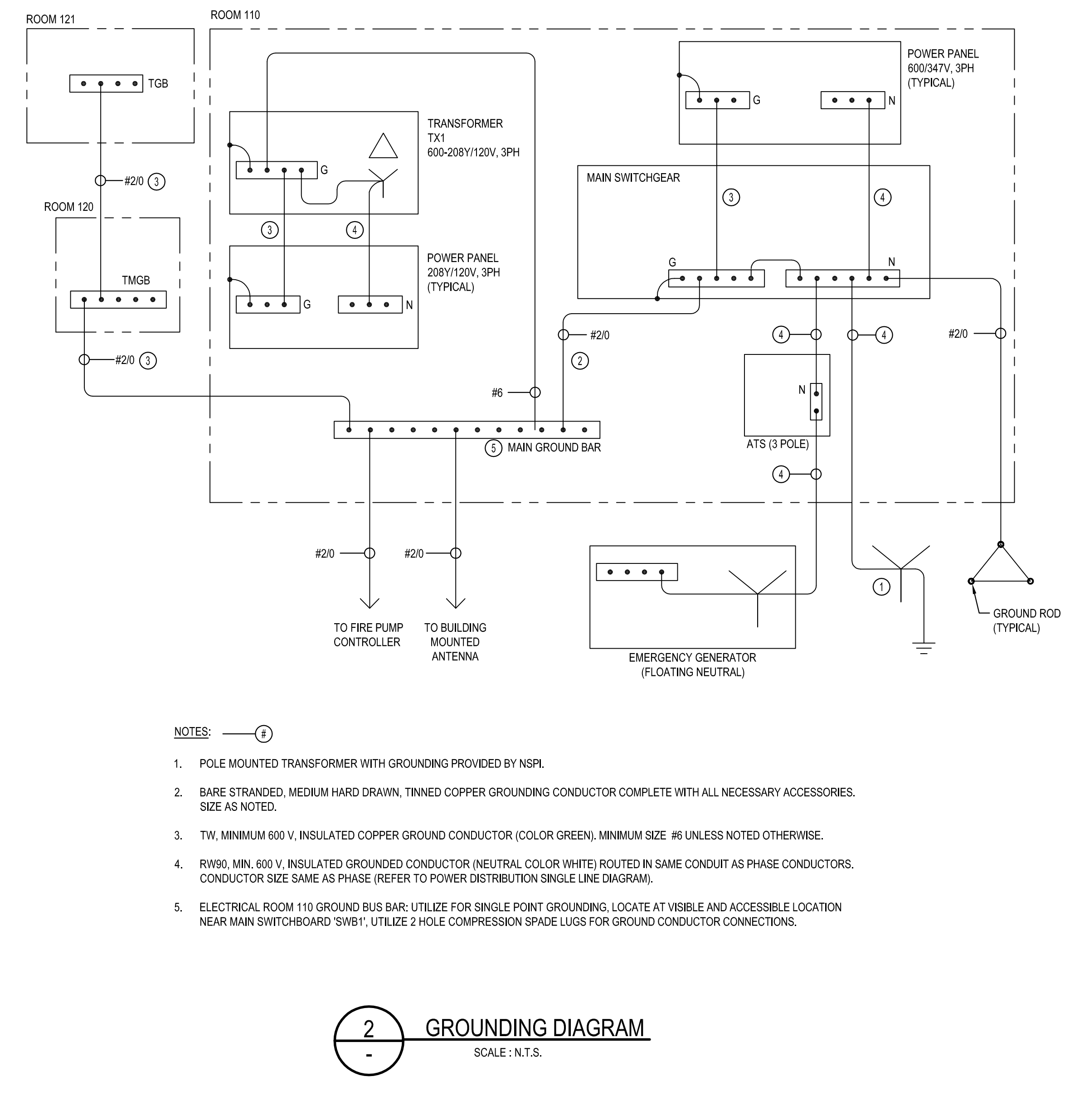


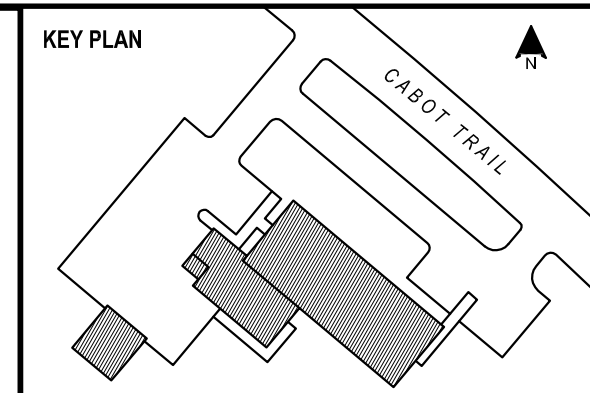
1 POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.



- NOTES:**
- POLE MOUNTED TRANSFORMER WITH GROUNDING PROVIDED BY NSPI.
 - BARE STRANDED, MEDIUM HARD DRAWN, TINNED COPPER GROUNDING CONDUCTOR COMPLETE WITH ALL NECESSARY ACCESSORIES. SIZE AS NOTED.
 - TW, MINIMUM 600 V, INSULATED COPPER GROUND CONDUCTOR (COLOR GREEN), MINIMUM SIZE #6 UNLESS NOTED OTHERWISE.
 - RW90, MIN. 600 V, INSULATED GROUNDED CONDUCTOR (NEUTRAL COLOR WHITE) ROUTED IN SAME CONDUIT AS PHASE CONDUCTORS. CONDUCTOR SIZE SAME AS PHASE (REFER TO POWER DISTRIBUTION SINGLE LINE DIAGRAM).
 - ELECTRICAL ROOM 110 GROUND BUS BAR: UTILIZE FOR SINGLE POINT GROUNDING. LOCATE AT VISIBLE AND ACCESSIBLE LOCATION NEAR MAIN SWITCHBOARD 'SWB1'; UTILIZE 2 HOLE COMPRESSION SPADE LUGS FOR GROUND CONDUCTOR CONNECTIONS.

2 GROUNDING DIAGRAM
SCALE: N.T.S.

- NOTES:**
- COORDINATE WITH UTILITY FOR THE SUPPLY OF PT'S AND CT'S.
 - FIRE PUMP CIRCUIT BREAKER SHALL BE LABELED AND LOCKABLE IN CLOSED POSITION.
 - CIRCUIT BREAKER SIZE AS PER MANUFACTURER'S RECOMMENDATIONS.
 - EQUIPMENT ARE LOCATED IN MAIN ELECTRICAL ROOM UNLESS NOTED OTHERWISE.



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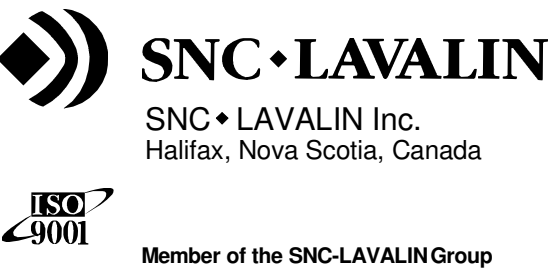
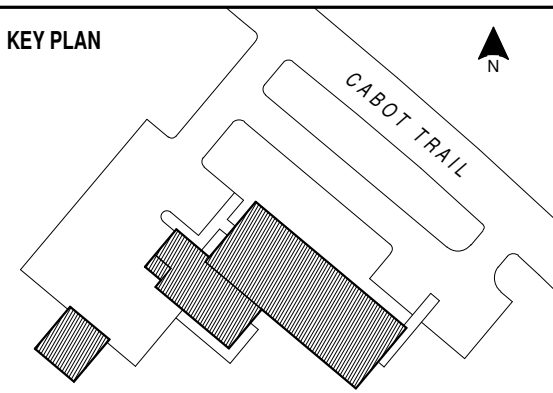
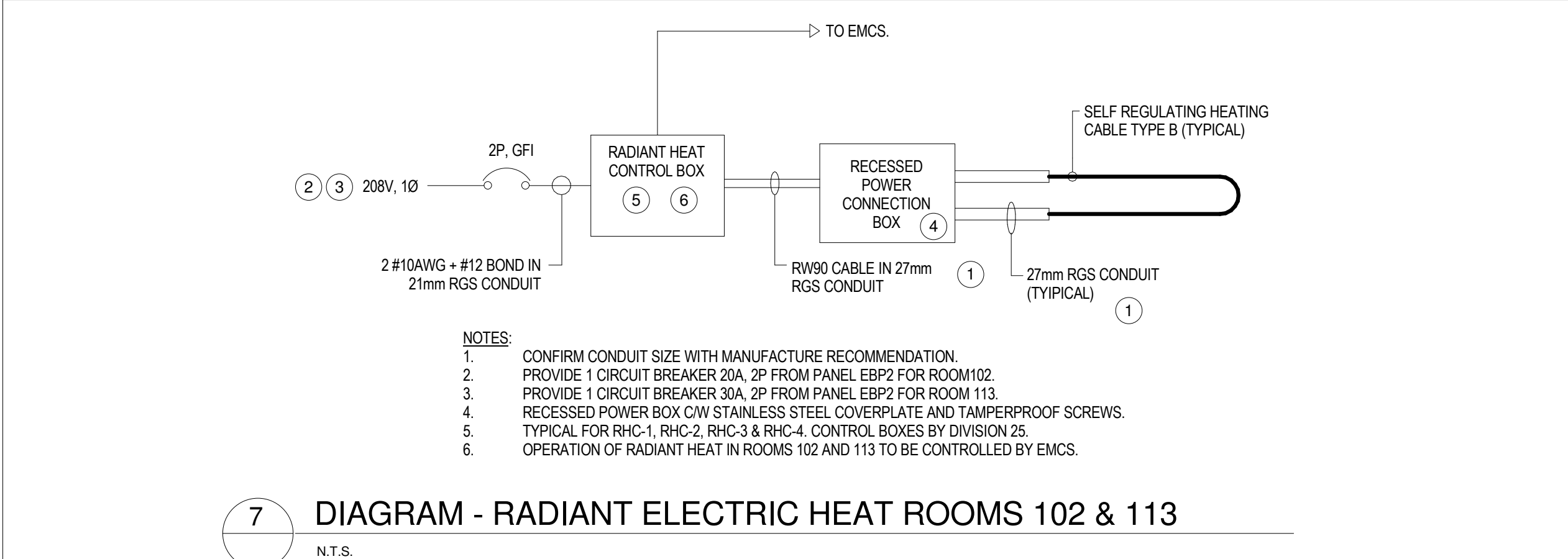
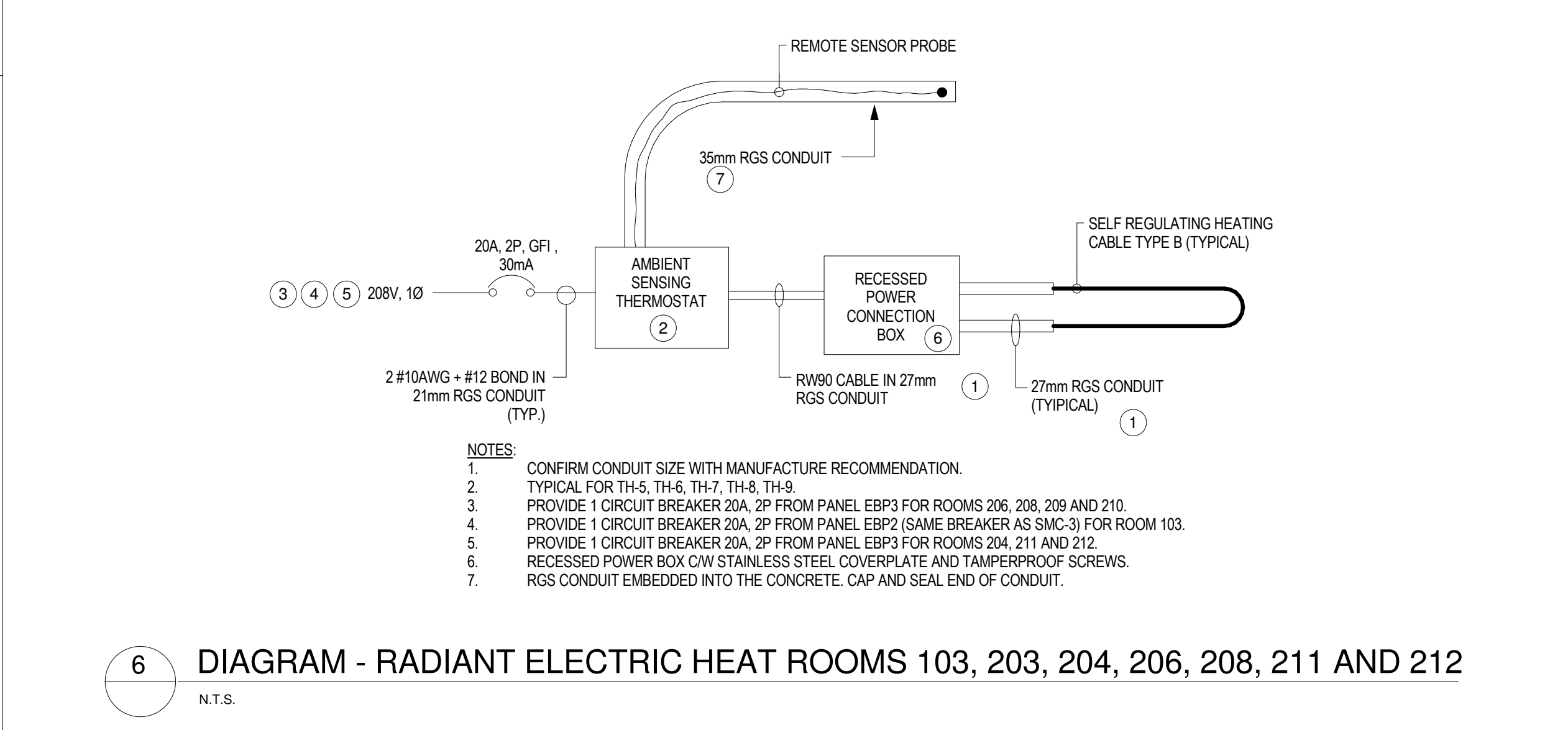
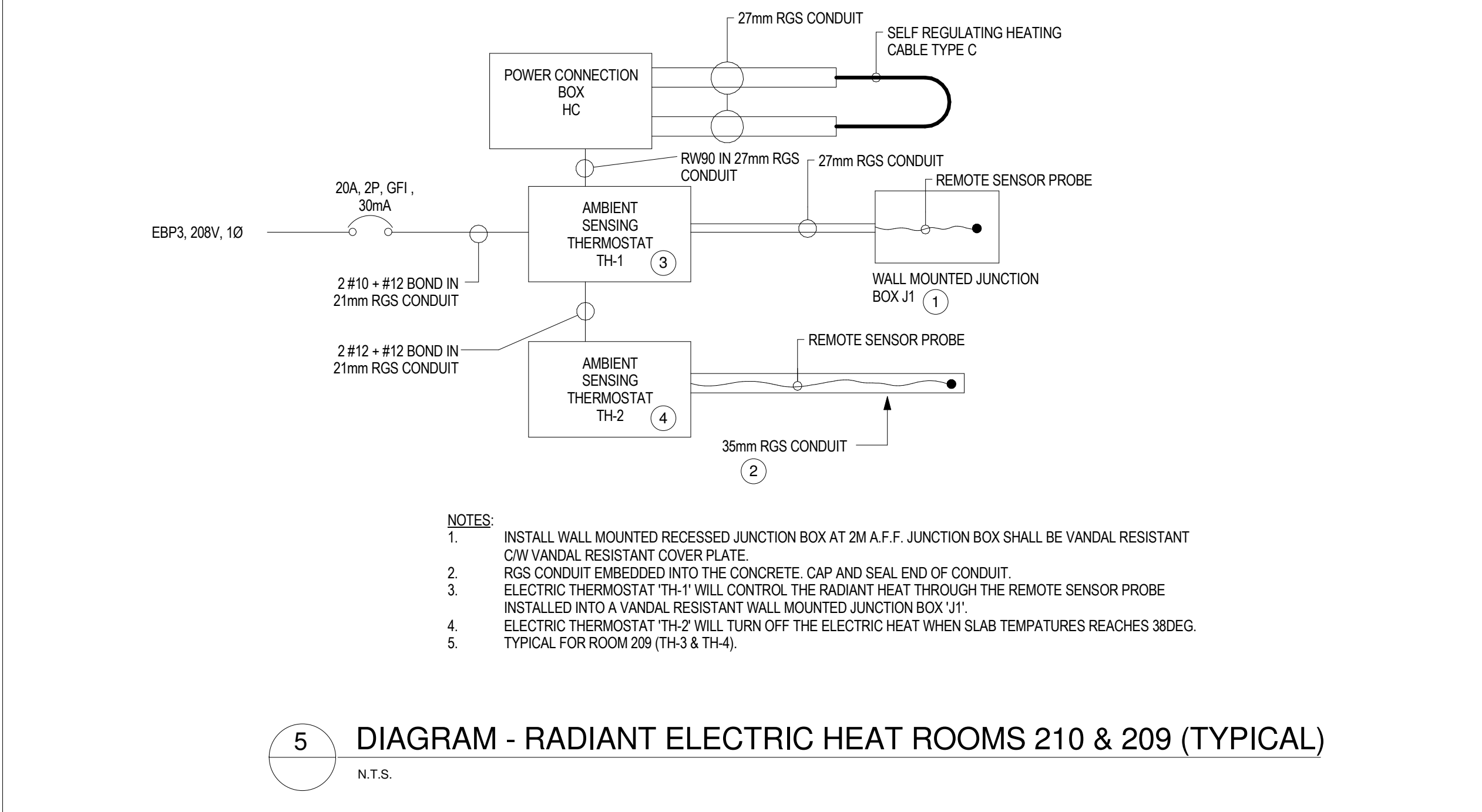
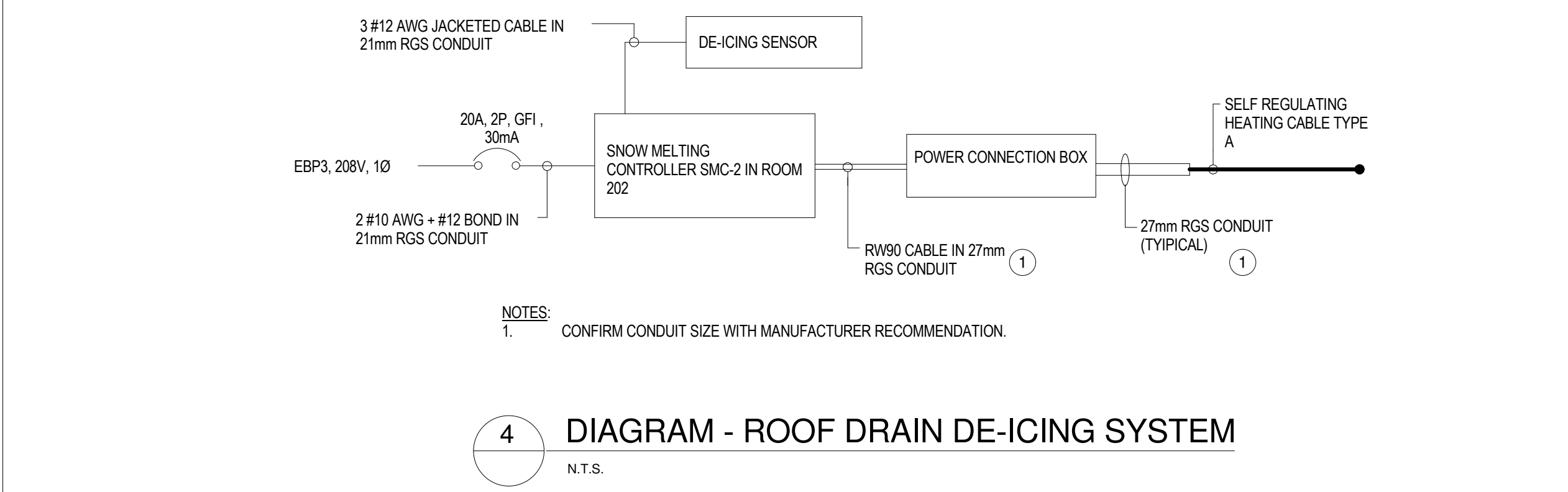
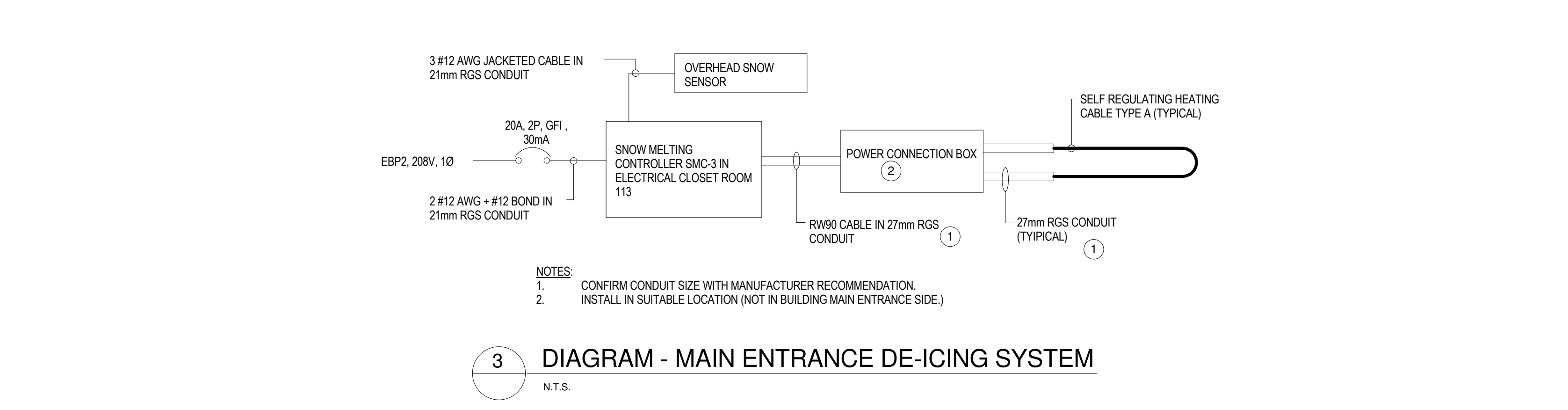
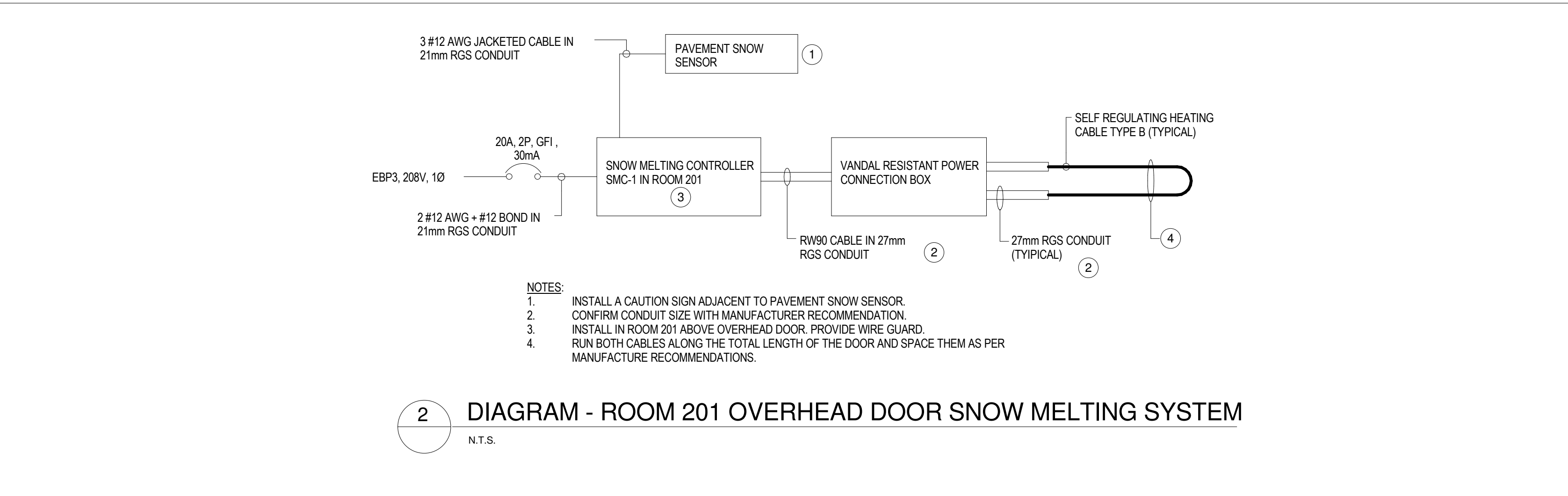
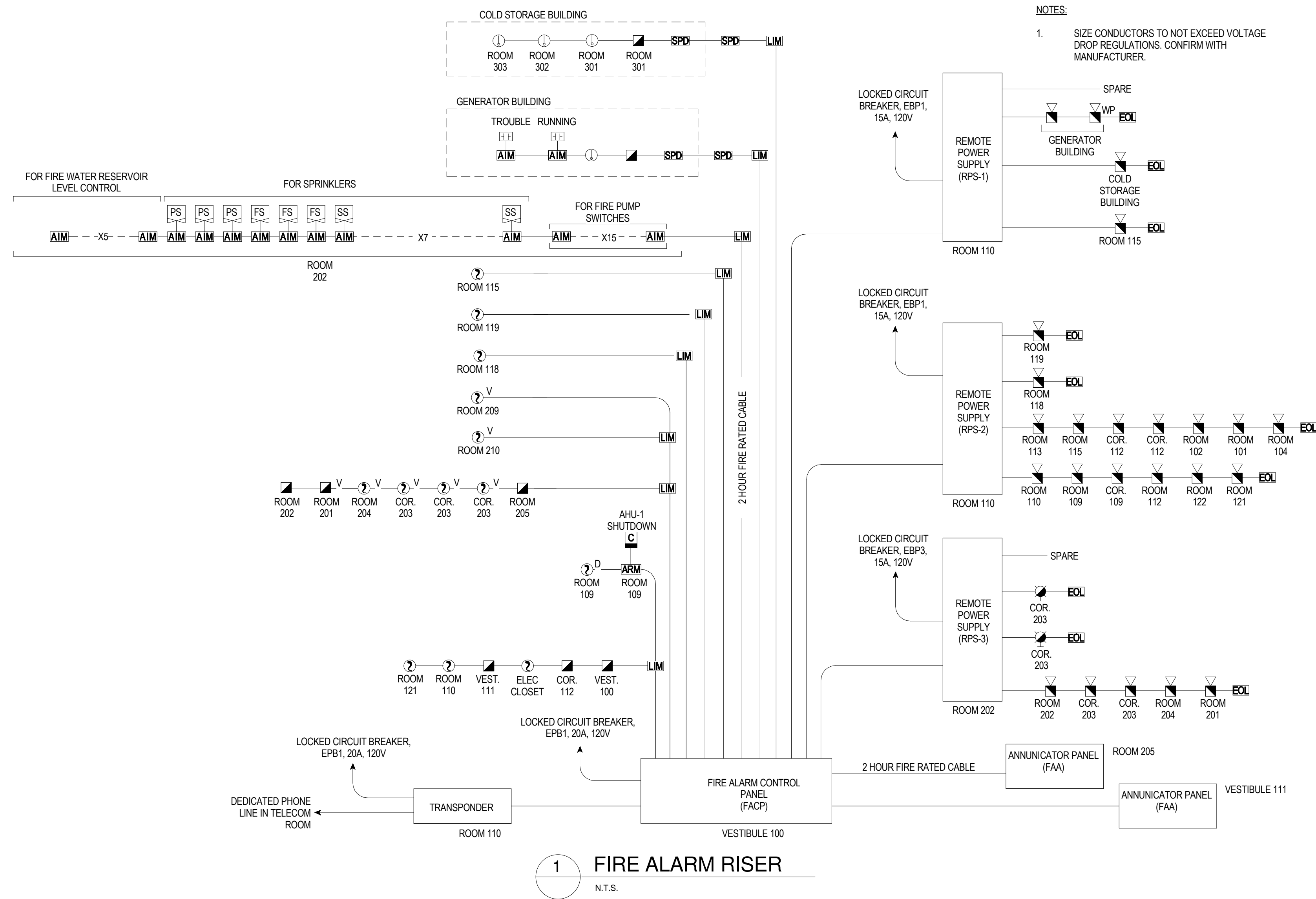
Project Address

DSRA JOB #: 12169

DRAWN BY: STAFF

CHECKED BY: H.B./J.L.

SCALE: AS INDICATED



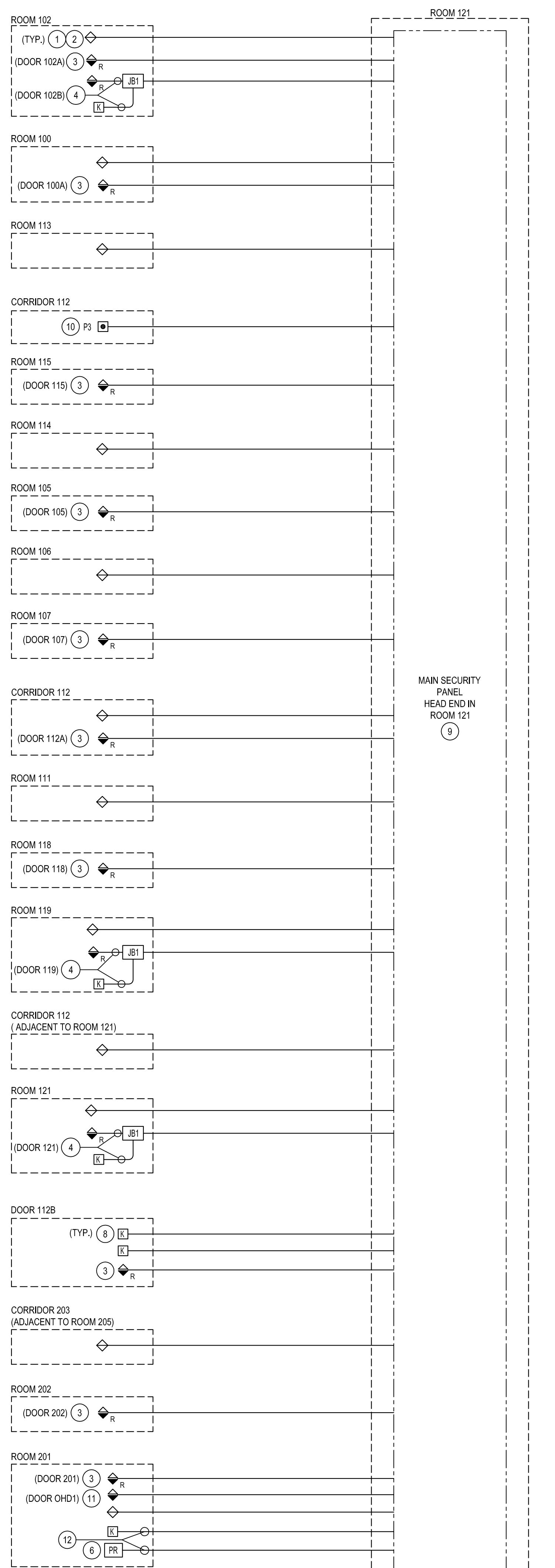
NOTES:
1. SEE DRAWING 516 FOR ELECTRIC RADIANT HEATING AND DE-ICING SYSTEM LAYOUT.

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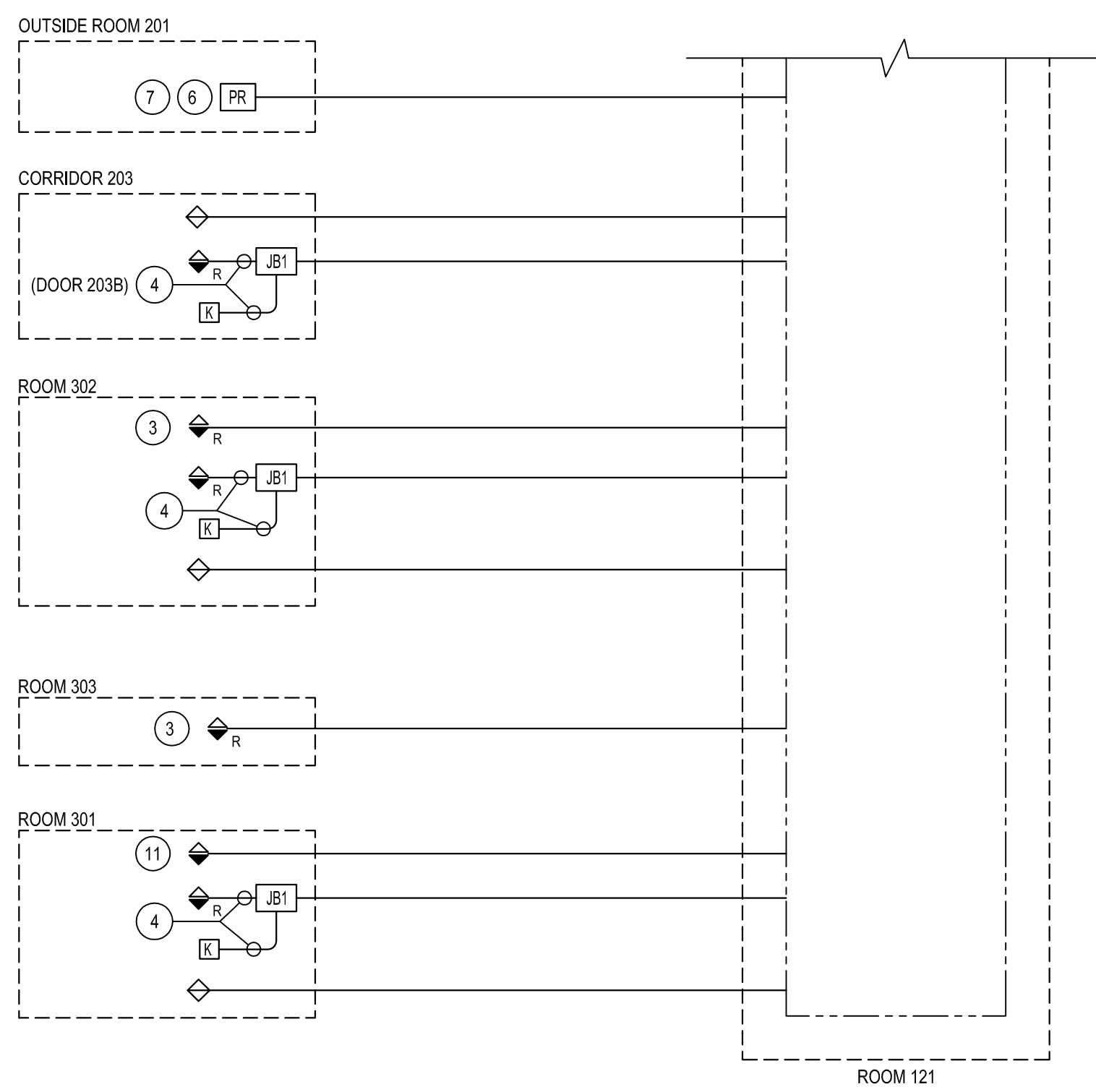


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| INGONISH, NS | |
| DSRA JOB #: | 12169 |
| DRAWN BY: | STAFF |
| CHECKED BY: | H.B. / J.L. |
| SCALE: | N.T.S. |

DIAGRAMS AND FIRE ALARM RISER



MAIN SECURITY PANEL HEAD END IN ROOM 121

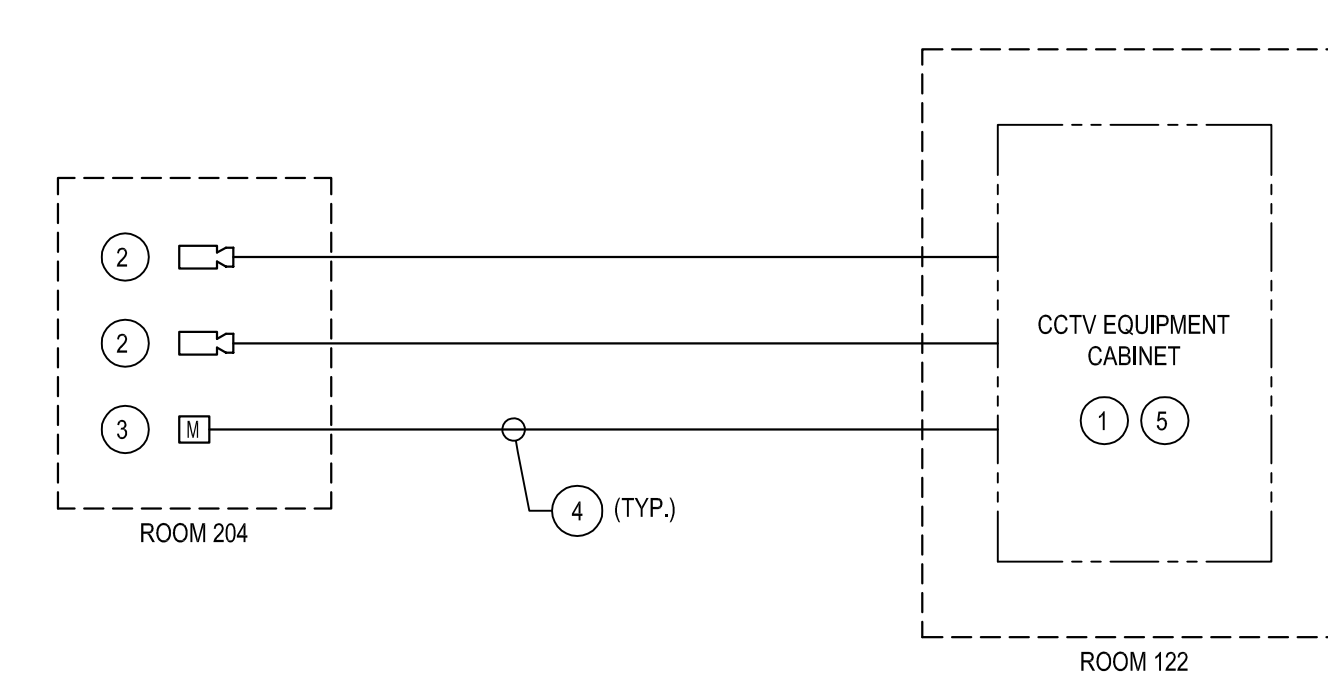


- NOTES:**
1. TERMINATE MOTION DETECTOR WITHIN A SINGLE GANG JUNCTION BOX MOUNTED AT 2286mm A.F.F. USE 4 CONDUCTOR 22 AWG SOLID Z STATION UNSHIELDED CABLE IN 21mm EMT CONDUIT FOR EACH MOTION DETECTOR.
 2. RUN ALL CABLES IN CONDUIT BACK TO SECURITY PANEL IN ROOM 121. LEAVE 2m OF COILED CABLE AT SECURITY PANEL LOCATION. CONDUIT SHALL BE HOME RUN FOR EACH MOTION DETECTOR.
 3. FOR DEVICE LOCATIONS REFER TO DETAIL 1 ON DRAWING 524, DOOR TYPE 'B'.
 4. FOR DEVICE LOCATIONS REFER TO DETAIL 4 ON DRAWING 524, DOOR TYPE 'D'.
 5. TERMINATE CARD READER WITHIN A SINGLE GANG JUNCTION BOX MOUNTED AT 1372mm A.F.F. USE 8 CONDUCTOR 22 AWG INDIVIDUALLY COLORED STRANDED WITH OVERALL SHIELD CABLE IN 21mm PVC CONDUIT.
 6. RUN ALL CABLES IN CONDUIT BACK TO SECURITY PANEL IN ROOM 121. LEAVE 2m OF COILED CABLE AT SECURITY PANEL LOCATION. CONDUIT SHALL BE HOME RUN FOR EACH CARD READER.
 7. TERMINATE CARD READER WITHIN A SINGLE GANG JUNCTION BOX MOUNTED ON PEDESTAL. USE 8 CONDUCTOR 22 AWG INDIVIDUALLY COLORED STRANDED WITH OVERALL SHIELD CABLE IN 21mm PVC CONDUIT.
 8. TERMINATE KEYPAD WITHIN A SINGLE GANG JUNCTION BOX MOUNTED AT 1524mm A.F.F. USE 8 CONDUCTOR 22 AWG INDIVIDUALLY COLORED STRANDED WITH OVERALL SHIELD CABLE IN 21mm EMT CONDUIT FOR EACH KEYPAD.
 9. SECURITY PANEL PROVIDED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. TERMINATE ALL CONDUITS AT THIS LOCATION. HOME RUN ALL SECURITY CABLES IN CONDUIT TO ROOM 121 AND LEAVE 4572mm COILED OF EACH CABLE. NUMBER ALL CABLES FOR EASE OF USE. INSIDE ROOM 121 SECURITY CABLES CAN RUN IN SECURITY SYSTEM BASKET TRAY TO SECURITY PANEL. SEE DRAWING 515 FOR SECURITY SYSTEM BASKET TRAY LAYOUT IN ROOM 121.
 10. TERMINATE PANIC BUTTON (P3) WITHIN A SINGLE GANG BOX MOUNTED TO LEFT BOTTOM EDGE OF RECEPTION COUNTER. COORDINATE WITH RECEPTION COUNTER BEFORE INSTALLATION. USE 4 CONDUCTOR 22 AWG SOLID Z STATION CABLE IN 21mm EMT CONDUIT TO SECURITY PANEL IN ROOM 121.
 11. FOR DEVICE LOCATIONS REFER TO DETAIL 3 ON DRAWING 524, DOOR TYPE 'H'.
 12. TERMINATE CARD READER AND KEYPAD TOGETHER IN A DUAL GANG JUNCTION BOX MOUNTED AT 1524mm A.F.F. USE 8 CONDUCTOR 22 AWG INDIVIDUALLY COLORED STRANDED WITH OVERALL SHIELD CABLE IN 21mm EMT CONDUIT FOR EACH CARD READER AND KEYPAD. RUN CABLES IN SEPARATE CONDUITS BACK TO ROOM 121. CONCEAL ALL CONDUIT BELOW CEILING.
 13. CONCEAL ALL CONDUIT BELOW CEILING.

SECURITY SYSTEM RISER

SCALE : N.T.S.

1
513



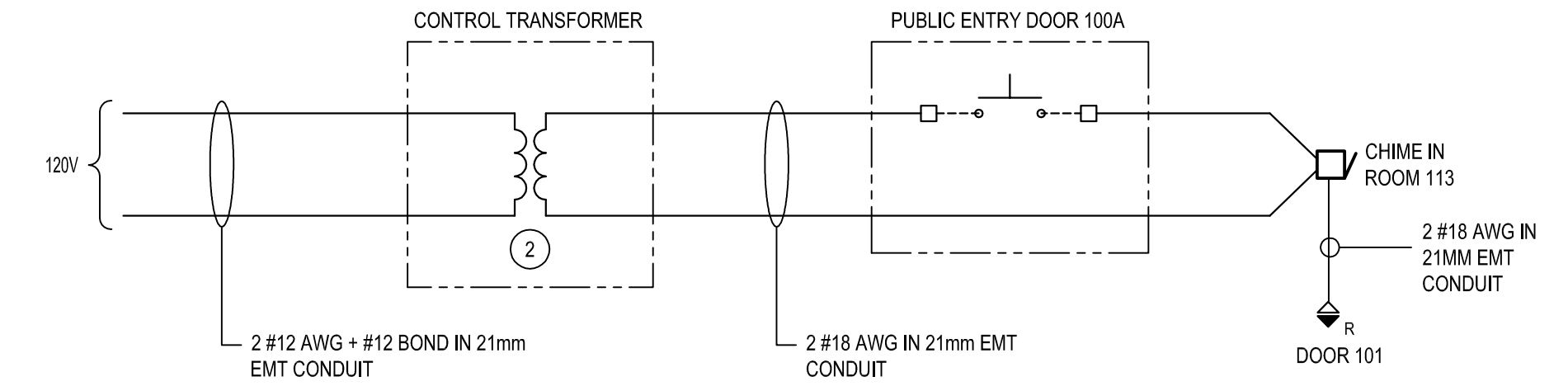
NOTES:

1. CCTV MONITORING EQUIPMENT CABINET SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE BEFORE INSTALLATION OF RACEWAY.
2. ROOM 204 CAMERAS ARE SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL SINGLE GANG OUTLET BOX MOUNTED FLUSH TO CEILING AND RUN RG59U + 2#18 AWG LTV CABLE IN 27mm RGS CONDUIT TO EQUIPMENT CABINET IN ROOM 122.
3. MICROPHONE IS SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL SINGLE GANG OUTLET BOX MOUNTED AT 1.2m A.F.F. AND RUN 4#18 AWG STRANDED OVERALL SHIELD CABLE TO EQUIPMENT CABINET IN ROOM 122.
4. ALL CONDUITS SHALL BE HOME RUN.
5. LEAVE 4.6m COILED OF EACH CABLE. NUMBER ALL CABLES FOR EASE OF USE.
6. ONLY CAMERA, MICROPHONE AND EQUIPMENT CABINET ARE SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY RACEWAY, CONDUIT AND CABLE AS INDICATED TO PROVIDE A COMPLETE SYSTEM.

CCTV SYSTEM RISER - ROOM 204

SCALE : N.T.S.

3
513



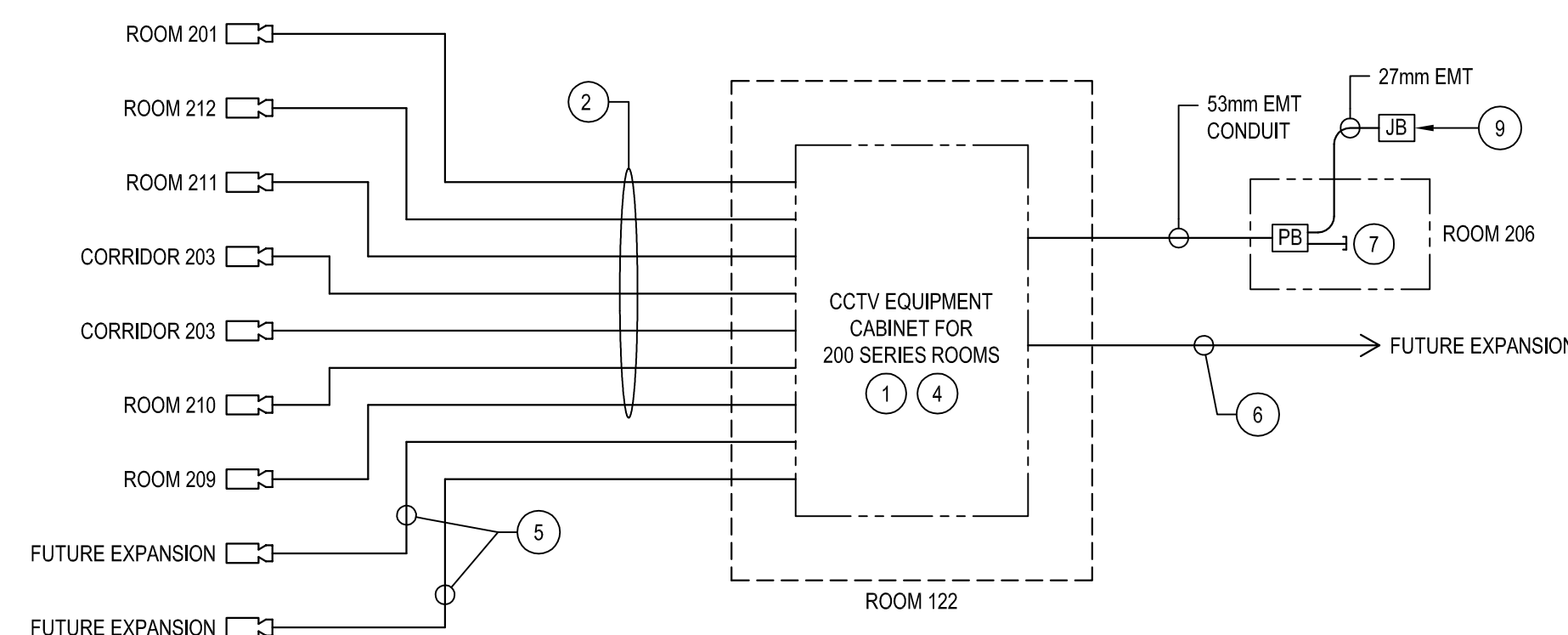
NOTES:

1. REFER TO DRAWING 513, SECURITY LAYOUT FOR EXACT LOCATION.
2. INSTALL CONTROL TRANSFORMER IN JUNCTION BOX ABOVE T-BAR IN ACCESSIBLE LOCATION.

DOOR CHIMES

SCALE : N.T.S.

4
513



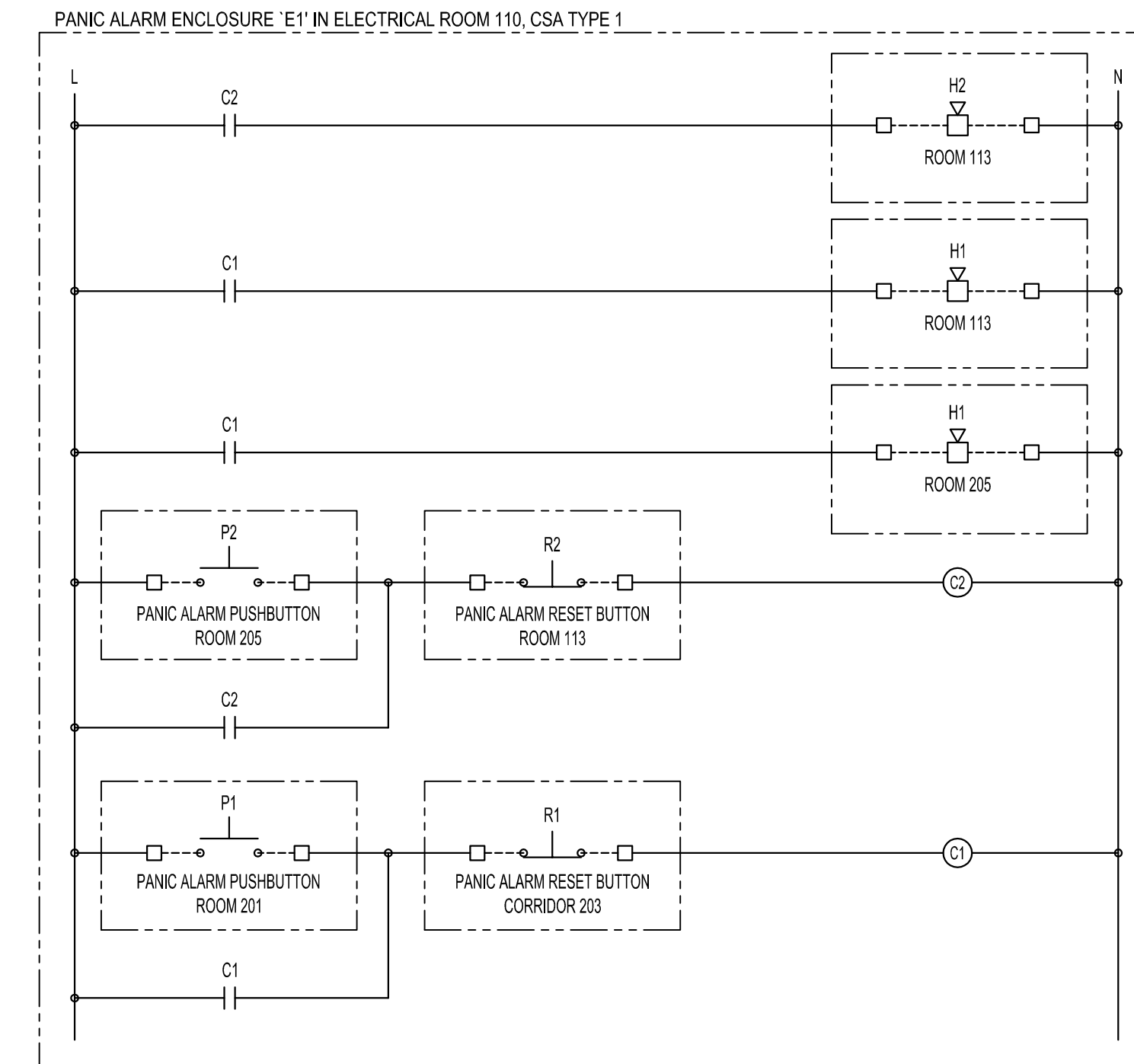
NOTES:

1. CCTV MONITORING EQUIPMENT CABINET SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE BEFORE INSTALLATION OF RACEWAY.
2. CAMERAS ARE SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR TO RUN RG59U + 2#18 AWG LTV CABLE IN 35mm RGS CONDUIT TO EQUIPMENT CABINET IN ROOM 122. REFER TO CELL AREA CCTV CONDUIT LOCATION FOR DETAILS.
3. ALL CONDUITS SHALL BE HOME RUN TO ROOM 122.
4. LEAVE 4.6m COILED OF EACH CABLE. NUMBER ALL CABLE FOR EASE OF USE.
5. END CONDUIT RUN 5m FROM ROOM 122 ABOVE T-BAR IN CORRIDOR 203. PROVIDE CONDUIT COUPLING TO ALLOW CONDUIT EXTENSION FOR FUTURE USE.
6. PROVIDE 35mm EMT CONDUIT TO ROOM 114. END CONDUIT RUN IN CEILING SPACE (ABOVE T-BAR). PROVIDE CONDUIT COUPLING TO ALLOW CONDUIT EXTENSION FOR FUTURE USE.
7. PROVIDE 53mm EMT CONDUIT TO ROOM 206. END CONDUIT RUN IN CEILING SPACE (ABOVE T-BAR). PROVIDE CONDUIT COUPLING TO ALLOW CONDUIT EXTENSION FOR FUTURE USE.
8. ONLY CAMERA AND EQUIPMENT CABINET ARE SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY RACEWAY, CONDUIT AND CABLE AS INDICATED TO PROVIDE A COMPLETE SYSTEM.
9. PROVIDE 27mm CONDUIT TO ROOM 205. TERMINATE CONDUIT IN DOUBLE GANG JUNCTION BOX ABOVE GUARD STATION COUNTER.
10. CONCEAL ALL CONDUIT BELOW CEILING.

CCTV SYSTEM RISER - 200 SERIES ROOMS

SCALE : N.T.S.

2
513



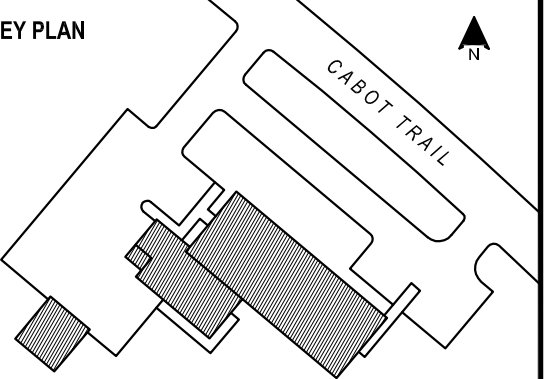
NOTES:

1. REFER TO DRAWING 513, SECURITY LAYOUT FOR EXACT DEVICE LOCATION.

PANIC ALARM SYSTEM

SCALE : N.T.S.

5
513



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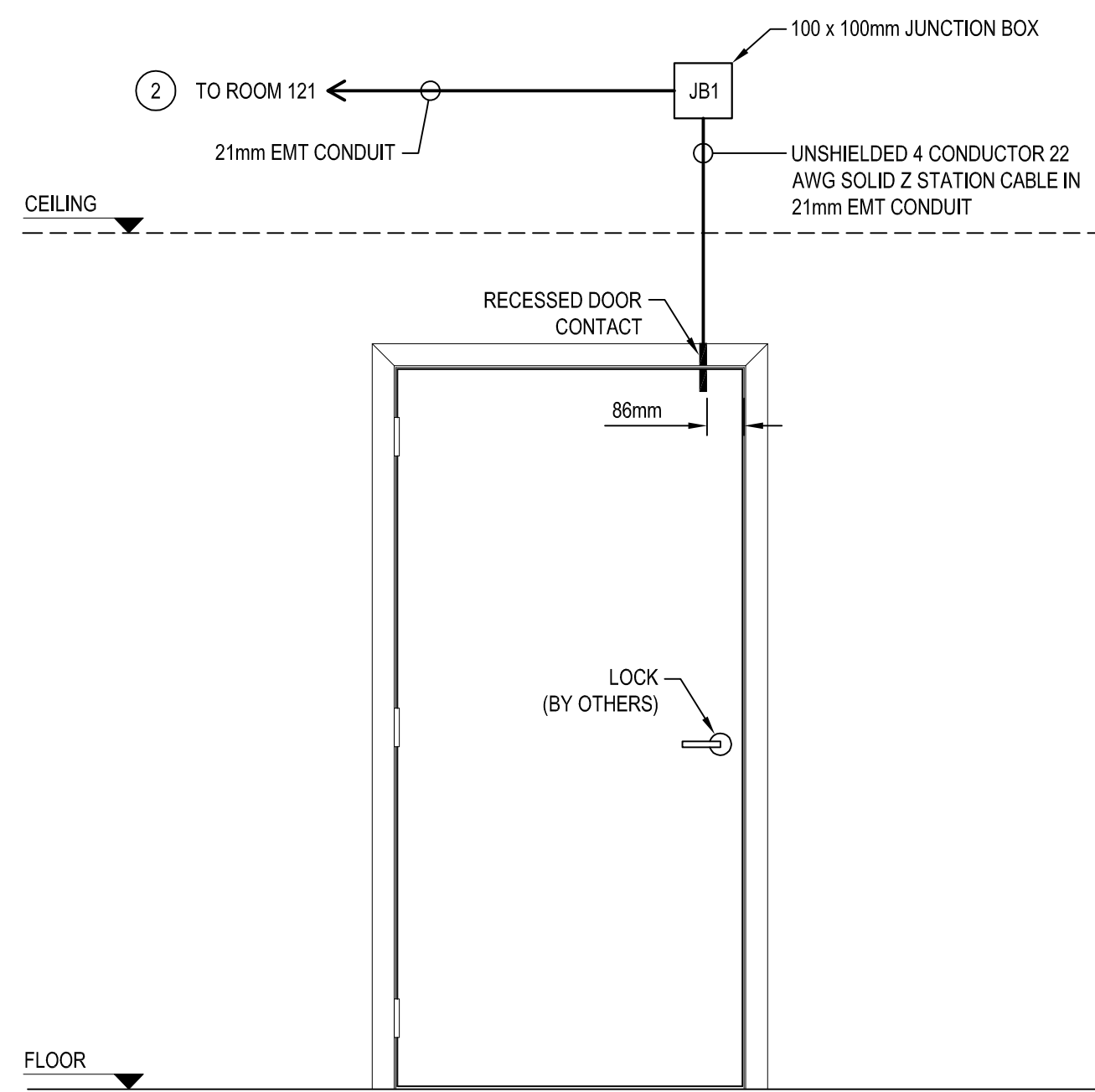


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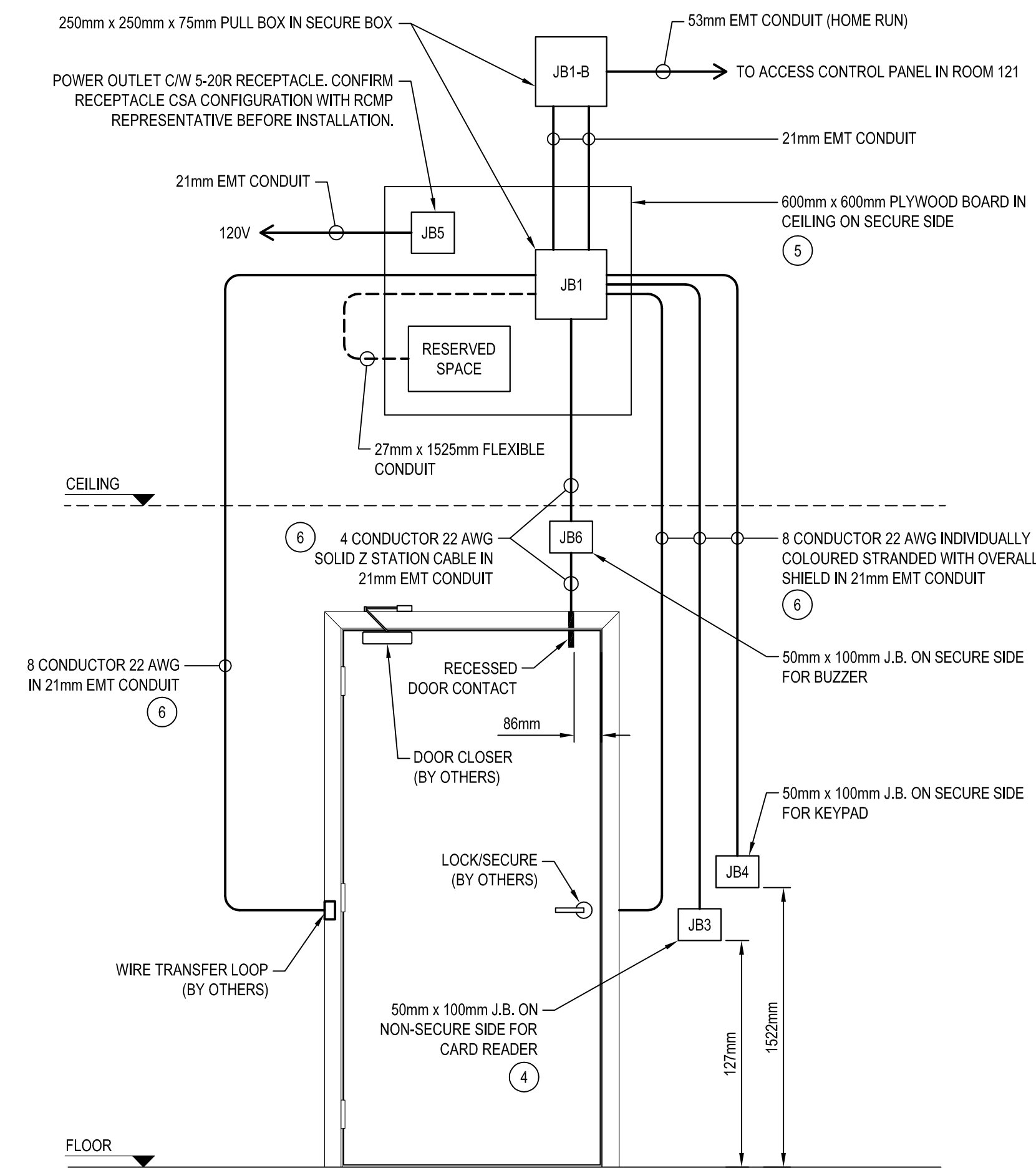
SECURITY SYSTEMS RISERS & DETAILS SHEET 1

523



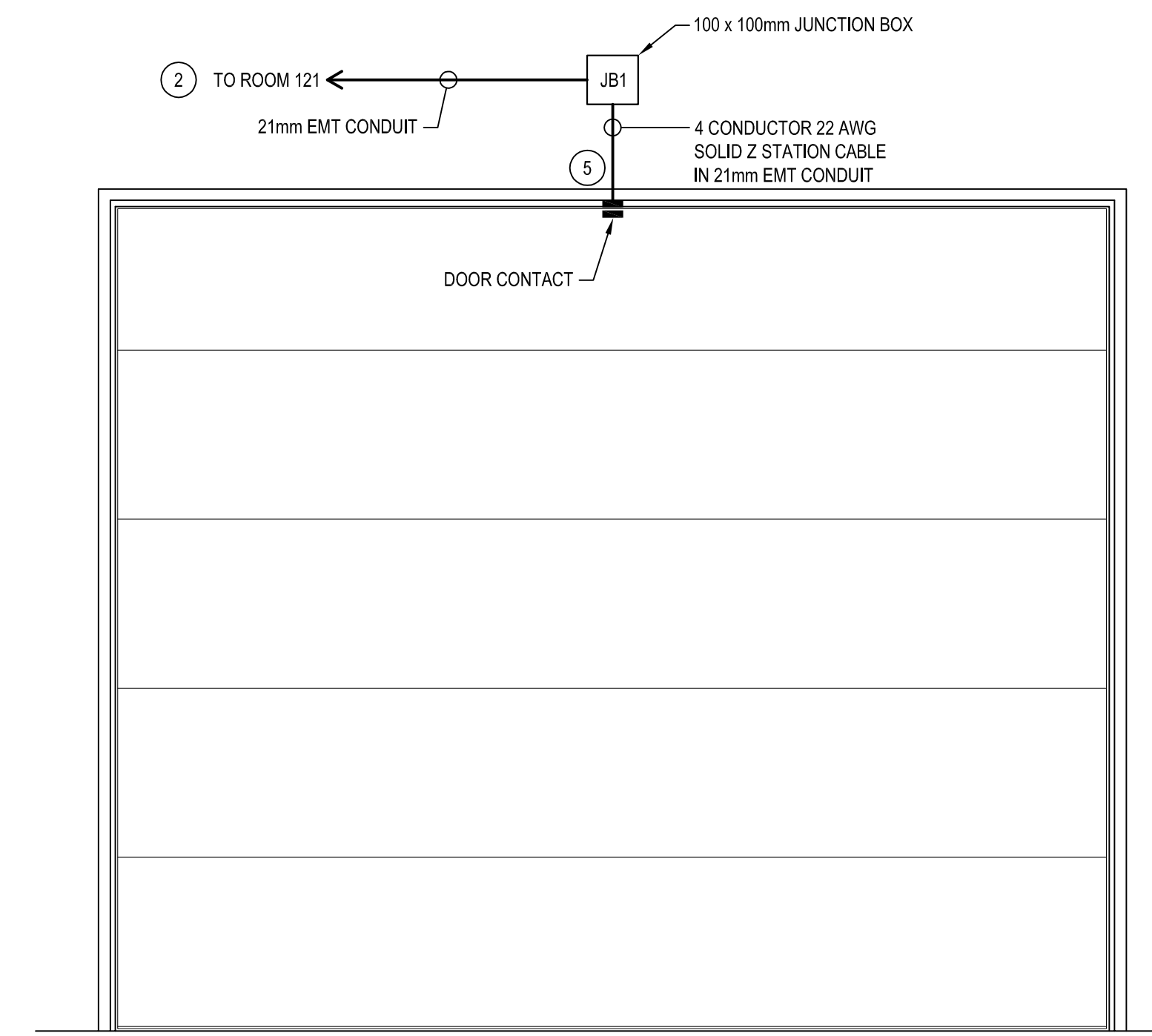
- NOTES:**
1. SECURE SIDE SHOWN.
 2. RUN ALL CABLES IN CONDUIT BACK TO MAIN SECURITY PANEL IN ROOM 121. LEAVE 2m OF COILED CABLE AT SECURITY PANEL LOCATION.
 3. ONLY DOOR CONTACT IS PROVIDED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY RACEWAY, CONDUIT & CABLE AS INDICATED TO PROVIDE A COMPLETE SYSTEM.
 4. PAINT ALL JUNCTION BOX/PULL BOX COVER PURPLE.
 5. CONCEAL ALL CONDUITS BELOW CEILING.
 6. INSTALL ALL JUNCTION BOX/PULL BOX ABOVE CEILING IN ACCESSIBLE LOCATION.

SECURE SINGLE DOOR TYPE 'B'
SCALE: N.T.S. 1
513



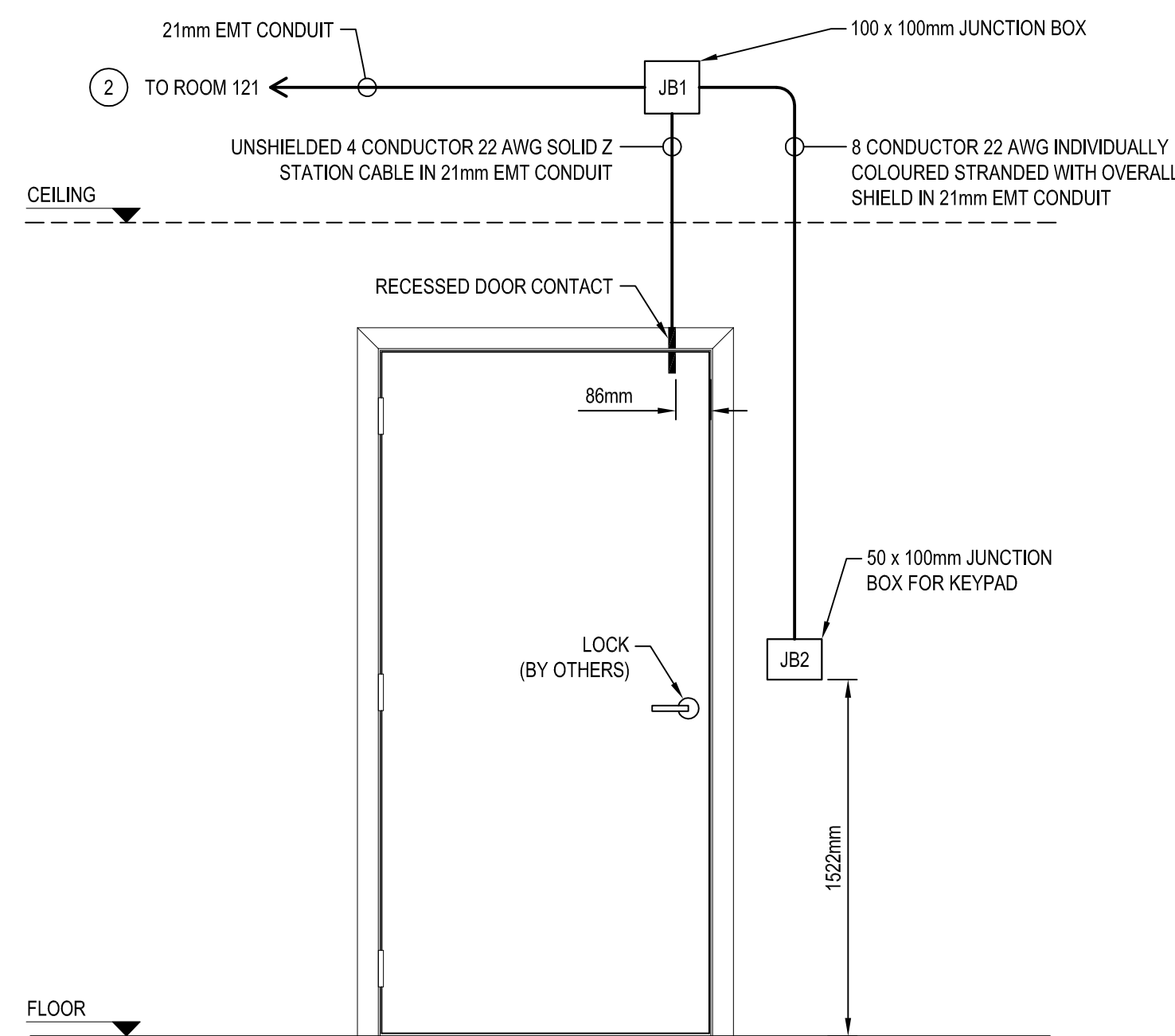
- NOTES:**
1. CONCEAL ALL CONDUITS BELOW CEILING.
 2. PAINT ALL JUNCTION BOX/PULL BOX COVER PURPLE.
 3. INSTALL ALL JUNCTION BOX/PULL BOX ABOVE CEILING IN ACCESSIBLE LOCATION.
 4. INSTALL 90° ELBOW ON THE SIDE AT NO MORE THAN 25.3mm FROM THE BACK OF THE BOX.
 5. FIRE RATED PLYWOOD MINIMUM 19mm THICK.
 6. RUN ALL CABLES IN CONDUIT BACK TO ACCESS CONTROL PANEL IN ROOM 121. LEAVE 2m OF COILED CABLE AT ACCESS CONTROL PANEL LOCATION.
 7. ONLY CARD READER, KEYPAD, DOOR CONTACT, DOOR CONTROLLER AND ACCESS CONTROL PANEL ARE PROVIDED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY RACEWAY, CONDUIT & CABLE AS INDICATED TO PROVIDE A COMPLETE SYSTEM.

ACCESS CONTROL-DOOR 111A
SCALE: N.T.S. 2
513



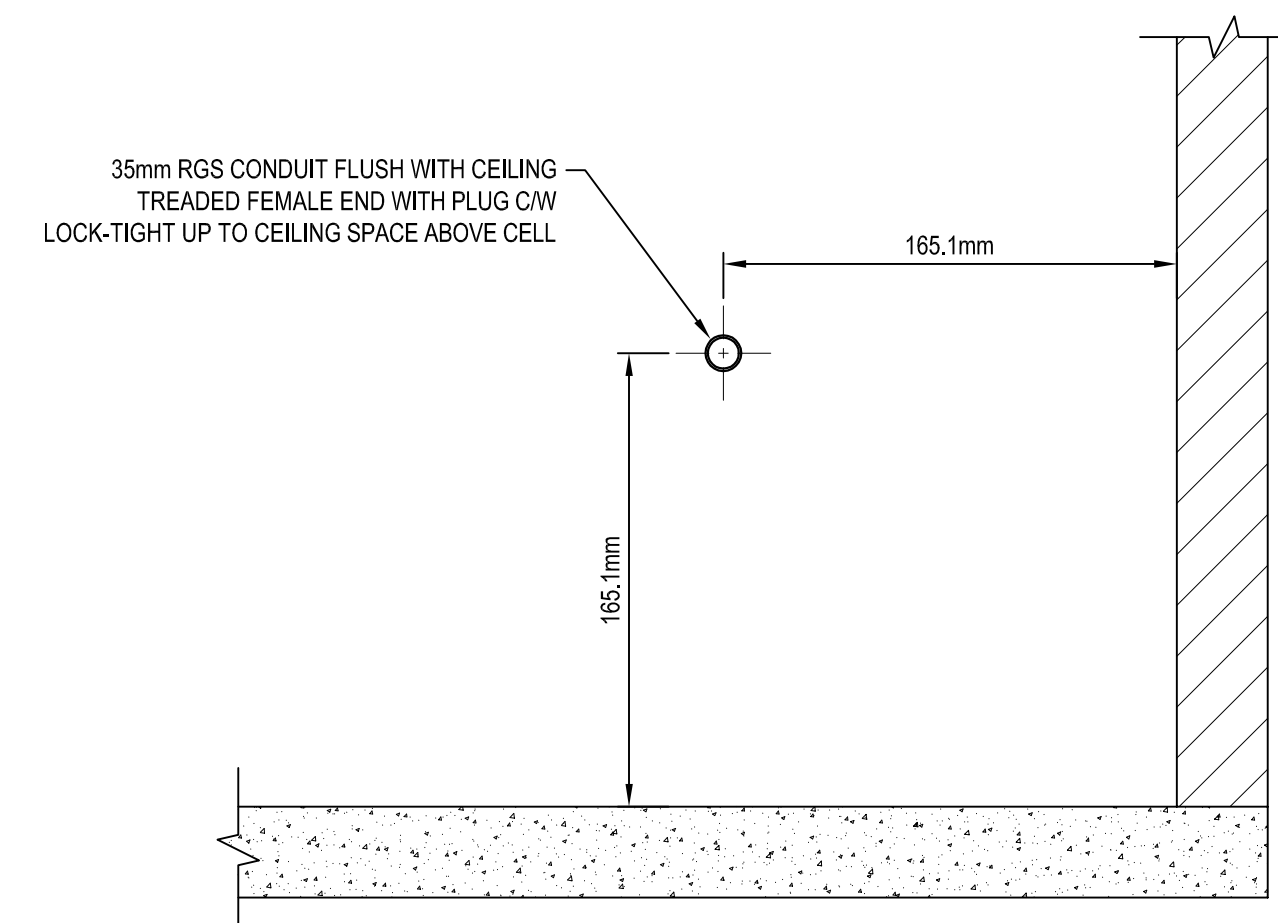
- NOTES:**
1. SECURE SIDE SHOWN.
 2. RUN ALL CABLES IN CONDUIT BACK TO MAIN SECURITY PANEL IN ROOM 121. LEAVE 2m OF COILED CABLE AT SECURITY PANEL LOCATION.
 3. ONLY DOOR CONTACT IS PROVIDED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY RACEWAY, CONDUIT & CABLE AS INDICATED TO PROVIDE A COMPLETE SYSTEM.
 4. PAINT ALL JUNCTION BOX/PULL BOX COVER PURPLE.
 5. RUN CONDUIT TO 102mm ABOVE DOOR ON WALL AND STOP.

SECURE OVERHEAD DOOR TYPE 'H'
SCALE: N.T.S. 3
513

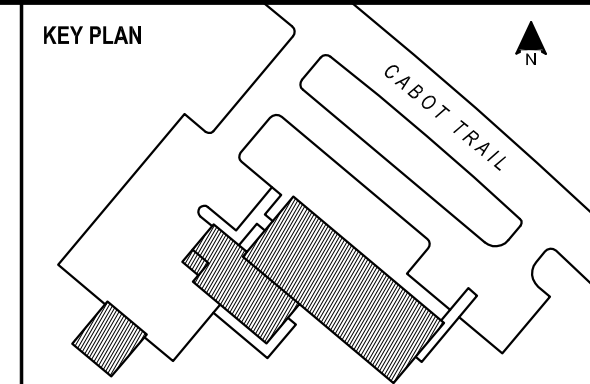


- NOTES:**
1. SECURE SIDE SHOWN.
 2. RUN ALL CABLES IN CONDUIT BACK TO MAIN SECURITY PANEL IN ROOM 121. LEAVE 2m OF COILED CABLE AT SECURITY PANEL LOCATION.
 3. ONLY DOOR CONTACT AND KEYPAD ARE PROVIDED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY RACEWAY, CONDUIT & CABLE AS INDICATED TO PROVIDE A COMPLETE SYSTEM.
 4. PAINT ALL JUNCTION BOX/PULL BOX COVER PURPLE.
 5. CONCEAL ALL CONDUITS BELOW CEILING.
 6. INSTALL ALL JUNCTION BOX/PULL BOX ABOVE CEILING IN ACCESSIBLE LOCATION.

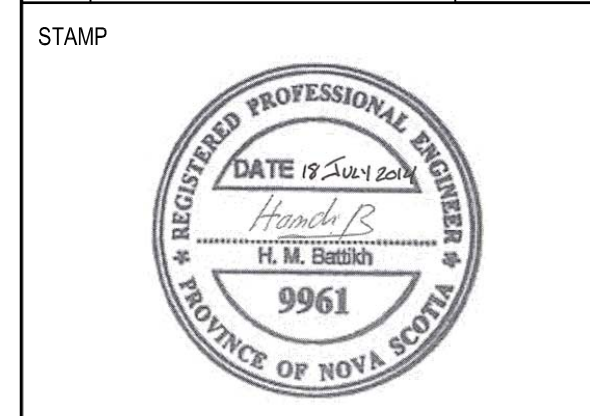
SECURE SINGLE DOOR TYPE 'D'
SCALE: N.T.S. 4
513



CELL AREA CCTV CONDUIT LOCATION
SCALE: N.T.S. 5
513

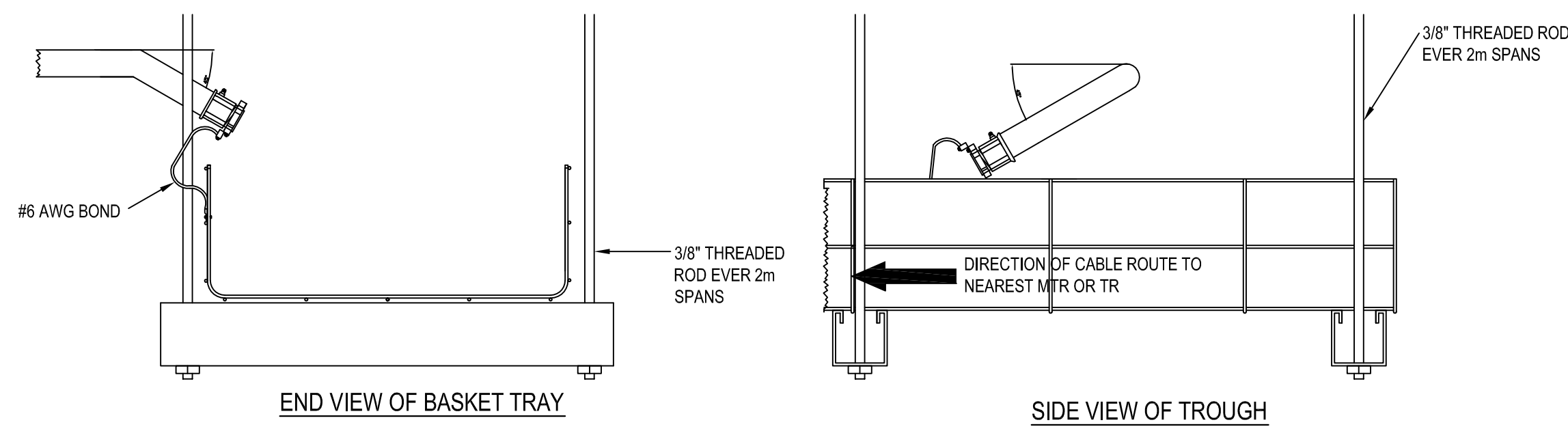


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SECURITY SYSTEMS RISERS & DETAILS SHEET 2

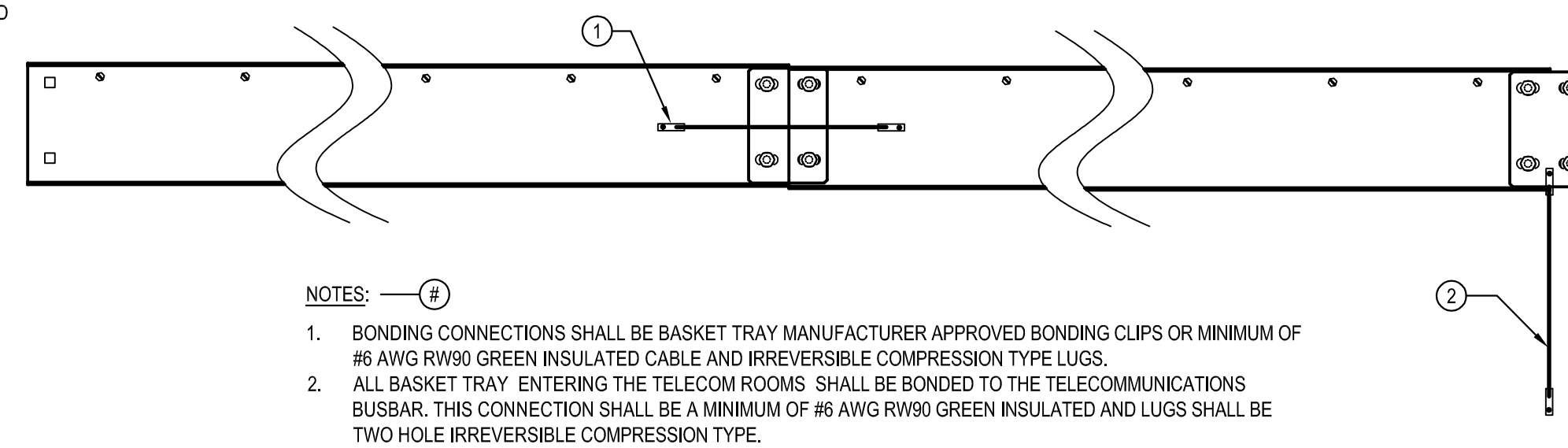


END VIEW OF BASKET TRAY

SIDE VIEW OF TROUGH

DETAIL - TELECOM BASKET TRAY INSTALLATION 1

SCALE : N.T.S.

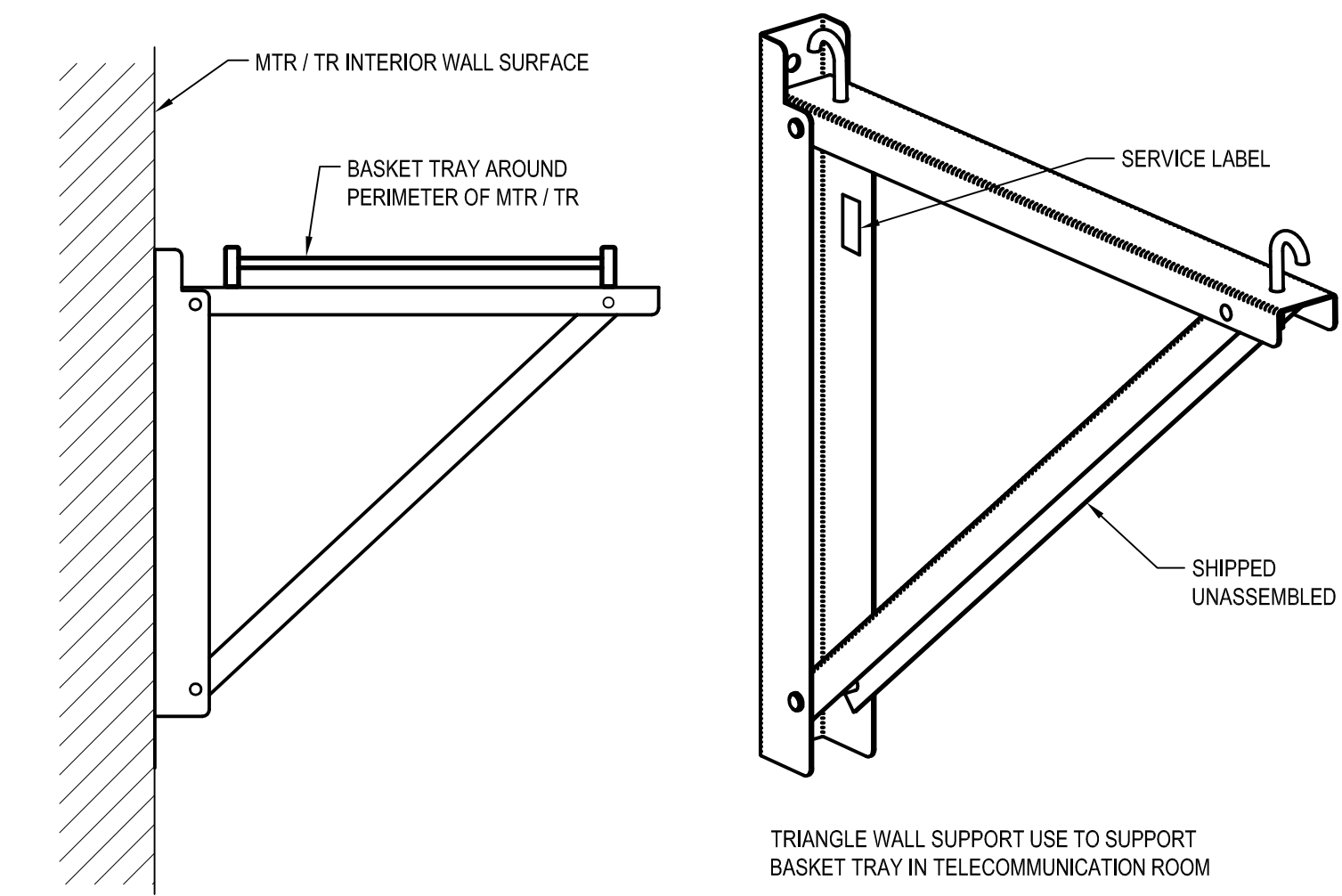


NOTES: — #

- BONDING CONNECTIONS SHALL BE BASKET TRAY MANUFACTURER APPROVED BONDING CLIPS OR MINIMUM OF #6 AWG RW90 GREEN INSULATED CABLE AND IRREVERSIBLE COMPRESSION TYPE LUGS.
- ALL BASKET TRAY ENTERING THE TELECOM ROOMS SHALL BE BONDED TO THE TELECOMMUNICATIONS BUSBAR. THIS CONNECTION SHALL BE A MINIMUM OF #6 AWG RW90 GREEN INSULATED AND LUGS SHALL BE TWO HOLE IRREVERSIBLE COMPRESSION TYPE.

DETAIL - BONDING OF BASKET TRAY (TYPICAL) 5

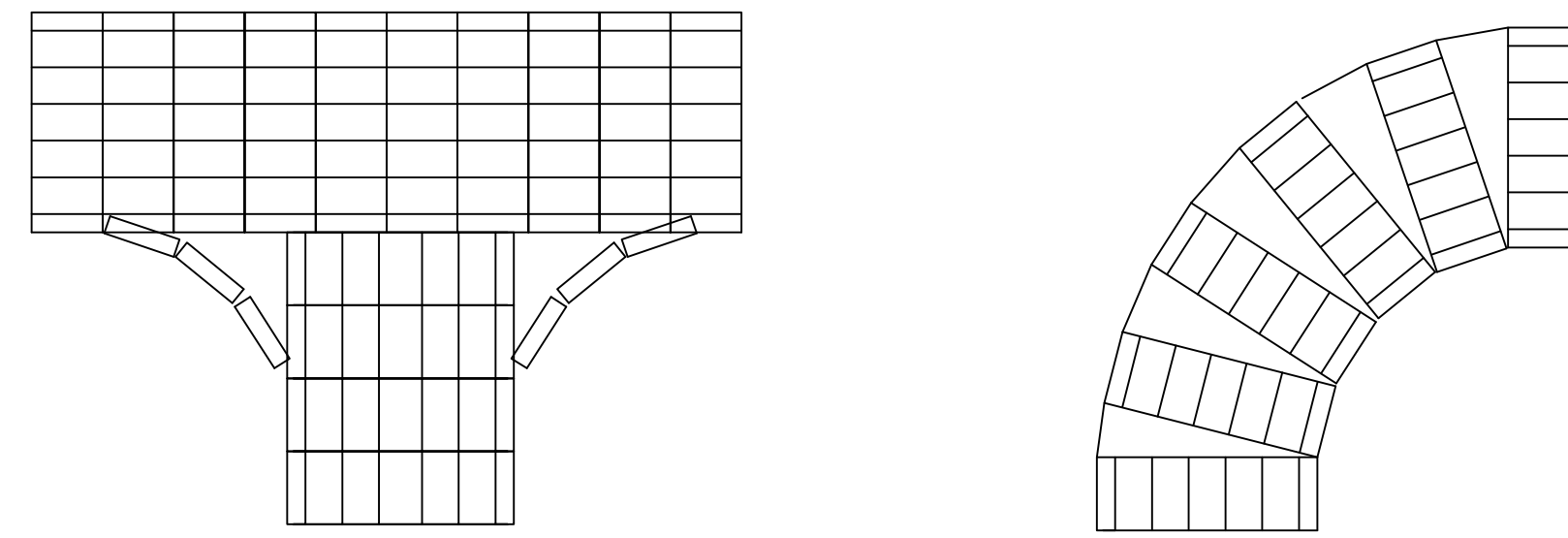
SCALE : N.T.S.



TRIANGLE WALL SUPPORT USE TO SUPPORT BASKET TRAY IN TELECOMMUNICATION ROOM

DETAIL - BASKET TRAY WALL SUPPORT 8

SCALE : N.T.S.

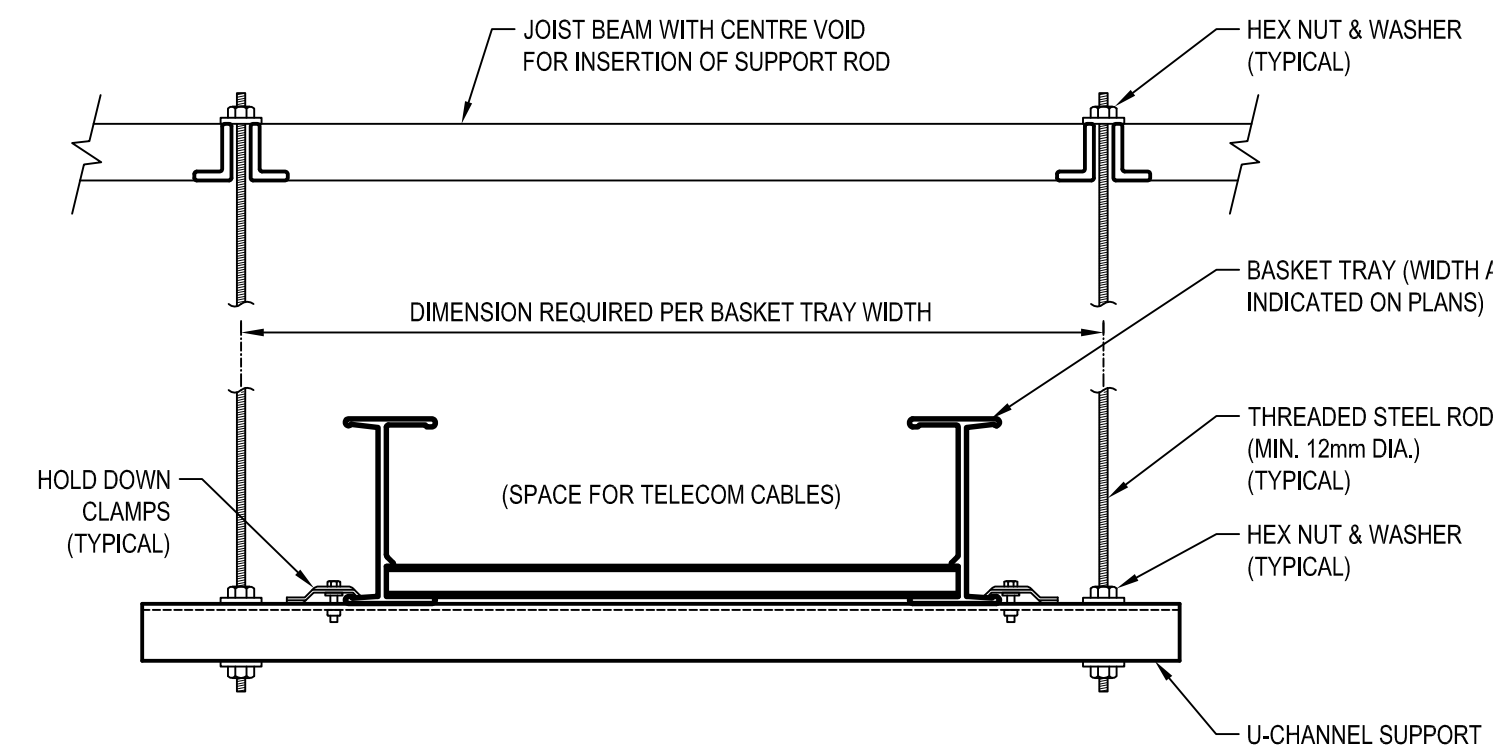


TYPICAL TEE BEND

TYPICAL 90 BEND

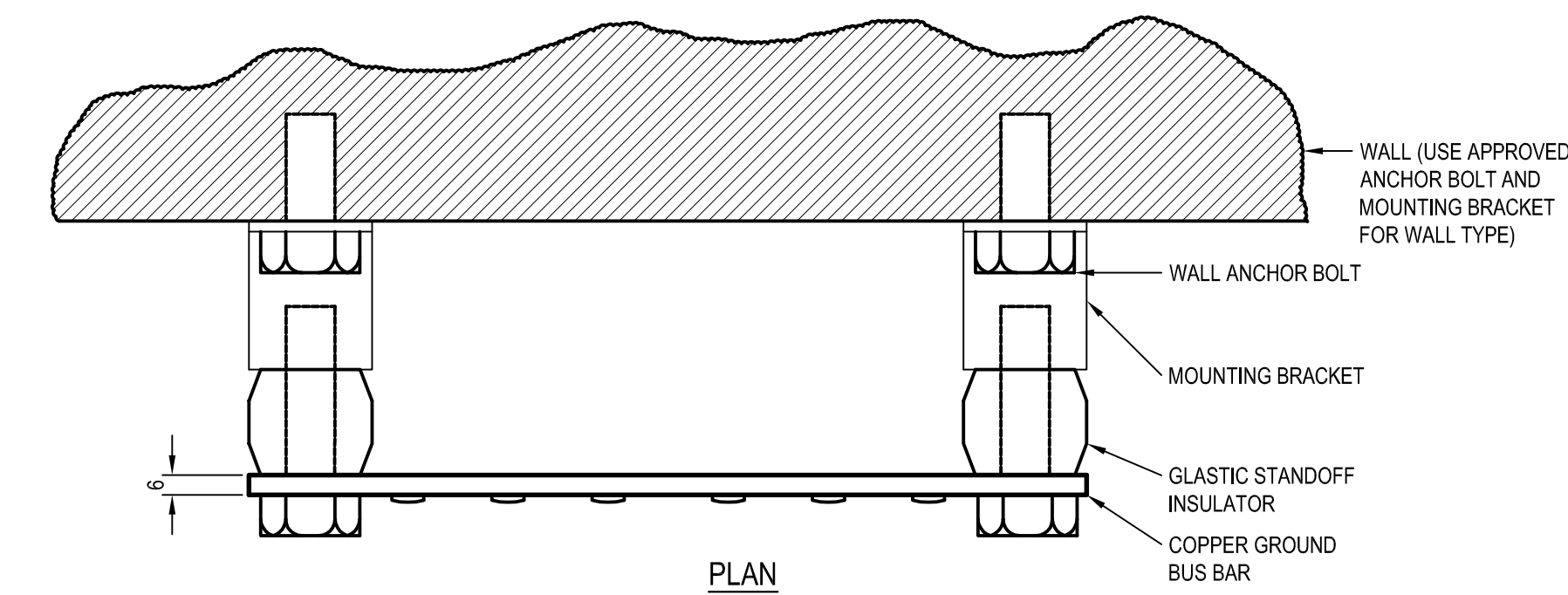
DETAIL - TELECOM BASKET TRAY BENDING 2

SCALE : N.T.S.

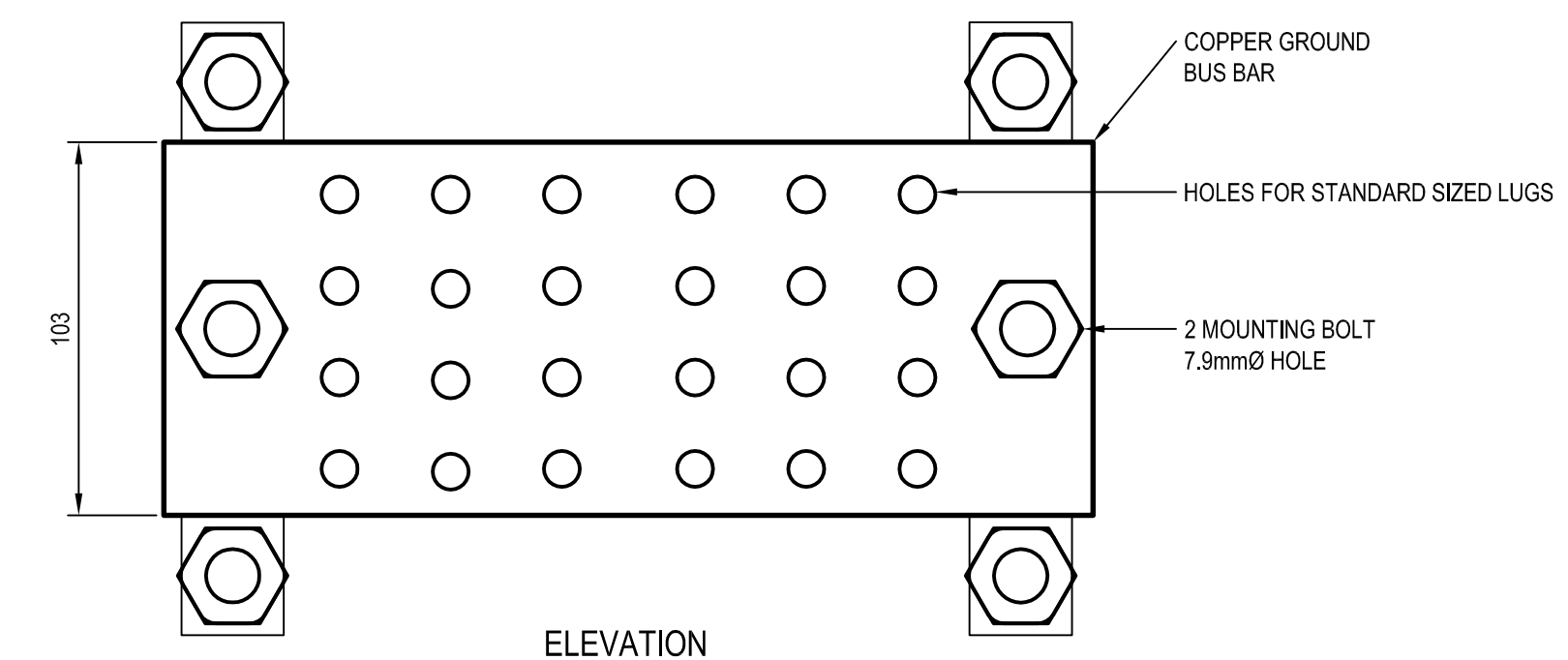


DETAIL - BASKET TRAY TRAPEZE SUPPORT 6

SCALE : N.T.S.



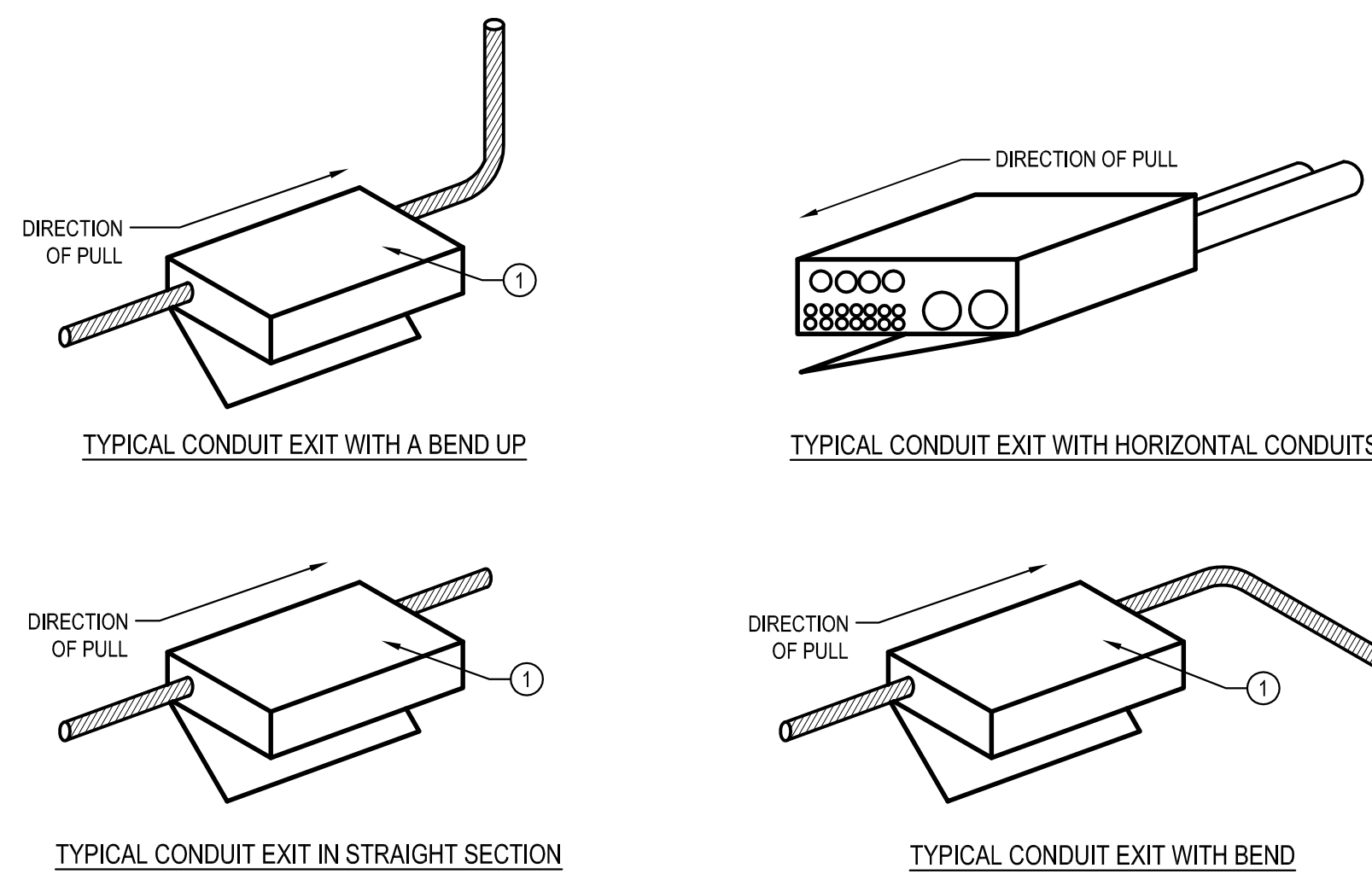
PLAN



ELEVATION

DETAIL - TELECOM MAIN GROUND BUS (TMGB) 9

SCALE : N.T.S.



TYPICAL CONDUIT EXIT WITH A BEND UP

TYPICAL CONDUIT EXIT WITH HORIZONTAL CONDUITS

TYPICAL CONDUIT EXIT IN STRAIGHT SECTION

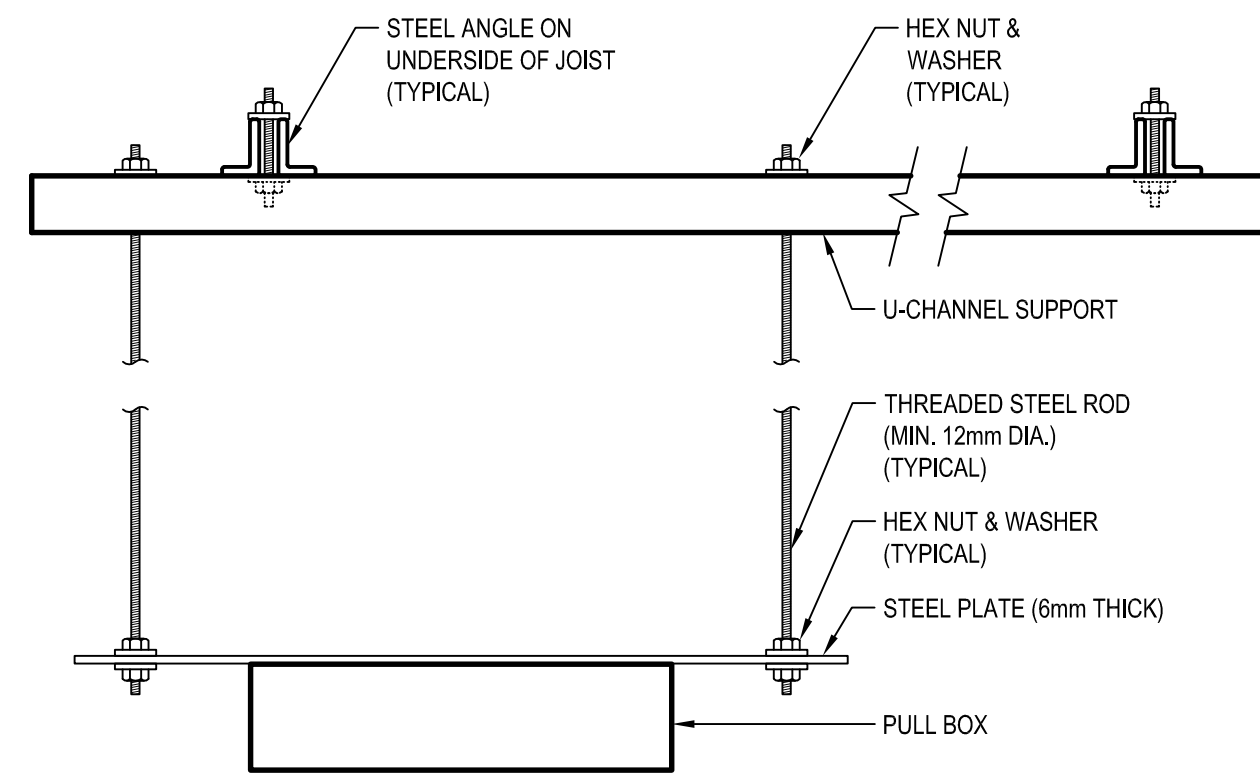
TYPICAL CONDUIT EXIT WITH BEND

NOTES: — #

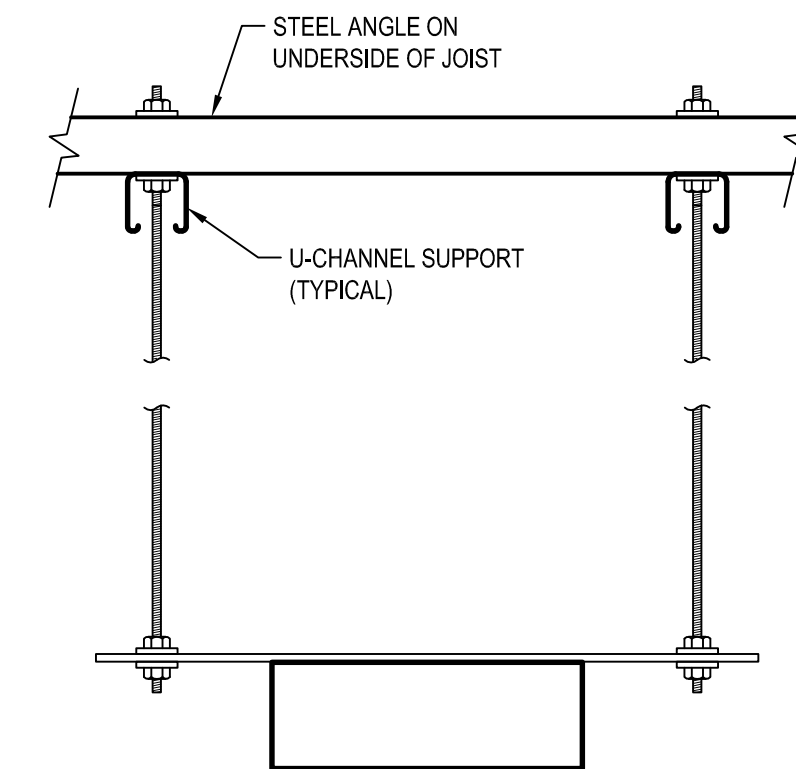
- CONDUITS SHALL ONLY EXIT IN THE DIRECTION OF THE PULL. CONDUITS SHALL NEVER EXIT THE BACK, SIDES OR TOP OF A PULL BOX. CONDUIT ENDS SHALL BE ALIGNED.

DETAIL - CONDUIT PULL BOX 3

SCALE : N.T.S.



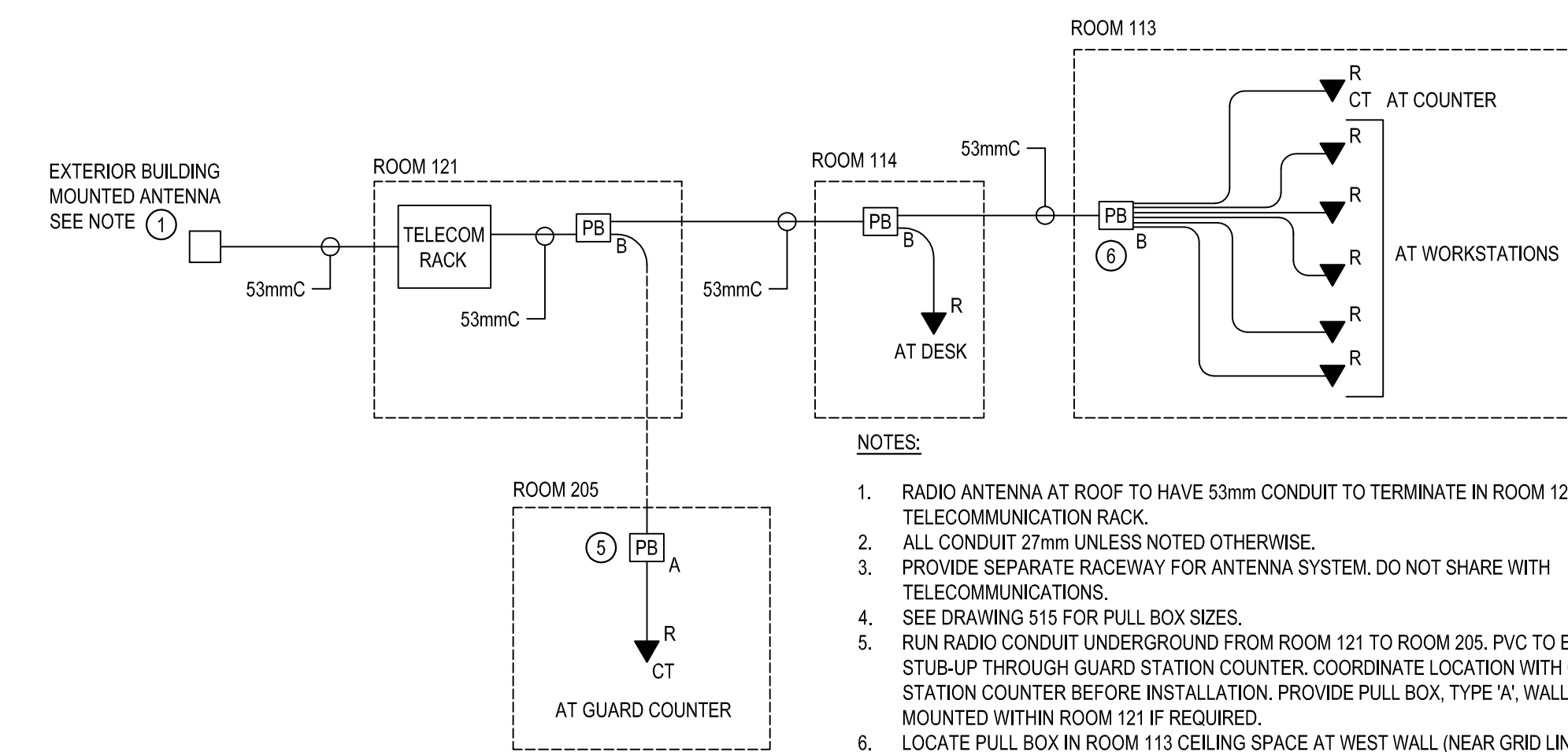
FRONT VIEW



SIDE VIEW

DETAIL - PULL BOX SUPPORT 7

SCALE : N.T.S.

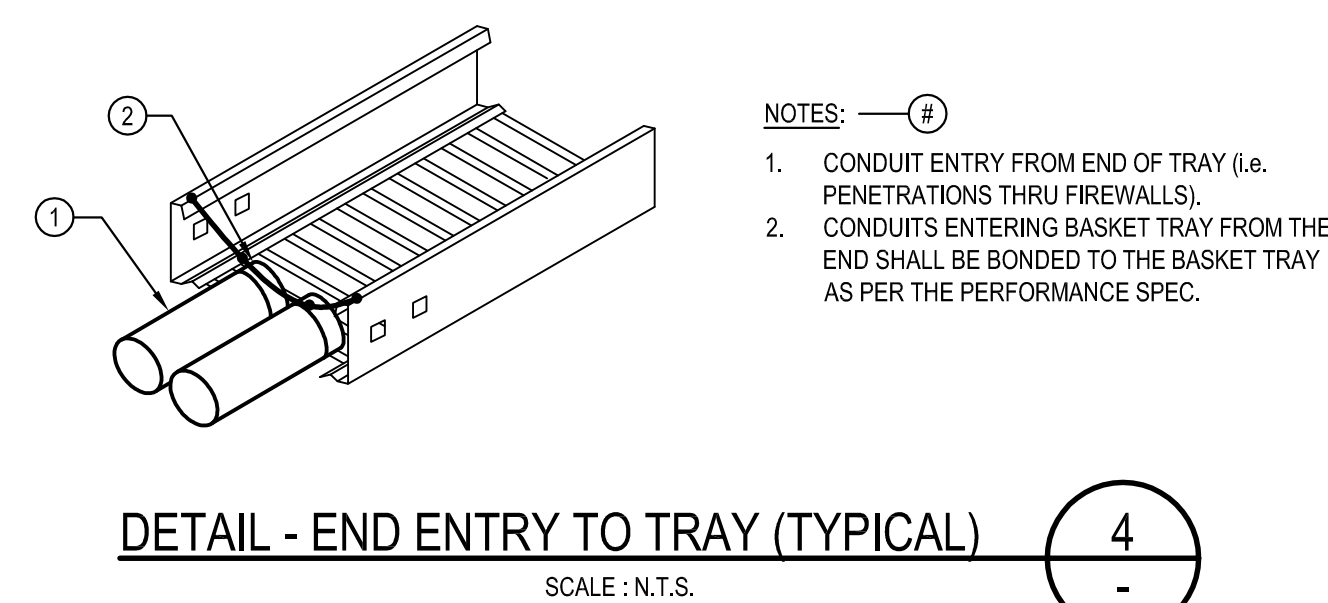


NOTES:

- RADIO ANTENNA AT ROOF TO HAVE 53mm CONDUIT TO TERMINATE IN ROOM 121 IN TELECOMMUNICATION RACK.
- ALL CONDUIT 27mm UNLESS NOTED OTHERWISE.
- PROVIDE SEPARATE RACEWAY FOR ANTENNA SYSTEM. DO NOT SHARE WITH TELECOMMUNICATIONS.
- SEE DRAWING 515 FOR PULL BOX SIZES.
- RUN RADIO CONDUIT UNDERGROUND FROM ROOM 121 TO ROOM 205. PVC TO EMT STUB-UP THROUGH GUARD STATION COUNTER. COORDINATE LOCATION WITH GUARD STATION COUNTER BEFORE INSTALLATION. PROVIDE PULL BOX, TYPE 'A', WALL MOUNTED WITHIN ROOM 121 IF REQUIRED.
- LOCATE PULL BOX IN ROOM 113 CEILING SPACE AT WEST WALL (NEAR GRID LINE 4.75).

DIAGRAM - RADIO SYSTEM 10

SCALE : N.T.S.

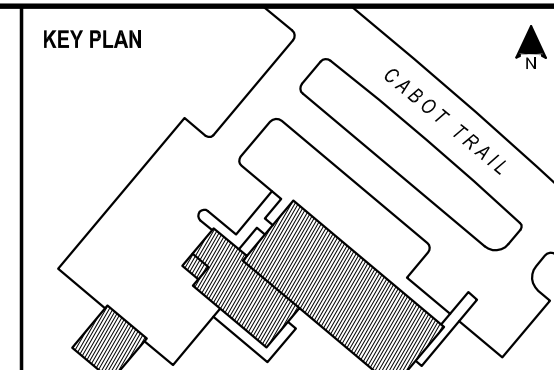


DETAIL - END ENTRY TO TRAY (TYPICAL) 4

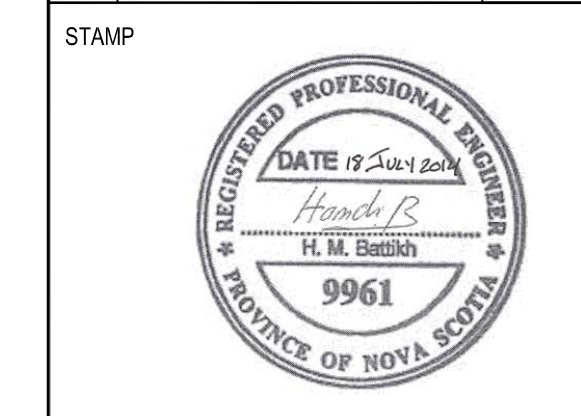
SCALE : N.T.S.

NOTES: — #

- CONDUIT ENTRY FROM END OF TRAY (i.e. PENETRATIONS THRU FIREWALLS).
- CONDUITS ENTERING BASKET TRAY FROM THE END SHALL BE BONDED TO THE BASKET TRAY AS PER THE PERFORMANCE SPEC.



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INGONISH CIVIC BUILDING
 Project Address
 DSRA JOB #: 12169
 DRAWN BY: STAFF
 CHECKED BY: H.B./J.L.
 SCALE: AS INDICATED

TELECOMMUNICATION DETAILS AND DIAGRAM

PANEL: EDP2

LOCATION: ROOM 110
 SUPPLY FROM: ATS1
 MOUNTING: SURFACE
 ENCLOSURE: TYPE 2

VOLTS: 600/347V
 PHASES: 3
 WIRES: 4

A.I.C. RATING: 14000
 MAINS TYPE: COPPER
 MAINS RATINGS: 400 A

| WIRE | CKT | CIRCUIT DESCRIPTION | TRIP | POLE | A | B | C | POLE | TRIP | CIRCUIT DESCRIPTION | CKT | WIRE |
|------|-----|---------------------|-------|------|----------|----------|----------|-----------|------|---------------------|-----|------|
| | 1 | EDP3 | 100 A | 3 | 19546 VA | 43557 VA | | | | TX1 | 2 | |
| | 3 | | | | | 19546 VA | 41650 VA | | | | | 4 |
| | 5 | | | | | | 19546 VA | 41330 VA | | | | 6 |
| | 7 | ERV3-H | 15 A | 3 | 1198 VA | | | | | | 8 | |
| | 9 | | | | | 1198 VA | | | | | 10 | |
| | 11 | | | | | | 1198 VA | | | | 12 | |
| | 13 | | | | | | | | | | 14 | |
| | 15 | | | | | | | | | | 16 | |
| | 17 | | | | | | | 18 | | | | |
| | 19 | | | | | | | 20 | | | | |
| | 21 | | | | | | | 22 | | | | |
| | 23 | | | | | | | 24 | | | | |
| | | | | | 64300 VA | 62394 VA | 62074 VA | 193711 VA | | | | |
| | | | | | 185 A | 180 A | 179 A | 186 A | | | | |

NOTES:

PANEL: EDP3

LOCATION: ROOM 110
 SUPPLY FROM: EDP2
 MOUNTING: SURFACE
 ENCLOSURE: TYPE 2

VOLTS: 600/347V
 PHASES: 3
 WIRES: 4

A.I.C. RATING: 14000
 MAINS TYPE: COPPER
 MAINS RATINGS: 225 A

| WIRE | CKT | CIRCUIT DESCRIPTION | TRIP | POLE | A | B | C | POLE | TRIP | CIRCUIT DESCRIPTION | CKT | WIRE |
|------|-----|---------------------|------|------|----------|----------|----------|----------|------|---------------------|-----|------|
| | 1 | CU-1 | 20 A | 3 | 4189 VA | 398 VA | | | | FPB6-H | 2 | |
| | 3 | | | | | 4189 VA | 398 VA | | | | | 4 |
| | 5 | | | | | | 4189 VA | 398 VA | | | | 6 |
| | 7 | FPB1-H | 15 A | 3 | 499 VA | 499 VA | | | | FPB7-H | 8 | |
| | 9 | | | | | 499 VA | 499 VA | | | | | 10 |
| | 11 | | | | | | 499 VA | 499 VA | | | | 12 |
| | 13 | AHU-1 | 30 A | 3 | 4812 VA | 499 VA | | | | FPB5-H | 14 | |
| | 15 | | | | | 4812 VA | 499 VA | | | | | 16 |
| | 17 | | | | | | 4812 VA | 499 VA | | | | 18 |
| | 19 | FPB2-H | 15 A | 3 | 1198 VA | 1101 VA | | | | HUM-1 | 20 | |
| | 21 | | | | | 1198 VA | 1101 VA | | | | | 22 |
| | 23 | | | | | | 1198 VA | 1101 VA | | | | 24 |
| | 25 | HWT-1 | 20 A | 3 | 4497 VA | 301 VA | | | | FPB4-H | 26 | |
| | 27 | | | | | 4497 VA | 301 VA | | | | | 28 |
| | 29 | | | | | | 4497 VA | 301 VA | | | | 30 |
| | 31 | ERV2-H | 15 A | 3 | 336 VA | 1468 VA | | | | FPB3-H | 32 | |
| | 33 | | | | | 336 VA | 1468 VA | | | | | 34 |
| | 35 | | | | | | 336 VA | 1468 VA | | | | 36 |
| | 37 | | | | | | | 38 | | | | |
| | 39 | | | | | | | 40 | | | | |
| | 41 | | | | | | | 42 | | | | |
| | | | | | 19796 VA | 19796 VA | 19796 VA | 59387 VA | | | | |
| | | | | | 57 A | 57 A | 57 A | 57 A | | | | |

NOTES:

PANEL: EBP1

LOCATION: ROOM 110
 SUPPLY FROM: TX1
 MOUNTING: SURFACE
 ENCLOSURE: TYPE 2

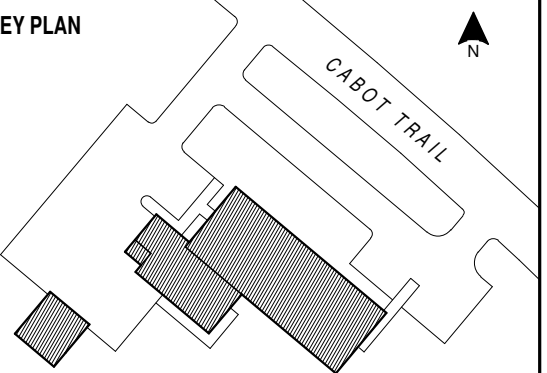
VOLTS: 208/120V
 PHASES: 3
 WIRES: 4

A.I.C. RATING: 14000
 MAINS TYPE: COPPER
 MAINS RATINGS: 400 A

| WIRE | CKT | CIRCUIT DESCRIPTION | TRIP | POLE | A | B | C | POLE | TRIP | CIRCUIT DESCRIPTION | CKT | WIRE | | | | | |
|-------------|-----|--------------------------|-------|------|-----------------------|----------|----------|-----------|----------|---------------------|------------------------|------------------------|-------------|--------|--------------------|-----------------------|-------------|
| | 1 | ETP-1 | 15 A | 1 | 102 VA | 272 VA | | | | 20 A | PARKING LOT LIGHTING | 2 | 2 #10 + #12 | | | | |
| 2 #10 + #12 | 3 | MAIN ENTRANCE LIGHTING | 20 A | 1 | | 150 VA | 272 VA | | | 20 A | SITE LIGHTING | 4 | 2 #10 + #12 | | | | |
| 2 #10 + #12 | 5 | BUILDING PERIM. LIGHTING | 20 A | 1 | | | 280 VA | 300 VA | | 20 A | RECEPTACLE OUTSIDE | 6 | 2 #12 + #12 | | | | |
| 2 #10 + #12 | 7 | LIGHTING COLD STORAGE | 20 A | 1 | 327 VA | 750 VA | | | | L 20 A | CCTV CABINET ROOM 122 | 8 | 2 #12 + #12 | | | | |
| 2 #12 + #12 | 9 | EMCS SYSTEM | 20 A | L 1 | | 510 VA | 750 VA | | | L 15 A | CCTV CABINET ROOM 122 | 10 | 2 #12 + #12 | | | | |
| 2 #12 + #12 | 11 | RECEPTACLE | 20 A | 1 | | | 600 VA | 708 VA | | 20 A | LIGHTING | 12 | 2 #10 + #12 | | | | |
| 2 #10 + #10 | 13 | LIGHTING | 20 A | 1 | 676 VA | 900 VA | | | | 20 A | RECEPTACLE | 14 | 2 #12 + #12 | | | | |
| 2 #10 + #10 | 15 | LIGHTING | 20 A | 1 | | 834 VA | 958 VA | | | 20 A | LIGHTING | 16 | 2 #10 + #12 | | | | |
| 2 #10 + #10 | 17 | LIGHTING | 20 A | 1 | | | 874 VA | 1200 VA | | 20 A | RECEPTACLE | 18 | 2 #10 + #12 | | | | |
| 2 #12 + #12 | 19 | RECEPTACLE | 20 A | 1 | 1800 VA | 600 VA | | | | 20 A | RECEPTACLE | 20 | 2 #12 + #12 | | | | |
| | 21 | CUH-5 | 15 A | 2 | | 250 VA | 751 VA | | | 15 A | UH-5 | 22 | | | | | |
| | 23 | | | | | 250 VA | 751 VA | | | | | 24 | | | | | |
| | 25 | | | | 2 #12 + #12 | 20 A | 1 | 300 VA | 1872 VA | | | | | 2 | 30 A | DRYER | 26 |
| 2 #12 + #12 | 27 | RPS-1 | 15 A | L 1 | | 1000 VA | 1872 VA | | | 20 A | FIRE ALARM TRANSPONDER | 30 | 2 #12 + #12 | | | | |
| 2 #12 + #12 | 29 | RPS-2 | 15 A | L 1 | | | 1000 VA | 500 VA | | L 20 A | FACP | 32 | 2 #10 + #12 | | | | |
| | 31 | EF-4 | 15 A | 1 | 592 VA | 1000 VA | | | | 1 | 20 A | SPARE FOR LTG. CONTROL | 34 | | | | |
| | 33 | UH-3 | 15 A | 2 | | 751 VA | 0 VA | | | 1 | 20 A | 34 | | | | | |
| | 35 | | | | | | 751 VA | 0 VA | | | | | 36 | | | | |
| 2 #12 + #12 | 37 | | | | RECEPTACLE OUTSIDE | 20 A | 1 | 600 VA | 92 VA | | | | | 1 | 15 A | ERV-2 | 38 |
| | 39 | WELL PUMP | 30 A | 2 | | 972 VA | 0 VA | | | 1 | 20 A | 40 | | | | | |
| | 41 | | | | | | 972 VA | 0 VA | | | | | 42 | | | | |
| | 43 | | | | EF-7 | 15 A | 1 | 592 VA | 16900 VA | | | | | | 125 A | PANEL EBP2 | 44 |
| | 45 | CUH-2 | 20 A | 2 | | 1503 VA | 15938 VA | | | 3 | 20 A | 46 | | | | | |
| | 47 | | | | | | 1503 VA | 13434 VA | | | | | 48 | | | | |
| | 49 | | | | | | 13056 VA | 500 VA | | | | | 1 | L 20 A | PANIC ALARM SYSTEM | 50 | 2 #12 + #12 |
| | 51 | PANEL EBP3 | 150 A | 3 | | 12529 VA | 300 VA | | | 1 | 20 A | 52 | 2 #12 + #12 | | | | |
| | 53 | | | | | | 15497 VA | 300 VA | | | | | 1 | 20 A | WASHER | 54 | 2 #12 + #12 |
| 2 #12 + #12 | 55 | | | | ACCESS CONTROL SYSTEM | 20 A | L 1 | 500 VA | 500 VA | | | | | 1 | L 20 A | INTRUSION ALARM PANEL | 56 |
| 2 #12 + #12 | 57 | RECEPTACLE LAN ROOM | 20 A | 1 | | 300 VA | 449 VA | | | 1 | 15 A | EF-5 | 58 | | | | |
| | 59 | P-R1 | 15 A | 1 | | | 31 VA | 592 VA | | 1 | 15 A | EF-6 | 60 | | | | |
| | 61 | SPARE | 20 A | -- | 0 VA | 320 VA | | | | | | 62 | | | | | |
| 2 #12 + #12 | 63 | RECEPTACLE | 20 A | 1 | | 600 VA | 320 VA | | | 3 | 15 A | ERV-1 | 64 | | | | |
| 2 #12 + #12 | 65 | RECEPTACLE | 20 A | 1 | | | 1200 VA | 320 VA | | | | 66 | | | | | |
| 2 #10 + #12 | 67 | GAS DETECTION PANEL | 20 A | L 1 | 500 VA | 470 VA | | | | 2 | 15 A | RCP-1 & RCP-2 | 68 | | | | |
| | 69 | PANEL G1 | 40 A | 3 | | 750 VA | 470 VA | | | 1 | 30 A | 70 | | | | | |
| | 71 | | | | | | 750 VA | 0 VA | | | | | 72 | | | | |
| | 73 | | | | | | | | | | | | 74 | | | | |
| | 75 | | | | | | | | | | | | 76 | | | | |
| | 77 | | | | | | | 78 | | | | | | | | | |
| | 79 | | | | | | | 80 | | | | | | | | | |
| | 81 | | | | | | | 82 | | | | | | | | | |
| | 83 | | | | | | | 84 | | | | | | | | | |
| | | | | | 43971 VA | 42231 VA | 41814 VA | 130730 VA | | | | | | | | | |
| | | | | | 367 A | 352 A | 348 A | 363 A | | | | | | | | | |

NOTES:

L - LOCK ON BREAKER



NOTES:
 1. SEE DRAWINGS S21 AND S33 FOR ADDITIONAL WIRE SIZES.

| | | |
|---------|-------------------|-------------|
| CO2 NO. | ISSUED FOR TENDER | 18 JUL 2014 |
| NO. | REVISION | DATE |



INGONISH CIVIC BUILDING
 INGONISH, NS
 DSRA JOB #: 12169
 DRAWN BY: STAFF
 CHECKED BY: H.B. / J.L.
 SCALE:

SCHEDULES - SHEET 1

PANEL: EBP2

LOCATION: ELEC CLOSET 113A
 SUPPLY FROM: EBP1
 MOUNTING: SURFACE
 ENCLOSURE: TYPE 2

VOLTS: 208/120V
 PHASES: 3
 WIRES: 4

A.I.C. RATING: 14000
 MAINS TYPE: COPPER
 MAINS RATINGS: 225 A

| WIRE | CKT | CIRCUIT DESCRIPTION | TRIP | POLE | A | | B | | C | | POLE | TRIP | CIRCUIT DESCRIPTION | CKT | WIRE | |
|-------------|-----|---------------------------|------|------|----------|---------|----------|---------|----------|---------|----------|------|--|-------------------|-------------|-------------|
| 2 #12 + #12 | 1 | EXIT LIGHTING | 20 A | 1 | 200 VA | 354 VA | | | | | 1 | 20 A | LIGHTING | 2 | 2 #12 + #12 | |
| 2 #12 + #12 | 3 | LIGHTING ROOM 118 | 20 A | 1 | | | 108 VA | 500 VA | | | 1 | 20 A | FLOOR BOX ROOM 102 | 4 | 2 #12 + #12 | |
| 2 #12 + #12 | 5 | LIGHTING ROOM 119 | 20 A | 1 | | | | | 180 VA | 0 VA | 1 | -- | 20 A | SPARE | 6 | |
| 2 #12 + #12 | 7 | RECEPTACLES | 20 A | 1 | 600 VA | 1224 VA | | | | | 1 | 30 A | EFFLUENT PUMP (EPP) | 8 | | |
| 2 #12 + #12 | 9 | RECEPTACLES | 20 A | 1 | | | 900 VA | 1020 VA | | | 1 | 20 A | DOOR OPERATOR D1 & D2 | 10 | 2 #12 + #12 | |
| 2 #10 + #12 | 11 | LIGHTING | 20 A | 1 | | | | | 544 VA | 0 VA | 1 | -- | 20 A | SPARE | 12 | |
| 2 #12 + #12 | 13 | REFRIGERATOR ROOM 102 | 20 A | 1 | 1000 VA | 0 VA | | | | | 1 | -- | 20 A | SPARE | 14 | |
| 2 #12 + #12 | 15 | RECEPTACLES | 15 A | 1 | | | 1200 VA | 900 VA | | | 1 | 20 A | RECEPTACLES | 16 | 2 #12 + #12 | |
| 2 #12 + #12 | 17 | SPARE | 20 A | -- | 1 | | | | 0 VA | 412 VA | | | | 18 | | |
| 2 #12 + #12 | 19 | RECEPTACLE | 20 A | 1 | 300 VA | 412 VA | | | | | 2 | 15 A | FPB-3 | 20 | | |
| 2 #10 + #12 | 21 | REFRIGERATOR ROOM 119 | 20 A | 1 | | | 1000 VA | 800 VA | | | 2 | 20 A | CONTROLLER SMC-3 AND RADIANT HEAT RM 103 | 22 | 2 #12 + #12 | |
| | 23 | | | | | | | | 550 VA | 800 VA | | | | 24 | | |
| | 25 | CUH-3 | 15 A | 2 | 550 VA | 1000 VA | | | | | 1 | 20 A | RECEPTACLE EXERCISE | 26 | 2 #10 + #12 | |
| 2 #10 + #12 | 27 | RECEPTACLE EXERCISE | 20 A | 1 | | | 1000 VA | 300 VA | | | 1 | 20 A | RECEPTACLE | 28 | 2 #12 + #12 | |
| | 29 | | | | | | | | 1503 VA | 300 VA | | 1 | 20 A | VAPOR EXHAUST FAN | 30 | 2 #12 + #12 |
| | 31 | CUH-1 | 20 A | 2 | | | | | | | 1 | 20 A | RECEPTACLE | 32 | 2 #12 + #12 | |
| 2 #12 + #12 | 33 | RECEPTACLE | 20 A | 1 | | | 300 VA | 300 VA | | | 1 | 20 A | RECEPTACLE | 34 | 2 #12 + #12 | |
| 2 #10 + #12 | 35 | REFRIGERATOR ROOM 119 | 20 A | 1 | | | | | 1000 VA | 1000 VA | 1 | 20 A | RECEPTACLE EXERCISE | 36 | 2 #10 + #12 | |
| 2 #10 + #12 | 37 | RECEPTACLE EXERCISE | 20 A | 1 | 1000 VA | 1000 VA | | | | | 1 | 20 A | MICROWAVE ROOM 102 | 38 | 2 #12 + #12 | |
| 2 #12 + #12 | 39 | RECEPTACLE | 20 A | 1 | | | 300 VA | 600 VA | | | 1 | 20 A | RECEPTACLES | 40 | 2 #12 + #12 | |
| 2 #10 + #12 | 41 | RECEPTACLE EXERCISE | 20 A | 1 | | | | | 1000 VA | 1000 VA | 1 | 20 A | PHOTOCOPIER | 42 | 2 #12 + #12 | |
| 2 #10 + #12 | 43 | RECEPTACLE | 20 A | 1 | 600 VA | 1500 VA | | | | | 1 | 20 A | RECEPTACLES | 44 | 2 #12 + #12 | |
| 2 #12 + #12 | 45 | RECEPTACLES | 20 A | 1 | | | 1500 VA | 1200 VA | | | 1 | 20 A | RECEPTACLES | 46 | 2 #10 + #12 | |
| 2 #12 + #12 | 47 | RECEPTACLE OUTSIDE | 20 A | 1 | | | | | 300 VA | 600 VA | 1 | 20 A | RECEPTACLES | 48 | 2 #10 + #12 | |
| 2 #12 + #12 | 49 | RECEPTACLE | 20 A | 1 | 1500 VA | 824 VA | | | | | 2 | 20 A | FPB-1 & FPB-5 | 50 | | |
| 2 #12 + #12 | 51 | INFORMATION SCREEN | 20 A | 1 | | | 300 VA | 824 VA | | | | | | 52 | | |
| 2 #10 + #12 | 53 | RECEPTACLES | 20 A | 1 | | | | | 1500 VA | 1500 VA | 1 | 20 A | RECEPTACLES | 54 | 2 #12 + #12 | |
| | 55 | SPARE | 20 A | -- | 1 | 0 VA | 600 VA | | | | | | | 56 | | |
| | 57 | FPB-2 & FPB-4 | 20 A | 2 | | | 824 VA | 600 VA | | | 2 | 20 A | RADIANT HEAT RM 102 | 58 | 2 #10 + #12 | |
| | 59 | | | | | | | | 824 VA | 824 VA | | | | 60 | | |
| 2 #10 + #12 | 61 | RADIANT HEAT RM 113 | 30 A | 2 | 1800 VA | 824 VA | | | | | 1 | -- | 20 A | SPARE | 62 | |
| | 63 | | | | | | 1800 VA | 0 VA | | | 1 | -- | 20 A | SPARE | 64 | |
| 2 #12 + #12 | 65 | SPARE | 20 A | -- | 1 | | | | 0 VA | 0 VA | 1 | -- | 20 A | SPARE | 66 | |
| 2 #12 + #12 | 67 | LIGHTING & POWER ROOM 115 | 15 A | 1 | 338 VA | 0 VA | | | | | 1 | -- | 20 A | SPARE | 68 | |
| | 69 | SPARE | 20 A | -- | 1 | | | | 0 VA | | | | | 70 | | |
| | 71 | | | | | | | | | | | | | 72 | | |
| | 73 | | | | | | | | | | | | | 74 | | |
| | 75 | | | | | | | | | | | | | 76 | | |
| | 77 | | | | | | | | | | | | | 78 | | |
| | 79 | | | | | | | | | | | | | 80 | | |
| | 81 | | | | | | | | | | | | | 82 | | |
| | 83 | | | | | | | | | | | | | 84 | | |
| | | | | | 17429 VA | | 16276 VA | | 13837 VA | | 47541 VA | | | | | |
| | | | | | 148 A | | 139 A | | 115 A | | 132 A | | | | | |

NOTES:

PANEL: EBP3

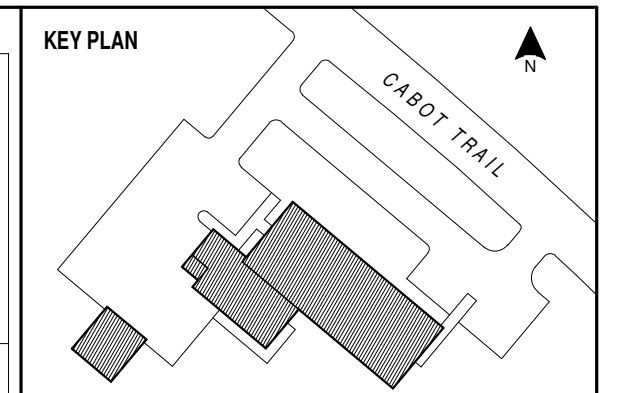
LOCATION: ROOM 110
 SUPPLY FROM: EBP1
 MOUNTING: SURFACE
 ENCLOSURE: TYPE 2

VOLTS: 208/120V
 PHASES: 3
 WIRES: 4

A.I.C. RATING: 14000
 MAINS TYPE: COPPER
 MAINS RATINGS: 225 A

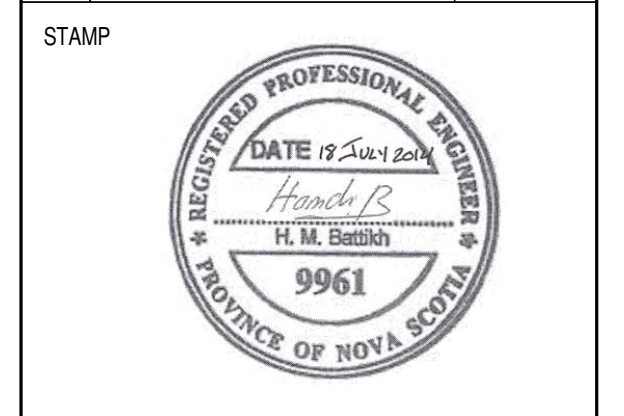
| WIRE | CKT | CIRCUIT DESCRIPTION | TRIP | POLE | A | | B | | C | | POLE | TRIP | CIRCUIT DESCRIPTION | CKT | WIRE | |
|-------------|-----|----------------------|------|------|----------|---------|----------|---------|----------|---------|----------|------|--|-------|-------------|--|
| | 1 | ETP-2 | 20 A | 1 | 102 VA | 0 VA | | | | | 1 | -- | 20 A | SPARE | 2 | |
| | 3 | SPARE | 20 A | -- | 1 | | 0 VA | 600 VA | | | | | | 4 | 2 #12 + #12 | |
| | 5 | SPARE | 20 A | -- | 1 | | | | 0 VA | 0 VA | | | | 6 | | |
| 2 #10 + #12 | 7 | RECEPTACLE OUTSIDE | 20 A | 1 | 300 VA | 751 VA | | | | | 2 | 15 A | UH-4 | 8 | | |
| 2 #10 + #12 | 9 | RECEPTACLES | 20 A | 1 | | | 1350 VA | 751 VA | | | | | | 10 | | |
| 2 #10 + #12 | 11 | RECEPTACLES | 20 A | 1 | | | | | 1500 VA | 1500 VA | | | | 12 | 2 #10 + #12 | |
| | 13 | | | | | | | | | | | | | 14 | | |
| | 15 | CU-4 | 15 A | 2 | 619 VA | 1500 VA | | | | | 1 | 20 A | RADIANT HEAT ROOMS 204, 211 AND 212 | 16 | 2 #12 + #12 | |
| | 17 | | | | | | 619 VA | 300 VA | | | | | | 18 | 2 #12 + #12 | |
| | 19 | UH-6 AND UH-7 | 20 A | 2 | | | | | 1503 VA | 1000 VA | 1 | 20 A | REFRIGERATOR ROOM 205 | 20 | 2 #12 + #12 | |
| 2 #12 + #12 | 21 | RECEPTACLE FOR EF-2 | 20 A | 1 | 1503 VA | 707 VA | | | | | 2 | 15 A | CU-2 | 22 | | |
| | 23 | | | | | | | | | | | | | 24 | 2 #12 + #12 | |
| | 25 | CU-3 | 15 A | 2 | 707 VA | 300 VA | | | 707 VA | 300 VA | 1 | 20 A | RECEPTACLE FOR EF-3 | 26 | 2 #12 + #12 | |
| 2 #12 + #12 | 27 | RECEPTACLE | 20 A | 1 | | | | | | | 1 | 20 A | RECEPTACLE FOR EF-1 | 28 | 2 #12 + #12 | |
| 2 #12 + #12 | 29 | EQUIPMENT RECEPTACLE | 20 A | 1 | | | 300 VA | 300 VA | | | 1 | 20 A | RECEPTACLE | 30 | 2 #12 + #12 | |
| 2 #10 + #12 | 31 | RECEPTACLE | 20 A | 1 | 600 VA | 1000 VA | | | 1000 VA | 1000 VA | 1 | 20 A | EQUIPMENT RECEPTACLE | 32 | 2 #10 + #12 | |
| 2 #12 + #12 | 33 | EF-2 | 15 A | 1 | | | | | | | | | | 34 | 2 #12 + #12 | |
| | 35 | EF-3 | 15 A | 1 | | | 449 VA | 750 VA | | | 2 | 20 A | RADIANT HEAT ROOMS 206, 208, 209 AND 210 | 36 | 2 #10 + #12 | |
| | 37 | EF-1 | 15 A | 1 | 449 VA | 0 VA | | | 449 VA | 750 VA | 1 | -- | 20 A | SPARE | 38 | |
| 2 #12 + #12 | 39 | RECEPTACLES | 20 A | 1 | | | 600 VA | 1500 VA | | | 1 | 20 A | RECEPTACLES COLD STOR. | 40 | 2 #10 + #12 | |
| 2 #10 + #12 | 41 | RECEPTACLES OUTSIDE | 20 A | 1 | | | | | 600 VA | 900 VA | 1 | 20 A | RECEPTACLES | 42 | 2 #10 + #12 | |
| 2 #10 + #12 | 43 | RECEPTACLES | 20 A | 1 | 1200 VA | 300 VA | | | | | 1 | 15 A | RECEPT EXT. COLD STOR. | 44 | 2 #10 + #12 | |
| 2 #12 + #12 | 45 | SPARE | 20 A | -- | 1 | | | 0 VA | 425 VA | | | | | 46 | | |
| 2 #10 + #12 | 47 | RPS-3 | 15 A | L | 1 | | | | 1000 VA | 425 VA | 2 | 20 A | CONTROLLER SMC-1 | 48 | 2 #12 + #12 | |
| | 49 | SPARE | 20 A | -- | 1 | 0 VA | 0 VA | | | | | | | 50 | | |
| | 51 | | | | | | | 422 VA | 264 VA | | | | | 52 | | |
| | 53 | ERV-3 | 15 A | 3 | | | | | 422 VA | 264 VA | 3 | 20 A | OHD-1 | 54 | | |
| | 55 | | | | | | 422 VA | 264 VA | | | | | | 56 | | |
| | 57 | | | | | | | 264 VA | 1000 VA | | | | | 58 | | |
| | 59 | OHD-2 | 20 A | 3 | | | | | 264 VA | 1000 VA | 3 | 15 A | UH-1 | 60 | | |
| | 61 | | | | | 264 VA | 1000 VA | | | | | | | 62 | | |
| | 63 | | | | | | | 1000 VA | 425 VA | | | | | 64 | 2 #10 + #12 | |
| | 65 | UH-2 | 15 A | 3 | | | | | 1000 VA | 425 VA | 2 | 20 A | CONTROLLER SMC-2 | 66 | | |
| | 67 | | | | 1000 VA | 550 VA | | | | | 2 | 15 A | CUH-4 | 68 | | |
| 2 #12 + #12 | 69 | SOLENOID VALVE | 20 A | 1 | | | 102 VA | 550 VA | | | | | | 70 | | |
| | 71 | | | | | | | | | | | | | 72 | | |
| | 73 | | | | | | | | | | | | | 74 | | |
| | 75 | | | | | | | | | | | | | 76 | | |
| | 77 | | | | | | | | | | | | | 78 | | |
| | 79 | | | | | | | | | | | | | 80 | | |
| | 81 | | | | | | | | | | | | | 82 | | |
| | 83 | | | | | | | | | | | | | 84 | | |
| | | | | | 13538 VA | | 12978 VA | | 16009 VA | | 42525 VA | | | | | |
| | | | | | 114 A | | 108 A | | 134 A | | 118 A | | | | | |

NOTES:



- NOTES:
 1. SEE DRAWINGS 521 AND 533 FOR ADDITIONAL WIRE SIZES.

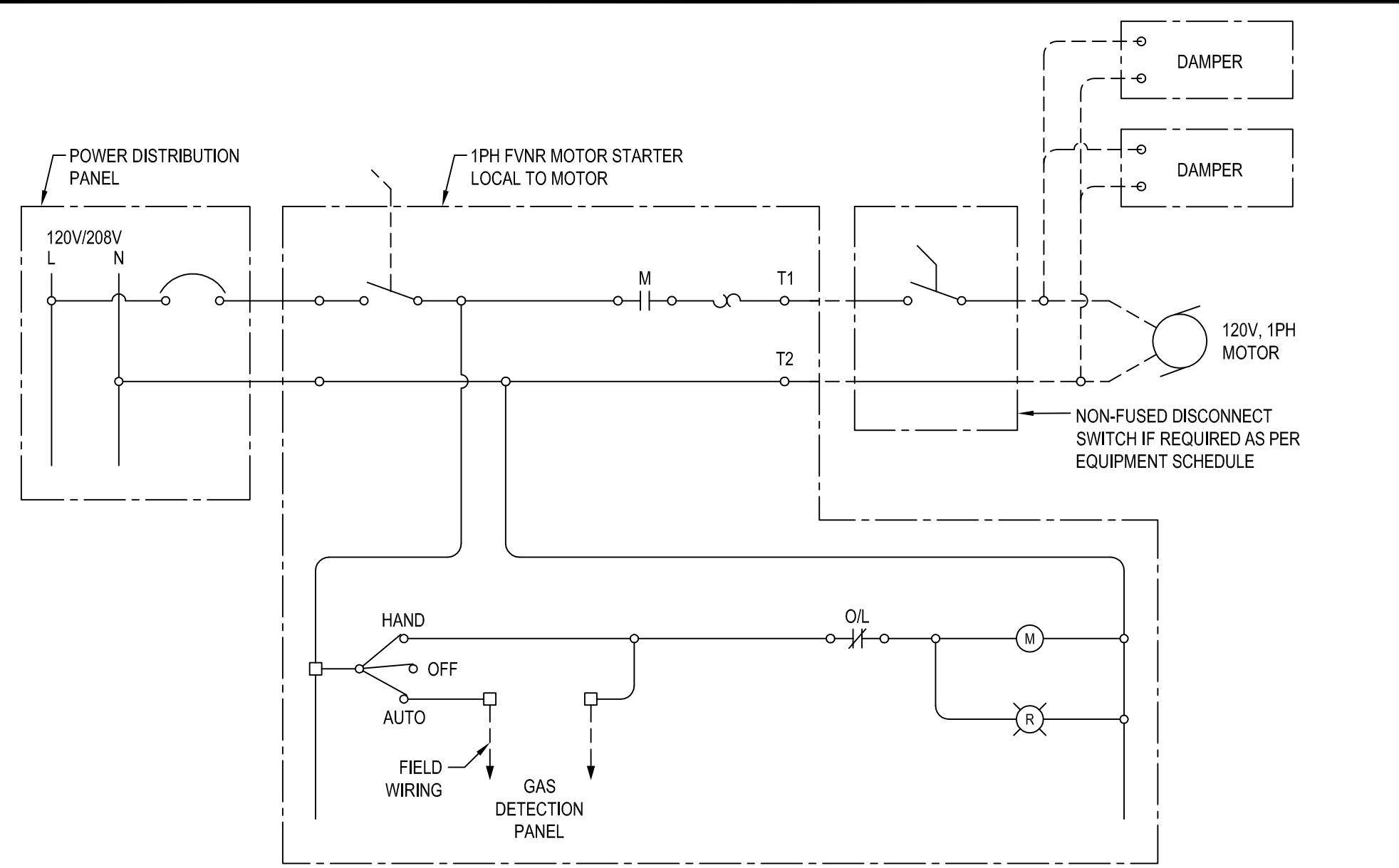
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|----------|-------------------|-------------|
| NO. | ISSUED FOR TENDER | 18 JUL 2014 |
| REVISION | | DATE |



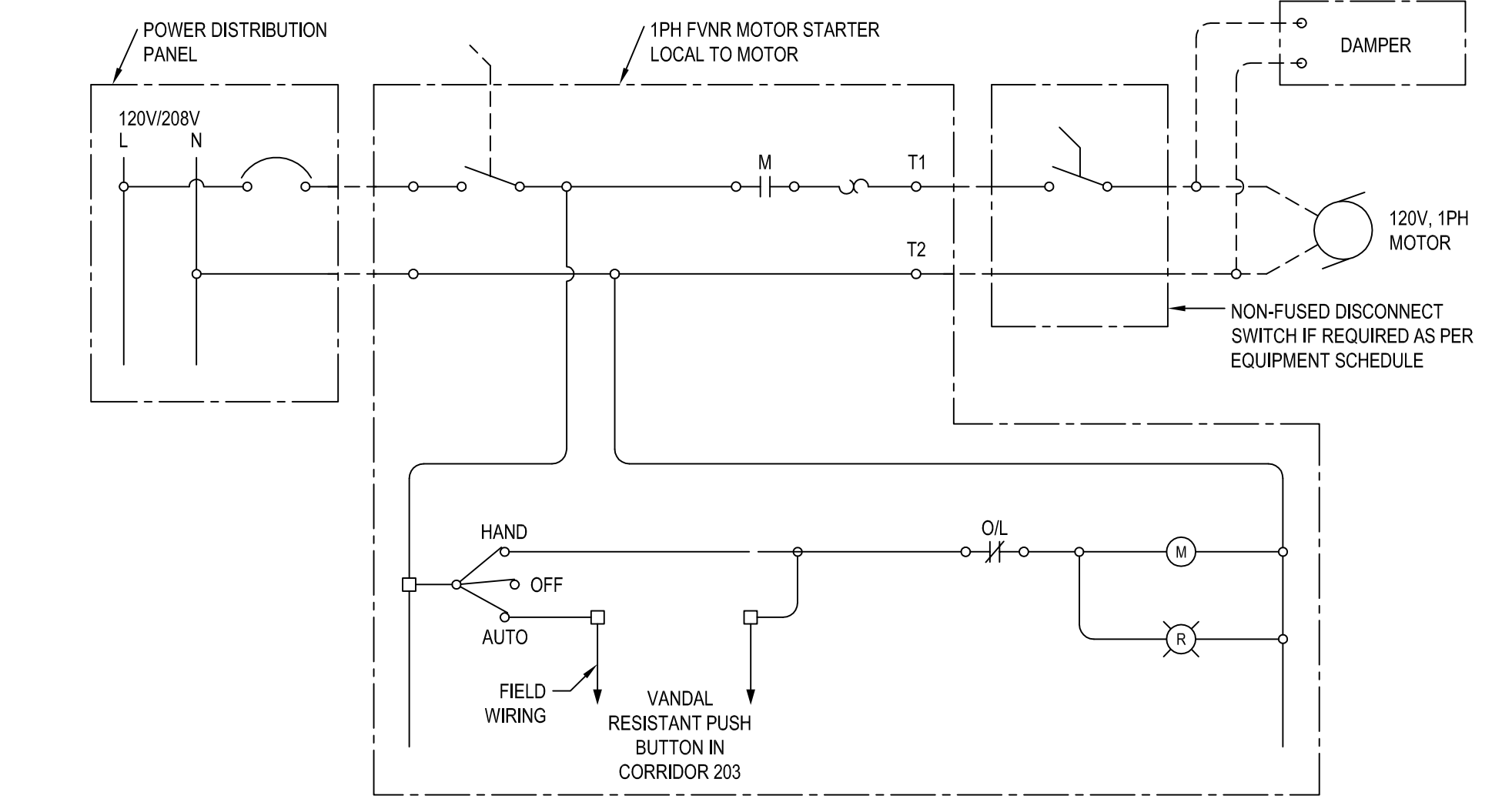
INGONISH CIVIC BUILDING
 INGONISH, NS
 DSRA JOB #: 12169
 DRAWN BY: STAFF
 CHECKED BY: H.B. / J.L.
 SCALE:

SCHEDULES - SHEET 2

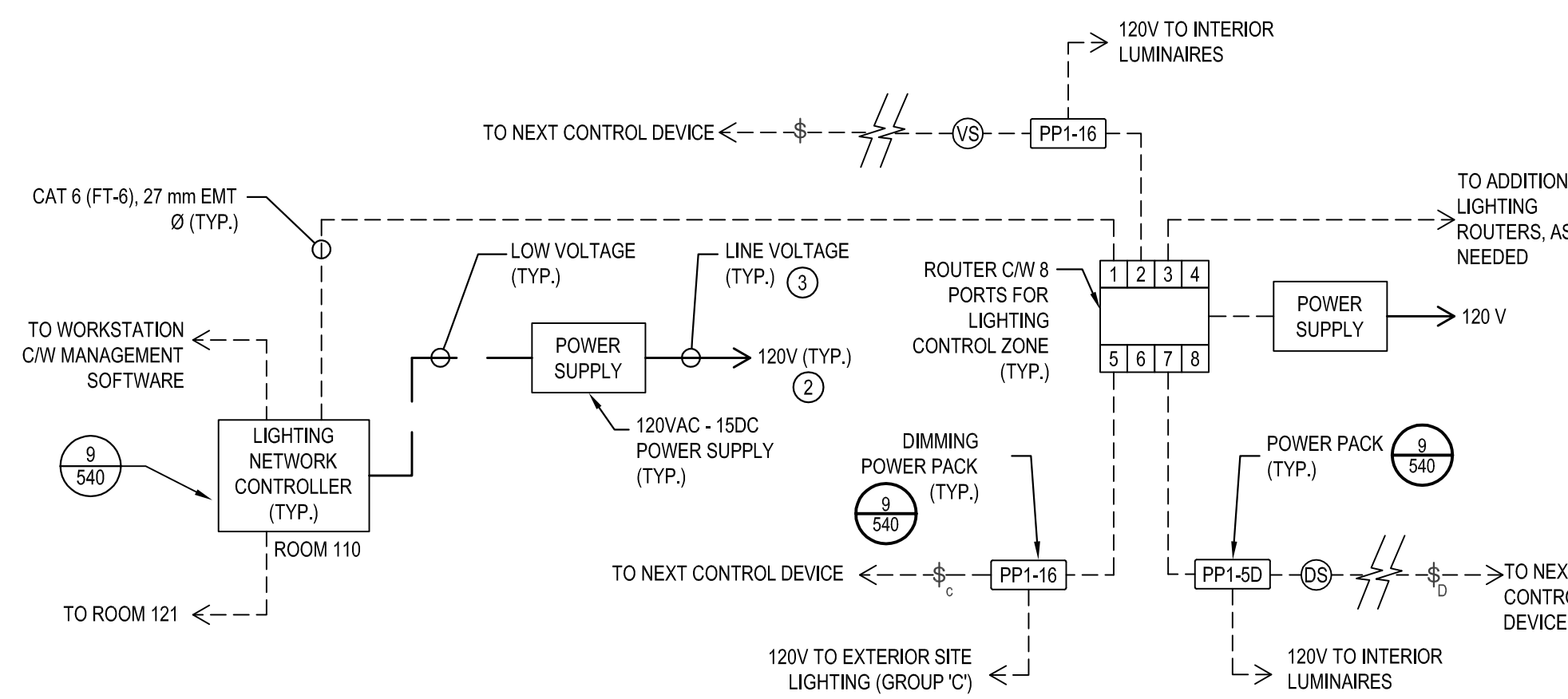
615976-D-EL-DWG 2016.01



1
531
SCHEMATIC - EF-1 MOTOR STARTER
SCALE : N.T.S.

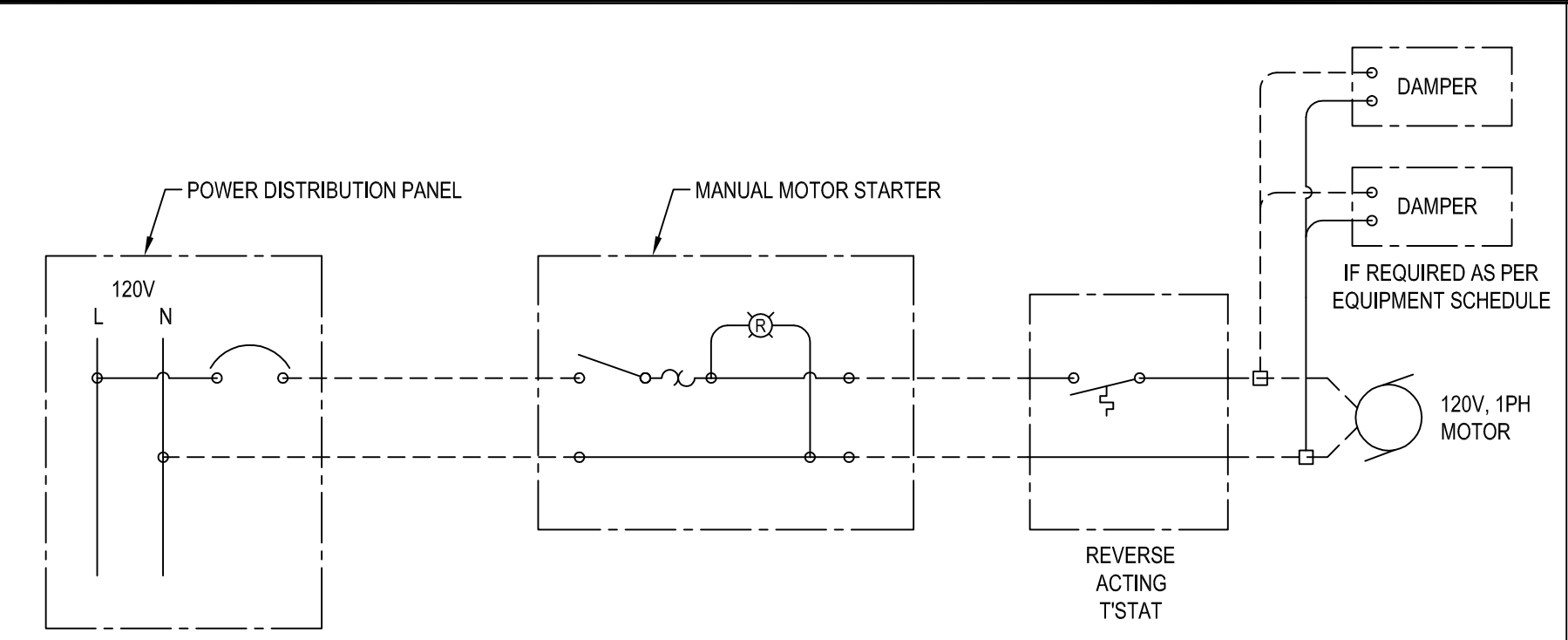


3
531
SCHEMATIC - EF-3 MOTOR STARTER
SCALE : N.T.S.

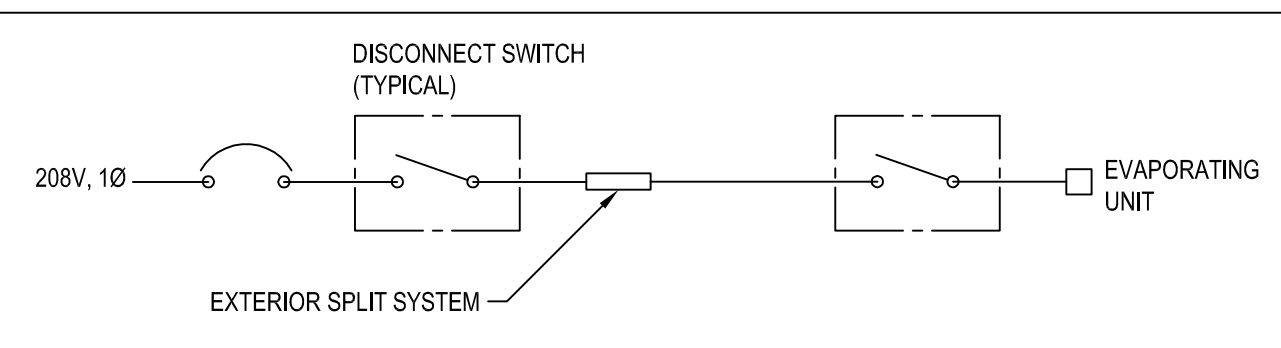


- NOTES: ①
- QUANTITY OF LOW VOLTAGE SWITCHES AND SENSOR DEVICES VARIES IN EACH ROOM. QUANTITY TO BE OBTAINED FROM LIGHTING LAYOUT, DRAWING 510. SEE DRAWINGS 510 AND 502 FOR FIXTURE LOCATIONS.
 - USE AS REQUIRED CIRCUIT BREAKERS IN PANEL 'EBP1', IDENTIFIED AS 'SPARE FOR LIGHTING NETWORK CONTROLLERS AND ROUTERS'.
 - SIZE CONDUCTORS TO NOT EXCEED VOLTAGE DROP REQUIREMENTS, MINIMUM SIZE #12 AWG. INSTALL EMT CONDUIT, MINIMUM SIZE 21mm.

5
-
DIAGRAM - LIGHTING CONTROL RISER
SCALE : N.T.S.

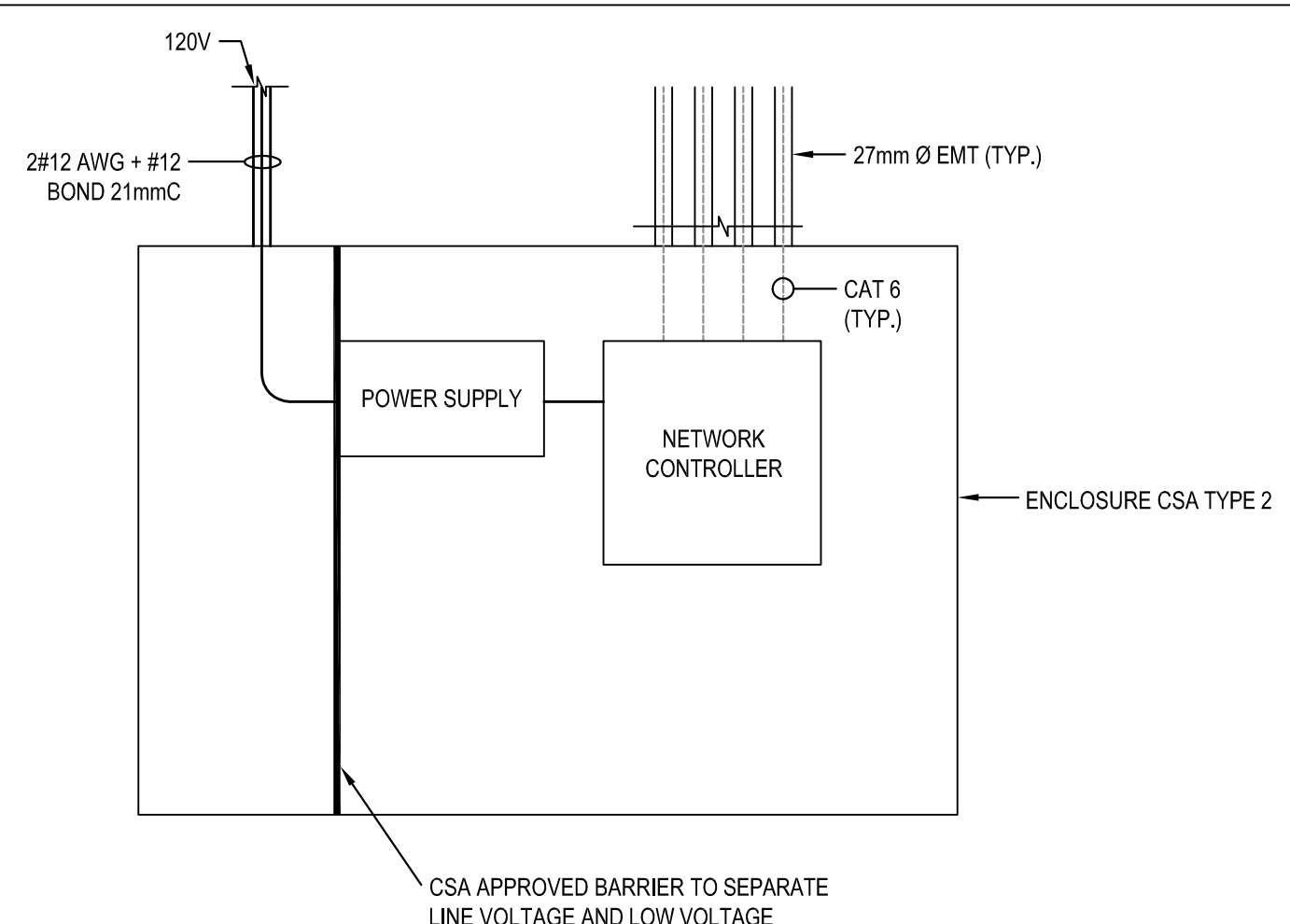


2
531
SCHEMATIC - EXHAUST FAN EF-2, EF-4, EF-5, EF-6 & EF-7
SCALE : N.T.S.

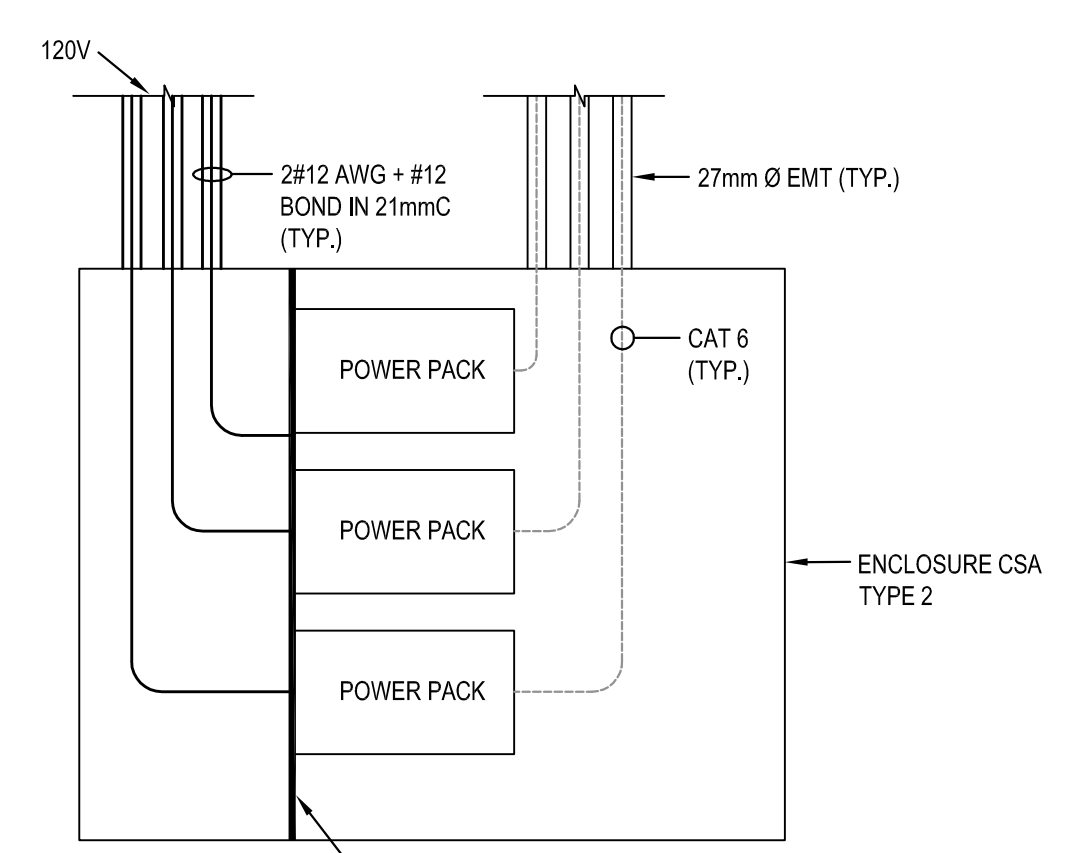


- NOTES:
- PROVIDE SEPARATE CONDUIT FOR POWER AND CONTROL WIRING, SIZED IN ACCORDANCE WITH CEC.
 - PROVIDE CONNECTING CABLES (POWER AND CONTROL) BETWEEN OUTDOOR AND INDOOR UNIT AS PER MANUFACTURER'S RECOMMENDATION.
 - CU-4 COOLING COIL IS LOCATED IN ROOM 202 (NOT SHOWN IN DRAWING). PROVIDE SEPARATE CONDUIT FOR POWER AND CONTROL WIRING, SIZED IN ACCORDANCE WITH CEC.

4
531
CONDENSING UNITS
SCALE : N.T.S.

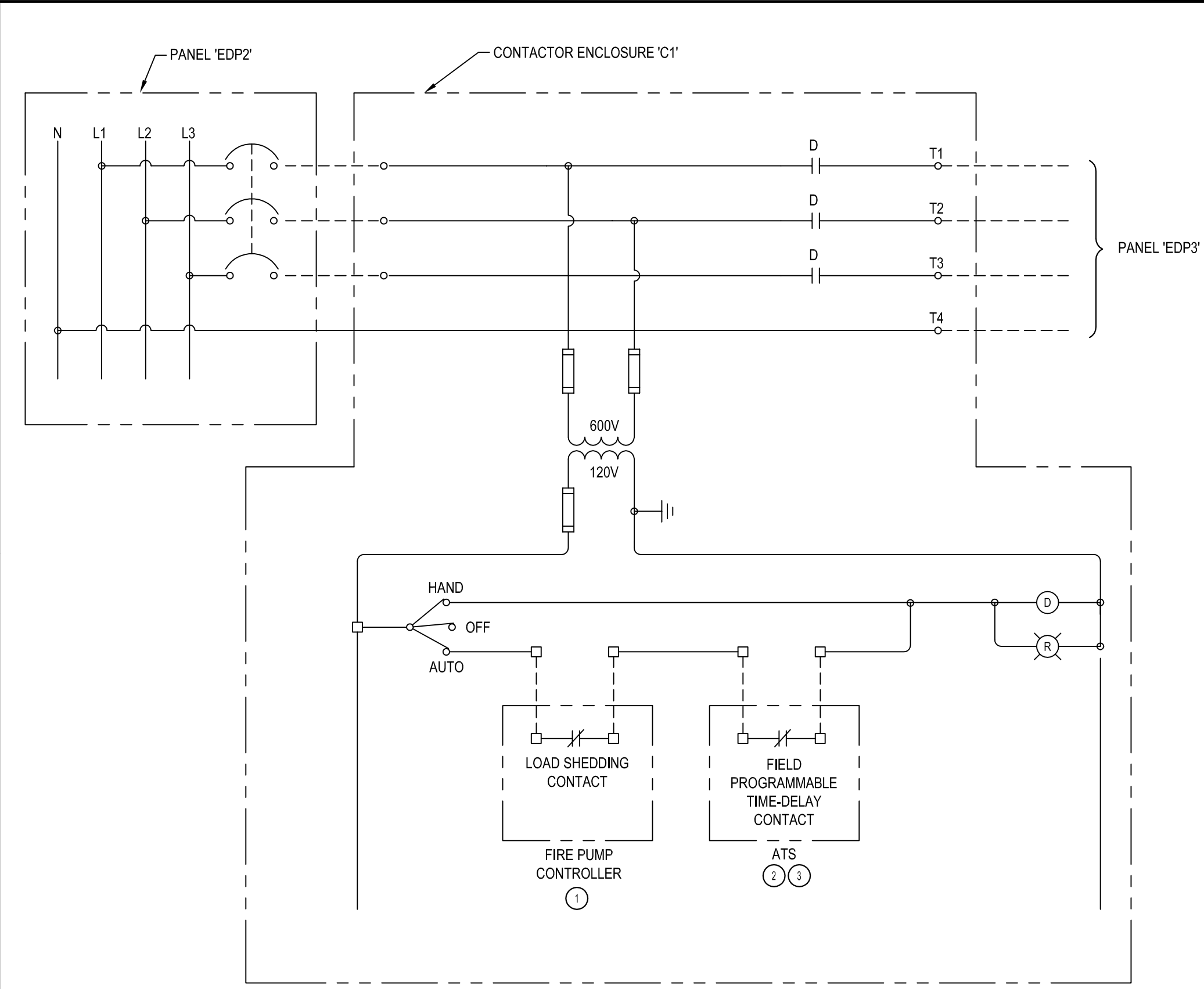


8
-
ENCLOSURE FOR LIGHTING CONTROLLER IN ELECTRICAL ROOM '110'
SCALE : N.T.S.



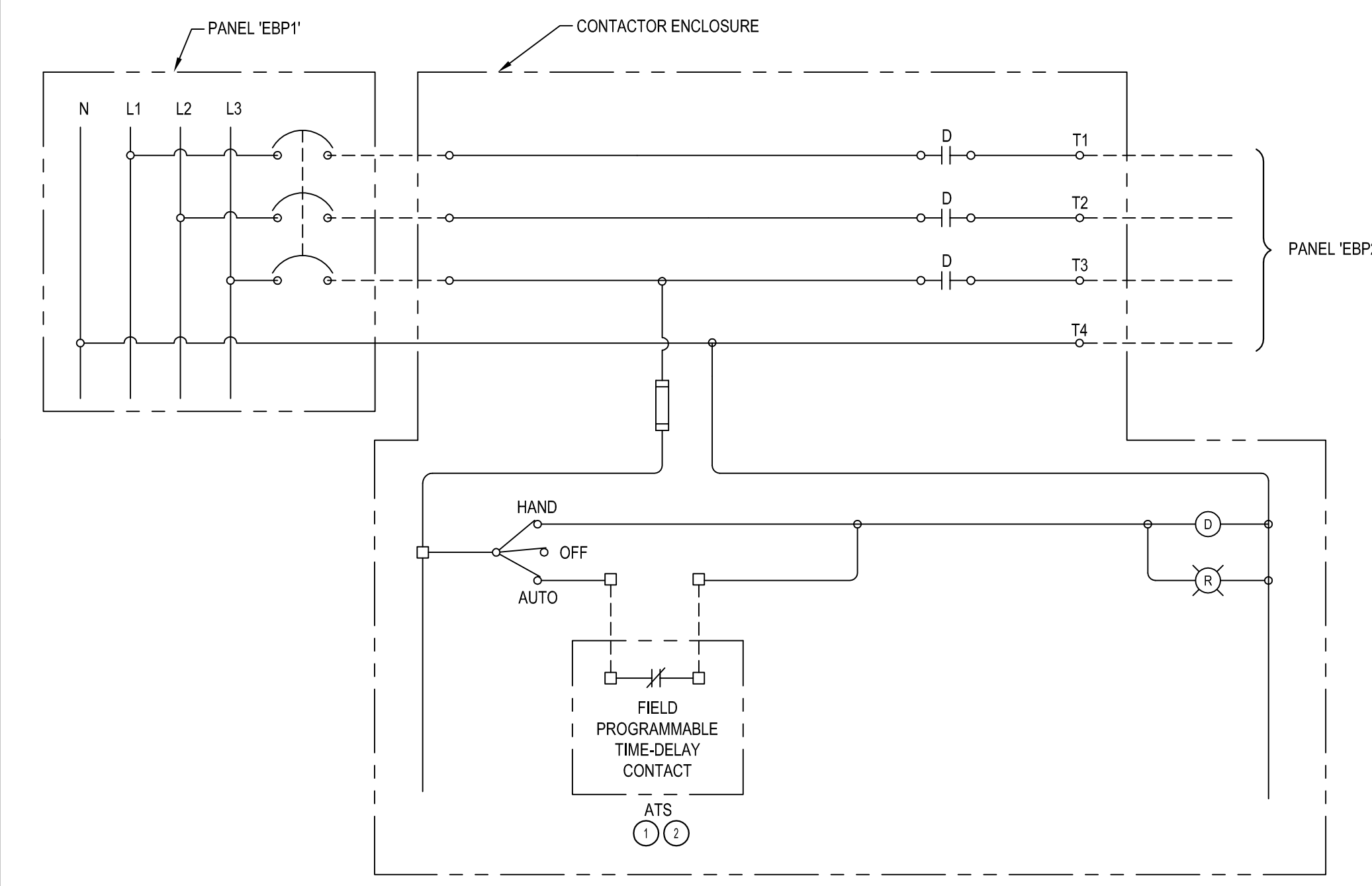
- NOTES: ①
- 3 POWER PACKS MINIMUM AND 5 MAXIMUM PER ENCLOSURE.

9
-
ENCLOSURE FOR POWER PACK
SCALE : N.T.S.



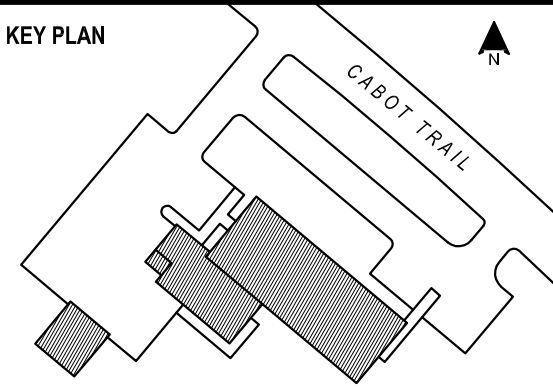
- NOTES: ①
- LOAD SHEDDING CONTACT FROM THE FIRE PUMP CONTROLLER DE-ENERGIZES CONTACTOR 'D' WHEN FIRE PUMP OPERATES.
 - STEP-LOAD FIELD PROGRAMMABLE TIME-DELAY CONTACT FROM THE ATS DE-ENERGIZES CONTACTOR 'D' WHEN ATS IN 'EMERGENCY'.
 - ATS IN NORMAL POWER POSITION: N/C CONTACT WILL REMAIN CLOSED.
- ATS IN EMERGENCY POWER POSITION: WHEN ATS SWITCHES FROM 'NORMAL' TO 'EMERGENCY' THE N/C CONTACT WILL OPEN IMMEDIATELY. AFTER A SET TIME-DELAY (2 MINUTE) THE CONTACT WILL RETURN TO ITS ORIGINAL STATE (RE-CLOSE) AND REMAIN CLOSED.
- WHEN THE ATS SWITCHES BACK TO NORMAL POWER POSITION THE CONTACT WILL REMAIN CLOSED.

6
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SCHEMATIC - CONTACTOR 'C-1'
SCALE : N.T.S.

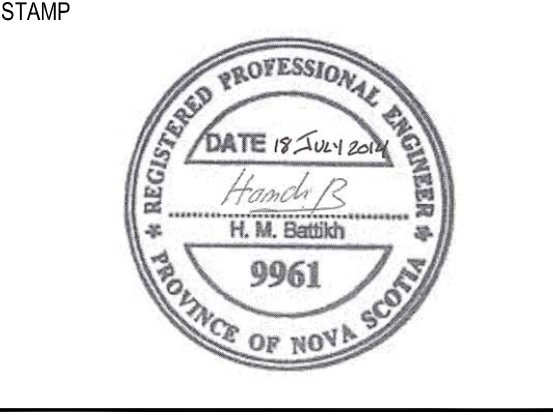


- NOTES: ①
- STEP-LOAD FIELD PROGRAMMABLE TIME-DELAY CONTACT FROM THE ATS DE-ENERGIZES CONTACTOR 'D' WHEN ATS IN 'EMERGENCY'.
 - ATS IN NORMAL POWER POSITION: N/C CONTACT WILL REMAIN CLOSED.
- ATS IN EMERGENCY POWER POSITION: WHEN ATS SWITCHES FROM 'NORMAL' TO 'EMERGENCY' THE N/C CONTACT WILL OPEN IMMEDIATELY. AFTER A SET TIME-DELAY (2 MINUTE) THE CONTACT WILL RETURN TO ITS ORIGINAL STATE (RE-CLOSE) AND REMAIN CLOSED.
- WHEN THE ATS SWITCHES BACK TO NORMAL POWER POSITION THE CONTACT WILL REMAIN CLOSED.

7
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SCHEMATIC - CONTACTOR 'C-2'
SCALE : N.T.S.



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| NO. | REVISION | DATE |



INGONISH CIVIC BUILDING
Project Address
DSRA JOB #: 12169
DRAWN BY: STAFF
CHECKED BY: H.B./J.L.
SCALE: AS INDICATED