

ELECTRICAL SITE PLAN
1:500
NORTH

DRAWING NOTES:

- 1 PROVIDE (1) 27mm RIGID PVC CONDUIT FROM WOOD POST, 914mm BELOW GRADE TO THE MODULAR VENTILATED SPACE AND STUB UP INSIDE VENTILATED SPACE. TRANSITION TO EMT BELOW FLOOR AND CONNECT TO EMT CONDUIT STUBBING DOWN FROM MODULAR UNIT. PROVIDE PULL TWINE AND CAP CONDUIT AT EACH END. RUN CONDUIT LOCATED AT POST SO THAT IT TERMINATES AT TOP OF POST PROVIDE LARGE RADIUS BENDS TO ALLOW FOR EASE OF CABLE INSTALLATION. POST PROVIDED BY OTHERS.
- 2 PROVIDE SIX CONDUCTOR TECK 90 HL RATED CABLE FROM ELECTRICAL PANEL THROUGH VENTILATED SPACE BELOW MAIN ELECTRICAL ROOM TO FUEL STORAGE COMPOUND PUMP CONTROLLER/ FUEL LEAK SENSOR AND STUB UP AT PUMP LOCATION. TERMINATE CONDUCTORS ON PUMP CONTROLLER AND MAKE FINAL CONNECTION TO PUMP. USE TWO CONDUCTORS FOR LEAK SENSOR ALARM CONNECTION TO SIGNAL DEVICES LOCATED IN ROOM 112. REFER TO FUEL STORAGE DETAIL AND MOTOR SCHEDULE FOR CONDUCTOR SIZES. REFER TO E3.1 FOR ALARM SIGNAL LOCATIONS AND NOTES. CIRCUIT EA1.
- 3 MOUNT RECEPTACLE IN WEATHER PROOF PVC BOX C/W "WHILE IN USE" COVER ON ENCLOSURE FENCE POST UP 900mm A.F.G. RUN RWU90 TECK CABLE ON TOP FENCE RAIL TO BUILDING AND DROP DOWN AND STUB INTO VENTILATED SPACE.
- 4 PROVIDE 50mm FRE CONDUIT C/W PULL TWINE FROM ROOM 150 THROUGH VENTILATED SPACE TO TERMINATION PEDESTAL, RUN IN SHARED TRENCH WITH WATER AND SEWER LINES. PLACE CONDUIT TIGHT TO SIDE OF TRENCH ABOVE WATER LINES 914mm BELOW GRADE OR AS DEEP AS POSSIBLE. REFER TO TELEPHONE COMMUNICATIONS DETAILS, SPECIFICATIONS AND DRAWING E7.1.
- 5 PROVIDE 41mm FRE CONDUIT C/W PULL TWINE FROM TERMINATION PEDESTAL TO THE VENTILATED SPACE OF EACH HOUSING UNIT. REFER TO HOUSING UNIT NOTES. RUN 914mm BELOW FINISHED GRADE IN SHARED TRENCH. REFER TO TELEPHONE COMMUNICATIONS DETAILS AND SPECIFICATIONS.
- 6 PROVIDE AN 600 AMP SERVICE RATED EXTERIOR SPLITTER MOUNTED TO BUILDING FOR INCOMING SASKPOWER SERVICE CONDUCTORS. REFER TO DRAWING E5.1 FOR CONDUIT STUBS AND SECONDARY CONDUCTOR SIZES.
- 7 PROVIDE (2) #10 TECK90 & 10 BOND FROM LIGHTING PANEL TO EACH LIGHT POST. RUN 914mm BELOW FINISHED GRADE.
- 8 EMERGENCY GENERATOR. REFER TO SPECIFICATIONS AND DISTRIBUTION DRAWING E5.1 FOR CONDUIT AND FEEDER SIZES.
- 9 PROVIDE PEDESTAL FOR SASKTEL CABLE TERMINATIONS C/W 19mm PLYWOOD BACKBOARD INSIDE AND BIX BLOCK FOR CABLE TERMINATIONS. PEDESTAL SHALL HAVE LOCKING ACCESS DOOR, GALVANIZED STEEL CONSTRUCTION, GRADE LEVEL MARKED ON PEDESTAL, SEAFOAM GREEN POWDER COAT FINISH, GROUND TERMINATION BAR, GROUND STAKES AND MOUNTING HARDWARE. MANUFACTURER: VALID MANUFACTURING LTD #AJP-0820 (1066mm x 457mm x 305mm). OR APPROVED EQUAL. SHARE TRENCH WITH SITE LIGHTING CIRCUIT.
- 10 PROVIDE WEATHERPROOF MUSHROOM TYPE EMERGENCY STOP BUTTON "RED" MOUNTED TO A 305mm X 305mm ALUMINUM PLATE MOUNTED ON EXTERIOR OF FENCE. PROVIDE ONE NORMALLY OPEN AND ONE NORMALLY CLOSED 120 VOLT CONTACTOR IN ROOM 114 FOR SHUT DOWN OF FUEL PUMP CONTROLLER. LABEL BUTTON "EMERGENCY STOP". (LETTERING SHALL BE RED 75mm HIGH ON LAMICOID). MOUNT BUTTON UP 1200mm A.F.G. BUTTON SHALL BE AN STI SS-2252PS RED KEYPED RESET C/W COMPATIBLE CLEAR ACCESSIBLE POLYCARBONATE COVER. REFER TO DRAWING E5.4.

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES PRIOR TO TRENCHING OR BORING FOR NEW UNDERGROUND FEEDERS.
- 2. ALL UNDERGROUND FEEDERS SHALL BE A MINIMUM OF 914mm BELOW FINISHED GRADE OR TOP OF BEDROCK. INSTALL CONDUITS IN COMMON TRENCH WHERE POSSIBLE. WHERE INSTALLED ON TOP OF BEDROCK, PROVIDE (RGS) RIGID GALVANIZED STEEL CONDUIT.
- 3. REFER TO TRENCH DETAIL ON DRAWING E7.1 FOR UNDERGROUND FEEDERS. COORDINATE WITH SASKPOWER FOR INCOMING SERVICE TRENCH REQUIREMENTS.
- 4. REFER TO DRAWING E3.1 FOR PARKING RECEPTACLE CIRCUITRY.
- 5. CONTRACTOR SHALL PROVIDE TRENCH AND BACKFILL FROM SASKPOWER SERVICE POLE TO NEW SASKPOWER SERVICE PEDESTALS AND TO MODULAR UNITS. PROVIDE TRENCH AND BACKFILL FROM SERVICE POLE TO PADMOUNT TRANSFORMER AND FROM TRANSFORMER TO THE EXTERIOR SPLITTER ON THE BUILDING. COORDINATE WITH SASKPOWER SERVICE DOCUMENTS AND SERVICE INSTALLATION REQUIREMENTS.

SYMBOL SCHEDULE

- EMERGENCY STOP, MUSHROOM TYPE, REFER TO DRAWING NOTES AND SPECIFICATIONS.
- JUNCTION BOX/OUTLET BOX.
- CEILING/WALL SURFACE MOUNTED INCANDESCENT OR HIGH INTENSITY DISCHARGE FIXTURE.
- RECESSED CEILING MOUNTED FIXTURE
- FLUORESCENT FIXTURE, SURFACE MOUNTED OR SUSPENDED.
- FLUORESCENT FIXTURE, RECESSED.
- FIXTURES SHOWN SHADED DESIGNATE UNIT IS CONNECTED TO EMERGENCY POWER DISTRIBUTION.
- ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED.
- MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. 'STP' DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.
- COPPER CLAD GROUND ROD 3045mm LONG X 20mm DIAMETER. CONNECTIONS SHALL BE THERMOWELD OR BURNDY HI-GRND. SUFFIX 'BP' INDICATES GROUNDING PLATE.
- MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
- MOLDED CASE TYPE CIRCUIT BREAKER, GROUND FAULT INTERRUPTER, 15 AMP UNLESS OTHERWISE NOTED.
- MOTOR DISCONNECT SWITCH, SUFFIX 'WP' INDICATES WEATHERPROOF.
- S.P.S.T. SWITCH MOUNTED UP 1200mm. SUFFIX INDICATE FIXTURE SWITCHING AND QUANTITY OF SWITCHES. E.G. S₁a INDICATES ONE S.P.S.T. SWITCH CONTROLLING FIXTURES WITH CORRESPONDING SUFFIX 'a'. S₂b:c INDICATES THREE S.P.S.T. SWITCHES, THE FIRST CONTROLLING FIXTURES SUFFIXED 'a', THE SECOND CONTROLLING FIXTURES SUFFIXED 'b', AND THE THIRD CONTROLLING FIXTURES SUFFIXED 'c'. SUFFIX 'f' FOR FAN CONTROL.
- THREE-WAY SWITCH MOUNTED UP 1200mm.
- 3-POSITION CELL LIGHT SWITCH. SWITCH MOUNTED UP 1200mm
- FOUR-WAY SWITCH MOUNTED UP 1200mm.
- KEY OPERATED SWITCH MOUNTED UP 1200mm UNLESS NOTED OTHERWISE. REFER E3.1 AND CCTV / RIOT ALARM SPECIFICATIONS.
- DIMMER SWITCH MOUNTED UP 1200mm, DIMMER SHALL BE SIZED ACCORDING TO LOAD AND SUITABLE FOR 'LED'.
- WALL OR CEILING MOUNTED OCCUPANCY/VACANCY SENSOR UP 1200mm AS DESCRIBED ON DRAWINGS AND SPECIFICATIONS.
- FIRE ALARM MANUAL PULL STATION MOUNTED UP 1350mm A.F.F.
- FIRE ALARM SIGNAL DEVICE (HORN/STROBE) SURFACE WALL MOUNTED UP 2290mm A.F.F.
- PHOTO-ELECTRIC TYPE DUCT SMOKE DETECTOR.
- FIRE ALARM CONTROL/RELAY MODULE
- FIRE ALARM MONITOR MODULE
- FIRE ALARM SYSTEM COMBINATION TYPE SMOKE DETECTOR CEILING MOUNTED.
- FIRE ALARM SYSTEM HEAT DETECTOR CEILING MOUNTED, COMBINATION 135 DEGREES FIXED TEMP/RATE OF RISE.
- EMERGENCY LIGHTING UNIT. SEE EMERGENCY LIGHTING SPECIFICATIONS FOR DETAILS.
- DUPLEX GROUNDED RECEPTACLE OUTLETS WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: 'a'- 250mm. ABOVE COUNTER; 'b'- UP 900mm.; 'f' FRIDGE RECEPTACLE UP 450mm; 'HK' 20A RECEPTACLE UP 450mm FOR HOUSE KEEPING; 'm' MICROWAVE RECEPTACLE UP 250mm ABOVE MICROWAVE SHELF. COORDINATE WITH ARCHITECTURE MILLWORK FOR EXACT LOCATION.
- DUPLEX GROUNDED RECEPTACLE C/W "WHILE IN USE" COVER MOUNTED UP 900mm. UNLESS NOTED OTHERWISE.
- DUPLEX GROUNDED RECEPTACLE, SPLIT WIRED, PROTECTED BY TWO POLE BREAKER AT PANEL. SEE DRAWINGS FOR MOUNTING HEIGHT.
- DUPLEX GROUNDED RECEPTACLE AND DATA/VOICE OUTLET AND A/V OUTLET MOUNTED IN COMBINATION RECESSED ADJUSTABLE FLUSH FLOOR BOX. NON-METALLIC ROUND BOX, UNIVERSAL CARPET FLANGE AND COVER ASSEMBLY, ALUMINUM FINISH, 8" DIAMETER. MANUFACTURER: HUBBELL S1PFB (BOX), S1CFCL (COVER) OR APPROVED EQUAL.
- DUPLEX GROUNDED RECEPTACLE, 20 AMP T-SLOT MOUNTED UP 450mm.
- DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450mm FED FROM EMERGENCY POWER SUPPLY. BODY OF RECEPTACLE SHALL BE IMPREGNATED "RED" COLOUR.
- DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE MOUNTED UP 450mm OR AS NOTED. SUFFIX 20A INDICATES A 20 AMP RECEPTACLE 5-20R.
- DATA/VOICE OUTLET MOUNTED UP 450 mm. 100 mm. SQUARE BOX C/W SINGLE GANG EXTENSION AND 27 mm CONDUIT. SUFFIX '1D' INDICATES ONE DATA JACK, '1V' INDICATES ONE VOICE JACK. CABLE TYPE SHALL BE TERMINATED AT THE DATA PATCH PANEL AND OUTLET BOX VOICE CABLE TYPE SHALL BE TERMINATED AT THE OUTLET BOX AND BIX BLOCK. NOT MORE THAN TWO WORK STATIONS PER 15 AMP CIRCUIT.
- POLE MOUNTED LUMINAIRE WITH ONE HEAD.
- SUFFIX 'D/V' INDICATES JUNCTION BOX FOR SYSTEMS FURNITURE UP 450mm, SUFFIX 'P' INDICATES POWER, SUFFIX 'EP' INDICATES JUNCTION BOX FED FROM EMERGENCY POWER.
- WEATHERPROOF 120 VOLT PHOTOCELL TO CONTROL EXTERIOR BUILDING LIGHTING. INTERMATIC 'K' SERIES OR APPROVED EQUAL.
- RECESSED SINGLE GANG BOX MOUNTED UP 900mm, FOR POWER DOOR OPERATOR.
- DRYER RECEPTACLE, 50 AMP, 125/250 VOLT, 4 WIRE GROUNDED RECEPTACLE C/W COVERPLATE. MOUNT UP 900 mm.

NOTE:
SUBSCRIPT 'CLG' DENOTES DEVICE IS CEILING MOUNTED.
SUBSCRIPT 'MP' DENOTES DEVICE IS MOISTURE PROOF AND COLD TEMPERATURE RATED.

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Project title/Titre du projet
NEW MODULAR POLICE BUILDING AND EMPLOYEE HOUSING BLACK LAKE, SASKATCHEWAN

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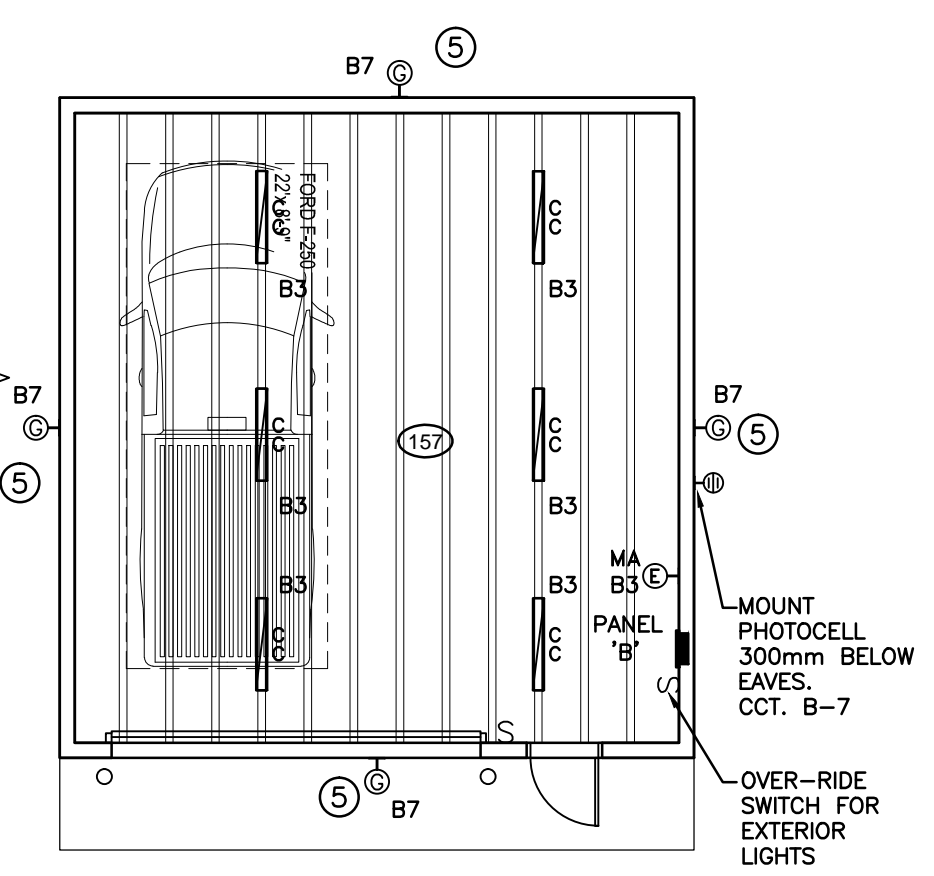
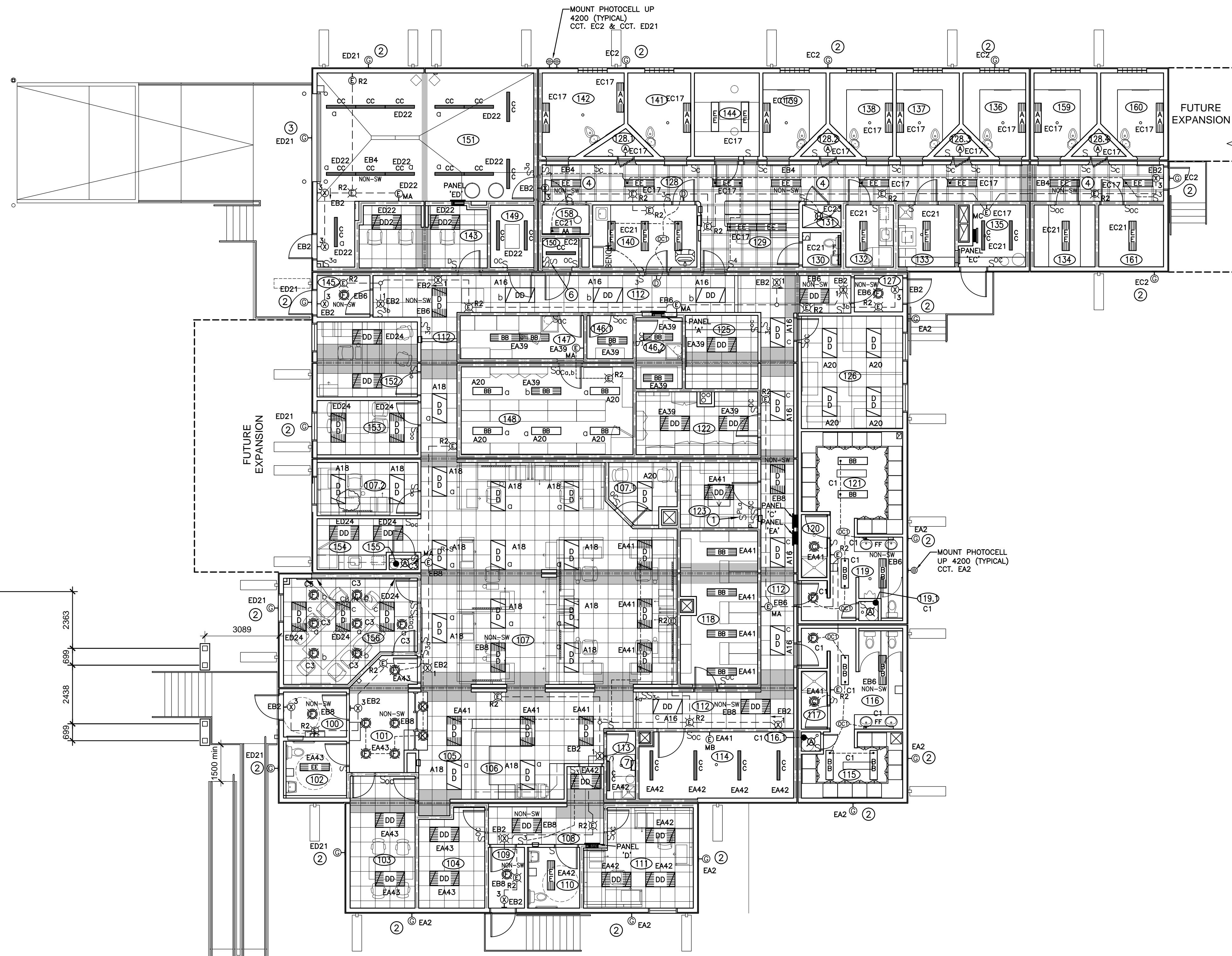
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Drawing title/Titre du dessin
ELECTRICAL SITE PLAN AND SYMBOL SCHEDULE

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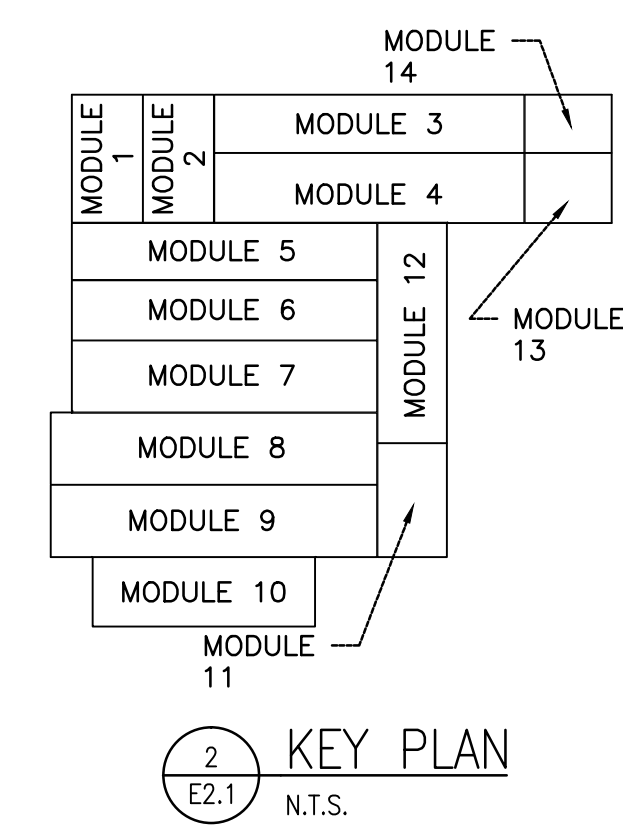


GENERAL NOTES:

1. CONTRACTOR SHALL ENSURE FIXTURES ARE NOT INSTALLED IN SHADED AREAS. REFER TO ARCHITECTURAL DETAILS FOR CONNECTION BETWEEN MODULAR UNITS.
2. THE MODULAR CONTRACTOR SHALL SECURE FIXTURES MOUNTED IN T-BAR CEILING TO ENSURE FIXTURES DO NOT SHIFT DURING SHIPPING OF MODULAR UNITS TO THE SITE.
3. FOR MODULAR UNITS THAT DO NOT HAVE AN ELECTRICAL PANEL, THE MODULAR CONTRACTOR SHALL RUN WIRING FROM THE CEILING SPACE STUBBED DOWN IN THE WALLS TO THE JUNCTION BOX BELOW THE FLOOR AND COIL ONE METER OF EXCESS WIRING IN THE JUNCTION BOX FOR THE ELECTRICAL CONTRACTOR ON SITE TO MAKE FINAL CONNECTIONS TO THE DISTRIBUTION PANELS. EACH CABLE RUN SHALL BE CLEARLY MARKED WITH THE CIRCUIT NUMBER AS INDICATED ON THE DRAWINGS.
4. THE MODULAR CONTRACTOR SHALL PROVIDE PULL BOXES IN THE ACCESSIBLE CEILING SPACE OF EACH ADJOINING MODULE FOR CONNECTION OF BRANCH CIRCUITRY BETWEEN UNITS. PROVIDE ONE METER OF EXCESS WIRING AT EACH JUNCTION BOX FOR FINAL CONNECTION ON SITE BY THE ELECTRICAL CONTRACTOR ON SITE. THE SITE CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES AND WIRING AS REQUIRED FOR FINAL CONNECTIONS OF BRANCH CIRCUITS BETWEEN MODULES.
5. THE MODULAR CONTRACTOR SHALL PROVIDE AND INSTALL WIRING AND DEVICES AS INDICATED ON THE PLANS AND SPECIFICATIONS. REFER TO SPECIFICATIONS.

MAIN FLOOR LIGHTING NOTES:

- 1 PROVIDE TWO SWITCHES FOR VENTILATED SPACE LIGHTING C/W PILOT LIGHT AND LAMECOID LABEL "VENTILATED SPACE LIGHTS". SUFFIX 'a' INDICATE SWITCHING FOR "NON-SWITCHED" FIXTURES.
- 2 MOUNT FIXTURES UP 2750mm ABOVE TOP OF FINISHED FLOOR. AND RUN WIRING TO THE JOIST SPACE AND PROVIDE ONE METER OF EXCESS WIRING FOR FINAL CONNECTION TO THE PANEL BY THE ELECTRICAL CONTRACTOR ON SITE.
- 3 MOUNT FIXTURES UP 300mm ABOVE TOP OF OVERHEAD DOOR AND RUN WIRING TO THE JOIST SPACE AND PROVIDE ONE METER OF EXCESS WIRING FOR FINAL CONNECTION TO THE PANEL BY THE ELECTRICAL CONTRACTOR ON SITE.
- 4 ALL EXIT SIGNS AND EMERGENCY BATTERY AND REMOTE HEADS LOCATED IN ROOM 128 SHALL BE MOUNTED AS HIGH AS POSSIBLE.
- 5 MOUNT FIXTURE UP 2700mm ABOVE FINISHED FLOOR/SLAB.
- 6 PROVIDE OVER-RIDE SWITCH FOR EXTERIOR BUILDING LIGHTS. REFER TO PANEL SCHEMATICS FOR WIRING DETAIL, DRAWING E5.4.
- 7 MOUNT FIXTURE 150mm ABOVE DOOR HEADER.



1 LIGHTING PLAN
E2.1 1:100

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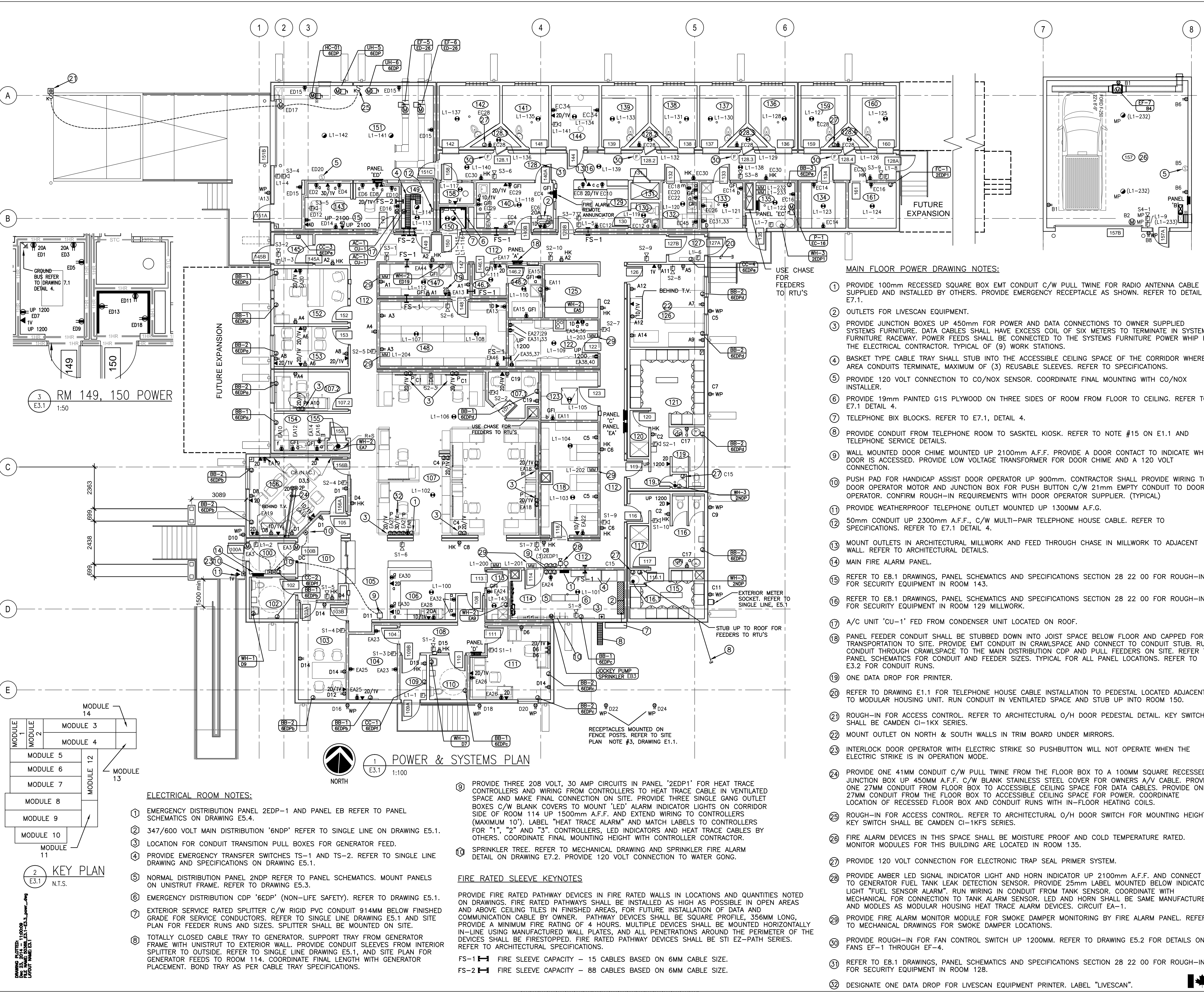
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MAIN FLOOR LIGHTING PLAN

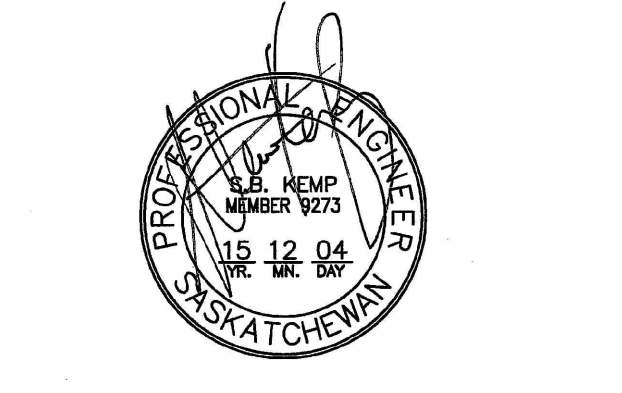
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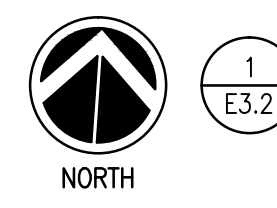
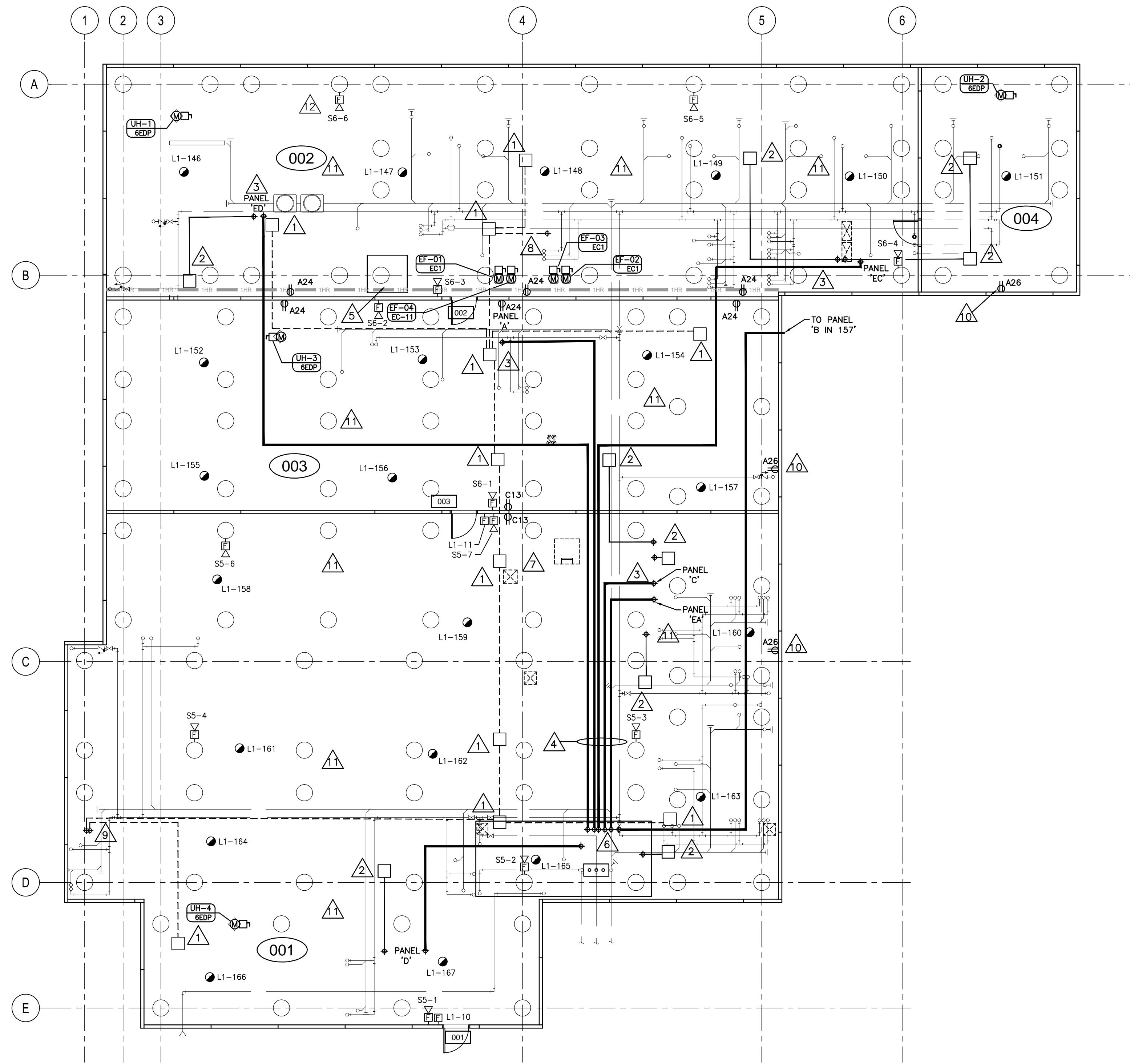
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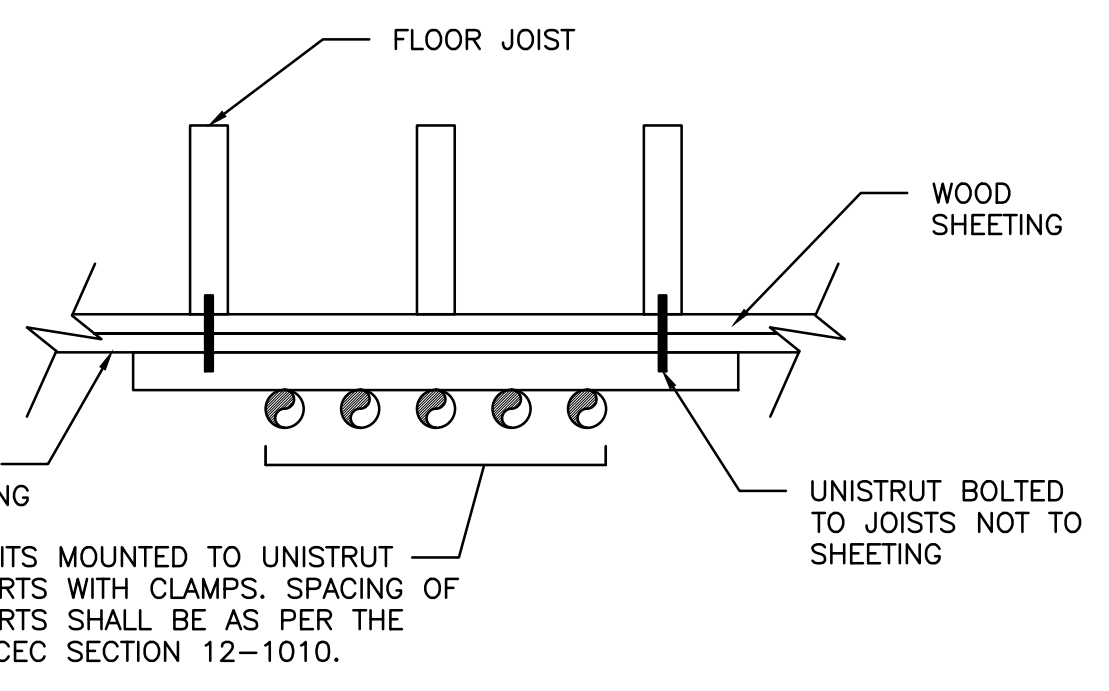
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MAIN FLOOR POWER & SYSTEM PLAN

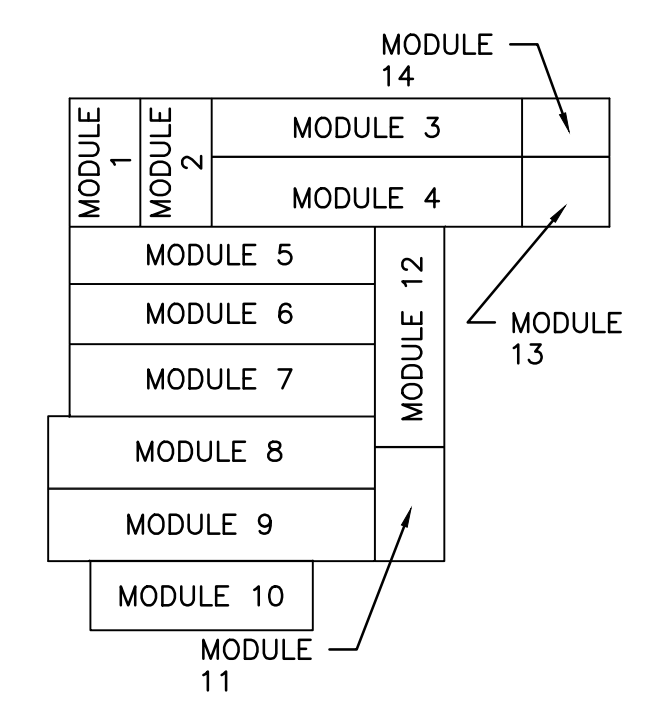
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S-03-2014	E3.1	



1 ELECTRICAL/PLUMBING COORDINATION PLAN
E3.2
1:100



2 MAIN CONDUIT RUN DETAIL
E3.2
N.T.S.



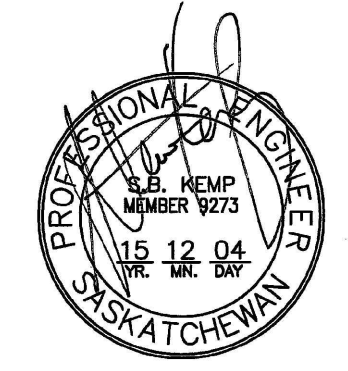
3 KEY PLAN
E3.2
N.T.S.

GENERAL NOTES:

- COORDINATE ALL CONDUIT RUNS WITH MECHANICAL DUCTWORK AND PIPING.
- ALL MAIN CONDUIT RUNS SHALL BE SUPPORTED FROM THE STRUCTURAL JOISTS ON A UNISTRUT RACK FASTENED TO THE JOISTS. COORDINATE WITH STRUCTURAL DRAWINGS FOR JOIST LOCATIONS. REFER TO RACK DETAIL AND SPECIFICATIONS FOR SPACING OF SUPPORTS.
- COORDINATE FINAL LOCATIONS OF FIRE ALARM DEVICES WITH MECHANICAL DUCTWORK AND PIPING.
- ALL FIXTURES AND DEVICES SHALL BE INSTALLED AFTER METAL SHEETING IS INSTALLED ON THE UNDERSIDE OF THE FLOOR JOISTS. ALL PENETRATIONS SHALL HAVE FIRE STOPPING PROVIDED.
- RUN FEEDERS FOR ROOF TOP UNITS TO DUCT RISER SHAFT AND RISE UP TO CEILING SPACE. RUN THROUGH CEILING TO ROOF TOP UNIT AND STUB UP INSIDE ROOF CURB. REFER TO POWER PLAN FOR RISER LOCATIONS AND SINGLE LINE DRAWING FOR FEEDER SIZES.

VENTILATED SPACE NOTES:

- 305MM X 305MM PULL BOX (MINIMUM OR SIZED AS PER 2012 CANADIAN ELECTRICAL CODE) MOUNTED TO THE UNDERSIDE OF MODULAR UNIT, BETWEEN FLOOR JOISTS FOR FIRE ALARM CONDUIT TERMINATIONS. PROVIDE CONDUIT RUNS FOR EACH FIRE ALARM DEVICE AND TERMINATE IN PULL BOX. PROVIDE CONDUIT IN CRAWLSPACE BETWEEN EACH PULL BOX BACK TO THE MAIN FIRE ALARM PANEL. FIRE ALARM WIRING SHALL BE INSTALLED ON SITE. THERE SHALL BE NO SPLICING OF FIRE ALARM CABLES. JUNCTION BOXES IN THE VENTILATED SPACE SHALL BE ACCESSIBLE FOLLOWING THE METAL SHEETING INSTALLATION BY PROVIDING ACCESS PANELS IN THE SHEETING.
- 457MM X 457MM PULL BOX (MINIMUM OR SIZED AS PER 2012 CANADIAN ELECTRICAL CODE) MOUNTED TO THE UNDERSIDE OF MODULAR UNIT, BETWEEN FLOOR JOISTS FOR BRANCH CIRCUITRY TERMINATIONS. PROVIDE CONDUIT IN VENTILATED FROM EACH PULL BOX TO THE PANEL LOCATION SIZED TO SUIT BRANCH CIRCUITS FROM EACH MODULE. JUNCTION BOXES IN THE VENTILATED SPACE SHALL BE ACCESSIBLE FOLLOWING THE METAL SHEETING INSTALLATION BY PROVIDING ACCESS PANELS IN THE SHEETING.
- LOCATION OF PANEL FEEDER CONDUITS STUBBED DOWN INTO JOIST SPACE BELOW FLOOR. REFER TO PANEL SCHEMATICS FOR CONDUIT AND FEEDER SIZES. DRAWING E5.2 & E5.3.
- PROVIDE EMT CONDUIT IN CRAWLSPACE AND CONNECT TO CONDUIT STUB FOR NOTE #3. RUN CONDUIT THROUGH VENTILATED SPACE TO THE MAIN DISTRIBUTION CDP AND PULL FEEDERS ON SITE. REFER TO PANEL SCHEMATICS FOR CONDUIT AND FEEDER SIZES. TYPICAL FOR ALL PANEL LOCATIONS. ALL CONDUITS SHALL BE MOUNTED TO UNISTRUT RACK FASTENED TO UNDERSIDE OF FLOOR JOISTS. CONDUITS SHALL NOT BE MOUNTED TO THE UNDERSIDE OF THE FLOOR DECK. REFER TO DETAIL 2, DRAWING E3.2.
- ROOM 150 ABOVE. STUB CONDUIT OUT TO EXTERIOR FOR SASKTEL INCOMING SERVICE CABLES. REFER TO SITE PLAN FOR CONDUIT SIZES.
- ROOM 114 ABOVE. STUB OUT CONDUITS FOR INCOMING MAIN SERVICE CONDUCTORS.
- BRANCH CIRCUITRY FEEDERS SHALL BE INSTALLED IN FACTORY. LIGHT FIXTURES SHALL BE INSTALLED ON SITE. COORDINATE LOCATION OF LIGHTING FIXTURES WITH MECHANICAL DUCTS AND BEAMS. CONDUITS SHALL RUN TIGHT TO THE UNDERSIDE OF BEAMS. CONNECT AREA 001 LIGHTING TO SWITCH IN ROOM 123 ADJACENT TO ACCESS HATCH.
- STUB UP TO REMOTE FIRE ALARM ANNUNCIATOR PANEL.
- STUB UP TO MAIN FIRE ALARM PANEL.
- PROVIDE RECEPTACLE FOR FUTURE SOIL GAS EXHAUST SYSTEM. MOUNT ON WALL 300MM BELOW FLOOR STRUCTURE.
- PROVIDE #6 BARE CU. BOND TO METAL SHEETING ON UNDERSIDE OF JOISTS IN VENTILATED SPACE. PROVIDE CONNECTIONS EVERY 15 METERS IN A GRID PATTERN.
- MOUNT HORN STROBE SO TOP OF STROBE IS LOWER THAN THE BOTTOM OF THE MECHANICAL DUCTS FOR OPTIMUM VISIBILITY. (TYPICAL)



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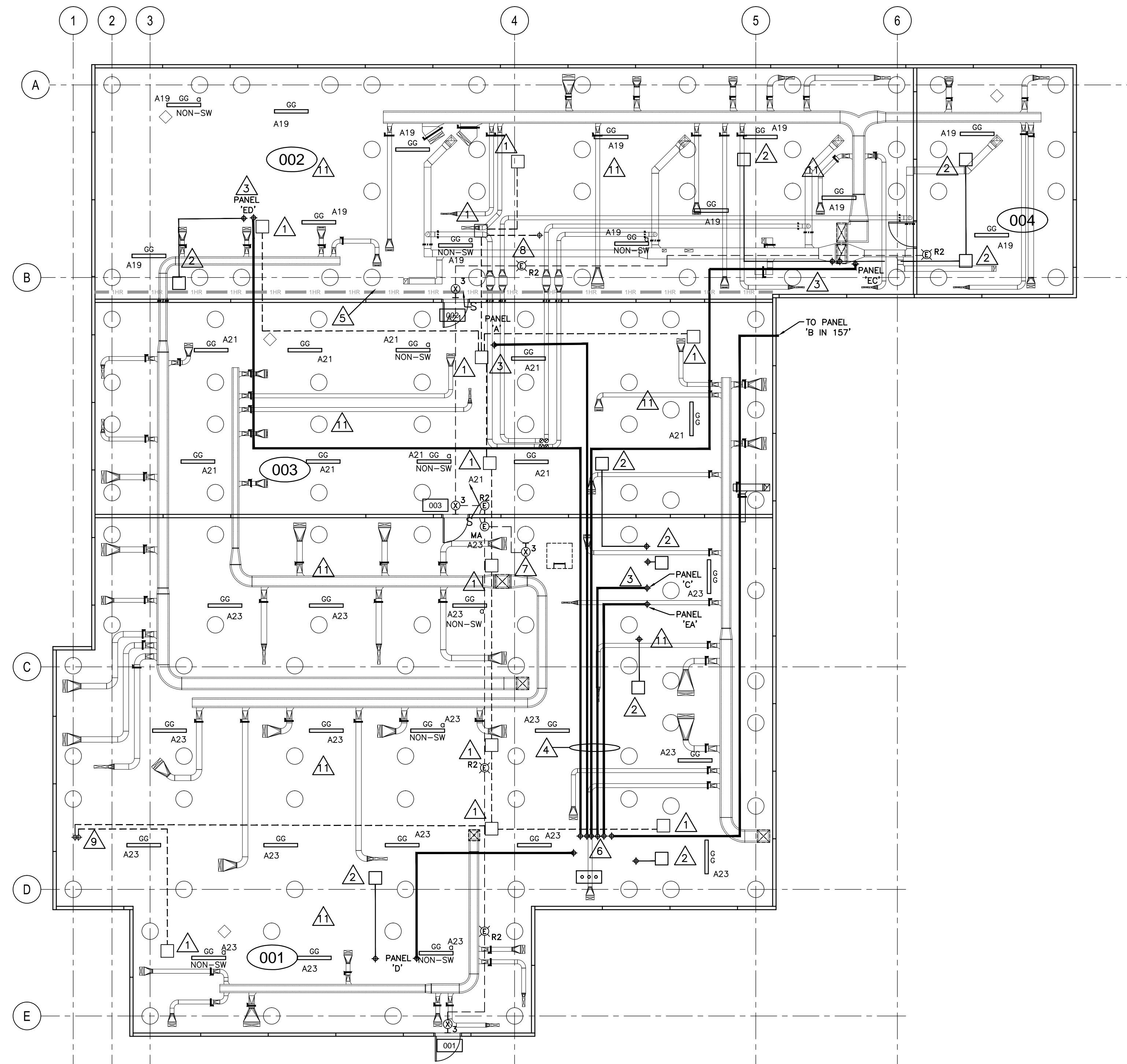
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ELECTRICAL CONDUIT LAYOUT AND EQUIPMENT CONNECTIONS

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PROJECT MANAGER: J. COOPER
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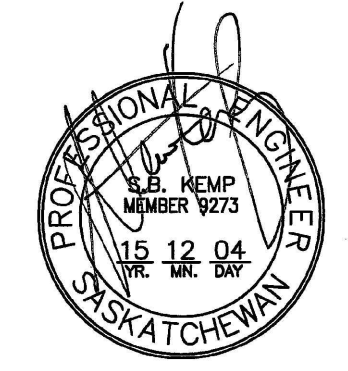
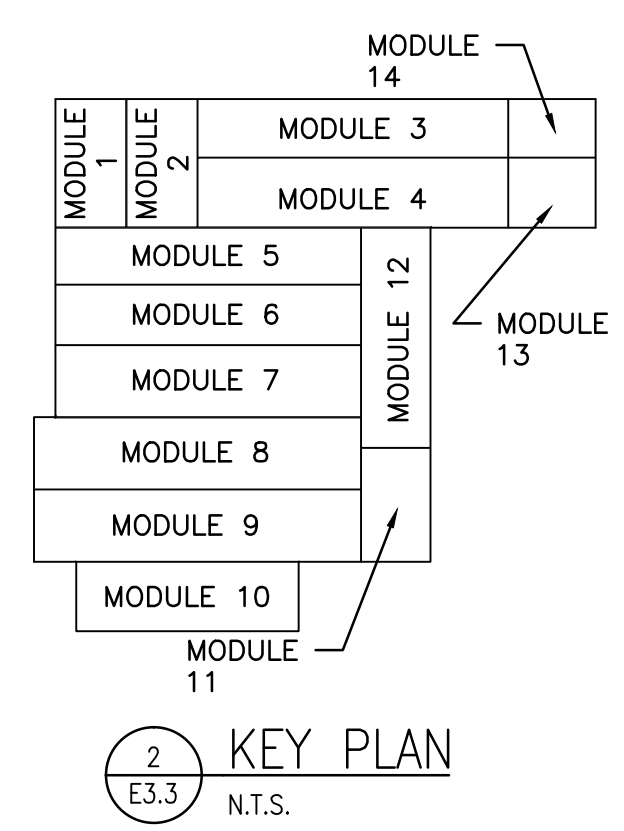
2
E3.3
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NORTH
LIGHTING/HVAC COORDINATION PLAN

GENERAL NOTES:

- COORDINATE ALL CONDUIT RUNS WITH MECHANICAL DUCTWORK AND PIPING.
- ALL MAIN CONDUIT RUNS SHALL BE SUPPORTED FROM THE STRUCTURAL JOISTS ON A UNISTRUT RACK FASTENED TO THE JOISTS. COORDINATE WITH STRUCTURAL DRAWINGS FOR JOIST LOCATIONS. REFER TO RACK DETAIL AND SPECIFICATIONS FOR SPACING OF SUPPORTS.
- COORDINATE FINAL LOCATIONS OF FIRE ALARM DEVICES WITH MECHANICAL DUCTWORK AND PIPING.
- ALL FIXTURES AND DEVICES SHALL BE INSTALLED AFTER METAL SHEETING IS INSTALLED ON THE UNDERSIDE OF THE FLOOR JOISTS. ALL PENETRATIONS SHALL HAVE FIRE STOPPING PROVIDED.
- RUN FEEDERS FOR ROOF TOP UNITS TO DUCT RISER SHAFT AND RISE UP TO CEILING SPACE. RUN THROUGH CEILING TO ROOF TOP UNIT AND STUB UP INSIDE ROOF CURB. REFER TO POWER PLAN FOR RISER LOCATIONS AND SINGLE LINE DRAWING FOR FEEDER SIZES.

VENTILATED SPACE NOTES:

- 305MM X 305MM PULL BOX (MINIMUM OR SIZED AS PER 2012 CANADIAN ELECTRICAL CODE) MOUNTED TO THE UNDERSIDE OF MODULAR UNIT, BETWEEN FLOOR JOISTS FOR FIRE ALARM CONDUIT TERMINATIONS. PROVIDE CONDUIT RUNS FOR EACH FIRE ALARM DEVICE AND TERMINATE IN PULL BOX. PROVIDE CONDUIT IN CRAWLSPACE BETWEEN EACH PULL BOX BACK TO THE MAIN FIRE ALARM PANEL. FIRE ALARM WIRING SHALL BE INSTALLED ON SITE. THERE SHALL BE NO SPLICING OF FIRE ALARM CABLES. JUNCTION BOXES IN THE VENTILATED SPACE SHALL BE ACCESSIBLE FOLLOWING THE METAL SHEETING INSTALLATION BY PROVIDING ACCESS PANELS IN THE SHEETING.
- 457MM X 457MM PULL BOX (MINIMUM OR SIZED AS PER 2012 CANADIAN ELECTRICAL CODE) MOUNTED TO THE UNDERSIDE OF MODULAR UNIT, BETWEEN FLOOR JOISTS FOR BRANCH CIRCUITRY TERMINATIONS. PROVIDE CONDUIT IN VENTILATED FROM EACH PULL BOX TO THE PANEL LOCATION SIZED TO SUIT BRANCH CIRCUITS FROM EACH MODULE. JUNCTION BOXES IN THE VENTILATED SPACE SHALL BE ACCESSIBLE FOLLOWING THE METAL SHEETING INSTALLATION BY PROVIDING ACCESS PANELS IN THE SHEETING.
- LOCATION OF PANEL FEEDER CONDUITS STUBBED DOWN INTO JOIST SPACE BELOW FLOOR. REFER TO PANEL SCHEMATICS FOR CONDUIT AND FEEDER SIZES. DRAWING E5.2 & E5.3.
- PROVIDE EMT CONDUIT IN CRAWLSPACE AND CONNECT TO CONDUIT STUB FOR NOTE #3. RUN CONDUIT THROUGH VENTILATED SPACE TO THE MAIN DISTRIBUTION CDP AND PULL FEEDERS ON SITE. REFER TO PANEL SCHEMATICS FOR CONDUIT AND FEEDER SIZES. TYPICAL FOR ALL PANEL LOCATIONS. ALL CONDUITS SHALL BE MOUNTED TO UNISTRUT RACK FASTENED TO UNDERSIDE OF FLOOR JOISTS. CONDUITS SHALL NOT BE MOUNTED TO THE UNDERSIDE OF THE FLOOR DECK. REFER TO DETAIL 2, DRAWING E3.2.
- ROOM 150 ABOVE. STUB CONDUIT OUT TO EXTERIOR FOR SASKTEL INCOMING SERVICE CABLES. REFER TO SITE PLAN FOR CONDUIT SIZES.
- ROOM 114 ABOVE. STUB OUT CONDUITS FOR INCOMING MAIN SERVICE CONDUCTORS.
- BRANCH CIRCUITRY FEEDERS SHALL BE INSTALLED IN FACTORY. LIGHT FIXTURES SHALL BE INSTALLED ON SITE. COORDINATE LOCATION OF LIGHTING FIXTURES WITH MECHANICAL DUCTS AND BEAMS. CONDUITS SHALL RUN TIGHT TO THE UNDERSIDE OF BEAMS. CONNECT AREA 001 LIGHTING TO SWITCH IN ROOM 123 ADJACENT TO ACCESS HATCH.
- STUB UP TO REMOTE FIRE ALARM ANNUNCIATOR PANEL.
- STUB UP TO MAIN FIRE ALARM PANEL.
- PROVIDE RECEPTACLE FOR FUTURE SOIL GAS EXHAUST SYSTEM. MOUNT ON WALL 300mm BELOW FLOOR STRUCTURE.
- PROVIDE #6 BARE CU. BOND TO METAL SHEETING ON UNDERSIDE OF JOISTS IN VENTILATED SPACE. PROVIDE CONNECTIONS EVERY 15 METERS IN A GRID PATTERN.
- MOUNT HORN STROBE SO TOP OF STROBE IS LOWER THAN THE BOTTOM OF THE MECHANICAL DUCTS FOR OPTIMUM VISIBILITY. (TYPICAL)



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Project title/Titre du projet
NEW MODULAR POLICE BUILDING AND EMPLOYEE HOUSING BLACK LAKE, SASKATCHEWAN

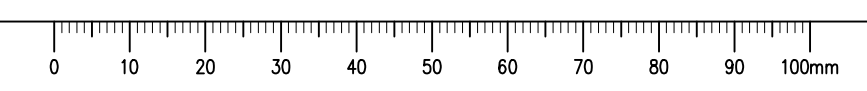
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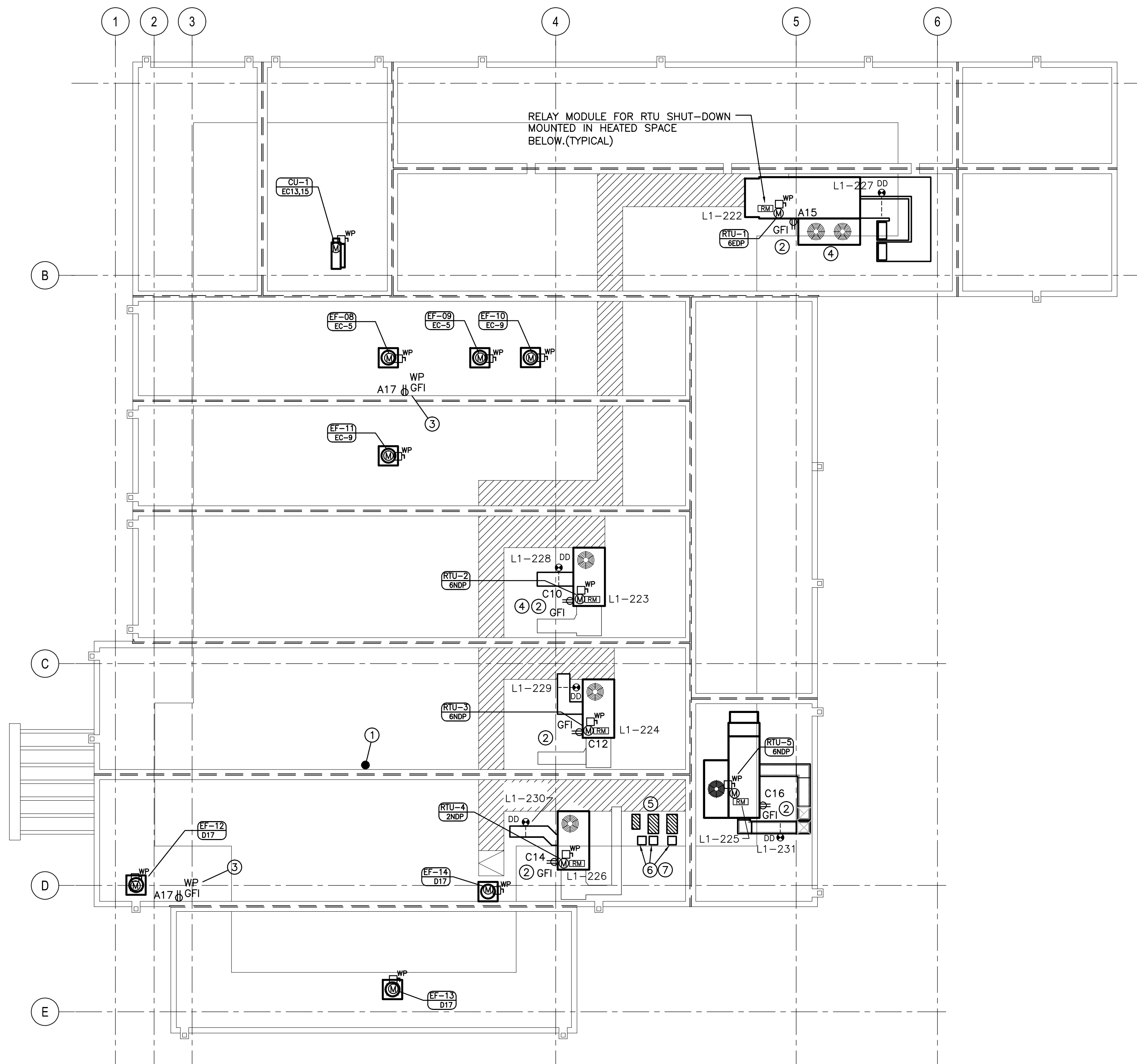
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ELECTRICAL CONDUIT LAYOUT AND EQUIPMENT CONNECTIONS

Project No./No. du projet S-03-2014	Sheet/Fauille E3.3	Revision no./La Revision no.
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DRAWING AUTHOR: L. COOPER
FILE NAME: S-03-2014-E3.3.dwg
LAYOUT NAME: E3.3





- DRAWING NOTES:**
- ① RADIO ANTENNA LOCATION. REFER TO DRAWING E7.1, DETAIL 2 AND DRAWING E3.1, NOTE 1.
 - ② RECEPTACLES ARE INSTALLED AS PART OF THE MECHANICAL EQUIPMENT. ELECTRICAL SHALL PROVIDE A SEPARATE CIRCUIT C/W GFI BREAKER NOT FED FROM UNIT. RUN WIRING UP TO UNIT INSIDE ROOF CURB.
 - ③ MOUNT RECEPTACLE ON BACK SIDE OF PARAPET AS HIGH AS POSSIBLE TO BOTTOM EDGE OF FLASHING.
 - ④ RUN FEEDERS FOR ROOF TOP UNITS UP FROM VENTILATED SPACE THROUGH MECHANICAL CHASE AS SHOWN ON POWER PLAN.
 - ⑤ DISTRIBUTION TRANSFORMERS MOUNTED ON CONCRETE PADS. RUN FEEDERS THROUGH ROOF CURB INTO ROOM 114 BELOW. REFER TO SINGLE LINE DRAWING FOR FEEDER AND CONDUIT SIZES.
 - ⑥ REFER TO ARCHITECTURAL DETAILS FOR ROOF CURB FOR ACCESS TO ELECTRICAL ROOM BELOW.
 - ⑦ ENSURE ALL ROOF PENETRATIONS ARE SEALED WITH APPROVED WATER TIGHT SEALANT.

ELECTRICAL ROOF PLAN
1 E4.1 1:100

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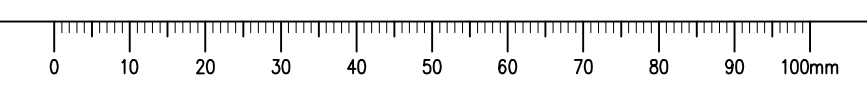
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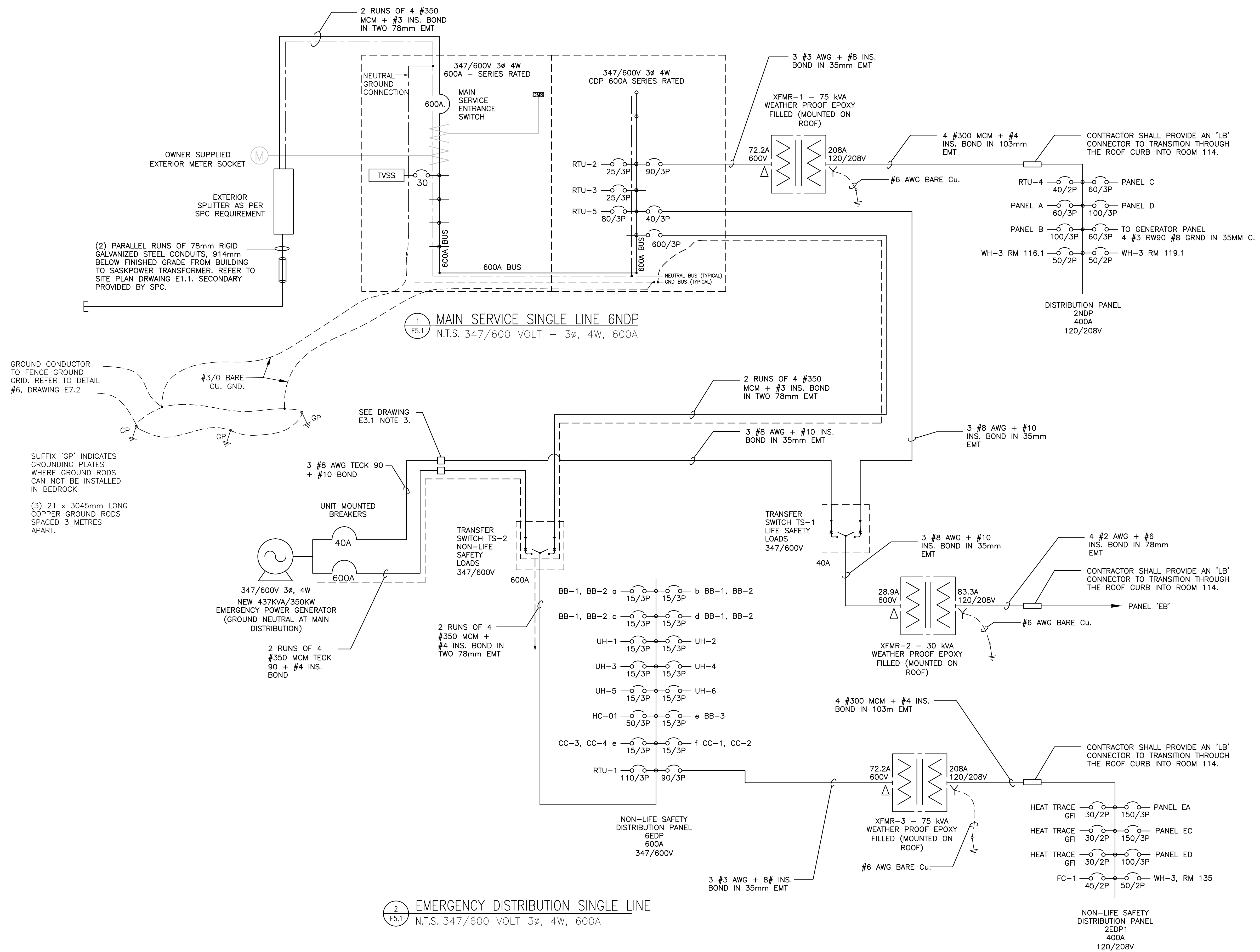
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ELECTRICAL POWER & SYSTEMS ROOF PLAN

Project No./No. du projet S-03-2014	Sheet/Fauille E4.1	Revision no./La Revision no.
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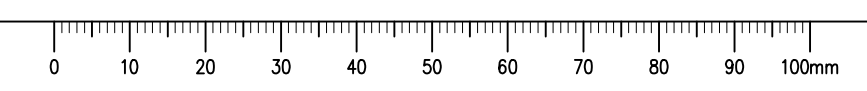
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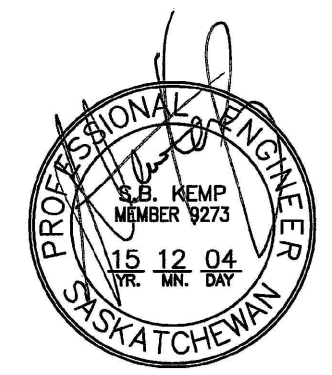
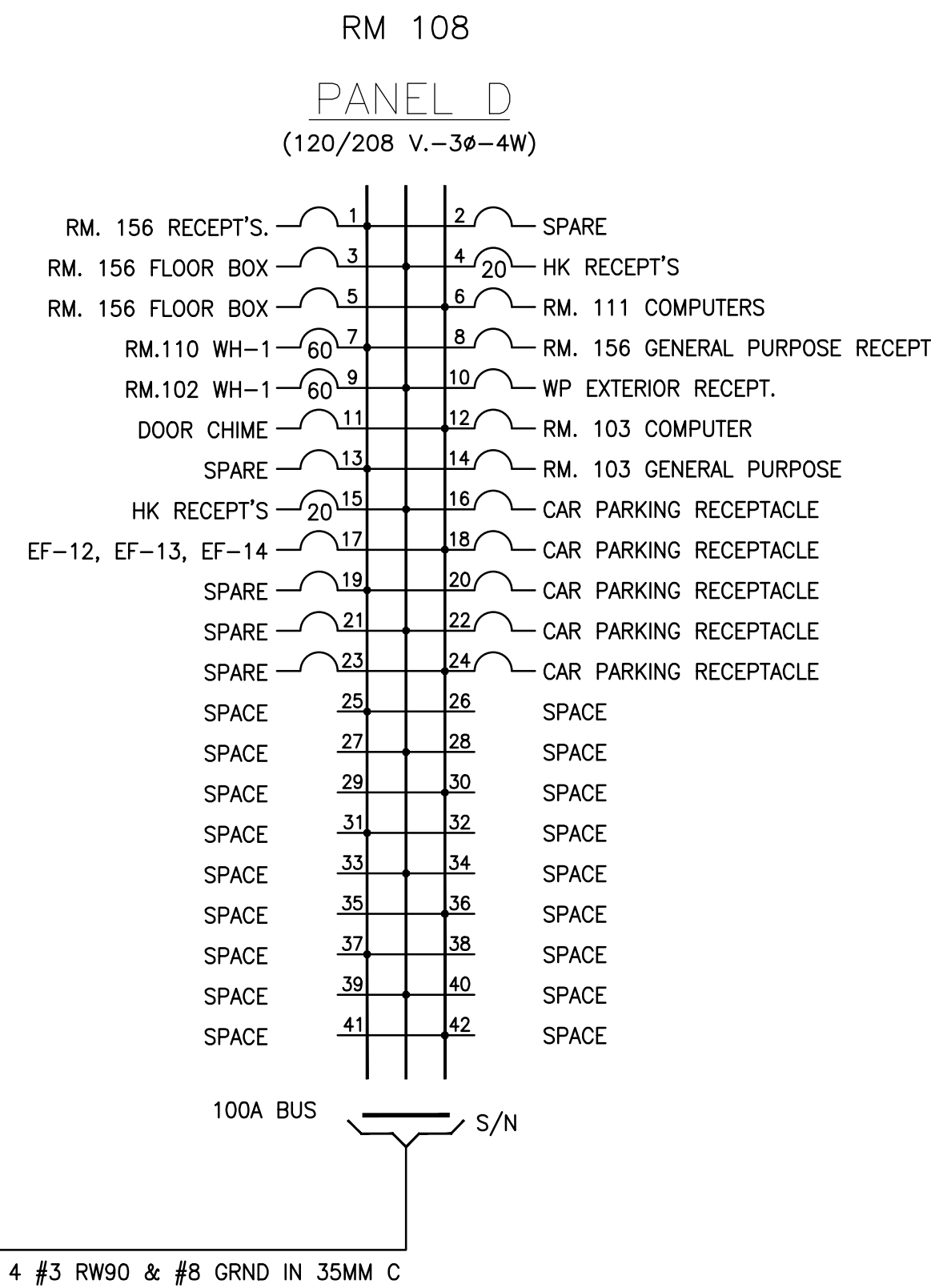
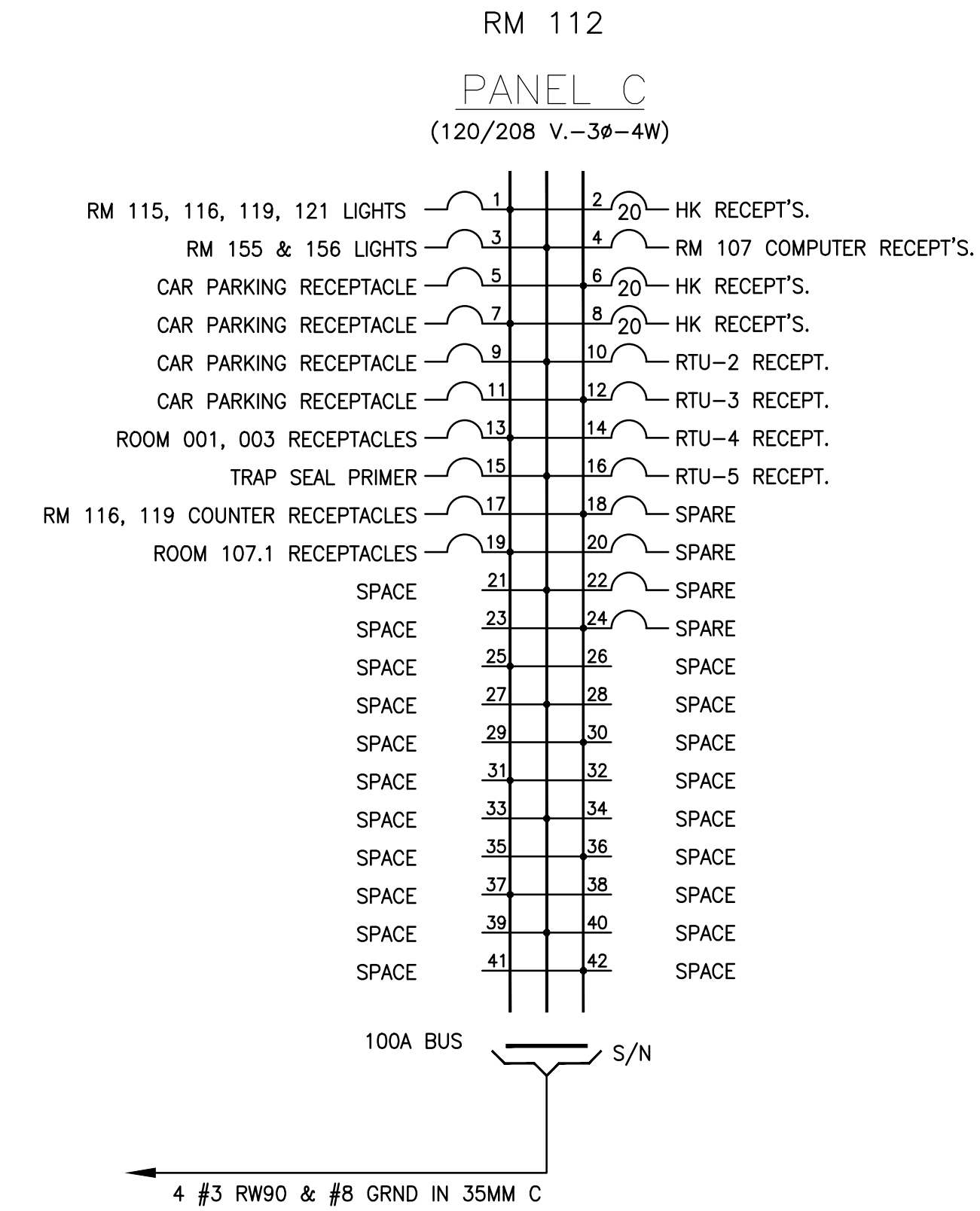
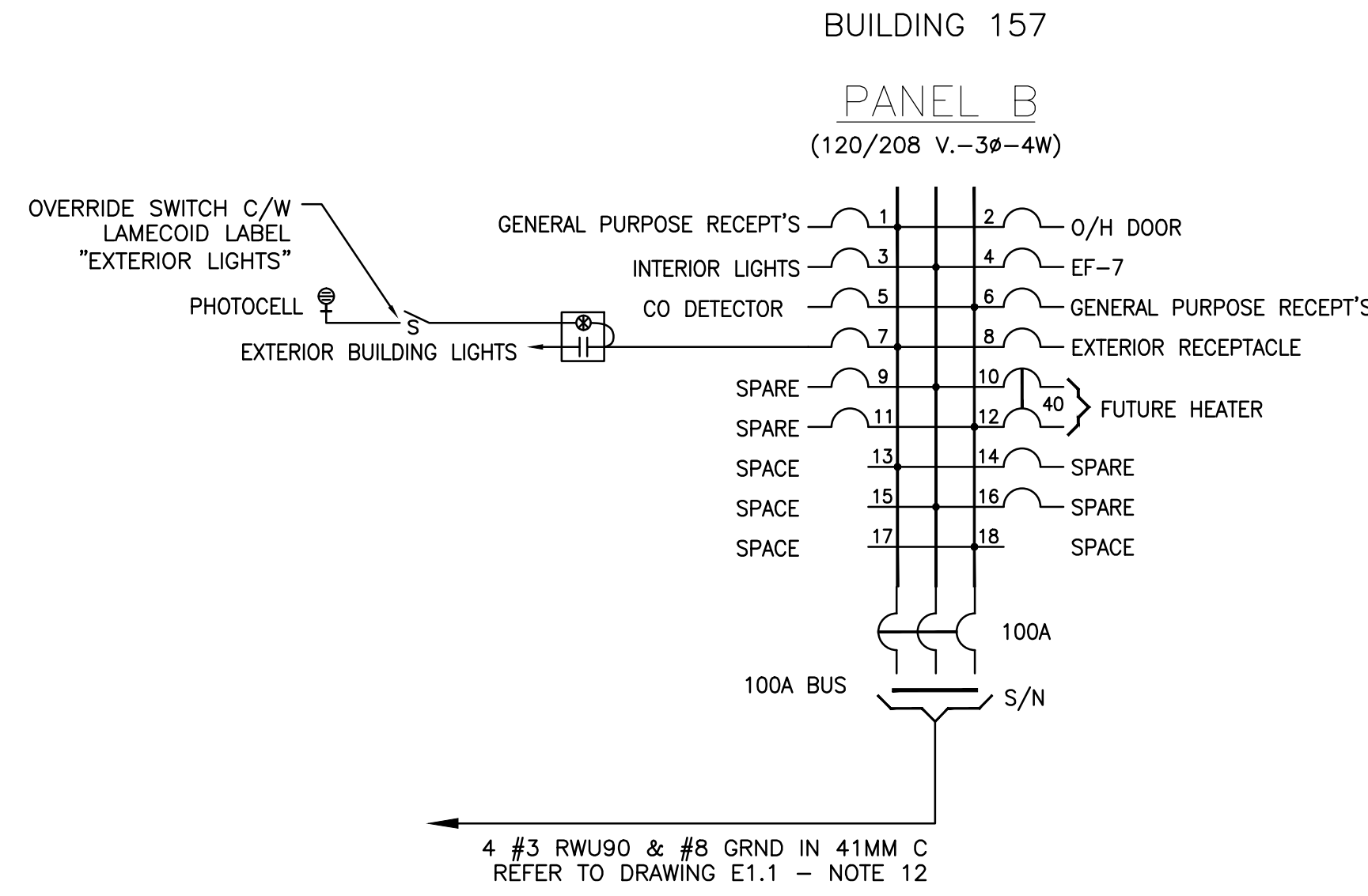
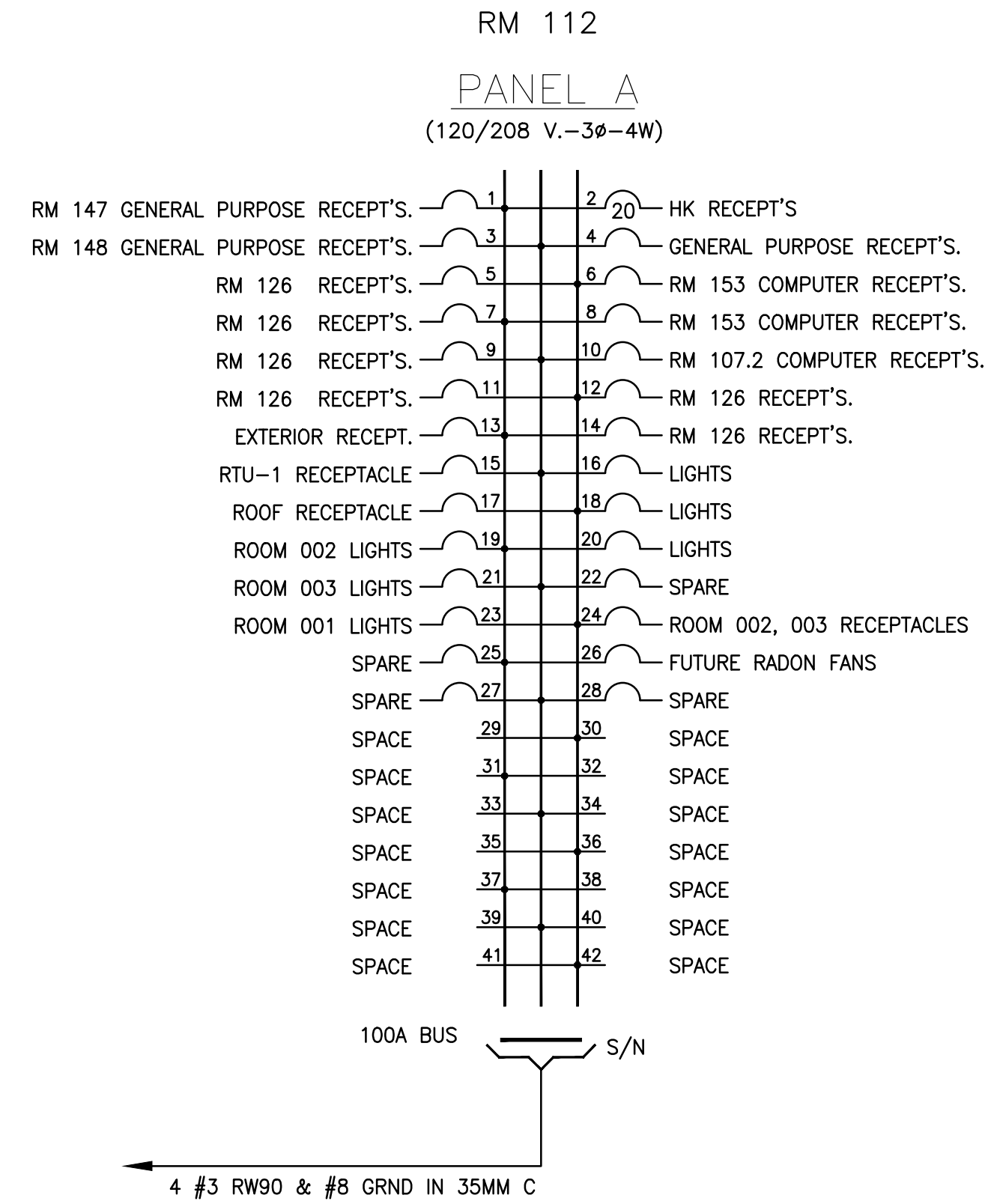
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AND EMPLOYEE HOUSING
BLACK LAKE, SASKATCHEWAN**

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**NORMAL POWER
PANEL SCHEMATICS**

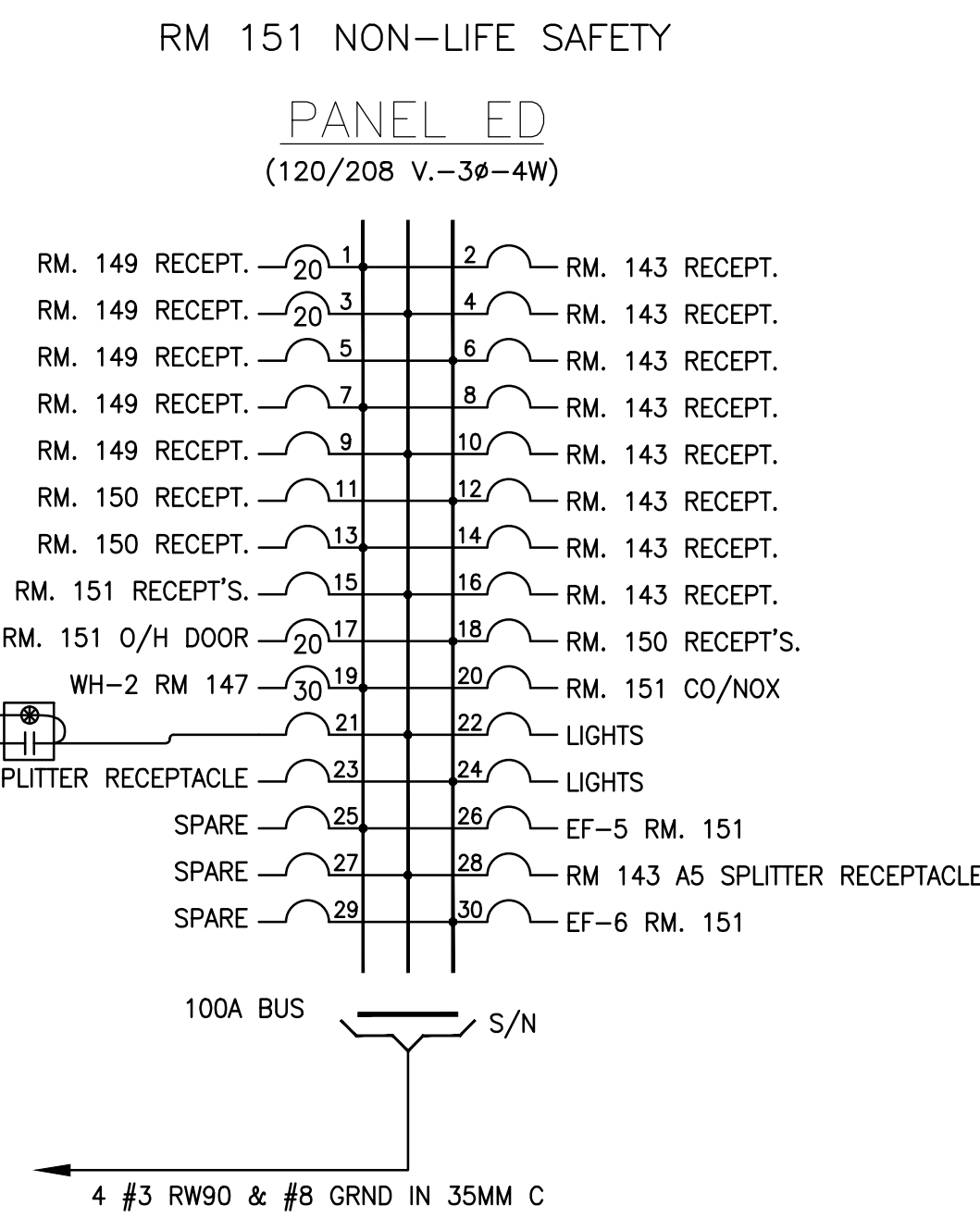
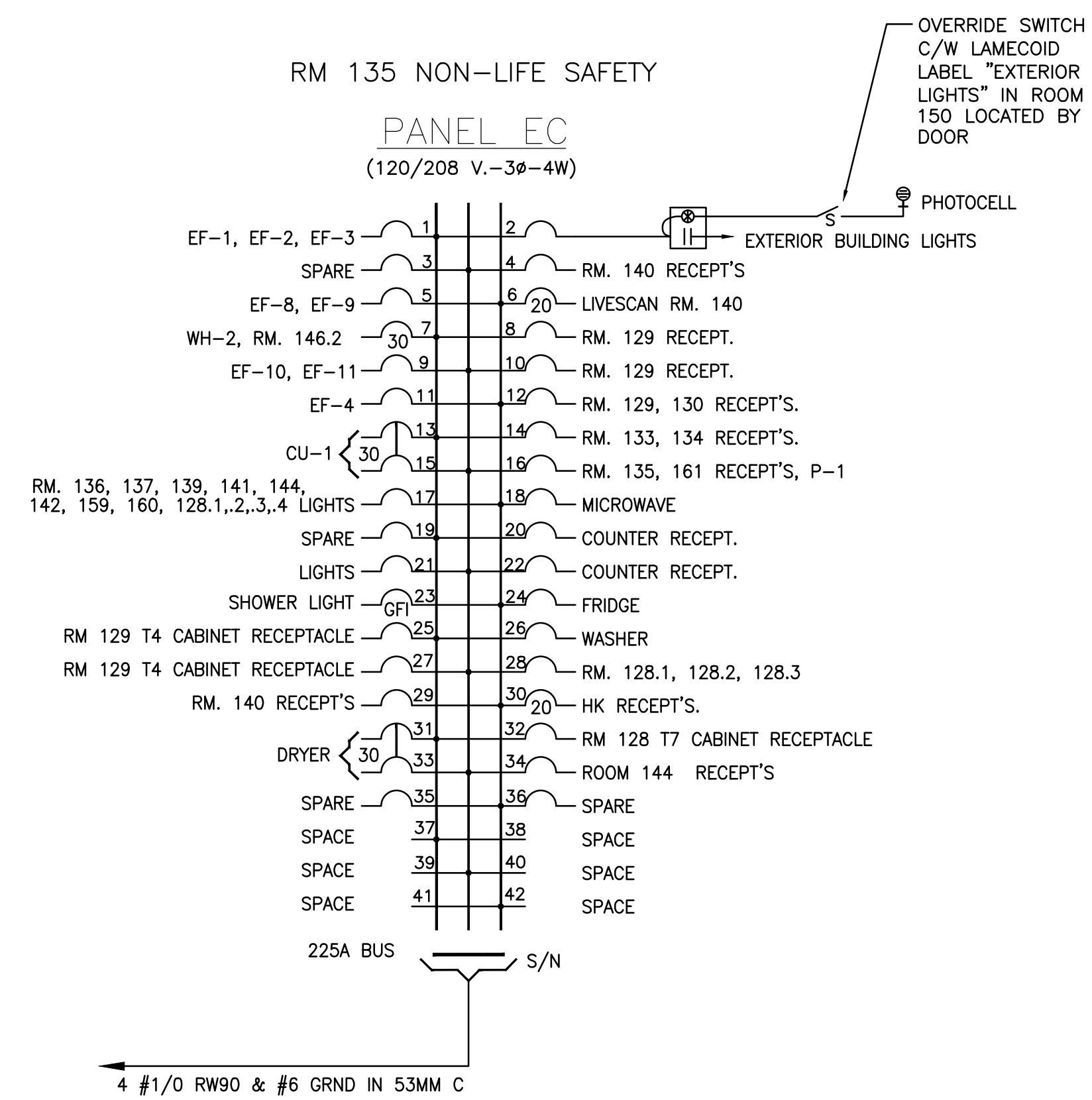
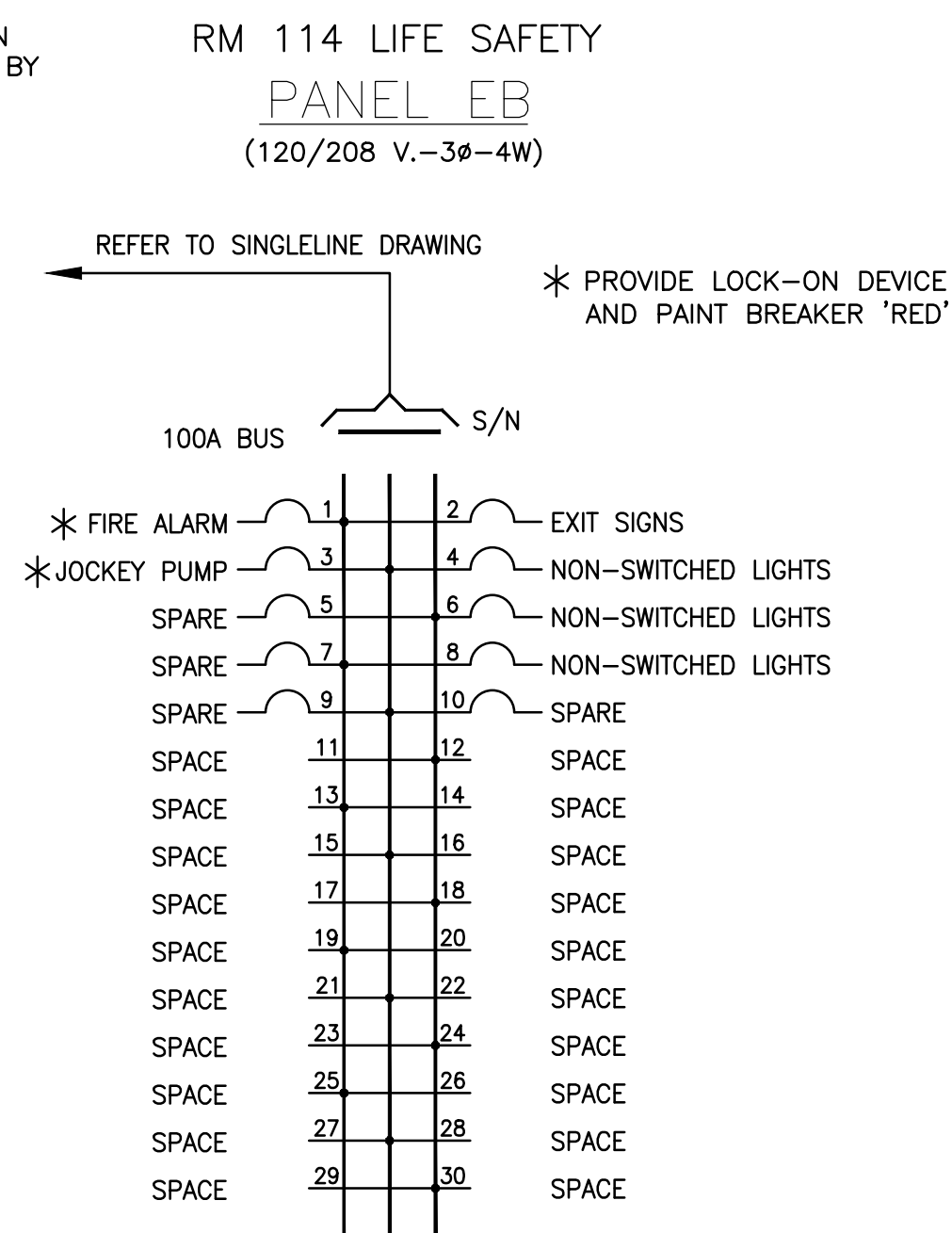
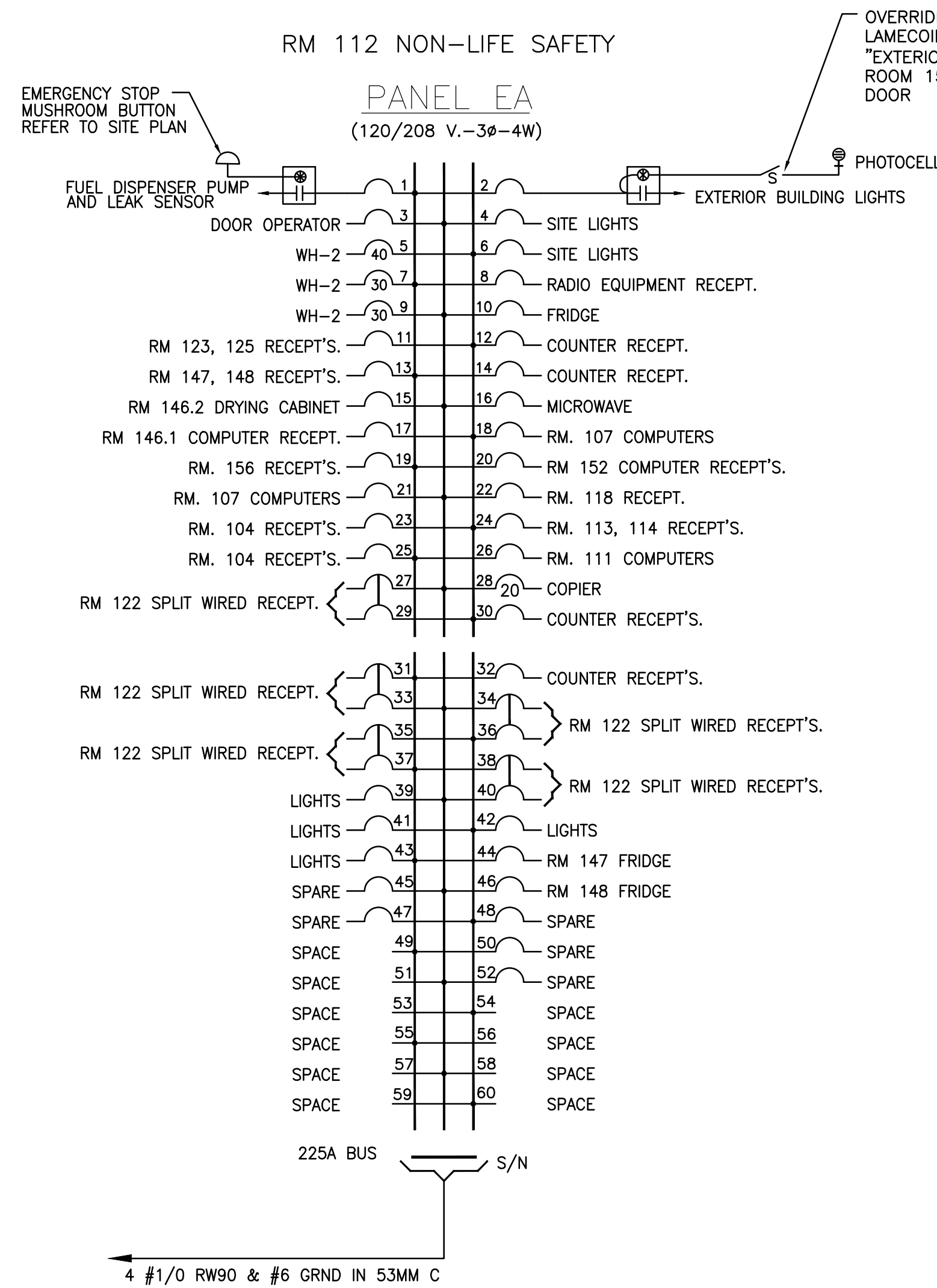
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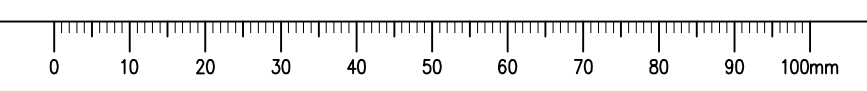
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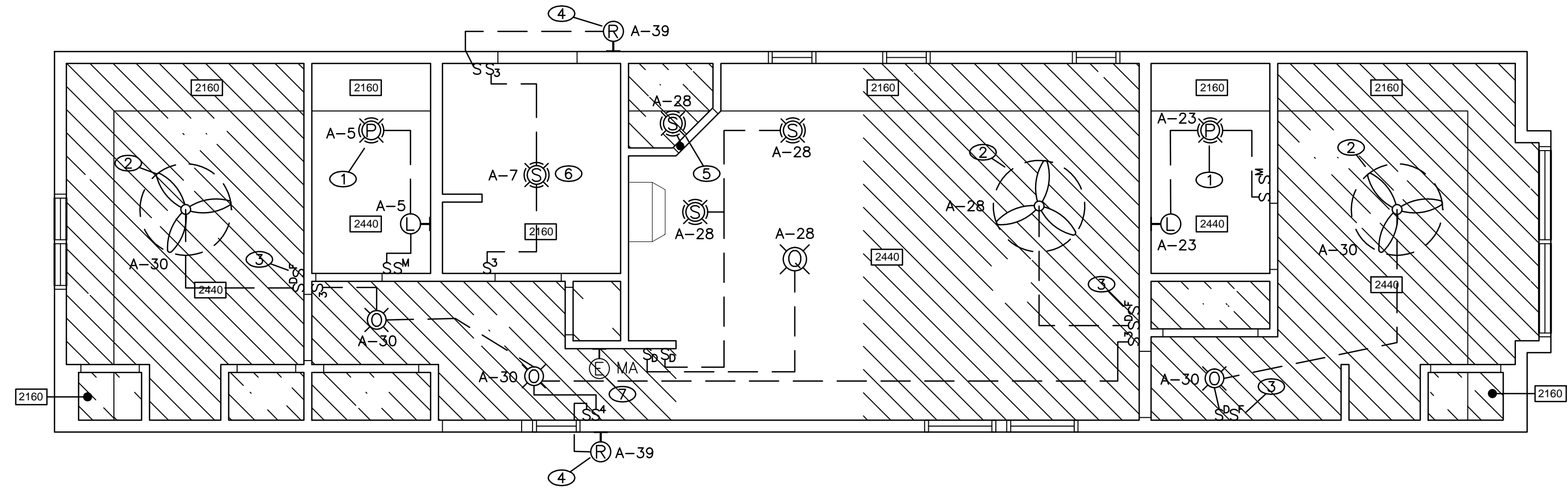
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PANEL SCHEMATIC POWER PANEL SCHEMATICS

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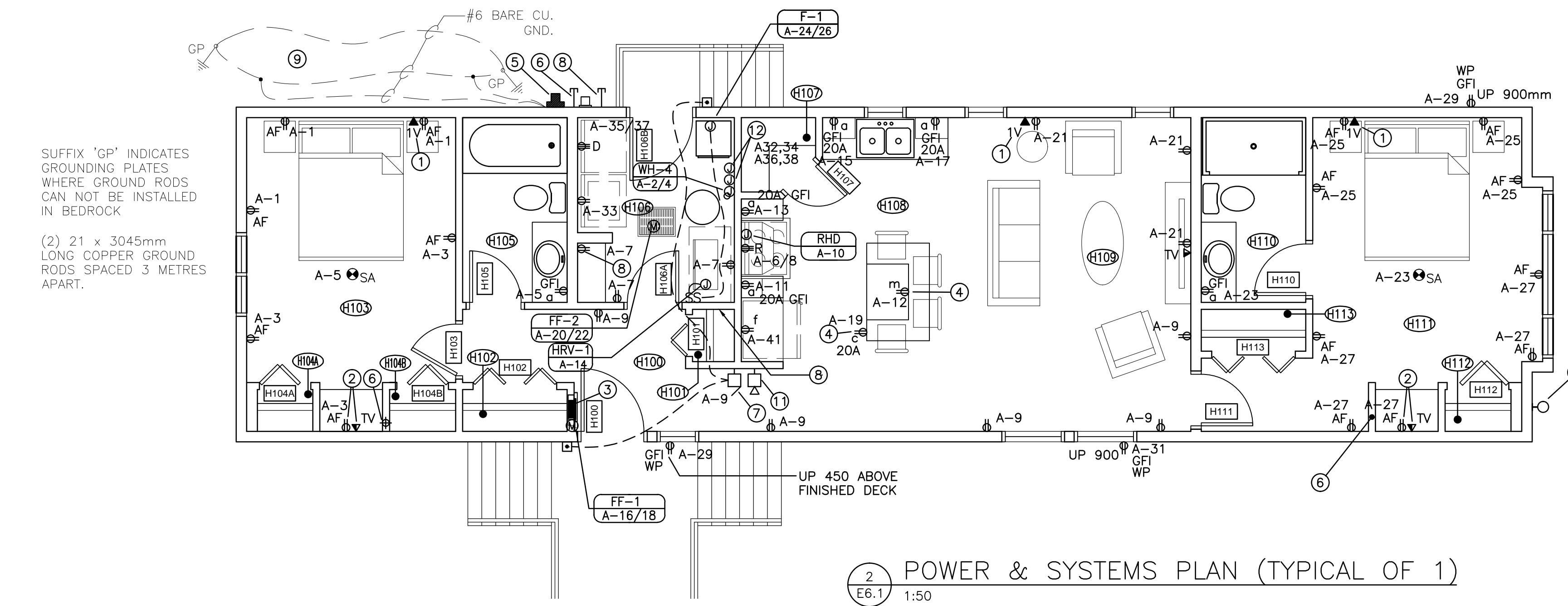


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1 LIGHTING PLAN (TYPICAL OF 1)
E6.1 1:50



2 POWER & SYSTEMS PLAN (TYPICAL OF 1)
E6.1 1:50

SUFFIX 'GP' INDICATES GROUNDING PLATES WHERE GROUND RODS CAN NOT BE INSTALLED IN BEDROCK

(2) 21 x 3045mm LONG COPPER GROUND RODS SPACED 3 METRES APART.

POWER & SYSTEMS DRAWING NOTES (FOR TYPE 1 & TYPE 1 REV):

- 1 PROVIDE NEW VOICE OUTLET FOR TELEPHONE CONNECTION. INCOMING TELEPHONE HOUSE CABLE FROM TELEPHONE PEDESTAL.
- 2 PROVIDE NEW RECEPTACLE AND TV OUTLET AT APPROXIMATELY 150mm ABOVE SHELF; COORDINATE MOUNTING HEIGHT WITH TV MOUNTING HARDWARE.
- 3 PROVIDE NEW RECESSED PANEL 'A' AT THIS LOCATION. REFER TO PANEL SCHEMATIC FOR FEEDER SIZE AND CIRCUITRY. PANEL SHALL BE FED FROM INCOMING FEED THROUGH THE VENTILATED SPACE BELOW. WALL SHALL BE THICKENED TO ACCEPT PANEL BACK-BOX.
- 4 PROVIDE NEW RECEPTACLE RECESSED IN MILLWORK. RECEPTACLE SHALL BE FED FROM BELOW.
- 5 PROVIDE METER SOCKET C/W INTEGRAL TRANSFER SWITCH AND GENERATOR SERVICE RECEPTACLE GENELINK MA23/24 - N/S, 200AMP RATED. MOUNT SOCKET AS PER SASKPOWER SERVICE REQUIREMENTS. FOR EACH UNIT.
- 6 CONDUIT EMT STUB UP FROM VENTILATED SPACE BELOW FOR SATELLITE CABLES. TERMINATE 150mm ABOVE SHELF IN A RECESSED JUNCTION BOX. PROVIDE RECEPTACLE ADJACENT TO JUNCTION BOX C/W BUSHED STAINLESS STEEL COVERPLATE FOR SATELLITE / TV EQUIPMENT AS SHOWN. REFER TO SITE PLAN FOR CONDUIT SIZE.
- 7 DOOR BELL CHIME MOUNTED UP 2100mm ABOVE FINISHED FLOOR. MOUNT DOOR BELL BUTTON UP 1200mm ABOVE LANDING.
- 8 PROVIDE ONE 53mm RIGID DB2 CONDUIT C/W PULL STRING STUBBED OUT FROM VENTILATED SPACE BELOW H106, ONE METER PAST EXTERIOR WALL FOR INCOMING TELEPHONE HOUSE CABLE. PROVIDE A BIX BLOCK IN THE H106 FOR TERMINATION OF TELEPHONE CABLE. MOUNT BIX BLOCK UP 1830mm A.F.F. PROVIDE 53mm CONDUIT FROM BIX LOCATION STUBBED INTO VENTILATED SPACE BELOW. TERMINATE VOICE CABLES FROM WALL OUTLETS ON BIX BLOCK. REFER TO SPECIFICATIONS. PROVIDE #6 INSULATED GROUND TO BUILDING GROUND BUS AND A DUPLEX RECEPTACLE ADJACENT TO THE BIX BLOCK AND CONNECT TO NEAREST 120 VOLT GENERAL PURPOSE CIRCUIT.
- 9 PROVIDE BUILDING GROUND LOOP C/W (2) GROUNDING PLATES -4 METERS APART AS SHOWN ON FLOOR PLAN AND CONNECT TO THE PANEL GROUND BUS.

- 10 PROVIDE HEAT TRACE BEACON LIGHT WALL MOUNTED UP 1830mm ABOVE FINISHED FLOOR. CONNECT TO HEAT TRACE CONTROLLER LOCATED IN ROOM H106. STROBE SHALL BE CONNECTED TO CONTROLLER ALARM SIGNAL CONTACTS. BEACON SHALL BE C/W STROBE TUBE LAMP (4,000 HOURS) 100,000 CANDELA PEAK, 'AMBER' DOME, TYPE 3R ENCLOSURE SUITABLE FOR WET LOCATIONS. OPERATING TEMPERATURE -31°. PROVIDE WALL MOUNTING BRACKETS, 120 VOLT CONNECTION TO CONTROLLER. COORDINATE WITH CONTROLLER SHOP DRAWINGS AND WIRING SCHEMATICS. PROVIDE ALL COMPONENTS FOR FINAL CONNECTION. MANUFACTURER: FEDERAL SIGNAL CORP. SERIES ELECTRAFLASH '141ST' SERIES.
- 11 PROVIDE HEAT TRACE AUDIBLE SIGNAL DEVICE MOUNTED UP 2100mm ABOVE FINISHED FLOOR. CONNECT TO HEAT TRACE CONTROLLER. HORN SHALL BE CONNECTED TO CONTROLLER ALARM SIGNAL CONTACTS. MOUNT TO A RECESSED 100mm SQUARE OUTLET BOX. BUILT-IN GAIN CONTROL, ADJUSTABLE BETWEEN 64dbA TO 88dbA AT 10'. 120 VOLT CONNECTOR KIT FOR CONNECTION TO CONTROLLER. MANUFACTURER: FEDERAL SIGNAL CORP. SERIES SELECTONE '50GC' SERIES.
- 12 PROVIDE FINAL CONNECTION TO HEAT TRACE CONTROLLERS MOUNTED UP 1200mm A.F.F.. CONTROLLERS PROVIDED AND INSTALLED BY OTHERS. COORDINATE FINAL LOCATION WITH SUPPLIER. WIRING FROM THE CONTROLLERS TO THE HEAT TRACE CABLE LOOP IN THE VENTILATED SPACE SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. RUN WIRING IN THE HEATED SPACE OF THE FLOOR AND STUB DOWN INTO THE VENTILATED SPACE AT THE INCOMING WATER SERVICE. PROVIDE AN EXCESS COIL OF WIRING FOR FINAL CONNECTIONS TO HEAT TRACE CABLES. THE ELECTRICAL CONTRACTOR SHALL COMPLETE THE FINAL WRAPPING OF THE HEAT TRACE CABLE ON THE PIPES ON SITE. AFTER THE FINAL CONNECTIONS THE CONTRACTOR SHALL ENSURE INSULATION OF THE PIPES IS COMPLETED. COORDINATE WITH THE MECHANICAL CONTRACTOR ON SITE. REFER TO THE MECHANICAL DRAWINGS AND CIVIL DRAWINGS FOR DETAILS FOR HEAT TRACE CABLE INSTALLATION AND FINAL LOCATIONS OF THE INCOMING WATER LINES.

LIGHTING DRAWING NOTES (FOR TYPE 1 & TYPE 1 REV):

- 1 FIXTURE SHALL BE INSTALLED IN FRONT OF TUB/SHOWER ENCLOSURE MINIMUM 200mm IN FRONT OF BULKHEAD. LIGHTING CIRCUIT SHALL BE PROVIDED FROM A GFCI CIRCUIT.
- 2 PROVIDE NEW CEILING FAN & LIGHT COMBINATION AT THIS LOCATION. REFER TO TYPE 'C' FIXTURE IN LIGHTING SPECIFICATIONS.
- 3 PROVIDE A SEPARATE SPEED CONTROL SWITCH FOR FAN CONTROL.
- 4 MOUNT FIXTURE UP 2050mm ABOVE TOP OF DECK.
- 5 PROVIDE RECESSED CONTACT IN DOOR HEADER FOR ON/OFF CONTROL OF FIXTURE.
- 6 COORDINATE LOCATION OF FIXTURE WITH MECHANICAL DUCT AND FORCE FLOW UNIT.
- 7 EMERGENCY LIGHT CONNECTED TO NON-SWITCHED LEG OF H100 LIGHTING CONTROL CIRCUIT.

GENERAL NOTES (FOR TYPE 1 & TYPE 1 REV):

1. LIGHTING AND POWER/SYSTEMS SHOWN ARE TYPICAL FOR TWO MODULAR UNITS ON NORTH SIDE OF PROPERTY, BL3 AND BL4. REFER TO DRAWING E1.1.
2. MODULAR CONTRACTOR SHALL PROVIDE CONDUIT STUB FROM EACH OUTLET BOX TO VENTILATED SPACE BELOW FOR TELEPHONE AND TELEVISION CABLES. CABLES, JACKS, TERMINATIONS AND FACEPLATES BY CONTRACTOR ON SITE.
3. PROVIDE CONNECTION TO HEAT TRACE ON MECHANICAL PIPING IN THE VENTILATED SPACE. COORDINATE WITH MECHANICAL DRAWINGS.

SYMBOL SCHEDULE

- (M) MOTOR CONNECTION. SEE MECHANICAL DRAWINGS FOR DETAILS AND COORDINATE FINAL LOCATIONS ON SITE.
 - (J) JUNCTION BOX/OUTLET BOX.
 - (R) RECESSED CEILING MOUNTED FIXTURE
 - (C) MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED.
 - (GFI) MOLDED CASE TYPE CIRCUIT BREAKER, GROUND FAULT INTERRUPTER 15 AMP UNLESS NOTED OTHERWISE.
 - (S) S.P.S.T. SWITCH MOUNTED UP 1200mm.
 - (S3) 3-WAY SWITCH MOUNTED UP 1200mm.
 - (S4) 4-WAY SWITCH MOUNTED UP 1200mm.
 - (DS) S.P.S.T. SWITCH/DIMMER MOUNTED UP 1200mm. DIMMER SHALL BE SIZED ACCORDING TO LOAD; 500W, 1000W, 1500W.
 - (D) DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450MM, UNLESS OTHERWISE STATED BY ONE OF THE FOLLOWING SUFFIXES.
 - a - 300mm ABOVE COUNTER
 - c - 150mm BELOW COUNTER, RECESSED IN ARCHITECTURAL MILLWORK.
 - f - 1200mm ABOVE FINISHED FLOOR.
 - m - MICROWAVE RECEPTACLE UP 250mm ABOVE MICROWAVE SHELF.
 - (GFI-D) DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE MOUNTED UP 450mm OR AS NOTED. SUFFIX 20A INDICATES A 20 AMP RECEPTACLE 5-20R.
 - (WP) DUPLEX GFI RECEPTACLE C/W DIECAST ALUMINUM WEATHERPROOF RESISTANT WHILE IN USE COVER. ADAPT FOR FLUSH OR FS BOX MOUNTING MOUNTED UP 900mm.
 - (R) RANGE RECEPTACLE, 50 AMP, 125/250 VOLT, 4 WIRE GROUNDED RECEPTACLE C/W COVERPLATE. MOUNT UP 150mm. CORD SET SUPPLIED WITH RANGE.
 - (D) DRYER RECEPTACLE, 30 AMP, 125/250 VOLT, 4 WIRE GROUNDED RECEPTACLE C/W COVERPLATE. MOUNT UP 900mm. CORD SET SUPPLIED WITH DRYER.
 - (AF) DUPLEX RECEPTACLE WITH ARC FAULT PROTECTION. MOUNTED UP 450mm.
 - (TV) CABLE TELEVISION OUTLET MOUNTED UP 450mm UNLESS NOTED OTHERWISE. PROVIDE 100mm SQUARE BOX C/W SINGLE GANG EXTENSION RING AND STAINLESS STEEL COVERPLATE WITH TYPE 'F' CONNECTORS. PROVIDE RG6 COAXIAL CABLE IN CONDUIT TO CABLE TV TAP BOX.
 - (TV) TELEPHONE OUTLET IN 100mm SQUARE BOX C/W SINGLE GANG EXTENSION RING, MOUNTED UP 450mm UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR CABLE AND JACKS.
 - (E) RECESSED ELECTRICAL PANEL.
 - (SA) SMOKE ALARM DEVICE C/W WITH BATTERY BACK-UP, HARD WIRED TO 120 VOLT SEPARATE CIRCUIT. CEC 32-110 REQUIRES ALARM TO BE ON A WASHROOM LIGHTING CIRCUIT.
- NOTE:
ALL RECEPTACLES LOCATED INSIDE THE MODULAR UNITS SHALL BE TAMPER PROOF TYPE.

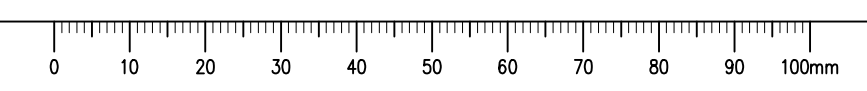


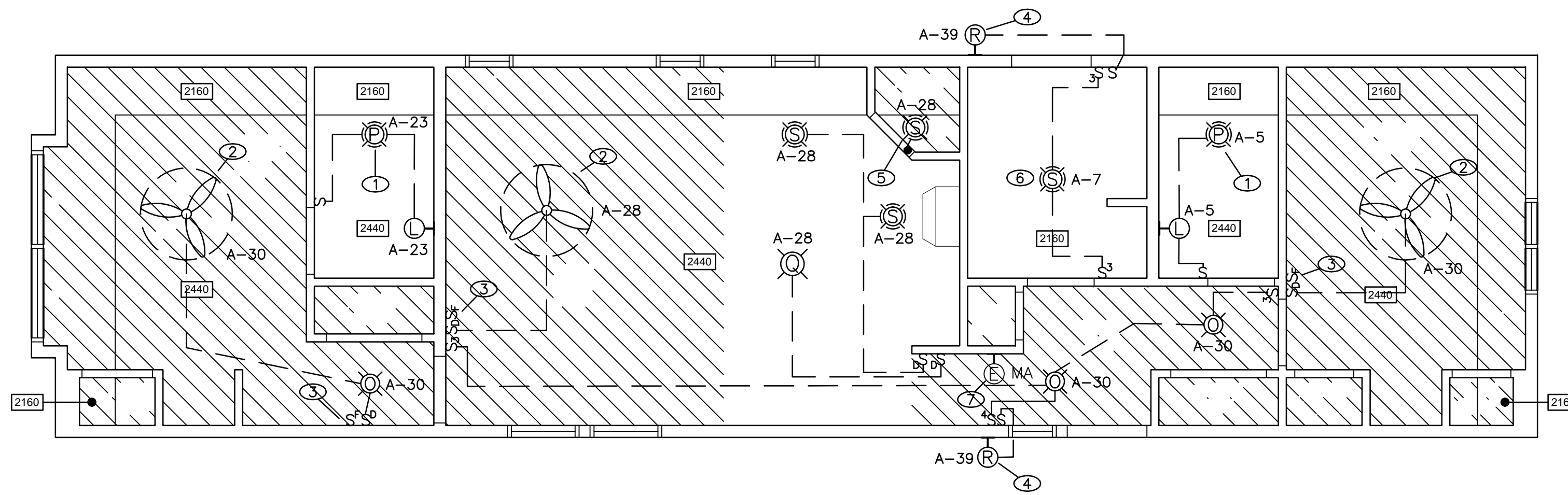
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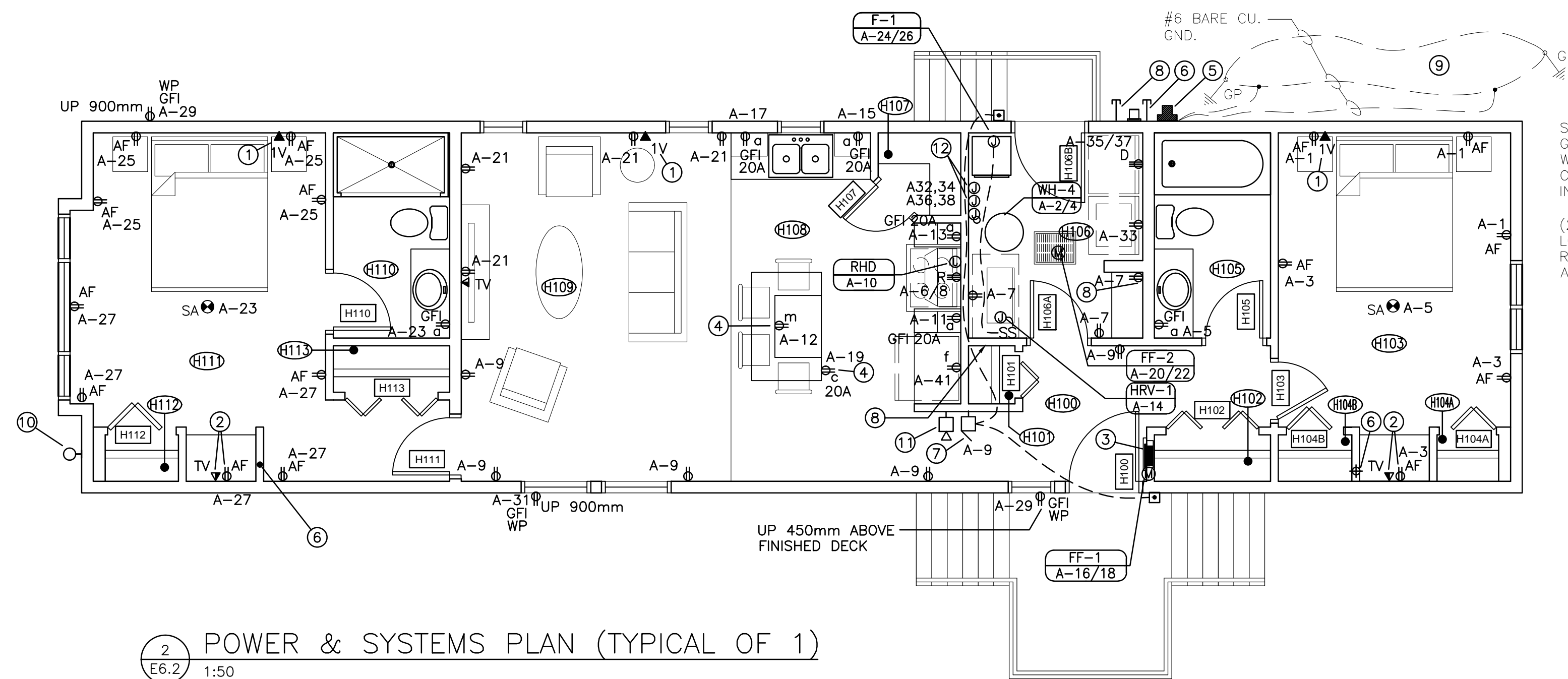
Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2015/12/04
1		
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Project title/Titre du projet		
NEW MODULAR POLICE BUILDING AND EMPLOYEE HOUSING BLACK LAKE, SASKATCHEWAN		
Approved by/Approve par		
Designed by/Consept par		
Drawn by/Dessine par		
Project Manager/Administrateur de Projets		
Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingenierie		
Client/client		
Drawing title/Titre du dessin		
MODULAR HOUSING TYPE 1 LIGHTING PLAN POWER & SYSTEMS PLAN SYMBOL SCHEDULE		
Project No./No. du projet	Sheet/Fuille	Revision no./Le Revision no.
S-03-2014	E6.1	





1 LIGHTING PLAN (TYPICAL OF 1)
E6.2 1:50



2 POWER & SYSTEMS PLAN (TYPICAL OF 1)
E6.2 1:50

MOTOR & EQUIPMENT SCHEDULE (HOUSING UNITS TYPICAL)

Item	Description	kW	H.P.	Volt	Ø	F.L.A.	M.C.A.	Starter (Y/N)	Unit Location	Brkr	Feeder	Panel	NOTES
F-1	FURNACE	18		240	1		76	N	H106	100A-2P	2 #3 + #8 INS. BOND IN 27C	A	SEE NOTE 1, 3, 4
HRV-1	HEAT RECOVERY VENTILATOR	0.11	FR	120	1	1.25		N	H106	15A-1P	2 #12 + #12 INS. BOND IN 21C.	A	SEE NOTE 2, 4
WH-4	WATER HEATER C/W TWO ELEMENTS	4.5		240	1			N	H106	35A-2P	2 #10 + #10 INS. BOND IN 21C	A	SEE NOTE 2, 4
RHD	RANGE HOOD			120	1			N	H108	15A-1P	2 #12 + #12 INS. BOND IN 21C.	A	SEE NOTE 2, 4
FF-1	FORCE FLOW	4.0		240	1					25-2P	2 #12 + #12 INS. BOND IN 21C	A	SEE NOTE 2, 4
FF-2	FORCE FLOW	4.0		240	1					25-2P	2 #12 + #12 INS. BOND IN 21C	A	SEE NOTE 2, 4

MECHANICAL EQUIPMENT SCHEDULE NOTES

- PROVIDE THERMAL DISCONNECT SWITCH ADJACENT TO MECHANICAL UNIT.
- DIRECT CONNECT.
- PROVIDE SWITCH FOR FURNACE AS PER BUILDING CODE.
- ALL CONTROL WIRING SHALL LOW VOLTAGE AND LINE VOLTAGE SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.

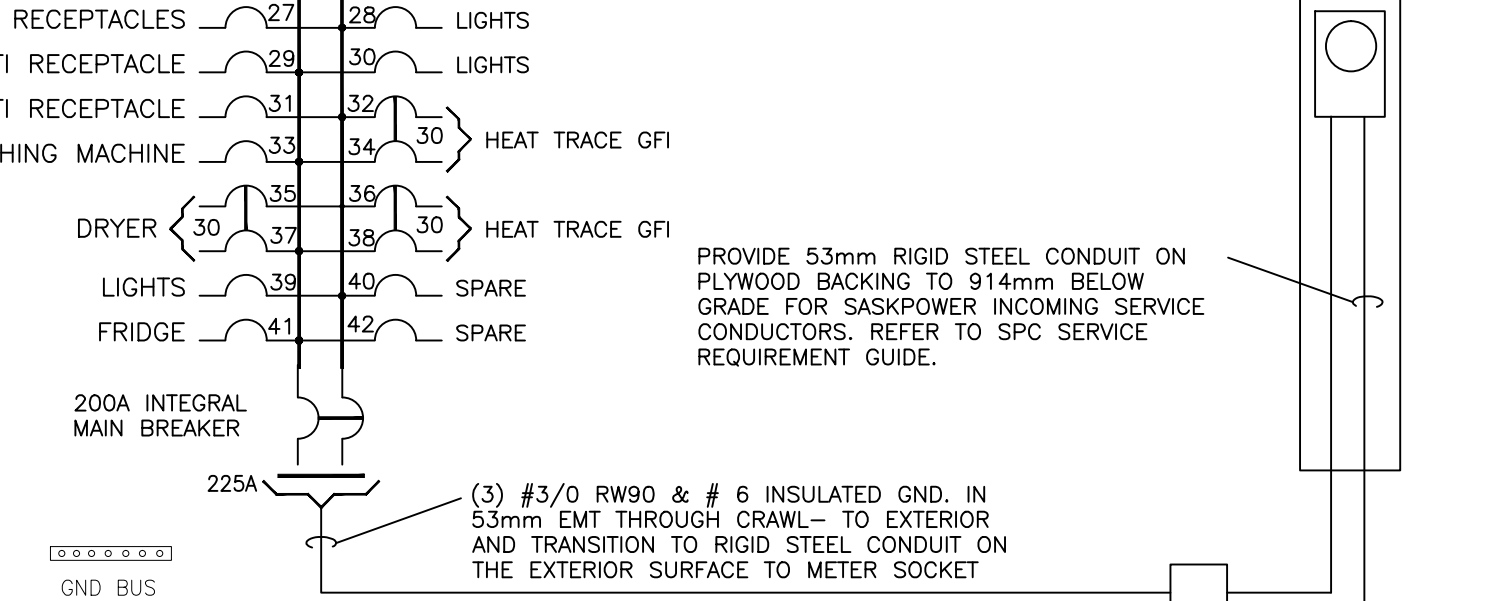
PANEL 'A' (TYPICAL)

120/240V-1Ø-3W

- GENERAL PURPOSE RECEPTACLES 1 2 35 WH-4
- GENERAL PURPOSE RECEPTACLES 3 4 35 WH-4
- WASHROOM GFI RECEPTACLE/LIGHT 5 6 50 RANGE
- GENERAL RECEPTACLES/LIGHT 7 8 50 RANGE
- GENERAL PURPOSE RECEPTACLE 9 10 50 RANGE HOOD
- KITCHEN COUNTER RECEPTACLE 20 11 17 RECEPTACLE
- KITCHEN COUNTER RECEPTACLE 20 13 14 HRV-1
- KITCHEN COUNTER GFI RECEPTACLE 20 15 16 FF-1
- KITCHEN COUNTER GFI RECEPTACLE 20 17 18 25 FF-1
- KITCHEN RECEPTACLE 20 19 20 25 FF-1
- GENERAL PURPOSE RECEPTACLES 21 22 25 FF-1
- WASHROOM GFI RECEPTACLE/LIGHT 23 24 F-1
- GENERAL PURPOSE RECEPTACLES 25 26 100 F-1
- GENERAL PURPOSE RECEPTACLES 27 28 LIGHTS
- EXTERIOR GFI RECEPTACLE 29 30 LIGHTS
- EXTERIOR GFI RECEPTACLE 31 32
- WASHING MACHINE 33 34 30 HEAT TRACE GFI
- DRYER 35 36 30 HEAT TRACE GFI
- LIGHTS 37 38 30 SPARE
- FRIDGE 41 42 SPARE

GENERATOR CONNECTOR 240 VOLT, 200 AMP
1Ø PROVIDED BY ELECTRICAL CONTRACTOR.
MANUFACTURER: GENERLINK #MA23/24-N

200 AMP METER SOCKET C/W
GENERATOR RECEPTACLE
PROVIDED BY ELECTRICAL
CONTRACTOR



3 PANEL SCHEMATICS (TYPICAL)
E2.2 N.T.S.

SUFFIX 'GP' INDICATES
GROUNDING PLATES
WHERE GROUND RODS
CAN NOT BE INSTALLED
IN BEDROCK

(2) 21 x 3045mm
LONG COPPER GROUND
RODS SPACED 3 METRES
APART.

PROVIDE 53mm RIGID STEEL CONDUIT ON
PLYWOOD BACKING TO 914mm BELOW
GRADE FOR SASKPOWER INCOMING SERVICE
CONDUCTORS. REFER TO SPC SERVICE
REQUIREMENT GUIDE.

PROVIDE JUNCTION BOX
IN VENTILATED SPACE
FOR TRANSITION BETWEEN
RIGID STEEL CONDUIT AND
RIGID EMT CONDUIT



100-3725 Praeger Street, Regina, SK, S4S 0W8 (416) 599-2255
100-3718 Kiewit Place, Saskatoon, SK, S7N 0A6 (416) 653-6457
www.sepw.ca



400-2222 Albert Street, Regina, SK, S4P 2V2
F: (306) 594-1333 F: (306) 594-1307
Email: ra@ritenburg.com



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Project title/Titre du projet
**NEW MODULAR POLICE BUILDING
AND EMPLOYEE HOUSING
BLACK LAKE, SASKATCHEWAN**

Approved by/Approve par

Designed by/Consept par

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Project Manager/Administrateur de Projets

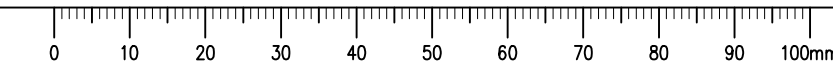
Architectural and Engineering Resources Manager/
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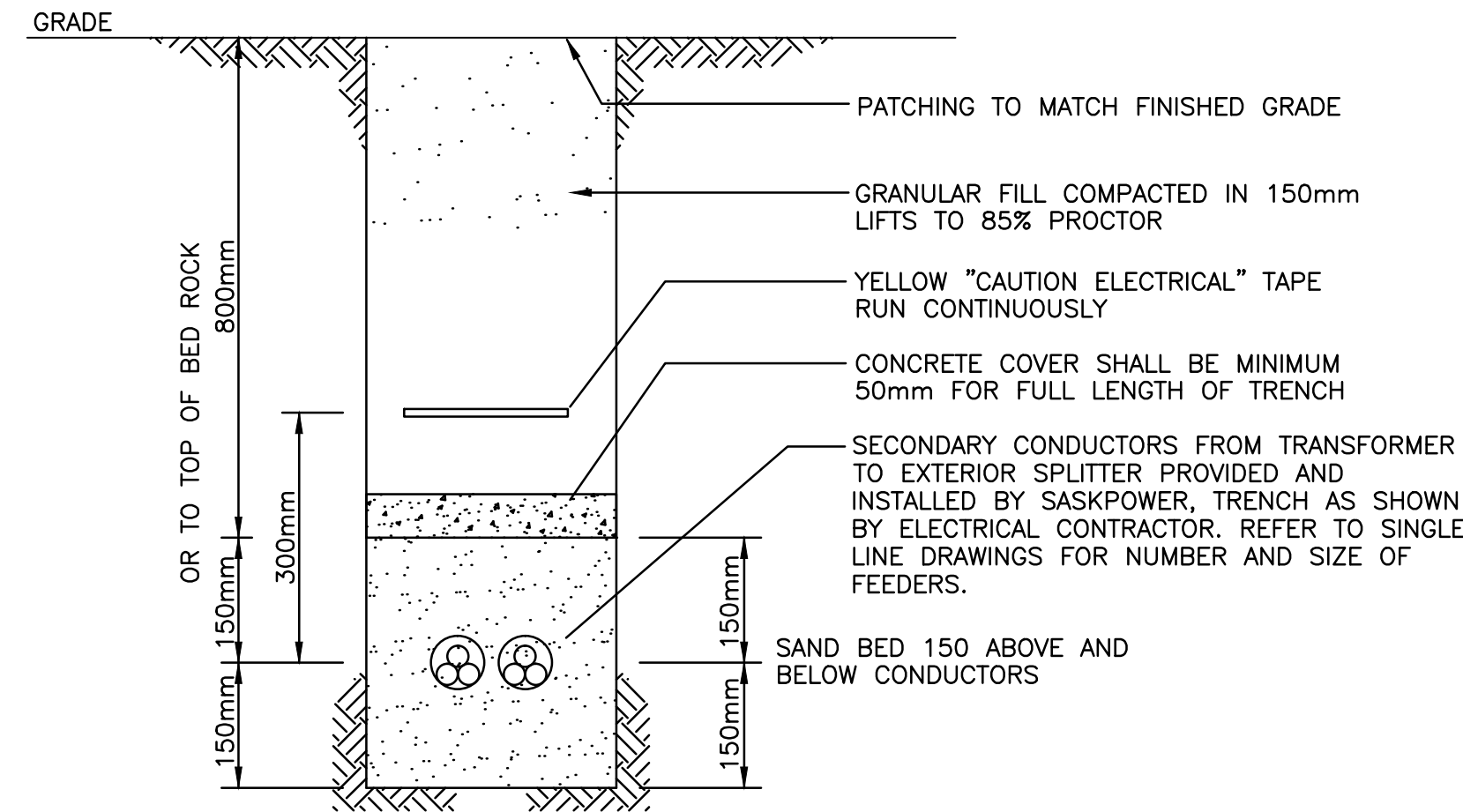
Drawing title/Titre du dessin

**MODULAR HOUSING TYPE 1 REV
LIGHTING PLAN
POWER & SYSTEMS PLAN
PANEL SCHEMATIC AND MOTOR
EQUIPMENT SCHEDULE (TYPICAL)**

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
S-03-2014	E6.2	



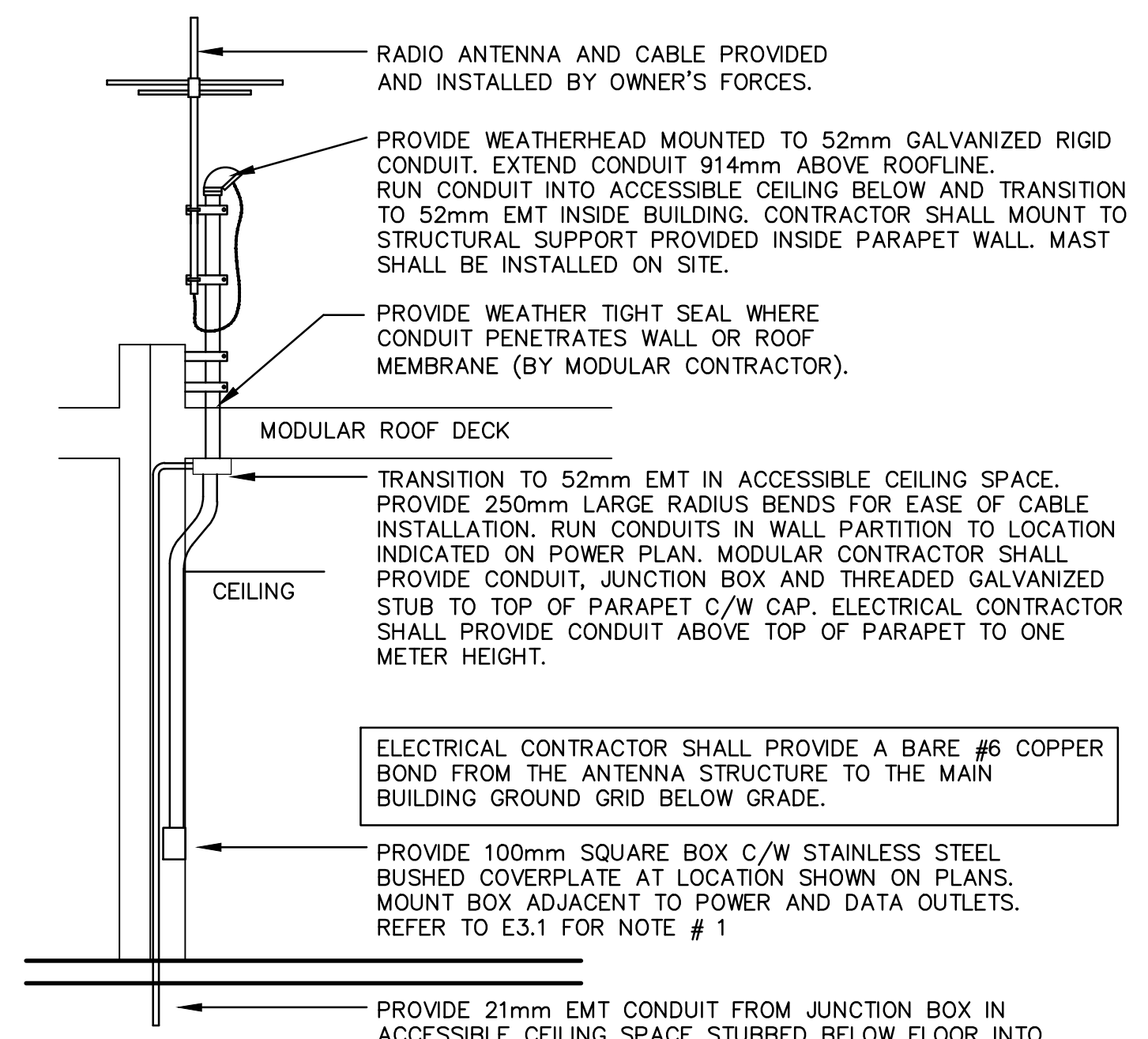
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LAYOUT NAME: E6.2



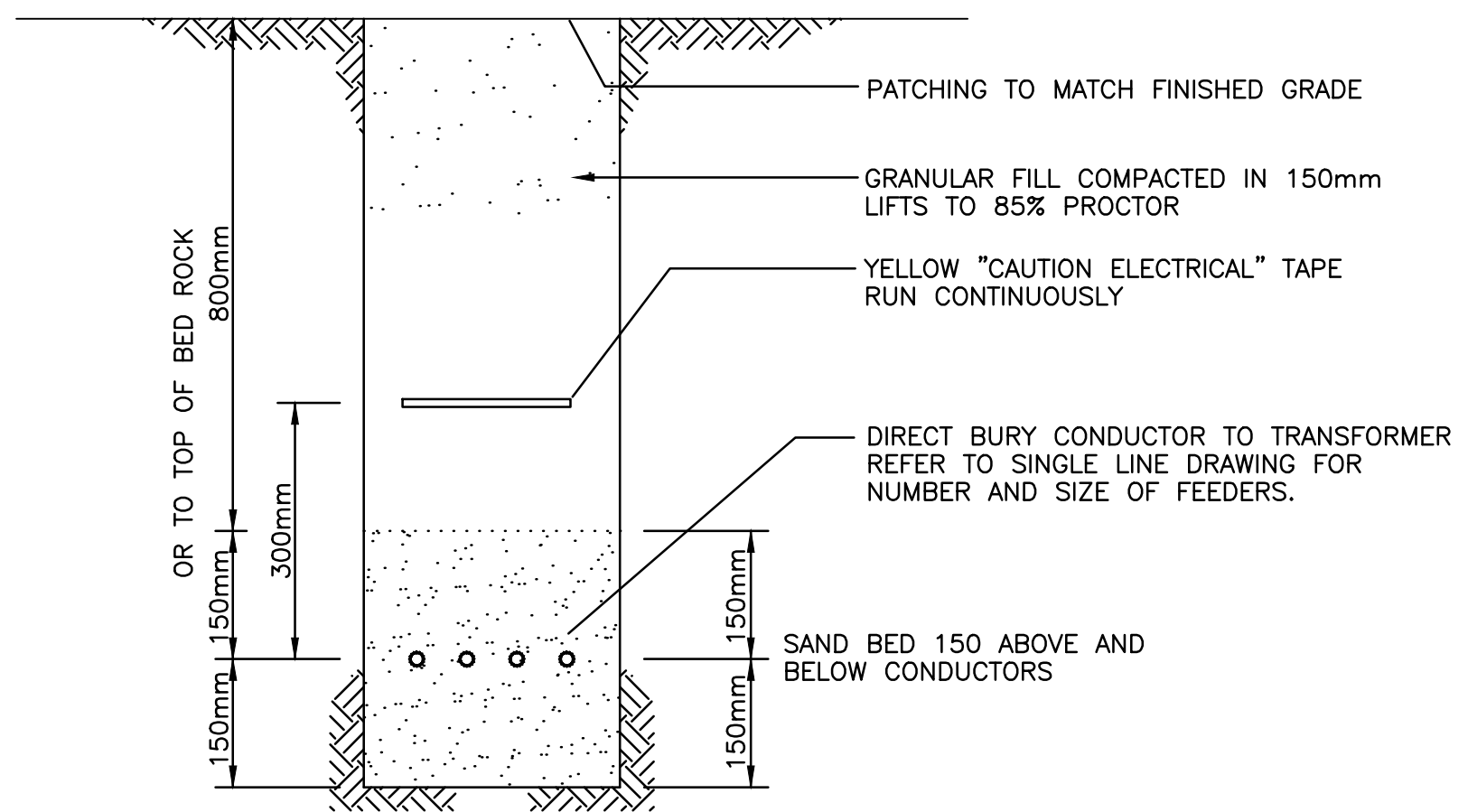
GENERAL NOTES:

1. TRENCH DETAIL INSTALLATION FOR RACEWAY SERVICE CONDUCTORS SHALL COMPLY WITH CANADIAN ELECTRICAL CODE DIAGRAM B4-4 PER RULE 4-004 (1)(d). IF SPACING IS NOT ACCORDANCE WITH DIAGRAM B4-4, IEEE835 IS REQUIRED TO CONFIRM THE CABLE CAPACITY AS STATED IN RULE 4-004(1)(d).

1 SECONDARY CONDUCTOR TRENCH DETAIL
E7.1 N.T.S.



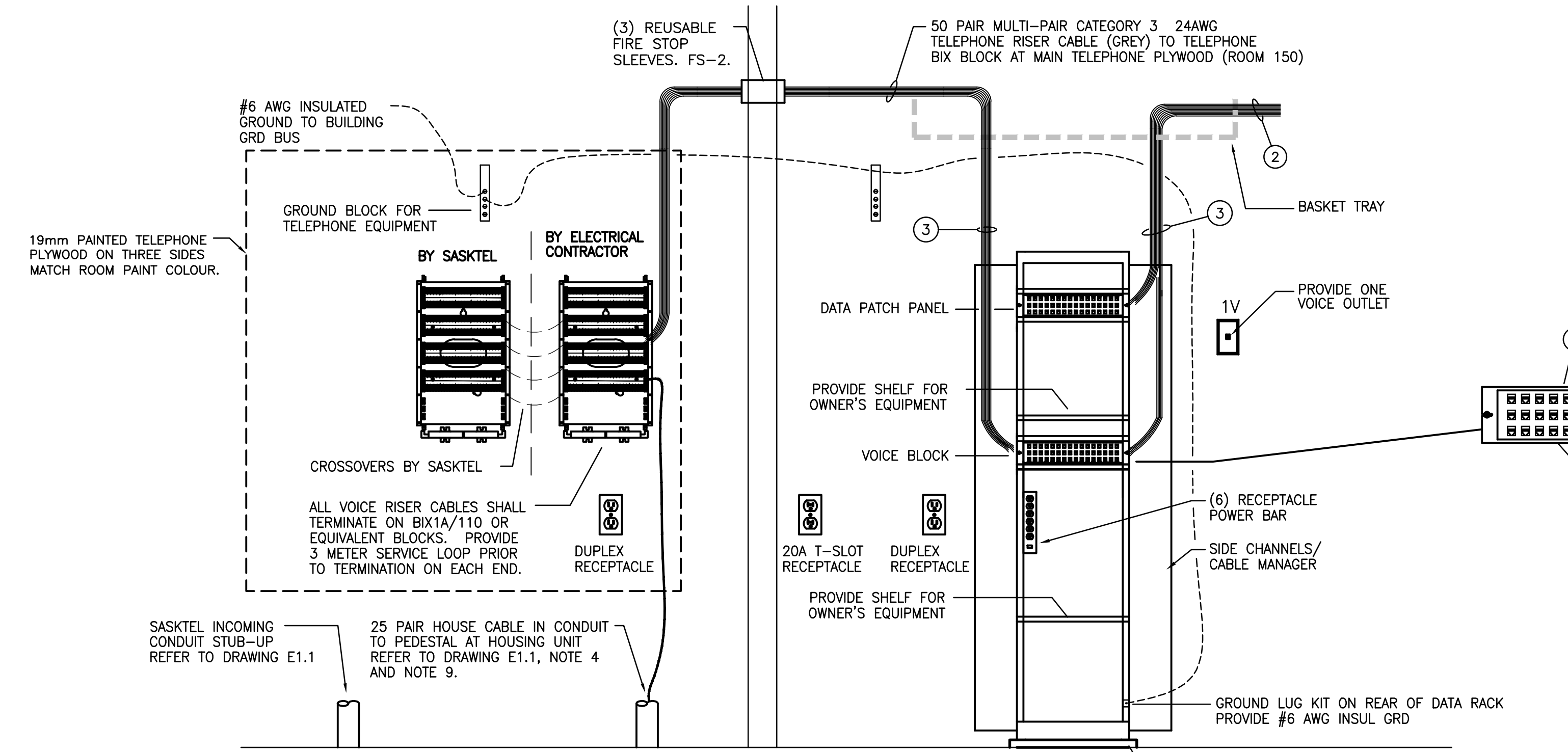
2 BASE ANTENNA MOUNTING DETAIL
E7.1 N.T.S.



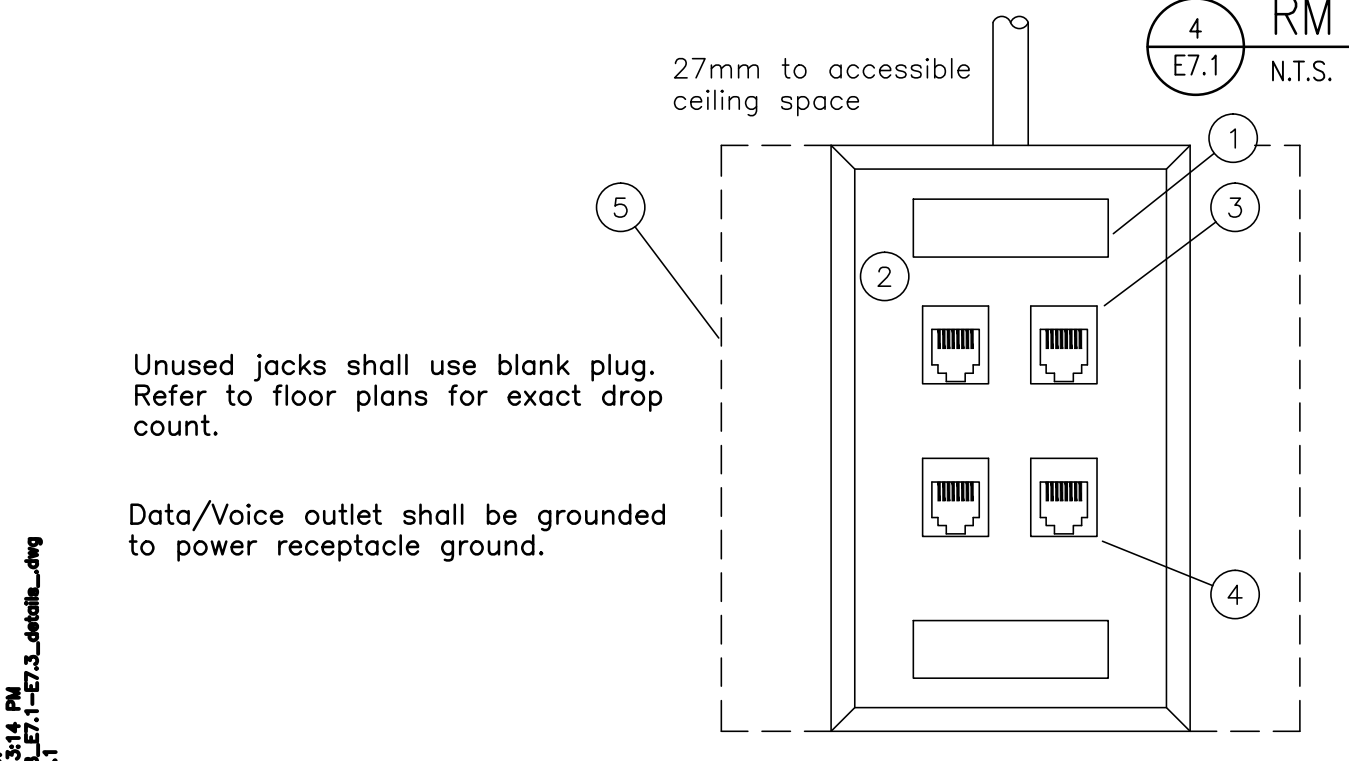
GENERAL NOTES:

1. TRENCH DETAIL INSTALLATION FOR DIRECT BURIED SERVICE CONDUCTORS SHALL COMPLY WITH CANADIAN ELECTRICAL CODE DIAGRAM B4-3 PER RULE 4-004 (1)(d). IF SPACING IS NOT ACCORDANCE WITH DIAGRAM B4-3, IEEE835 IS REQUIRED TO CONFIRM THE CABLE CAPACITY AS STATED IN RULE 4-004(1)(e).

3 TRENCH DETAIL
E7.1 N.T.S.



4 RM 150 & RM 149 DETAIL
E7.1 N.T.S.



OUTLET DETAIL

ITEM	DESCRIPTION	COLOUR
1	INTEGRATED LABEL	-
2	FACEPLATE	WHITE
3	RJ45 VOICE JACK (8 PIN) (CATEGORY 6A)	WHITE
4	RJ45 DATA JACK CATEGORY 6A	BLUE
5	100 x 100mm JUNCTION BOX WITH SINGLE GANG EXTENSION RING	
	BLANK PLUG	WHITE

Note:
From each data jack run one 4 pair #23 AWG UTP Category 6A loose through ceiling to tray, through tray to patch panel.
From each telephone jack run one 4 pair #23 AWG UTP Category 6A loose through ceiling to tray, through tray to patch panel.

- 1 TYPICAL DATA CABLE SUPPORT BRACKETS MOUNTED IN REAR OF EACH DATA PATCH PANEL. CABLES SHALL BE STRAPPED TO THE SUPPORT BRACKETS TO REDUCE STRAIN ON THE INCOMING CABLES.
- 2 FIELD OUTLET CABLES TO DATA/VOICE WALL OUTLETS AND WORKSTATIONS. ALL DATA/VOICE CABLES SHALL BE CATEGORY 6A (4 PAIR # 24 AWG FT4 RATED UTP.)
- 3 RUN DATA/VOICE CABLE WITHIN A SLOTTED DUCT CABLE MANAGEMENT SYSTEM EQUIPPED WITH REMOVABLE COVER.



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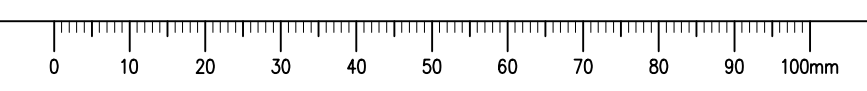
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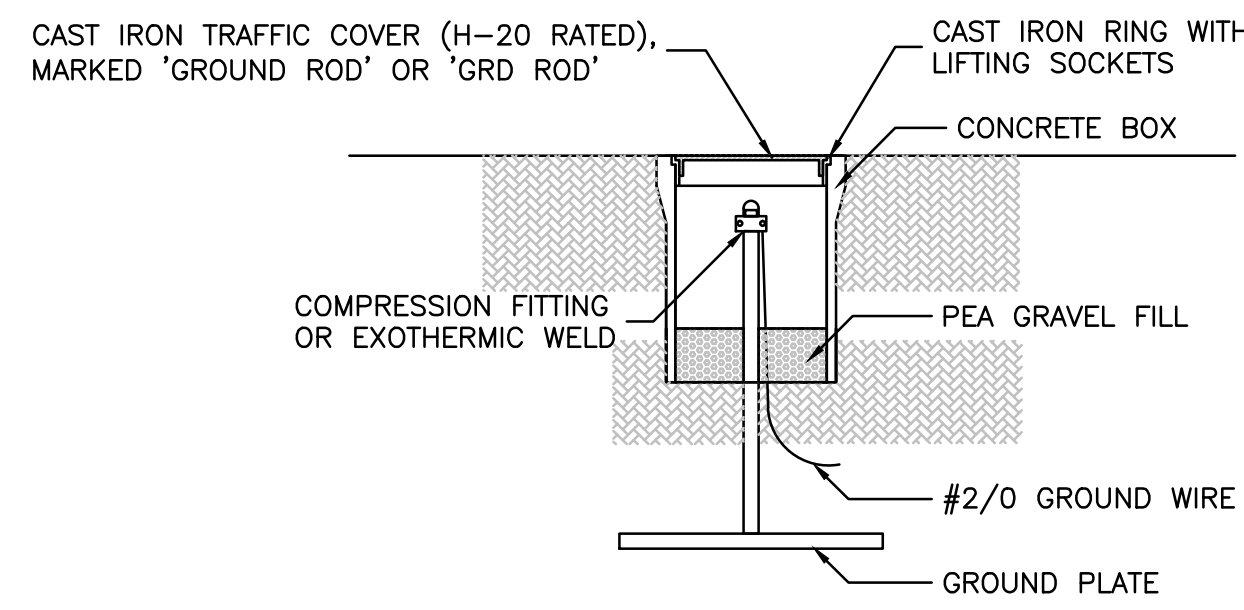
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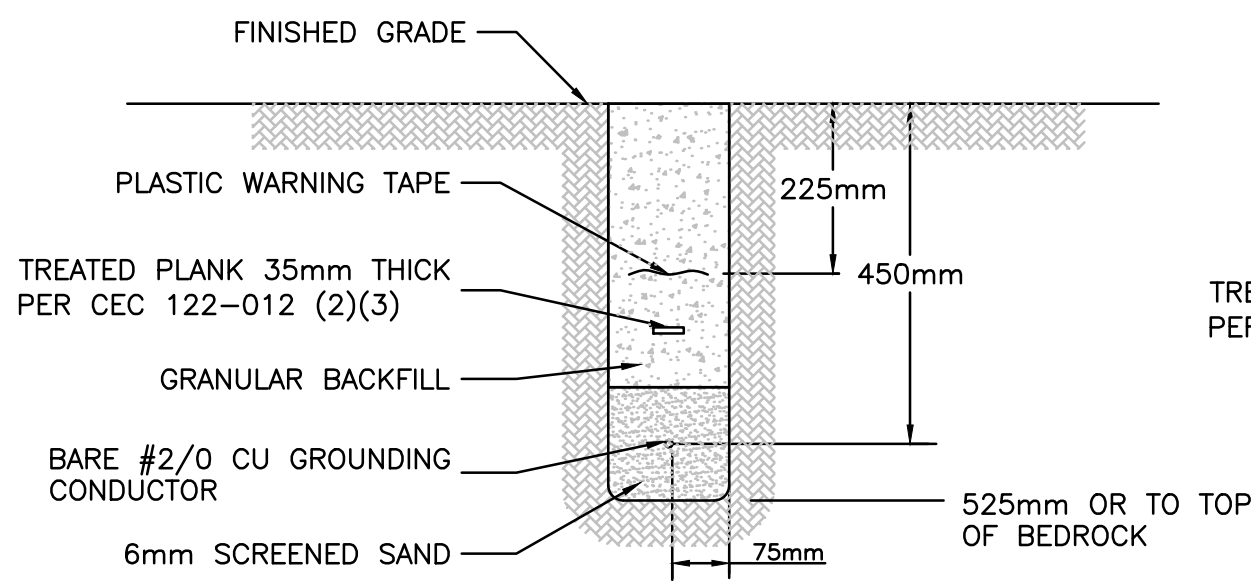
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Project No./No. du projet: S-03-2014
Sheet/Fauille: E7.1
Revision no./Le Revision no.

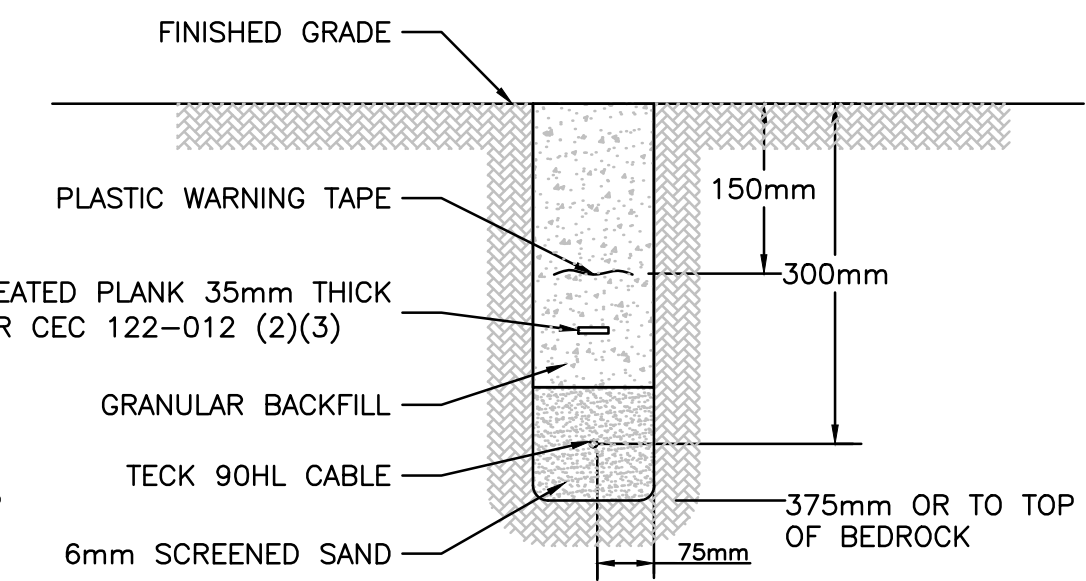




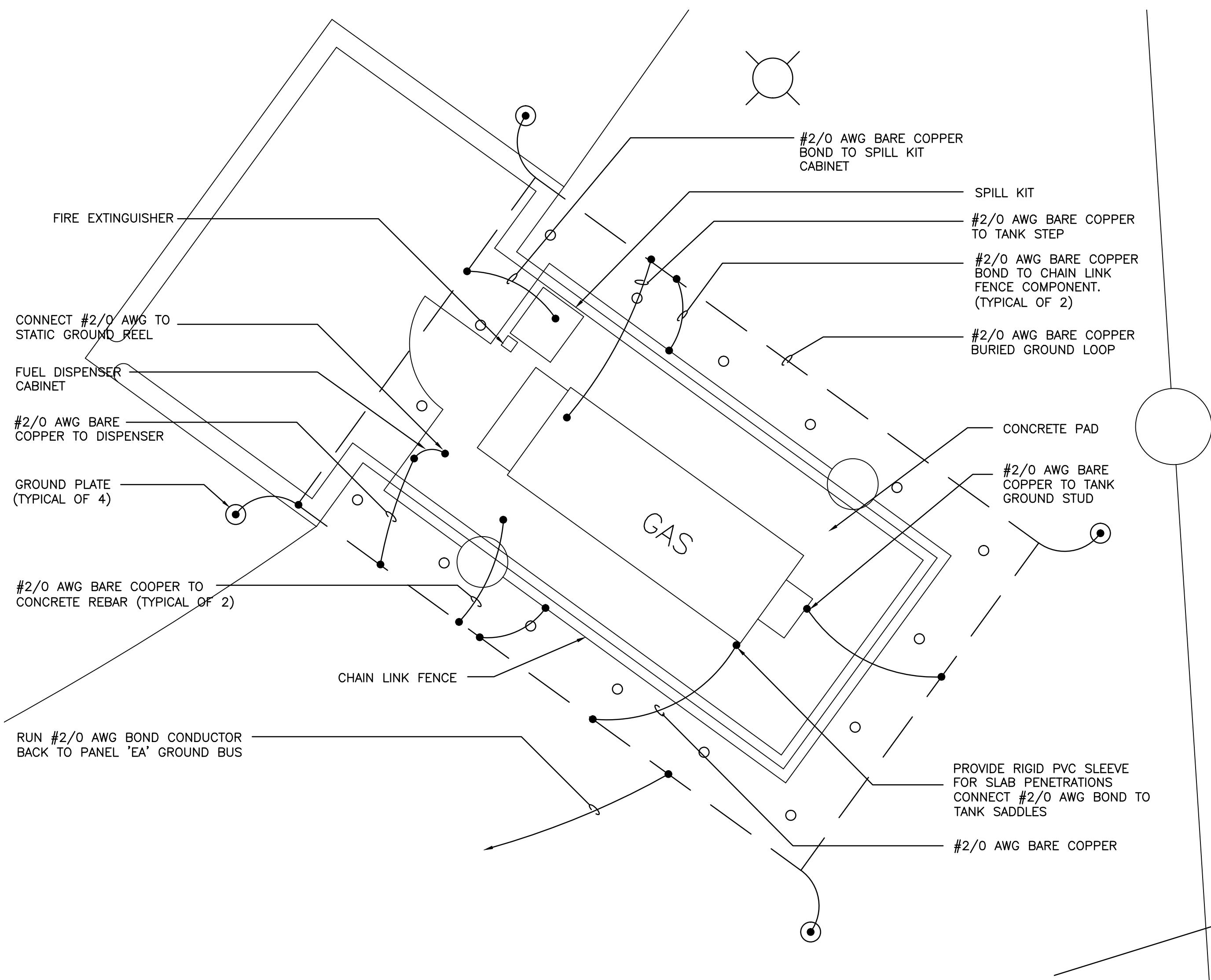
3 GROUND ROD DETAIL
E7.2 N.T.S.



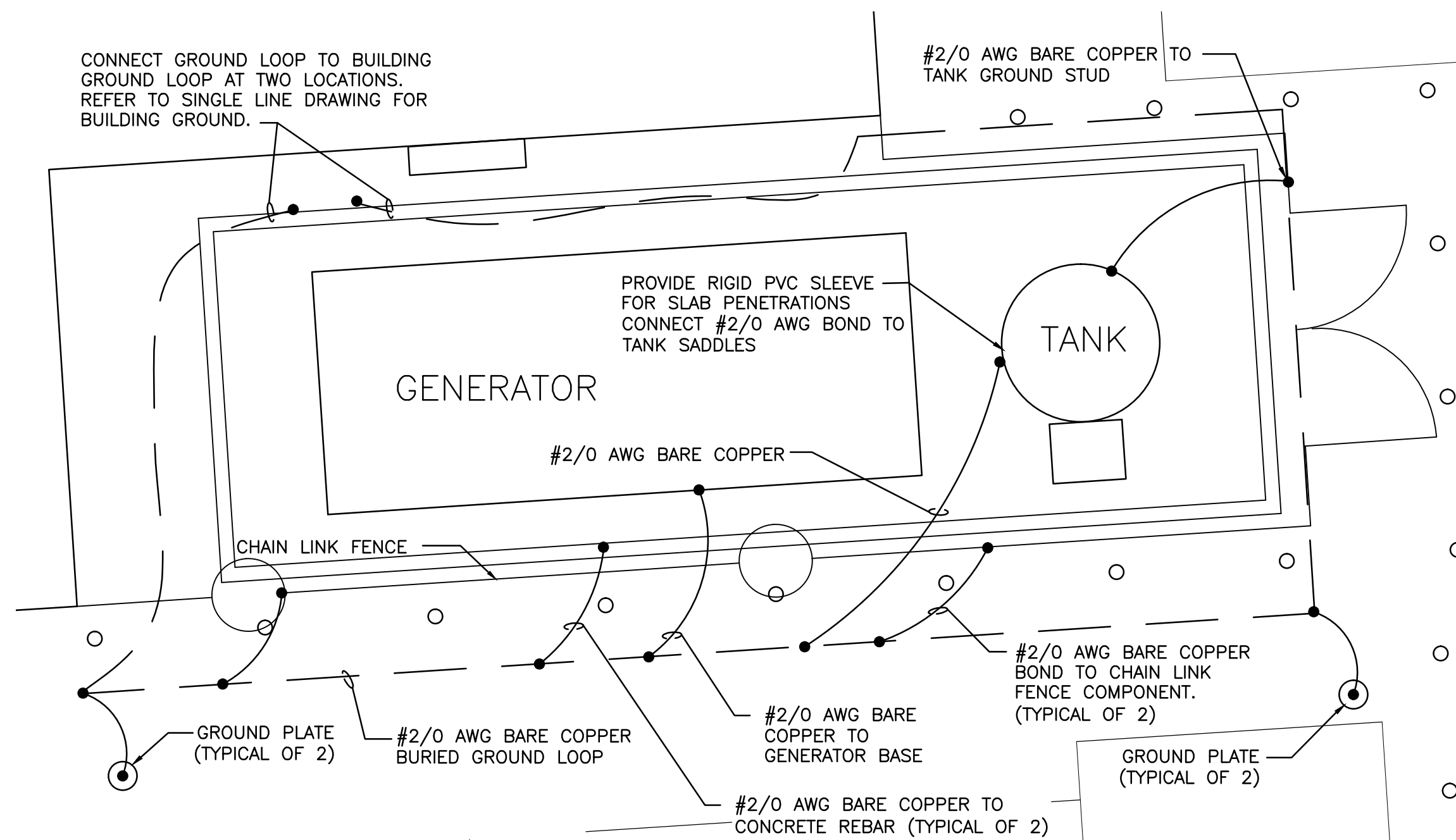
4 GROUND CONDUCTOR BURIAL DETAIL
E7.2 N.T.S.



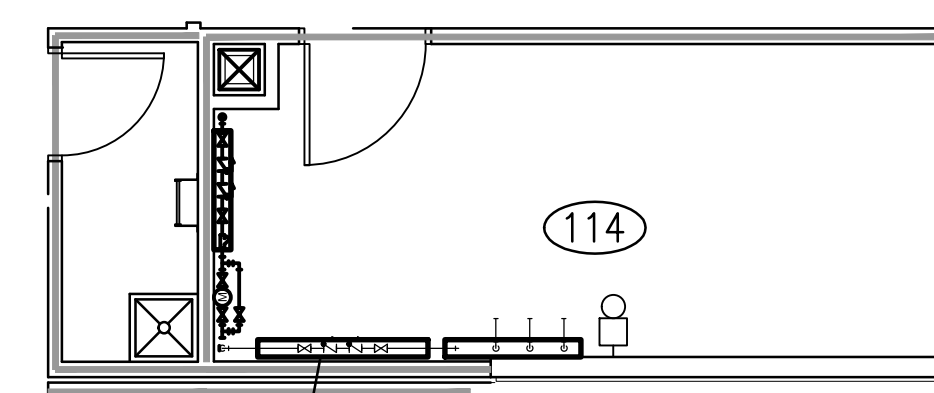
5 CABLE BURIAL DETAIL
E7.2 N.T.S.



2 FUEL STORAGE GROUND GRID DETAIL
E7.2 1:50



6 GENERATOR FUEL STORAGE GROUND GRID DETAIL
E7.2 1:50



1 SPRINKLER TREE FIRE ALARM DETAIL
E7.2 N.T.S.

SPRINKLER TREE FIRE ALARM NOTES
(REFER TO MECHANICAL SPRINKLER DETAIL)

- L1-206, 207, 208, 209 $\nabla \nabla \nabla \nabla$ BACK FLOW TAMPER SWITCHES.
- L1-205 \square SPRINKLER PRESSURE SWITCH.
- L1-210, 211 $\nabla \nabla$ MAIN SPRINKLER SHUT-OFF VALVE & MAIN SPRINKLER FLOW VALVE.
- L1-212, 213 $\nabla \nabla$ MAIN FLOOR ZONE CONTROL VALVE & FLOW SWITCH.
- L1-214, 215 $\nabla \nabla$ MAIN FLOOR ZONE CONTROL VALVE & FLOW SWITCH.
- L1-216, 217, 218, 219 $\nabla \nabla \nabla \nabla$ METER SHUT-OFF VALVE & FLOW SWITCH.
- L1-220, 221 $\nabla \nabla$ MAIN INCOMING SHUT-OFF TAMPER SWITCH.
- \square PROVIDE 120 EMERGENCY VOLT CIRCUIT FOR WATER GONG.



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Project title/Titre du projet

NEW MODULAR POLICE BUILDING
AND EMPLOYEE HOUSING
BLACK LAKE, SASKATCHEWAN

Approved by/Approve par

Designed by/Concept par

Drawn by/Dessine par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie

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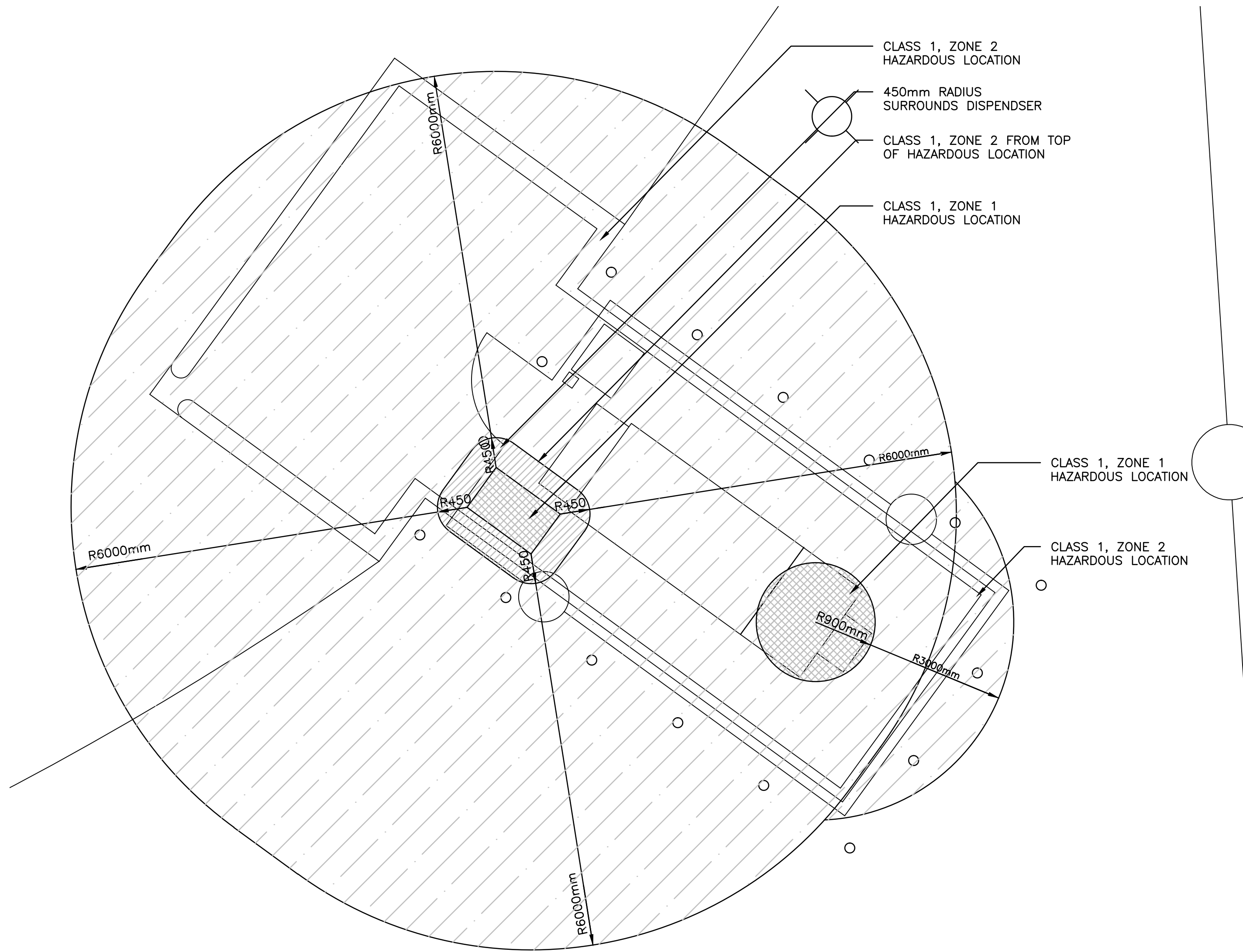
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projet
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La Révision
no.

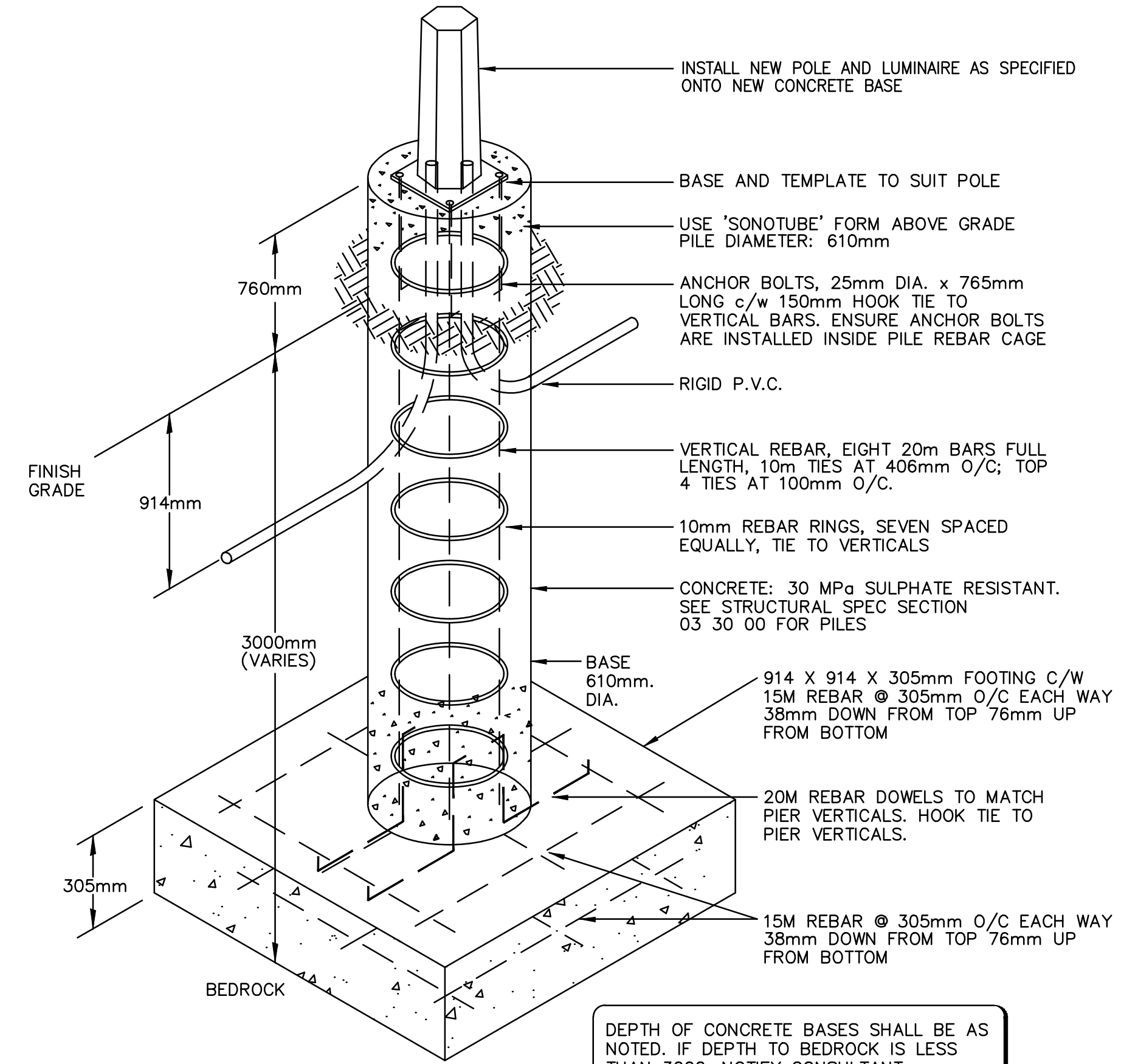


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LAYOUT NAME: E7.2



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E7.3
1:50

FUEL STORAGE HAZARDOUS AREA CLASSIFICATION



PL1 LIGHT POLE, BASE AND SINGLE LUMINAIRE SHOWN THUS.

2
E7.3
SITE LIGHTING POST & BASE DETAIL
N.T.S.



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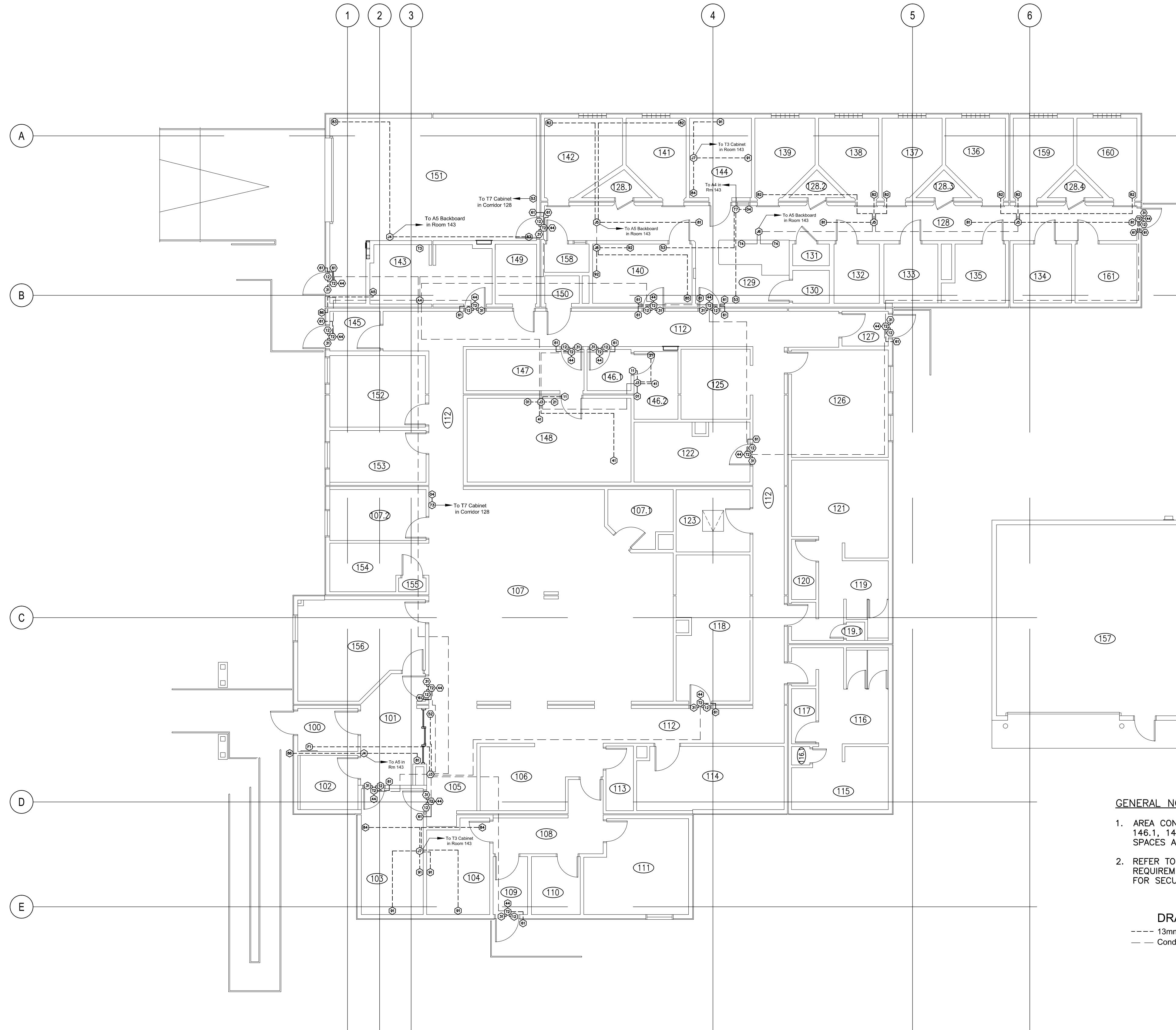
Drawing title/Titre du dessin

ELECTRICAL DETAILS

Project No./No. du projet S-03-2014	Sheet/Fauille E7.3	Revision no./ La Revision no.
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GENERAL NOTES:

1. AREA CONDUIT RUNS SHALL NOT CROSS THROUGH ROOMS 146.1, 146.2, 147, AND 148. ONLY CONDUITS SERVING THESE SPACES ARE PERMITTED TO PENETRATE THE SPACE.
2. REFER TO SPECIFICATIONS 28 22 00 FOR POWER REQUIREMENTS. REFER TO PANEL SCHEMATICS FOR CIRCUITRY FOR SECURITY SYSTEM RECEPTACLES.

DRAWING LEGEND

- 13mm Conduit unless specified otherwise
- - - Conduit sized to fit cables unless specified otherwise

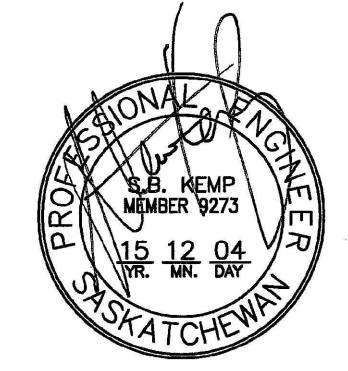


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E8.1
1:100
MAIN AND SERVICE SPACE FLOOR PLAN

DRAWING NUMBER: 100414
 FILE NAME: S-03-14-ES-1-ES-1-ES-1.dwg
 DATE: 2015-12-04

SEPW Architecture Inc.
 101 - 2725 Praeger Street, Regina, SK S4S 0R8 (403) 589-2255
 1210 - 1214 Kiewit Place, Saskatoon, SK S7N 0A8 (306) 952-4427
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 4300-2222 Albert Street, Regina, SK S4P 2V2
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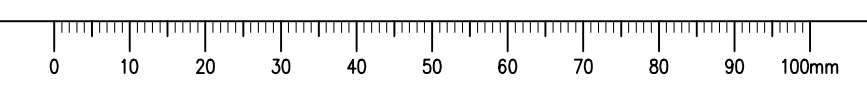
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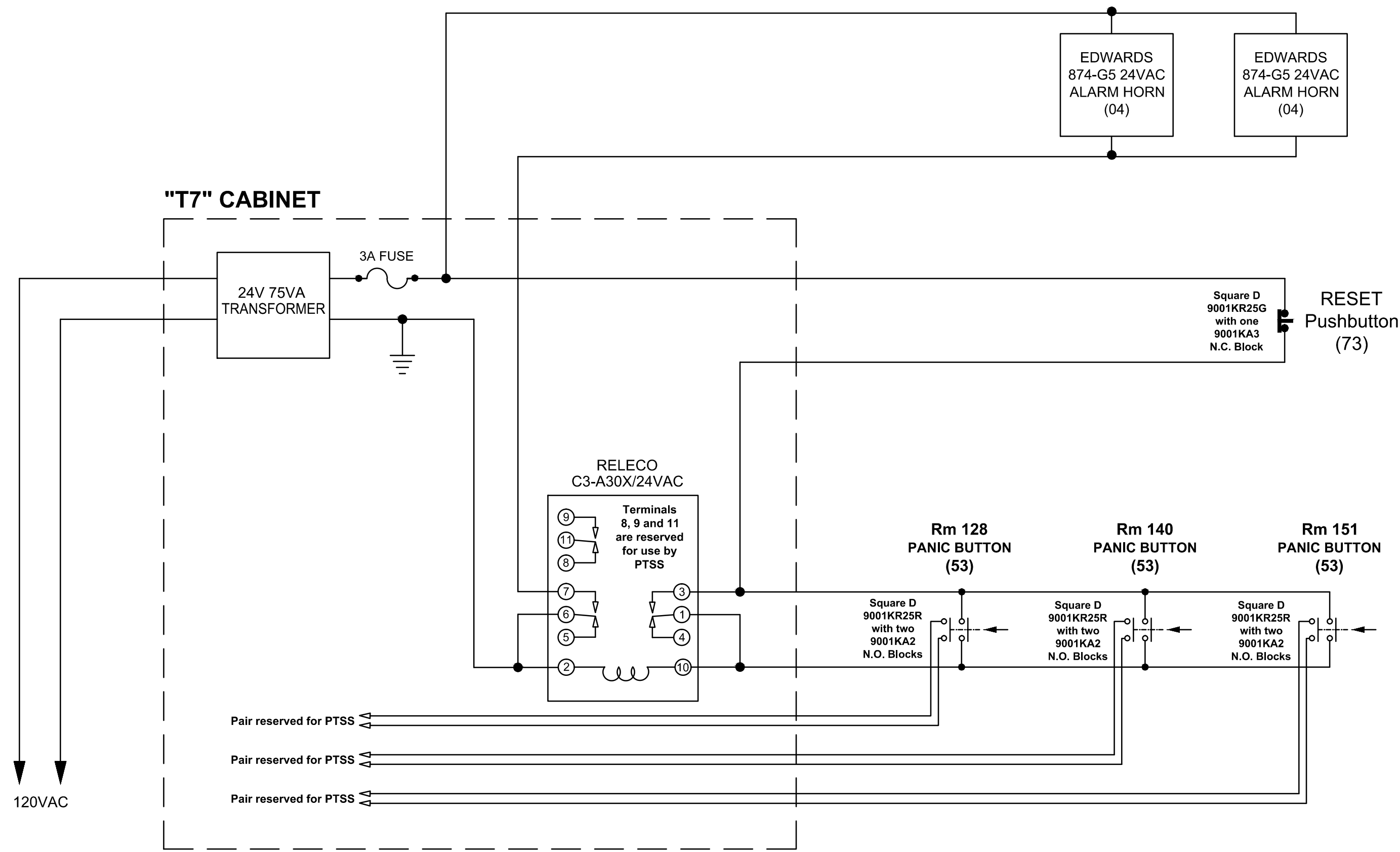
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**CCTV - ALARM SYSTEMS AND
 ACCESS CONTROL CONDUIT
 ROUGH IN PLAN**

Project No./No. de projet S-03-2014	Sheet/Fauille E8.1	Revision no./ La Révision no.
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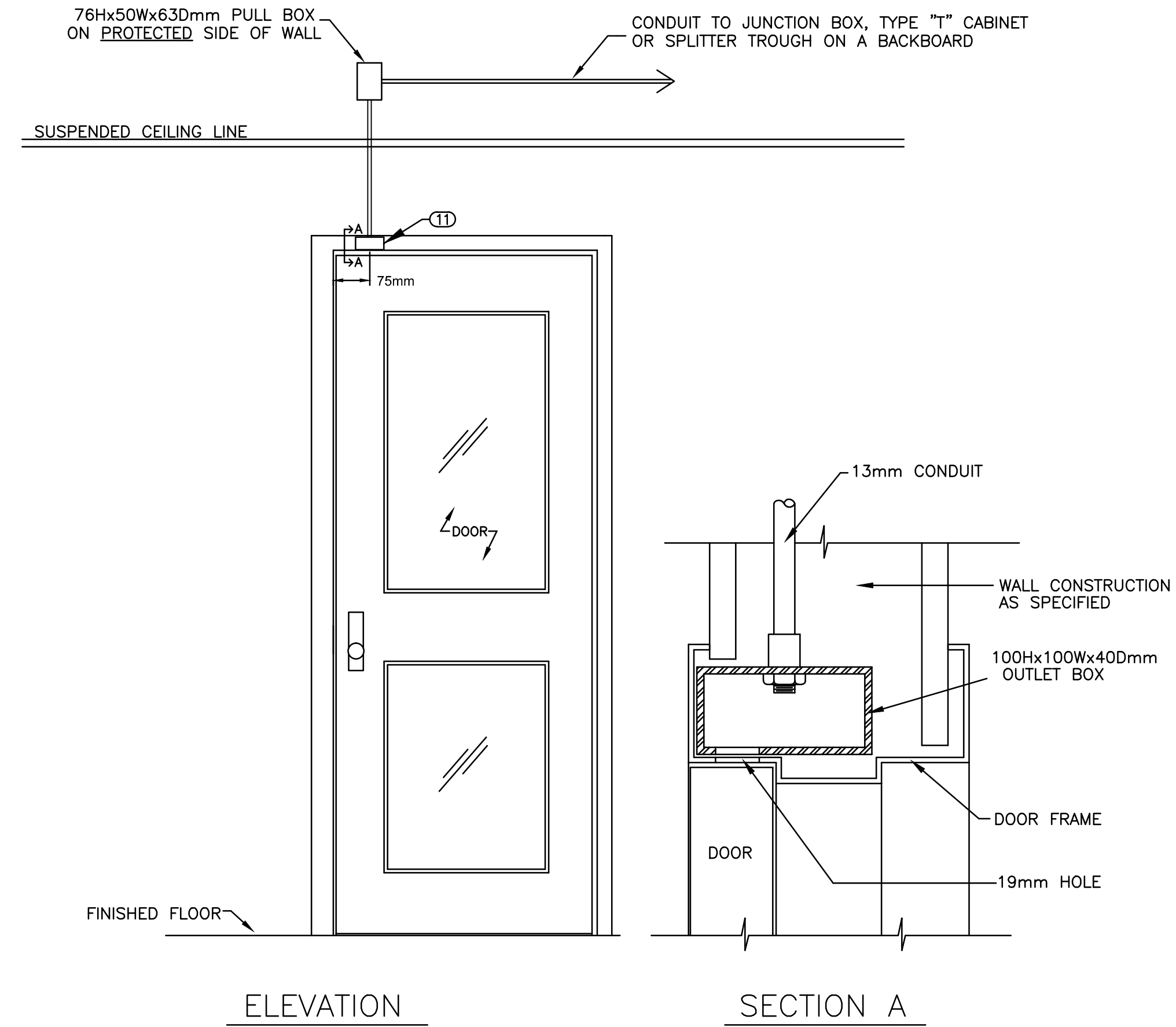
SCHEMATIC - RIOT ALARM



file: 'data\acad\Schematics\Riot Alarm as of 2014-06-27

1 SCHEMATIC - RIOT ALARM
EB.2 N.T.S.

PROTECTED DOOR - ELEVATION OF SINGLE DOOR WITH DOOR CONTACT



NOTES:

- CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO THE OUTLET BOX BY DOOR FRAME FABRICATOR.
- OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.
- DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

SCALE: N.T.S.

2 ELEVATION OF SINGLE DOOR WITH DOOR CONTACT
EB.2 N.T.S.



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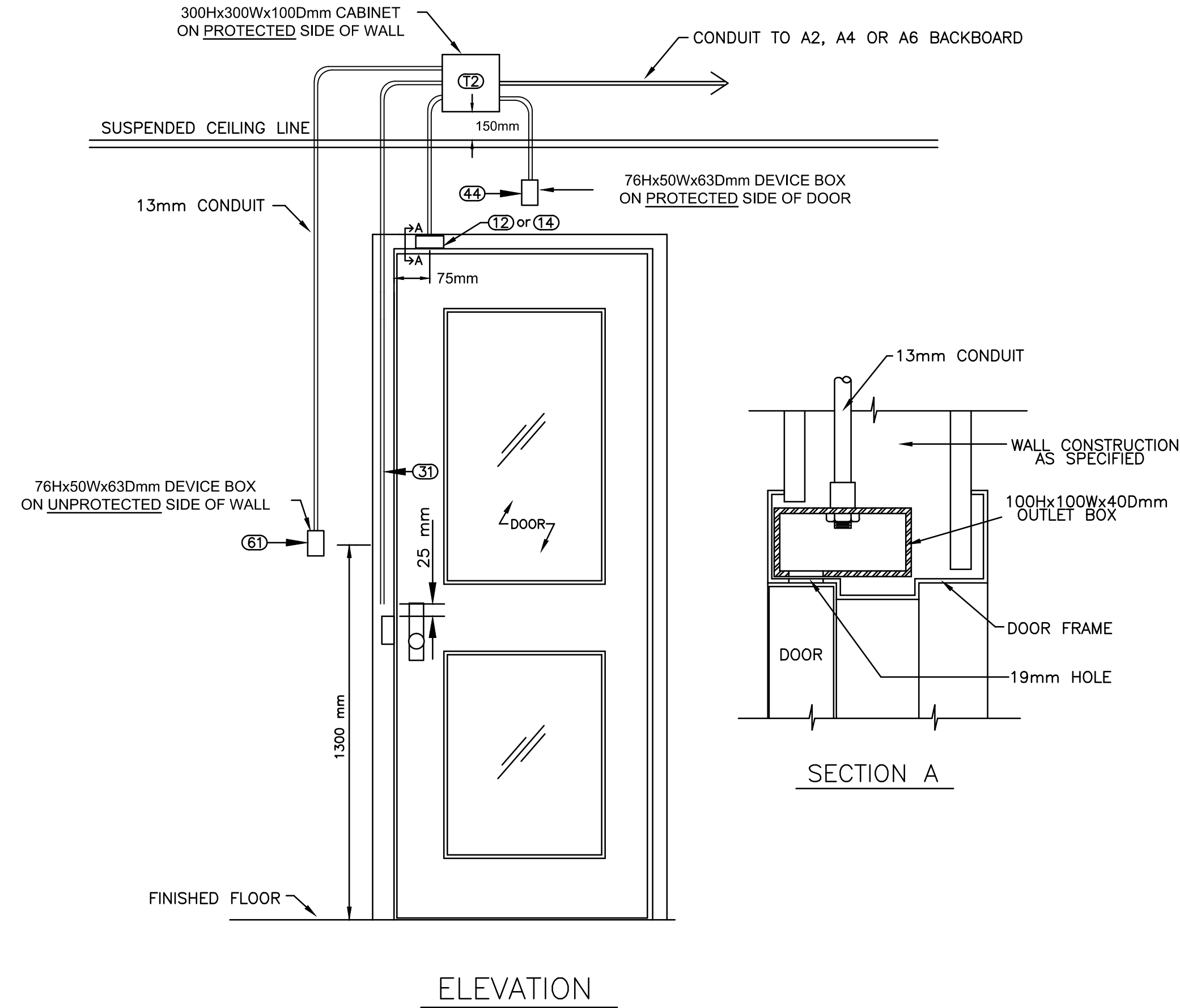
Drawing title/Titre du dessin

CCTV - ALARM SYSTEMS AND
ACCESS CONTROL DETAILS

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
S-03-2014	E8.2	



ACCESS CONTROL – ELEVATION OF SINGLE DOOR WITH DOOR CONTACT, WALL MOUNTED READER AND ELECTRIC STRIKE



NOTES:

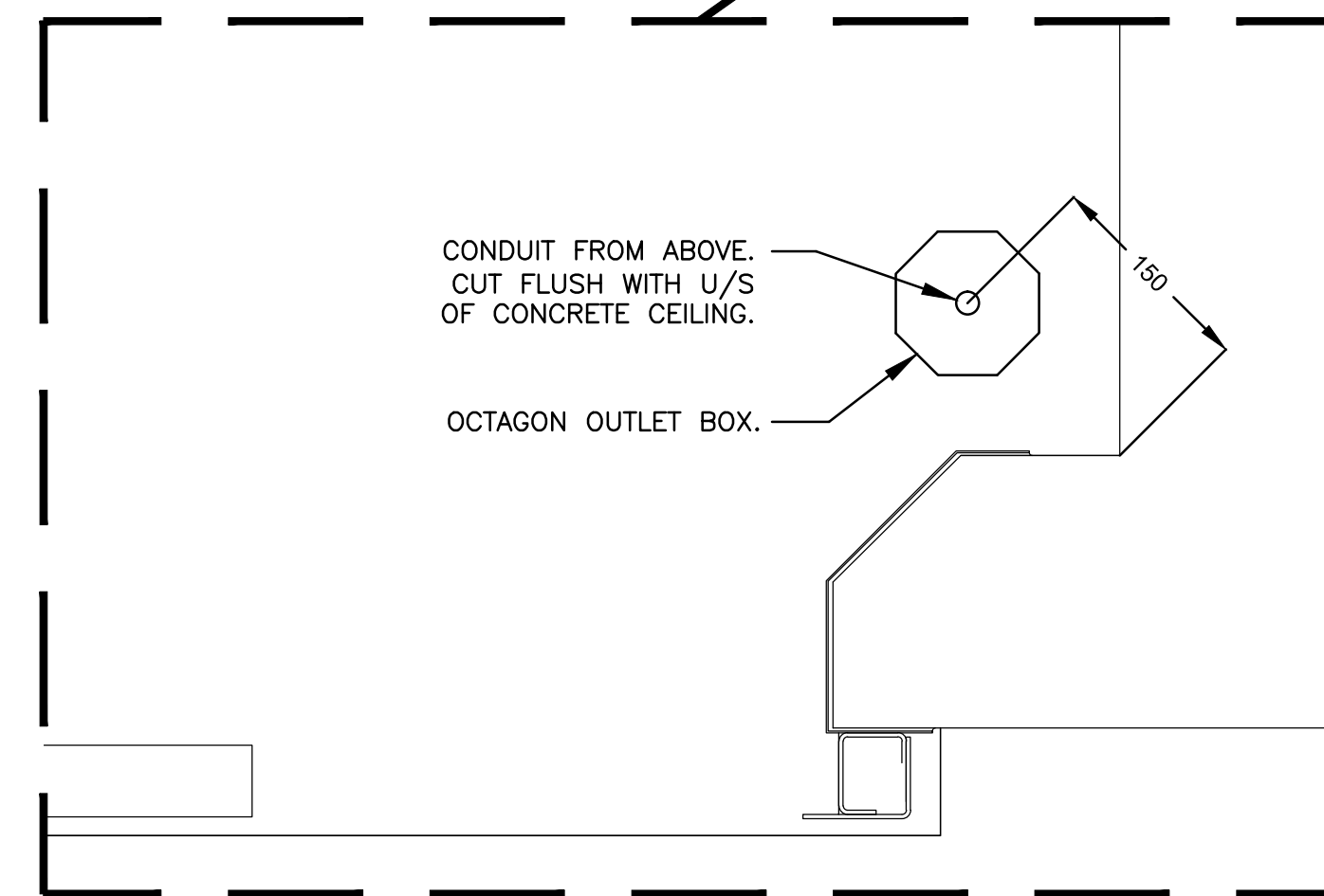
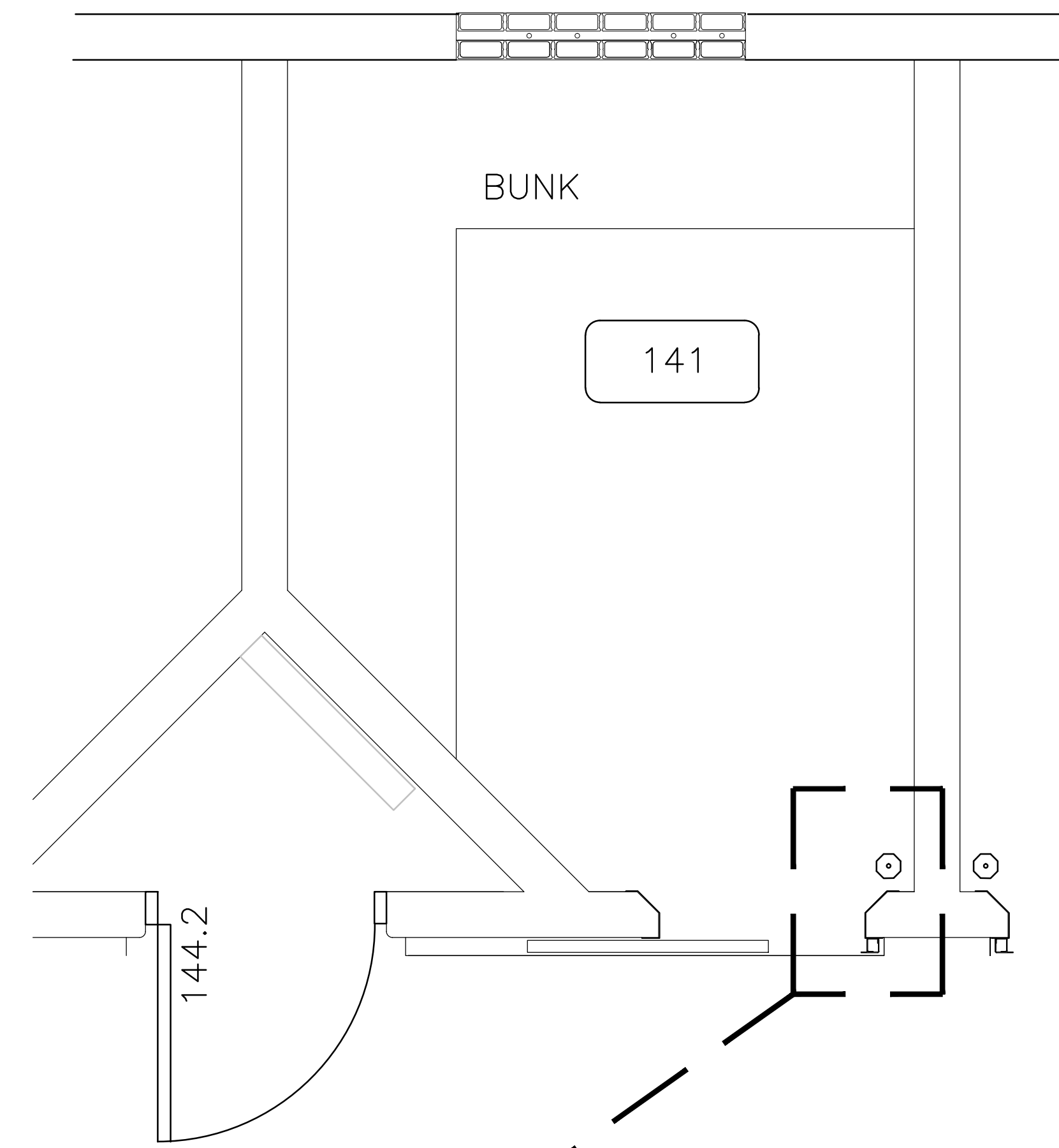
CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.

OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.

DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.

SCALE: N.T.S.

1 ACCESS CONTROL DETAIL
E8.3 N.T.S.



2 CCTV – OCTAGON BOX FOR CORNER MOUNT DOME CAMERA
E8.3 N.T.S.



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CCTV - ALARM SYSTEMS AND ACCESS CONTROL DETAILS

Project No./No. du projet: S-03-2014
Sheet/Fauille: E8.3
Revision no./La Révision no.:



DRAWING NUMBER: 10044
FILE NAME: S-03-2014-E8.3.dwg
DATE: 2015-12-04

