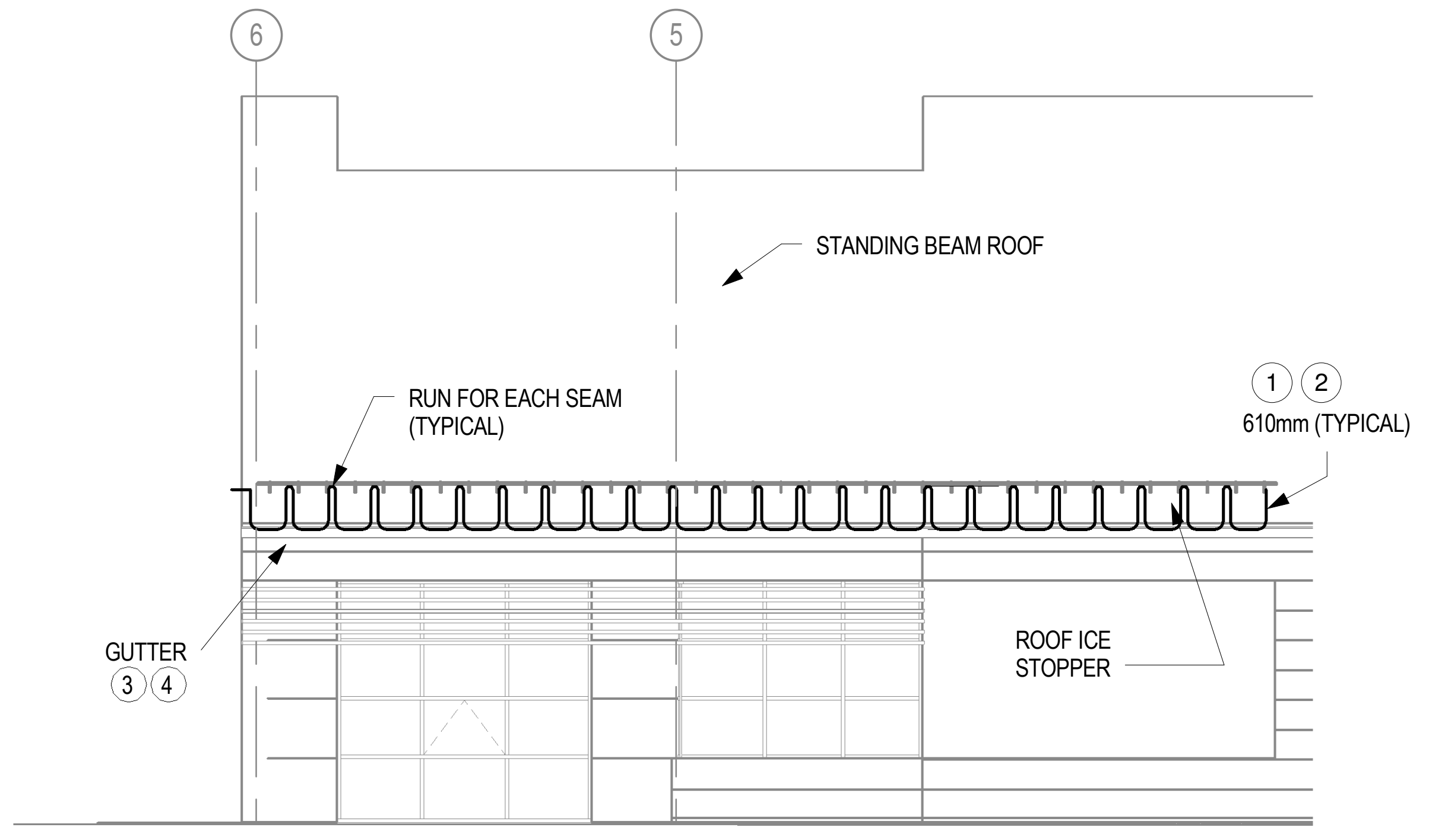
1 : 100

1:100 2000 0 2000 4000 6000 mm

ELECTRIC RADIANT HEATING REQUIREMENTS			
ROOM #	RADIENT CAPACITY	CABLE LENGTH	SPACING
102	1200 W	103.6 m	0.168 m
103	250 W	30.5 m	0.152 m
113	3600 W	310.8 m	0.145 m
203	500 W	61 m	0.152 m
204	200 W	87 m	0.152 m
206	500 W	61 m	0.152 m
208	500 W	61 m	0.152 m
209	550 W	33.5 m	0.152 m
210	550 W	77.1 m	0.152 m
211	370 W	58 m	0.152 m
212	370 W	58 m	0.152 m

LEGEND

J "XX"	JUNCTION BOX "HC" - INDICATES POWER CONNECTION BOX. "J1" OR "J2" - INDICATES JUNCTION BOX TO HOUSE THE REMOTE THERMOSTAT PROBE. WALL RECESSED (COMPLETELY FLUSH WITH THE WALL) MOUNTED AT 1.4m A.F.F., VANDAL RESISTANT TYPE C/W STAINLESS STEEL VANDAL RESISTANT COVER PLATE. USE ANTI PICK SEALANT TO SEAL THE COVER PLATE. REFER TO SPECIFICATIONS FOR APPROVED VANDAL RESISTANT SCREWS.
T "XX"	AMBIENT SENSING THERMOSTAT. TH-"#" INDICATES THERMOSTAT DESIGNATION
SM "XX"	AUTOMATIC CONTROLLER. SMC-"#" INDICATES CONTROLLER DESIGNATION
RHC "XX"	RADIANT HEAT CONTROL BOX. RHC-"#" INDICATES CONTROL BOX DESIGNATION

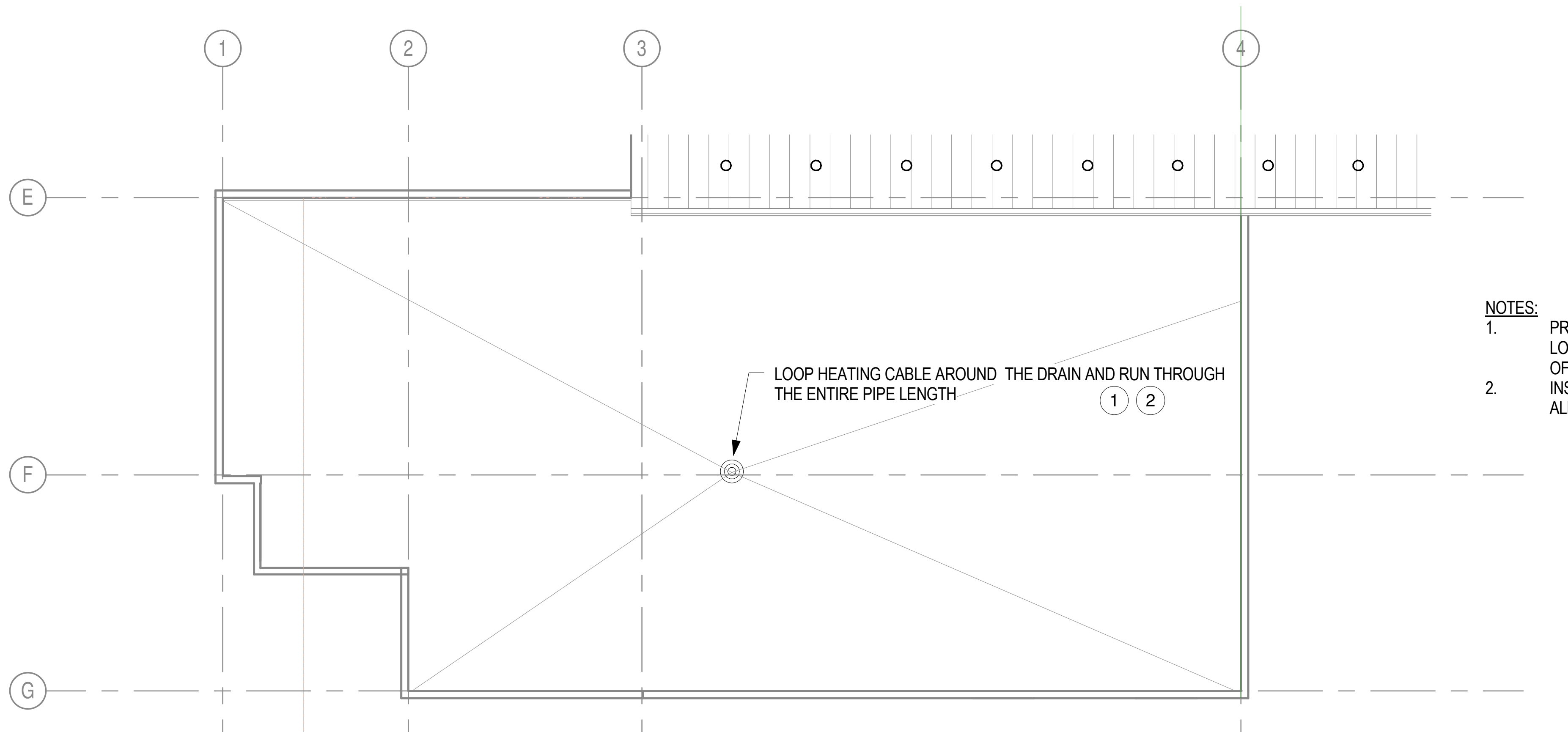

6
5
STANDING BEAM ROOF
RUN FOR EACH SEAM (TYPICAL)
1 2
610mm (TYPICAL)
GUTTER
3 4
ROOF ICE STOPPER

NOTES:
1. INSTALL THE HEATING CABLE IN A ZIG ZAG CONFIGURATION 610mm HEIGHT (HEIGHT DOES NOT INCLUDE GUTTER).
2. RUN HEATING CABLE TO THE BOTTOM OF THE GUTTER WITHOUT CUTTING THE CABLE.
3. RUN AN ADDITIONAL HEATING CABLE ALONG THE BOTTOM OF THE GUTTER AND ATTACH TO THE ROOF HEATING CABLE.
4. HEATING CABLE SHALL BE ATTACHED TO THE ROOF, GUTTER AND TO THE ROOF ICE STOPPER. REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION DETAILS.
5. OVERHEAD SNOW SENSOR NOT SHOWN. INSTALL AS PER MANUFACTURE RECOMMENDATION.

2 MAIN ENTRANCE DE-ICING SYSTEM

516

SCALE: 1 : 100


1
2
3
4
E
F
G
LOOP HEATING CABLE AROUND THE DRAIN AND RUN THROUGH THE ENTIRE PIPE LENGTH
1 2

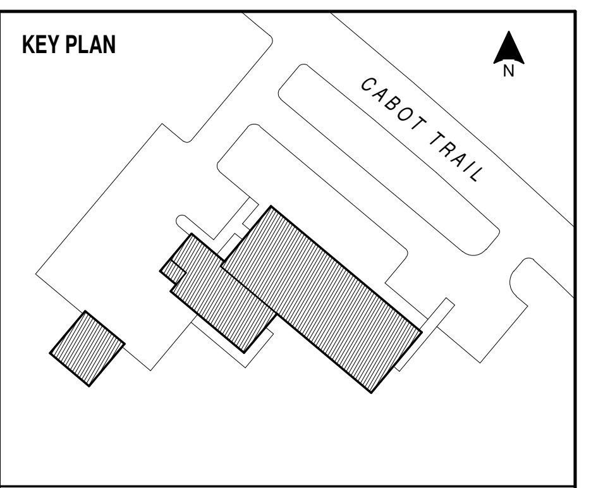
NOTES:
1. PROVIDE A CONTINUOUS SINGLE RUN OF HEATING CABLE. LOOP BACK THE END SEAL A MINIMUM 300mm AT THE END OF THE PIPE.
2. INSTALL DE-ICING SENSOR INSIDE THE DRAIN. PROVIDE ALL NECESSARY ATTACHMENTS.

3 ROOF DRAIN DE-ICING SYSTEM

516

SCALE: 1 : 100

KEY PLAN


N
CABOT TRAIL

SNC•LAVALIN
SNC•LAVALIN Inc.
Halifax, Nova Scotia, Canada
ISO 9001
Member of the SNC-LAVALIN Group

NOTES

1. SEE DRAWING 522 FOR DIAGRAMS.
2. CABLE LENGTH SPECIFIED INCLUDES ONLY HEATED LENGTH AND NOT THE COLD LEAD LENGTH.
3. ALLOW FOR 25% EXTRA CABLE LENGTH. EXACT LENGTH TO BE SIZED DURING SHOP DRAWING REVIEWS.
4. MINIMUM CONCRETE COVERAGE FOR HEATING CABLE EMBEDDED IN CONCRETE SHALL BE 50mm.
5. IN-FLOOR ELECTRIC HEAT CABLE IS TO BE TIED TO THE TOP OF THE REINFORCING STEEL MAT. REFER TO AND COORDINATE WITH STRUCTURAL CONTRACTOR FOR PLACEMENT AND PROXIMITY OF MATERIALS.
6. CABLE ROUTING SHOWN IS FOR INFORMATION ONLY. EXACT NUMBER OF LOOPS AND BENDS SHALL BE AS PER MANUFACTURES RECOMMENDATIONS.
7. ROUTE FEEDER FOR ELECTRIC RADIANT HEATING FOR ROOMS 206, 208, 209 AND 210 THROUGH UNDERGROUND CONDUIT. REFER TO CONDUIT SCHEDULE (REFERENCE 10) ON DRAWING 502.
8. EACH RADIANT HEAT CABLE LOOP IN ROOM 113 HAS A CAPACITY OF 1200W, CABLE LENGTH OF 103.6m AND A SPACING OF 0.145m.
9. CLEARANCE BETWEEN RADIANT HEAT CABLE AND FLOOR BOX IN ROOM 102 TO BE AS PER MANUFACTURERS SPECIFICATIONS.

NO.	REVISION	DATE
C02	ISSUED FOR TENDER	18 JUL 2014

STAMP

DATE 18 JULY 2014
Hamdi B
H. M. Battikh
9961

INGONISH CIVIC BUILDING

INGONISH, NS

DSRA JOB #: 12169
DRAWN BY: STAFF
CHECKED BY: H.B. / J.L.
SCALE: 1 : 100

ELECTRIC RADIANT HEATING AND DE-ICING SYSTEM

516

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