

# Northern Birch Credit Union

## 9 MADISON AVENUE

## TORONTO, ON



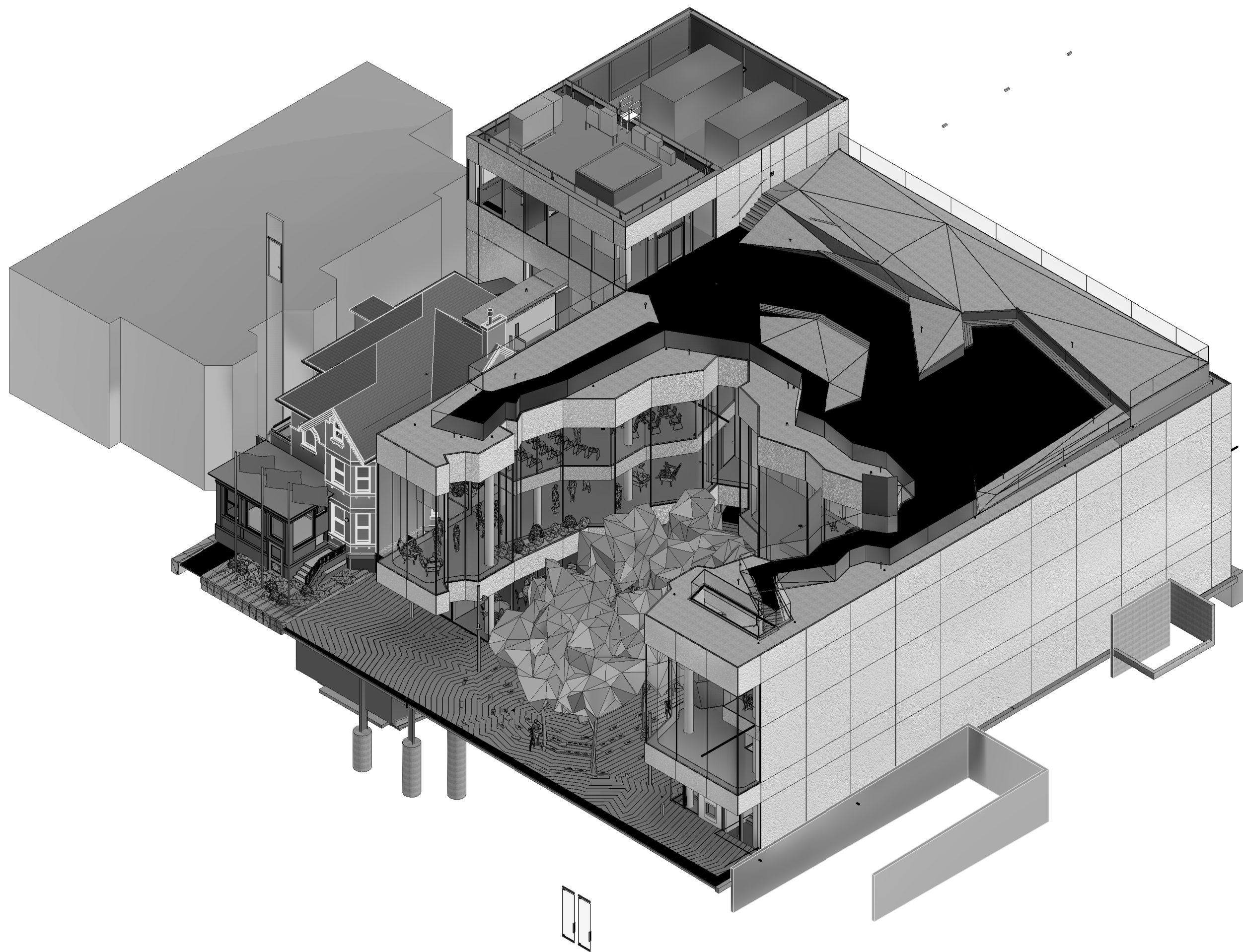
**Smith + Andersen**  
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General Notes

General Contractor must check and verify all dimensions before proceeding with the Work.  
DO NOT SCALE DRAWINGS

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Notes



### ELECTRICAL DRAWING LIST

| SHEET No. | SHEET NAME                                  | SCALE |
|-----------|---------------------------------------------|-------|
| E000      | COVER & DRAWING LIST - ELECTRICAL           | N.T.S |
| E001      | LEGENDS - ELECTRICAL                        | N.T.S |
| E002      | LEGENDS - ELECTRICAL                        | N.T.S |
| E003      | STANDARD DETAILS - ELECTRICAL               | N.T.S |
| E004      | PANEL SCHEDULE                              | N.T.S |
| E005      | LUMINAIRE AND INVERTER SCHEDULE             | N.T.S |
| E006      | STANDARD DETAILS - SECURITY                 | N.T.S |
| E007      | STANDARD DETAILS - SECURITY                 | N.T.S |
| E008      | STANDARD DETAILS - SECURITY                 | N.T.S |
| E009      | STANDARD DETAILS - COMMUNICATION            | N.T.S |
| E010      | STANDARD DETAILS - COMMUNICATION            | N.T.S |
| E011      | STANDARD DETAILS - COMMUNICATION            | N.T.S |
| E101      | COMMUNICATION RISER DIAGRAM                 | N.T.S |
| E102      | SECURITY RISER DIAGRAM                      | N.T.S |
| E302      | GROUND FLOOR PLAN - POWER & SYSTEMS & COMMS | 1:100 |
| E402      | GROUND FLOOR PLAN - LIGHTING                | 1:100 |
| E502      | GROUND FLOOR PLAN - FIRE ALARM & SECURITY   | 1:100 |
| E602      | GROUND FLOOR PLAN - ELECTRICAL DEMOLITION   | 1:100 |
| E701      | ENLARGED PLAN - IT ROOM 104                 | 1:100 |

**CLOSEOUT DOCUMENT CHECKLIST:**

ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING DOCUMENTS FIVE (5) DAYS PRIOR TO OCCUPANCY:

- ESA CERTIFICATE
- NOTING ALL NEW DEVICE TYPES AND QUANTITIES TESTED
- EMERGENCY LIGHTING LETTER
- LETTER SHALL STATE EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS [3.2.7.3 AND 3.2.7.4].
- CHAIN HUNG LIGHTING LETTER
- WRITTEN CONFIRMATION ALL NEW AND RELOCATED CEILING LIGHTING FIXTURES HAVE BEEN SUPPORTED FROM THE STRUCTURE INDEPENDENT FROM SUSPENDED CEILING)
- FIRE ALARM VERIFICATION REPORT
- COMPLETE WITH AUDIBILITY LEVELS FOR BOTH CLOSED DOOR AND OPEN DOOR SCENARIO.
- MAGLOCK DEVICES FULLY TESTED AND NOTED IN REPORT
- MUSIC SYSTEM SHUT DOWN RELAY INTEGRATION TEST WITH FIRE ALARM SYSTEM AND NO DEFICIENCIES)

|   |                          |            |
|---|--------------------------|------------|
| 4 | ISSUED FOR PERMIT TENDER | 2026.01.29 |
| 3 | ISSUED FOR PROGRESS SET  | 2026.01.16 |
| 2 | ISSUED FOR COORDINATION  | 2025.12.12 |
| 1 | ISSUED FOR CLIENT REVIEW | 2025.11.21 |

| Rev. # | Description | Date |
|--------|-------------|------|
|--------|-------------|------|



Consultants

STRUCTURAL  
Entuitive  
MECHANICAL & ELECTRICAL  
Smith + Andersen  
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Hartridge + Cross Ltd.  
HERITAGE  
Robyn Huebner Architect  
LANDSCAPE  
North Design Office

9 MADISON AVENUE  
TORONTO, ON  
Northern Birch Credit Union

### COVER & DRAWING LIST - ELECTRICAL

Project Number: 17488.003  
Drawing Scale:  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN

| SYMBOL                                                                            | DESCRIPTION                                                                                                   | SYMBOL                                                                            | DESCRIPTION                                                                                                                 |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| SIGNALLING DEVICES                                                                |                                                                                                               |                                                                                   |                                                                                                                             |
|  | CEILING MOUNTED HORN                                                                                          |  | WALL MOUNTED FIRE ALARM BELL. 103mm (4") UNLESS OTHERWISE NOTED                                                             |
|  | WALL MOUNTED HORN                                                                                             |  | WALL MOUNTED FIRE ALARM BELL+STROBE COMBINATION.                                                                            |
|  | CEILING MOUNTED DOUBLE SIDED HORN                                                                             |  | SPEAKER HORN                                                                                                                |
|  | WALL MOUNTED DOUBLE SIDED HORN                                                                                |  | CEILING MOUNTED EMERGENCY EVACUATION SPEAKER                                                                                |
|  | CEILING MOUNTED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED              |  | WALL MOUNTED EMERGENCY EVACUATION SPEAKER                                                                                   |
|  | WALL MOUNTED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED                 |  | CEILING MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED. |
|  | CEILING MOUNTED DOUBLE SIDED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN 15CD UNLESS OTHERWISE NOTED. |  | WALL MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.    |
|  | WALL MOUNTED DOUBLE SIDED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN 15CD UNLESS OTHERWISE NOTED.    |  | CEILING MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED                                  |
|  | MINI HORN                                                                                                     |  | WALL MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.                                    |
| ANCILLARY DEVICES                                                                 |                                                                                                               |                                                                                   |                                                                                                                             |
|  | ISOLATION MODULE                                                                                              |  | MONITORING MODULE FOR ALARM OR SUPERVISORY                                                                                  |
|  | FIELD INSTALLED ADDRESSABLE CONTROL POINT                                                                     |  | TROUBLE AND ALARM CONNECTION TO PRE-ACTION CONTROL PANEL                                                                    |
|  | "FIRE, DO NOT ENTER" SIGN                                                                                     |  | FLOOR MOUNTED DOOR HOLD OPEN DEVICE                                                                                         |
|  | FIRE ALARM GRAPHIC (PASSIVE/ACTIVE)                                                                           |  | WALL MOUNTED DOOR HOLD OPEN DEVICE                                                                                          |
|  | VIDEO DISPLAY TERMINAL FOR BUILDING OPERATIONS PERSONNEL                                                      |  | FIRE ALARM PANEL, CONTROL, DGP OR ANNUNCIATOR AS NOTED                                                                      |
|  | FIRE FIGHTERS HAND SET                                                                                        |  | END-OF-LINE RESISTOR TERMINATION                                                                                            |
|  | FIRE ALARM SHUT DOWN                                                                                          |  | SMOKE DAMPER, USED IN CONJUNCTION WITH MONITORING DEVICE FOR POSITION ANNUNCIATION AND CONTROL DEVICE                       |
|  | FIRE ALARM START UP                                                                                           |  | 10 MINUTES SILENCE SWITCH FOR SPEAKERS IN SUITES                                                                            |
|  | REMOTE TESTING STATION FOR DUCT SMOKE DETECTORS                                                               | NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS                                    |                                                                                                                             |
| NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS                                    |                                                                                                               |                                                                                   |                                                                                                                             |

5 FIRE ALARM LEGEND 2 OF 2

| SYMBOL | DESCRIPTION                                                                                        | SYMBOL | DESCRIPTION                                                                                            |
|--------|----------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------|
|        | CEILING MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE                  |        | CEILING MOUNTED WALL WASHER LUMINAIRE. ILLUMINATION DIRECTION DENOTED BY HATCHED SIDE                  |
|        | DENOTES FIXTURE ON EMERGENCY/NIGHT LIGHT CIRCUIT.                                                  |        | CEILING MOUNTED TRACK LIGHTING C/W NUMBER OF FIXTURES                                                  |
|        | WALL MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE                     |        | WALL MOUNTED LUMINAIRE                                                                                 |
|        | EXISTING LUMINAIRE TO BE REMOVED                                                                   |        | PENDANT FIXTURE                                                                                        |
|        | EXISTING LUMINAIRE TO REMAIN                                                                       |        | CEILING MOUNTED LUMINAIRE                                                                              |
|        | CEILING MOUNTED LUMINAIRE WITH GIMBALLED HEADS. REFER TO SCHEDULE FOR TYPE AND NUMBER OF HEADS     |        | FLOOR MOUNTED LUMINAIRE                                                                                |
|        | VERTICAL WALL MOUNTED FLUORESCENT LUMINAIRE                                                        |        | BOLLARD LUMINAIRE                                                                                      |
|        | CONTINUOUS STRIP LIGHT. REFER TO SCHEDULE FOR FIXTURE TYPE                                         |        | POLE MOUNTED LUMINAIRE. NUMBER OF HEADS SHOWN. REFER TO SCHEDULE FOR FIXTURE AND POLE TYPE             |
|        | WALL MOUNTED NIGHT LIGHT. REFER TO SCHEDULE FOR TYPE                                               |        |                                                                                                        |
|        |                                                                                                    |        |                                                                                                        |
|        |                                                                                                    |        |                                                                                                        |
|        |                                                                                                    |        |                                                                                                        |
|        |                                                                                                    |        |                                                                                                        |
|        |                                                                                                    |        |                                                                                                        |
|        |                                                                                                    |        |                                                                                                        |
|        | RECESSED CEILING MOUNTED REMOTE ADJUSTABLE LUMINAIRE CONNECTED TO EMERGENCY LIGHTING BATTERY UNIT. |        | EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS SHOWN COMPLETED W/ DIRECT CONNECTION OR RECEPTACLE |
|        | WALL MOUNTED EMERGENCY SINGLE REMOTE HEAD                                                          |        | EMERGENCY LIGHTING BATTERY UNIT                                                                        |
|        | WALL MOUNTED EMERGENCY DOUBLE REMOTE HEAD                                                          |        | EMERGENCY LIGHTING BATTERY + EXIT LIGHT COMBINATION UNIT C/W NUMBER OF HEADS SHOWN                     |
|        | CEILING MOUNTED EMERGENCY SINGLE REMOTE HEAD                                                       |        | EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED                                           |
|        | CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEAD                                                       |        | EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED                                              |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS

6 LIGHTING LEGEND 1 OF 2

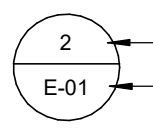
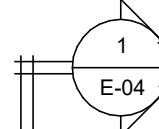
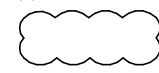
| <b>SYMBOL</b> | <b>DESCRIPTION</b>                                                                   | <b>SYMBOL</b> | <b>DESCRIPTION</b>                                                                                                          |
|---------------|--------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------|
|               | WALL MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION               | <br>EPS<br>   | WALL MOUNTED VOICE OUTLET FOR EMERGENCY PHONE STATION. CABLE TYPE AS PER SPECIFICATION                                      |
|               | WALL MOUNTED ABOVE COUNTER VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION |               | WALL MOUNTED ABOVE COUNTER VOICE OUTLET FOR EMERGENCY PHONE STATION. CABLE TYPE AS PER SPECIFICATION                        |
|               | WALL MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION                        | [IC]          | COMMUNICATIONS INTERCOM                                                                                                     |
|               | WALL MOUNTED ABOVE COUNTER VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION          |               | SERVICE POLE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION                                              |
|               | WALL MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION                         |               | RACEWAY MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION                                                   |
|               | WALL MOUNTED ABOVE COUNTER DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION           |               | COAXIAL CATV OUTLET                                                                                                         |
|               | FLOOR MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION              | -J-J-J-J-     | MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING                                                                         |
|               | FLOOR MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION                       | [CB]          | COMMUNICATIONS BOX                                                                                                          |
|               | FLOOR MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION                        | P →           | POWER ZONE BOX                                                                                                              |
|               | FURNITURE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION          | T →           | TELEPHONE ZONE BOX                                                                                                          |
|               | FURNITURE MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION                   | ●             | FEED POINT FOR COMMUNICATIONS CABLING; LETTER DENOTES FEED LOCATION:<br>W = WALL, F = FLOOR, P = PAC POLE,<br>WM = WIREMOLD |
|               | FURNITURE MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION                    |               |                                                                                                                             |
|               | CEILING MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION            |               |                                                                                                                             |
|               | CEILING MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION                      |               |                                                                                                                             |
|               |                                                                                      |               |                                                                                                                             |
|               |                                                                                      |               |                                                                                                                             |
|               |                                                                                      |               |                                                                                                                             |
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|               |                                                                                      |               |                                                                                                                             |
|               |                                                                                      |               |                                                                                                                             |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

3 DATA/COMMUNICATIONS

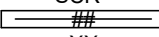
| SYMBOL                                                                                | DESCRIPTION                                                  | SYMBOL                                                                                | DESCRIPTION                                                    |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------|
| ALARM INITIATING DEVICES                                                              |                                                              |                                                                                       |                                                                |
|  | CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR                |  | AIR SAMPLING STATION                                           |
|  | WALL MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR                   |  | MANUAL STATION                                                 |
|  | CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR C/W RELAY BASE |  | BEAM SMOKE DETECTOR (TRANSMITTER)                              |
|  | CEILING MOUNTED RATE-OF-RISE HEAT DETECTOR                   |  | BEAM SMOKE DETECTOR (RECEIVER)                                 |
|  | WALL MOUNTED RATE-OF-RISE HEAT DETECTOR                      |  | FLAME DETECTOR                                                 |
|  | CEILING MOUNTED FIXED TEMPERATURE HEAT DETECTOR              |                                                                                       |                                                                |
|  | WALL MOUNTED FIXED TEMPERATURE HEAT DETECTOR                 |                                                                                       |                                                                |
|  | DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR                      |                                                                                       |                                                                |
|  | DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR COMPLETE WITH HEATER |                                                                                       |                                                                |
|  | CEILING MOUNTED COMBINATION HEAT + SMOKE DETECTOR            |                                                                                       |                                                                |
| LOCAL ALARM DEVICES                                                                   |                                                              |                                                                                       |                                                                |
|  | LOCAL 120V SMOKE ALARM                                       |  | LOCAL 120V COMBINATION SMOKE ALARM AND STROBE                  |
|  | LOCAL 120V COMBINATION CARBON MONOXIDE AND SMOKE ALARM       |  | LOCAL 120V COMBINATION CARBON MONOXIDE, SMOKE ALARM AND STROBE |
|  | LOCAL 120V CARBON MONOXIDE ALARM                             |                                                                                       |                                                                |
| SPRINKLER/STANDPIPE DEVICES                                                           |                                                              |                                                                                       |                                                                |
|  | LOW PRESSURE SUPERVISED SWITCH (SUPPLIED BY OTHERS)          |  | ALARM DRY PIPE VALVE (SUPPLIED BY OTHERS)                      |
|  | SPRINKLER SUPERVISED VALVE (SUPPLIED BY OTHERS)              |                                                                                       |                                                                |
|  | ALARM FLOW SWITCH (SUPPLIED BY OTHERS)                       |                                                                                       |                                                                |
|  | ALARM PRESSURE SWITCH (SUPPLIED BY OTHERS)                   |                                                                                       |                                                                |
|  | ALARM CHECK VALVE (SUPPLIED BY OTHERS)                       |                                                                                       |                                                                |
| NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS                                        |                                                              |                                                                                       |                                                                |

4 FIRE ALARM LEGEND 1 OF 2

| SYMBOL                                                                              | DESCRIPTION                      | SYMBOL                                                                              | DESCRIPTION                       |
|-------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|
|  |                                  |  |                                   |
|  | REVISION NUMBER                  |  | REVISION BUBBLE                   |
| A                                                                                   | AMPS                             | MO                                                                                  | MOTOR OPERATED                    |
| AD                                                                                  | ACCESS DOOR                      | MOD                                                                                 | MOTOR OPERATED DAMPER             |
| AFCI                                                                                | ARC FAULT CIRCUIT INTERRUPTER    | MW                                                                                  | MICROWAVE                         |
| AF                                                                                  | ABOVE FINISHED FLOOR             | N                                                                                   | NEW                               |
| BBH                                                                                 | BASEBOARD HEATER                 | NC                                                                                  | NORMALLY CLOSED                   |
| BU                                                                                  | BATTERY UNIT                     | NIC                                                                                 | NOT IN CONTRACT                   |
| C                                                                                   | CONDUIT                          | NL                                                                                  | NIGHT LIGHT                       |
| CD                                                                                  | CANDELA                          | NO                                                                                  | NORMALLY OPEN                     |
| CL                                                                                  | CEILING MOUNTED                  | OC                                                                                  | OVER COUNTER                      |
| CS                                                                                  | CHARGING STATION                 | OL                                                                                  | OBSTRUCTION LIGHT                 |
| CV                                                                                  | CONVENTIONAL STYLE DEVICE        | P                                                                                   | PARABOLIC LOUVRE                  |
| D                                                                                   | DEDICATED                        | PL                                                                                  | PATIENT LIFT                      |
| DG                                                                                  | DEDICATED GROUND                 | R                                                                                   | RELOCATE                          |
| DHWT                                                                                | DOMESTIC HOT WATER TANK          | RA                                                                                  | RANGE                             |
| DNC                                                                                 | DEDICATED NEUTRAL + BOND         | RC                                                                                  | REVISE EXISTING CIRCUIT           |
| DR                                                                                  | LAUNDRY DRYER                    | RH                                                                                  | RANGE HOOD                        |
| DW                                                                                  | DISHWASHER                       | RIC                                                                                 | ROUGH IN AND CONNECT              |
| E                                                                                   | EXISTING                         | RO                                                                                  | ROUGH IN ONLY                     |
| EF                                                                                  | EXHAUST FAN                      | RR                                                                                  | REMOVE AND REINSTALL              |
| EM                                                                                  | EMERGENCY CIRCUIT                | SC                                                                                  | SEPARATE CIRCUIT                  |
| EP                                                                                  | ELECTRICAL SUITE PANEL           | SF                                                                                  | SYSTEM FURNITURE                  |
| ER                                                                                  | EXISTING TO BE REMOVED           | SP                                                                                  | SUITE ALARM PANEL                 |
| F                                                                                   | REFRIGERATOR                     | SSP                                                                                 | SLAVE SUITE ALARM PANEL           |
| FF                                                                                  | FLOOR FEED                       | TYP                                                                                 | TYPICAL                           |
| FFH                                                                                 | FORCE FLOW HEATER                | UC                                                                                  | UNDER CABINET MOUNTED             |
| FL                                                                                  | FLOOR MOUNTED                    | U                                                                                   | UPS CIRCUIT                       |
| GFCI                                                                                | GROUND FAULT CIRCUIT INTERRUPTER | UH                                                                                  | UNIT HEATER                       |
| GFI                                                                                 | GROUND FAULT INTERRUPTER         | UPS                                                                                 | UNINTERRUPTIBLE POWER SUPPLY      |
| GND                                                                                 | GROUND                           | V                                                                                   | VOLTS                             |
| HK                                                                                  | HOUSE KEEPING                    | W                                                                                   | WATTS                             |
| HMT                                                                                 | HARMONIC MITIGATING TRANSFORMER  | WG                                                                                  | WIRE GUARD                        |
| ICE                                                                                 | ICE MACHINE                      | WAP                                                                                 | WIRELESS ACCESS POINT             |
| IG                                                                                  | ISOLATED GROUND                  | WF                                                                                  | WALL FEED                         |
| JB                                                                                  | JUNCTION BOX                     | WP                                                                                  | WEATHERPROOF                      |
| KW                                                                                  | KILOWATTS                        | X                                                                                   | EXPLOSION PROOF DEVICE + BACK BOX |
| LV                                                                                  | LOW VOLTAGE                      | ZSCT                                                                                | ZERO SEQUENCE CURRENT TRANSFORMER |

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

1 GENERAL, SYMBOLS AND ABBREVIATIONS

| SYMBOL                                                                                                                                                                                                                                                                                                                                                                                                                        |  | DESCRIPTION | SYMBOL                                                                                                                                                                                                                                                                                                                                                                                                              |  | DESCRIPTION |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|
| <div><div>↓</div><div>TAG - ## ←</div><div>AUDIO VISUAL SYSTEM</div><div>DEVICE IDENTIFICATION NUMBER</div></div>                                                                                                                                                                                                                                                                                                             |  |             | <div><div>PROJ. - ##</div><div></div><div>PROJECTOR</div></div>                                                                                                                                                                                                                                                                |  |             |
| <div><div>RACK - ##</div><div></div><div>AV EQUIPMENT RACK</div><div>RACK 'ID' DESIGNATION:<br/>'AV' = FREE STANDING EQUIPMENT<br/>'CR' = CRENDON RACK<br/>'RC' = RACK ON CASTERS</div></div>                                                                                                                                            |  |             | <div><div>LIFT - ##</div><div></div><div>PROJECTOR ON LIFT</div></div>                                                                                                                                                                                                                                                         |  |             |
| <div><div>TAG - ##</div><div></div><div>WALL MOUNT FLAT PANEL DISPLAY.</div><div>DISPLAY 'TAG' DESIGNATION:<br/>'FPD' = FLAT PANEL DISPLAY<br/>'IAD' = INTERACTIVE DISPLAY<br/>'DS' = DIGITAL SIGNAGE DISPLAY<br/>'MW' = MEDIA WALL DISPLAY(S) SEE DRAWING FOR QUANTITIES.</div><div>NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)</div></div> |  |             | <div><div>SCR - ##</div><div></div><div>PROJECTION SCREEN</div><div>NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)</div><div>CEILING RECESSED SPEAKER</div><div>TAG - ##</div><div></div><div>TAG' DESIGNATION:<br/>'S' = AV SPEAKER</div></div> |  |             |
| <div><div>TAG - ##</div><div></div><div>CEILING MOUNT FLAT PANEL DISPLAY.</div><div>DISPLAY 'TAG' DESIGNATION:<br/>'PMD' = POLE MOUNT FLAT PANEL DISPLAY<br/>'PDD' = POLE MOUNT DUAL FLAT PANELS DISPLAYS</div><div>NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)</div></div>                                                                  |  |             | <div><div>TAG - ##</div><div></div><div>SURFACE MOUNT SPEAKER</div><div>TAG' DESIGNATION:<br/>'S' = AV SPEAKER</div></div>                                                                                                                                                                                                     |  |             |
| <div><div>TAG - ##</div><div></div><div>WALL MOUNT AV INTERFACE</div><div>TAG' DESIGNATION:<br/>'RBD' = ROOM BOOKING DISPLAY<br/>'MRD' = MEETING ROOM DISPLAY<br/>'CTL' = TOUCH CONTROL PANEL</div><div>NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)</div></div>                                                                              |  |             | <div><div>TAG - ##</div><div></div><div>WALL MOUNT ANTENNA</div><div>TAG' DESIGNATION:<br/>'ANT' = MICROPHONE ANTENNA<br/>'HA' = HEARING ASSIST ANTENNA</div></div>                                                                                                                                                            |  |             |
| <div><div>TAG - ##</div><div></div><div>WALL MOUNT AV INTERFACE</div><div>TAG' DESIGNATION:<br/>'RBD' = ROOM BOOKING DISPLAY<br/>'MRD' = MEETING ROOM DISPLAY<br/>'CTL' = TOUCH CONTROL PANEL</div><div>NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)</div></div>                                                                              |  |             | <div><div>CEILING MOUNT ANTENNA</div><div>TAG - ##</div><div></div><div>TAG' DESIGNATION:<br/>'ANT' = MICROPHONE ANTENNA<br/>'HA' = HEARING ASSIST ANTENNA</div></div>                                                                                                                                                         |  |             |
| <div><div>TAG - ##</div><div></div><div>BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR</div><div>TAG' DESIGNATION:<br/>'BP' = BUTTON PANEL<br/>'VC' = VOLUME CONTROL<br/>'SC' = SCREEN CONTROL (FOR PROJECTION SCREENS).</div></div>                                                                                                     |  |             | <div><div>MIC - ##</div><div></div><div>CEILING MOUNT MICROPHONE</div></div>                                                                                                                                                                                                                                                   |  |             |
| <div><div>FB - ##</div><div></div><div>FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY.</div></div>                                                                                                                                                                                                                                        |  |             | <div><div>AV - ##</div><div></div><div>AV MUDRING</div></div>                                                                                                                                                                                                                                                                  |  |             |
| <div><div>CAM - ##</div><div></div><div>WALL MOUNT AV CAMERA.</div></div>                                                                                                                                                                                                                                                                |  |             | <div><div>AV INPUT PLATE</div><div> 1 GANG  2 GANG  3 GANG</div></div>                                                                               |  |             |
| <div><div>CAM - ##</div><div></div><div>CEILING MOUNT AV CAMERA.</div></div>                                                                                                                                                                                                                                                             |  |             | <div><div>AV BACKBOX</div><div> 1 GANG  2 GANG  3 GANG</div></div>                                                                                   |  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |  |             | <div><div>AV CABLE PULL BOX</div><div>SIZE DESIGNATION:<br/>6X6' = 6X6X6 AV CABLE PULL BOX<br/>12X12' = 12X12X6 AV CABLE PULL BOX</div></div>                                                                                                                                                                                                                                                                       |  |             |
| NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS                                                                                                                                                                                                                                                                                                                                                                                |  |             |                                                                                                                                                                                                                                                                                                                                                                                                                     |  |             |

2 A/V LEGEND



**Smith + Andersen**  
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t 416 487 8151 [smithandandersen.com](http://smithandandersen.com)

General Notes

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## Notes

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| 4 | ISSUED FOR PERMIT TENDER | 2026.01.29 |
| 3 | ISSUED FOR PROGRESS SET  | 2026.01.16 |
| 2 | ISSUED FOR COORDINATION  | 2025.12.12 |
| 1 | ISSUED FOR CLIENT REVIEW | 2025.11.21 |

| Rev. # | Description | Date |
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9 MADISON AVENUE  
TORONTO, ON  
**Northern Birch Credit Union**

LEGENDS - ELECTRICAL

Project Number: 17488.003  
Drawing Scale: N.T.S.  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN

E001

5 SECURITY LEGEND 2 OF 2  
E002

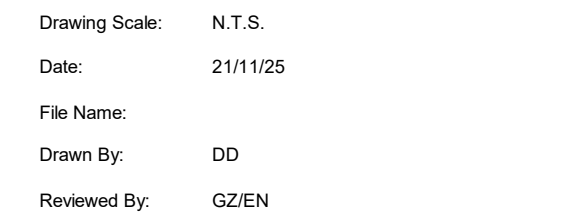
3 POWER LEGEND 2 OF 2  
E002

1 LIGHTING LEGEND 2 OF 2  
E002



4  
E002

2 POWER LEGEND 1 OF 2  
E002





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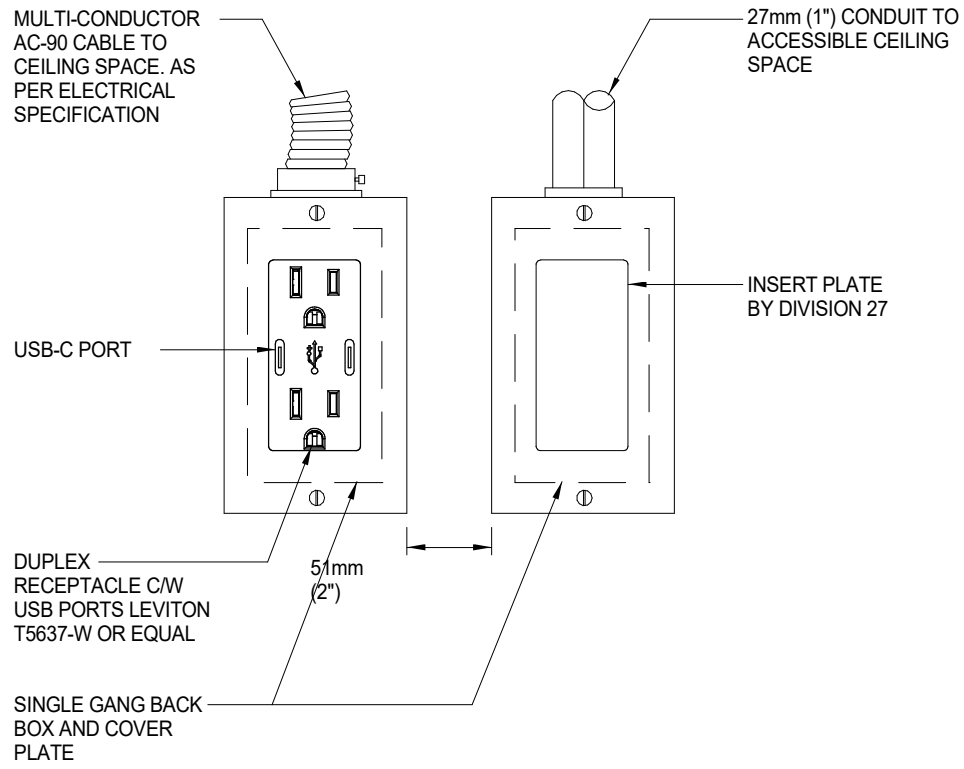
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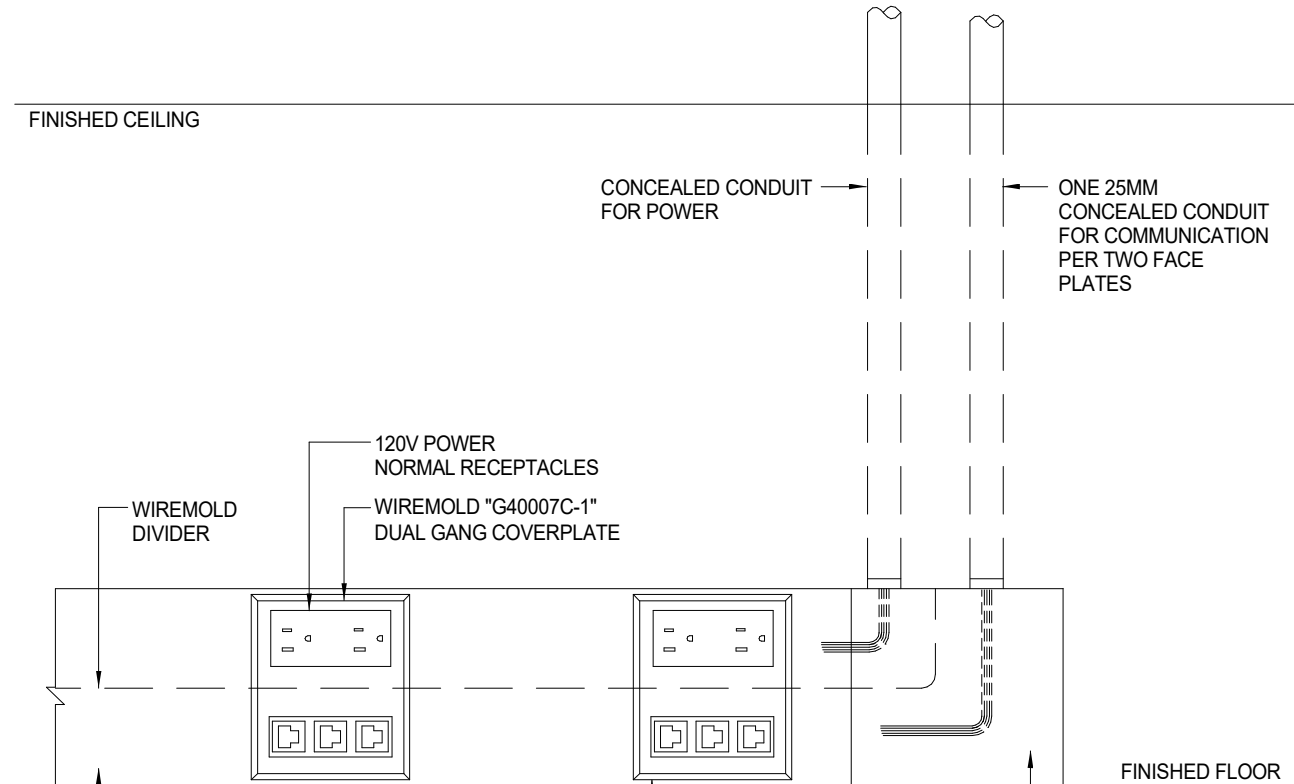
Notes



DRAWING SYMBOL  
U

NOTES:

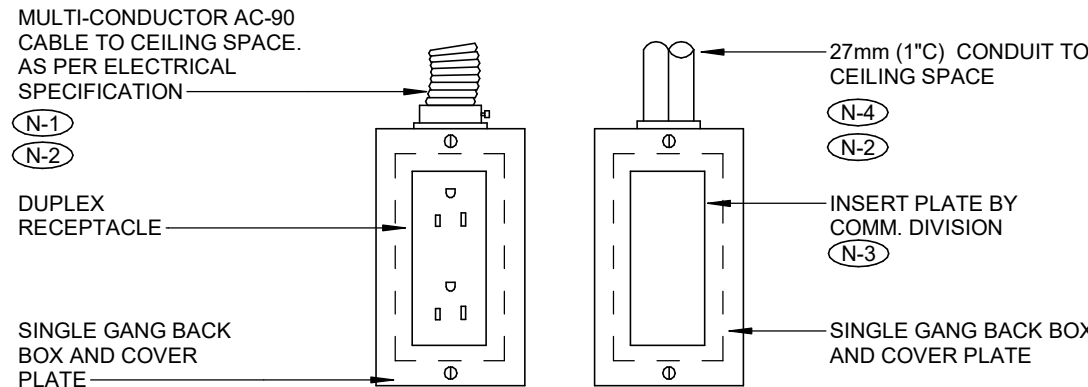
- (N-1) PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- (N-2) PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.
- (N-3) COVER PLATES BY DIVISION 26.



DRAWING SYMBOL  
WM

NOTES:

- (N-1) RACEWAY TO RUN ALONG PERIMETER OR WALL BASE. PAINT RACEWAY TO MATCH BASE FINISH OR AS SPECIFIED BY DESIGNER. FIELD CUT RACEWAY TO ENSURE PROPER FIT.
- (N-2) RACEWAY SHALL BE WIREMOLD G-4000 C/W BARRIER. RACEWAY SYSTEM SHALL BE COMPLETE WITH OUTLETS WHERE REQUIRED AND MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION.



NOTES:

- (N-1) PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- (N-2) PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.
- (N-3) CONDUIT TO RUN BACK NEAREST CABLE TRAY OR COMMUNICATION OUTLET.
- (N-4) ALL BACKBOXES FOR COMMUNICATIONS USE TO BE 100mm (4") DEEP.

5 POWER, USB AND COMMUNICATION OUTLETS

E003

3 QUAD RECEPTACLE WITH CONDUIT AND EMPTY COMMUNICATIONS OUTLETS

E003

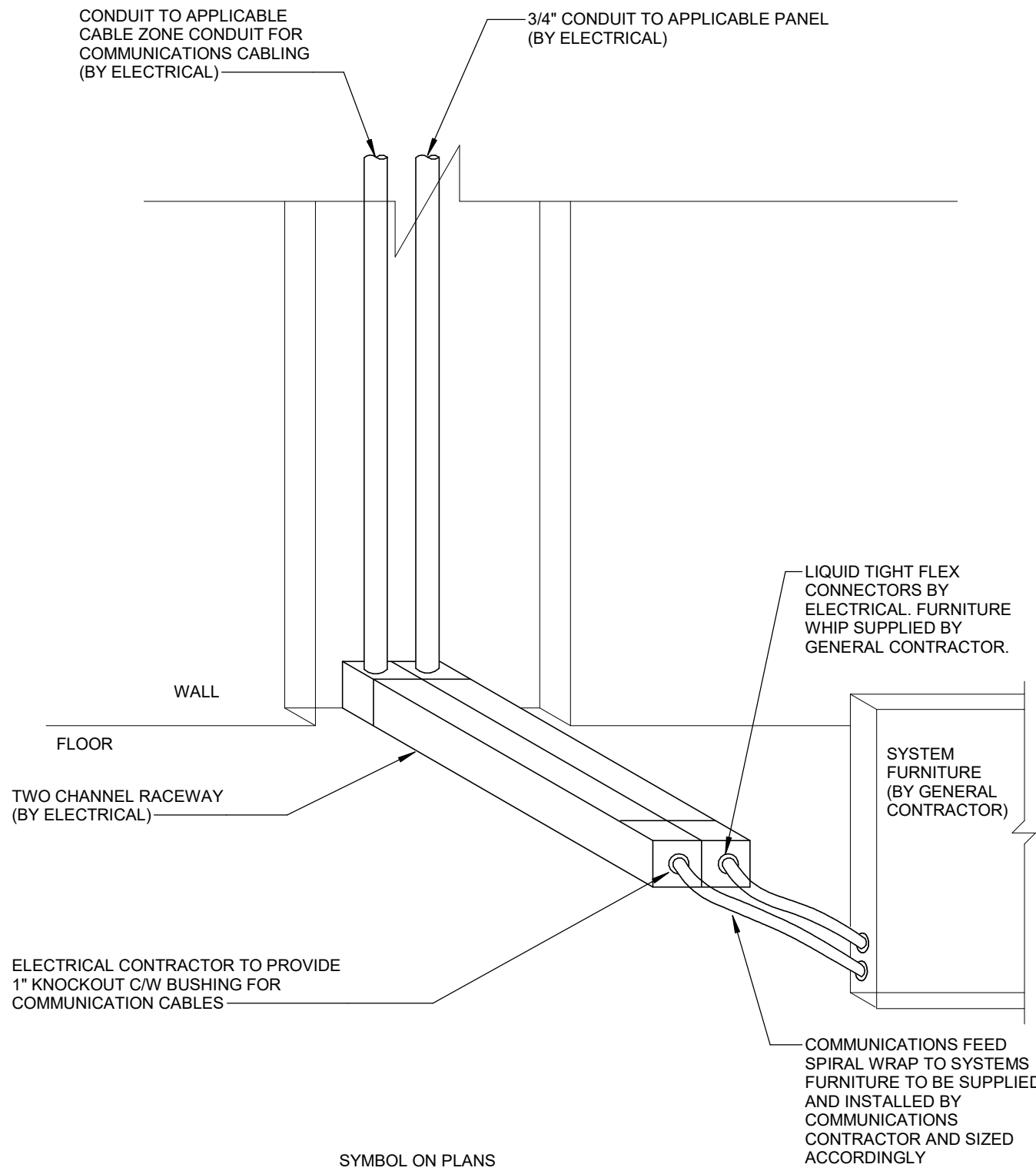
1 DUPLEX RECEPTACLE AND COMMUNICATIONS OUTLET

E003

| LIGHTING CONTROL SCHEDULE |                                                                                                              |                                                   |
|---------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| DEVICE                    | DESCRIPTION                                                                                                  | MANUFACTURER                                      |
| D                         | 0-10V DIMMER. ARCHITECT TO CONFIRM FINISH. PROVIDE POWER PACKS AS NECESSARY.                                 | WATTSTOPPER/LEGRAND CAT# DCLV2 OR APPROVED EQUAL  |
| OS                        | DUAL TECH CEILING MOUNTED OCCUPANCY SENSOR. ARCHITECT TO CONFIRM FINISH. ALLOW FOR POWER PACKS AS NECESSARY. | WATTSTOPPER/LEGRAND CAT# DT-300 OR APPROVED EQUAL |

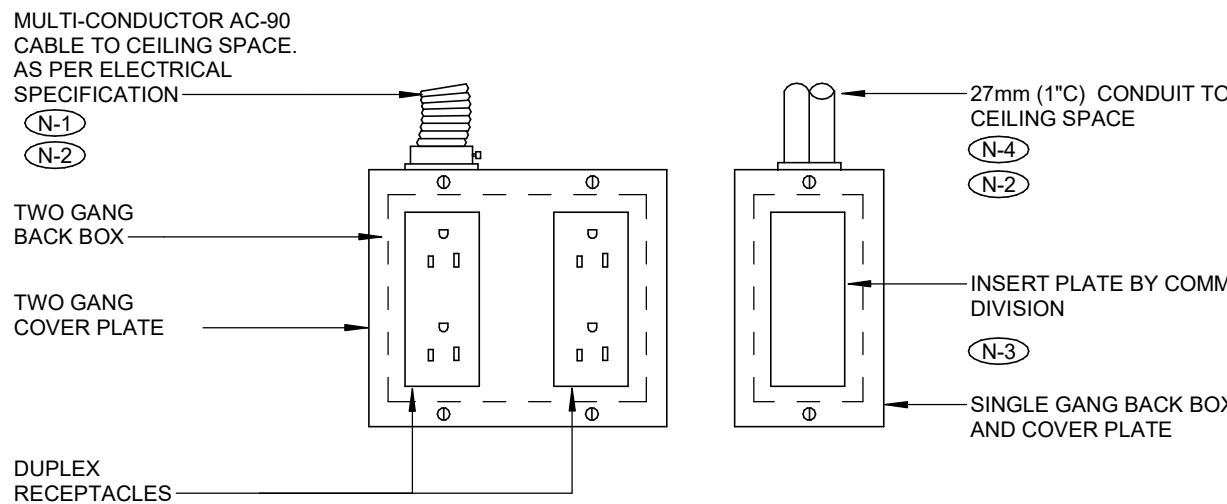
6 LIGHTING CONTROL SCHEDULE

E003



4 COMMS-27 00 00.75 - DETAIL OF FURNITURE SYSTEM CONNECTION - WIREMOLD

E003



NOTES:

- (N-1) PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- (N-2) PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.
- (N-3) CONDUIT TO RUN BACK NEAREST CABLE TRAY OR COMMUNICATION OUTLET.
- (N-4) ALL BACKBOXES FOR COMMUNICATIONS USE TO BE 100mm (4") DEEP.

2 QUAD RECEPTACLE WITH CONDUIT AND EMPTY COMMUNICATIONS OUTLETS

E003

|   |                          |            |
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| 1 | ISSUED FOR CLIENT REVIEW | 2025.11.21 |

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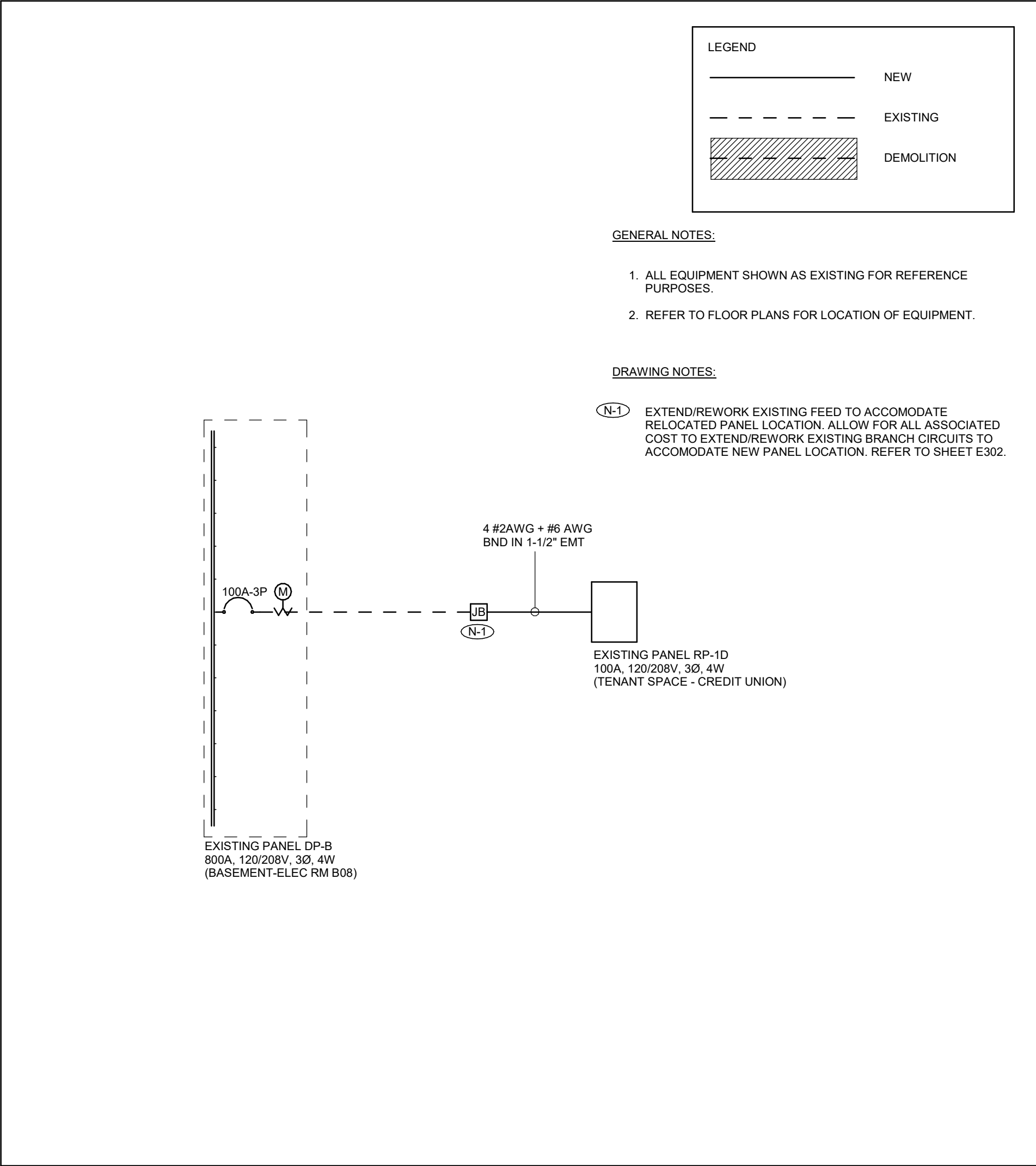
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9 MADISON AVENUE  
TORONTO, ON  
Northern Birch Credit Union

STANDARD DETAILS -  
ELECTRICAL

Project Number: 17488.003  
Drawing Scale: N.T.S.  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN

E003



Panel: RP-1D

Project Name:

Northern Birch Credit Union

Project #:

17488.003

Description:

Date:

Location:

STORAGE 118

Fed From:

Smith + Andersen

| CCT No.                                                                                      | Connection/Breaker Type - Circuit Description | BKR [A] | Pole s | DF [%] | Estimated Load [VA]           | A                        |      | B    |      | C                    |           | Estimated Load [VA] | DF [%] | Pole s | BKR [A]                                         | Connection/Breaker Type - Circuit Description | CCT No. |    |  |  |             |  |  |  |  |
|----------------------------------------------------------------------------------------------|-----------------------------------------------|---------|--------|--------|-------------------------------|--------------------------|------|------|------|----------------------|-----------|---------------------|--------|--------|-------------------------------------------------|-----------------------------------------------|---------|----|--|--|-------------|--|--|--|--|
| 1                                                                                            | REC - MEMBER'S AREA 111                       | 20      | 1      | 50.0   | 75                            | 150                      | 600  |      |      |                      |           | 0                   | --     | 1      | 25                                              | EXISTING                                      | 2       |    |  |  |             |  |  |  |  |
| 3                                                                                            | REC - MEMBER'S AREA 111                       | 20      | 1      | 50.0   | 75                            |                          |      | 150  | 1618 |                      |           | 1618                | 100.0  | 1      | 20                                              | LTG -                                         | 4       |    |  |  |             |  |  |  |  |
| 5                                                                                            | REC - SIGNAGE DISPLAY                         | 15      | 1      | 70.0   | 168                           |                          |      |      |      | 240                  | 150       | 75                  | 50.0   | 1      | 20                                              | REC - PRINTER                                 | 6       |    |  |  |             |  |  |  |  |
| 7                                                                                            | REC - OFFICE 101,102,103                      | 15      | 1      | 60.0   | 630                           | 1050                     | 1000 |      |      |                      |           | 600                 | 60.0   | 1      | 15                                              | D.C - W.C 109 HAND DRYER                      | 8       |    |  |  |             |  |  |  |  |
| 9                                                                                            | REC - HOUSEKEEPING                            | 20      | 1      | 20.0   | 180                           |                          |      | 900  | 1200 |                      |           | 720                 | 60.0   | 1      | 20                                              | REC - DISHWASHER                              | 10      |    |  |  |             |  |  |  |  |
| 11                                                                                           | REC - ROOM 107 & 108                          | 15      | 1      | 30.0   | 297                           |                          |      |      |      | 990                  | 70        | 35                  | 50.0   | 1      | 15                                              | D.C - LOGO & EF-1                             | 12      |    |  |  |             |  |  |  |  |
| 13                                                                                           | REC - FRIDGE                                  | 15      | 1      | 60.0   | 480                           | 800                      | 0    |      |      |                      |           | 0                   | --     | 1      | 15                                              | ACCESS CONTROL PANEL POWER SUPPLY             | 14      |    |  |  |             |  |  |  |  |
| 15                                                                                           | REC - TOASTER OVEN                            | 20      | 1      | 50.0   | 900                           |                          |      | 1800 | 0    |                      |           | 0                   | --     | 1      | 15                                              | INTRUSION ALARM CONTROL PANEL POWER SUPPLY    | 16      |    |  |  |             |  |  |  |  |
| 17                                                                                           | REC - KETTLE                                  | 20      | 1      | 50.0   | 500                           |                          |      |      |      | 1000                 | 1000      | 600                 | 60.0   | 1      | 30                                              | REC - PDU                                     | 18      |    |  |  |             |  |  |  |  |
| 19                                                                                           | REC - COFFEE MAKER                            | 20      | 1      | 30.0   | 450                           | 1500                     | 2000 |      |      |                      |           | 1200                | 60.0   | 1      | 30                                              | REC - UPS                                     | 20      |    |  |  |             |  |  |  |  |
| 21                                                                                           | REC - MICROWAVE                               | 20      | 1      | 60.0   | 1080                          |                          |      | 1800 | 625  |                      |           |                     |        |        |                                                 |                                               |         | 22 |  |  |             |  |  |  |  |
| 23                                                                                           | REC - ROOM 111 & 112                          | 15      | 1      | 60.0   | 594                           |                          |      |      |      | 990                  | 625       |                     |        |        |                                                 |                                               |         | 24 |  |  |             |  |  |  |  |
| 25                                                                                           | REC - CASH ROOM 110                           | 20      | 1      | 50.0   | 150                           | 300                      | 425  |      |      |                      |           |                     |        |        |                                                 |                                               |         | 26 |  |  |             |  |  |  |  |
| 27                                                                                           | REC - MSR AREA 114                            | 15      | 1      | 60.0   | 360                           |                          |      | 600  | 425  |                      |           | 510                 | 60.0   | 2      | 15                                              | D.C - FFH-01 & FFH-02                         | 28      |    |  |  |             |  |  |  |  |
| 29                                                                                           | REC - MSR AREA 114                            | 15      | 1      | 30.0   | 225                           |                          |      |      |      | 750                  | 499       |                     |        |        |                                                 |                                               |         | 30 |  |  |             |  |  |  |  |
| 31                                                                                           | REC - MSR AREA 114                            | 15      | 1      | 30.0   | 315                           | 1050                     | 499  |      |      |                      |           | 599                 | 60.0   | 2      | 15                                              | EXISTING - D.C - EV-03, EV-04,EV-05, EV-07    | 32      |    |  |  |             |  |  |  |  |
| 33                                                                                           | REC - MEETING ROOM 115                        | 15      | 1      | 60.0   | 360                           |                          |      | 600  | 3750 |                      |           |                     |        |        |                                                 |                                               |         | 34 |  |  |             |  |  |  |  |
| 35                                                                                           | REC - MEETING ROOM 116                        | 15      | 1      | 60.0   | 360                           |                          |      |      |      | 600                  | 3750      | 4500                | 60.0   | 2      | 50                                              | D.C - ERV-01                                  | 36      |    |  |  |             |  |  |  |  |
| 37                                                                                           | REC - MEETING ROOM 117                        | 15      | 1      | 60.0   | 360                           | 600                      | 0    |      |      |                      |           | 0                   | --     | 1      | 15                                              | OFFICE FURNITURE SYSTEM                       | 38      |    |  |  |             |  |  |  |  |
| 39                                                                                           | REC - ROOM 118 & 120                          | 15      | 1      | 20.0   | 120                           |                          |      | 600  | 0    |                      |           | 0                   | --     | 1      | 15                                              | OFFICE FURNITURE SYSTEM                       | 40      |    |  |  |             |  |  |  |  |
| 41                                                                                           | REC - ATM                                     | 20      | 1      | 100.0  | 1160                          |                          |      |      |      | 1160                 | 550       | 550                 | 100.0  | 1      | 15                                              | D.C - INVERTER                                | 42      |    |  |  |             |  |  |  |  |
| 43                                                                                           | D.C - W.C 109 ADO                             | 15      | 1      | 60.0   | 90                            | 150                      |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 44 |  |  |             |  |  |  |  |
| 45                                                                                           | W.S 109 CONVENIENCE REC AND SOAP DISPENSAR    | 15      | 1      | 100.0  | 300                           |                          |      | 300  |      |                      |           |                     |        |        |                                                 |                                               |         | 46 |  |  |             |  |  |  |  |
| 47                                                                                           |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 48 |  |  |             |  |  |  |  |
| 49                                                                                           |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 50 |  |  |             |  |  |  |  |
| 51                                                                                           |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 52 |  |  |             |  |  |  |  |
| 53                                                                                           |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 54 |  |  |             |  |  |  |  |
| 55                                                                                           |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 56 |  |  |             |  |  |  |  |
| 57                                                                                           |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 58 |  |  |             |  |  |  |  |
| 59                                                                                           |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         | 60 |  |  |             |  |  |  |  |
|                                                                                              |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| Connection/Breaker Type Legend:                                                              |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| BAS - Building Automation Systems                                                            |                                               |         |        |        | SPD - Surge Protection Device |                          |      |      |      | M - Motor            |           |                     |        |        | LTG - Lighting                                  |                                               |         |    |  |  |             |  |  |  |  |
| GFCI - Ground Fault Circuit Interrupter                                                      |                                               |         |        |        | BLO - Breaker Lock-On Device  |                          |      |      |      | D.F. - Demand Factor |           |                     |        |        | HID - High Intensity Discharge Lighting Breaker |                                               |         |    |  |  |             |  |  |  |  |
| AFCI - Arc Fault Circuit Interrupter                                                         |                                               |         |        |        | R.C. - Relay Controlled       |                          |      |      |      | REC - Receptacle     |           |                     |        |        | D.C. - Direct Connection                        |                                               |         |    |  |  |             |  |  |  |  |
| Panel Options: Refer to Panel Notes for selected Options                                     |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| Panel Options                                                                                |                                               |         |        |        |                               | Panel Totals             |      |      |      |                      |           | Panel Parameters    |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 1                                                                                            | CSA Enclosure Rating                          |         |        |        |                               | Estimated Load A [kVA]   |      |      |      |                      | 5.50 kVA  |                     |        |        |                                                 | Voltage                                       |         |    |  |  | 120/208 Wye |  |  |  |  |
| 2                                                                                            | Feed Through                                  |         |        |        |                               | Estimated Load B [kVA]   |      |      |      |                      | 8.59 kVA  |                     |        |        |                                                 | PHASE:                                        |         |    |  |  | 3           |  |  |  |  |
| 3                                                                                            | Sub Feed                                      |         |        |        |                               | Estimated Load C [kVA]   |      |      |      |                      | 7.49 kVA  |                     |        |        |                                                 | WIRES:                                        |         |    |  |  | 4           |  |  |  |  |
| 4                                                                                            | Main Breaker                                  |         |        |        |                               | Total Est. Demand [kVA]: |      |      |      |                      | 21.59 kVA |                     |        |        |                                                 | MAINS [A]:                                    |         |    |  |  | 100 A       |  |  |  |  |
| 5                                                                                            | 200% Rated Neutral Bus                        |         |        |        |                               | Total Conn. Load [kVA]:  |      |      |      |                      | 36.87 kVA |                     |        |        |                                                 | MAIN BREAKER [A], 1 = not required            |         |    |  |  | 60          |  |  |  |  |
| 6                                                                                            | Isolated Ground Bus                           |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 7                                                                                            | Plug in Breaker                               |         |        |        |                               | Estimated Current A [A]  |      |      |      |                      | 47 A      |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 8                                                                                            | SPD                                           |         |        |        |                               | Estimated Current B [A]  |      |      |      |                      | 75 A      |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
|                                                                                              |                                               |         |        |        | Estimated Current C [A]       |                          |      |      |      | 66 A                 |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| Notes:                                                                                       |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 1) Panel Enclosure to be Sprinklerproof.                                                     |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 2) Panels greater than 66 circuits shall be double tub.                                      |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 3) Surge Protection Device (SPD) to be in a separate bartered enclosure with separate cover. |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 4) Terminate circuits for BAS in 4"x4" junction box 10' from panel.                          |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |
| 5) Revise main breaker from 60A to 100A.                                                     |                                               |         |        |        |                               |                          |      |      |      |                      |           |                     |        |        |                                                 |                                               |         |    |  |  |             |  |  |  |  |

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Notes

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                  |                                                                    |                                                |                                                                                   |
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| LUMINAIRE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                  | 17488.003.E Luminaire Schedule                                     |                                                |  |
| Project Name: NORTH BIRCH CREDIT...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                  |                                                                    |                                                |                                                                                   |
| Project number: 17488.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                                                                  |                                                                    |                                                |                                                                                   |
| TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VOLT. | DESCRIPTION                                                                      | MANUFACTURER/CATALOGUE NUMBER                                      | LOCATED                                        |                                                                                   |
| LF2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 120V  | 4" ROUND RECESSED LUMINAIRE, 3500K, 0-10V DIMMING, WHITE FINISH, 5 YEAR WARRANTY | 3G LIGHTING<br><br>CAT#:<br>3GQ-DL45RF-20-H95-30K-40D-UNV-DIM-W... | ENTIRE SPACE EXCEPT MEETING ROOM 115,116 & 117 |                                                                                   |
| LF2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 120V  | 4" ROUND RECESSED LUMINAIRE, 3500K, 0-10V DIMMING, WHITE FINISH, 5 YEAR WARRANTY | 3G LIGHTING<br><br>CAT#:<br>3GQ-DL45RF-20-H95-30K-90D-UNV-DIM-W... | MEETING ROOM 115,116 & 117                     |                                                                                   |
| P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TBD   | TBD                                                                              | TBD                                                                | MEMBER'S AREA 111, MSR AREA 114                |                                                                                   |
| <p>NOTES:</p> <p>1. All luminaires need to be consistent on technology and must match reference standard description regardless of catalogue number. Where finishes are not indicated, allow for special finish. Manufacturer/Catalogue number not listed will not be considered.</p> <p>2. The Electrical Contractor is responsible for the supply and installation of all fixed per unit cost luminaires as part of the base electrical contract. The Electrical Contractor is responsible for the installation of all cash allowance luminaires as part of the base electrical contract. Refer to specification 26 §1 13.00 for more details.</p> <p>3. LEDs are to be latest technology to proved maximum lumens, binned, best colour and longest life at time of purchase. Drivers are to be the latest technology at time of purchase.</p> <p>4. LED luminaire dimensions listed are the maximum size allowed. Luminaires provided can be smaller than the dimension listed.</p> <p>5. All luminaire diameters and depths listed are the maximum size allowed. Luminaires provided can be smaller than the dimension listed.</p> <p>6. All LED luminaires that present signs of failure on site, within the warranty period, must be replaced at no cost to the owner. If temporary luminaires are required to replace any failed LED luminaires, during the waiting time for parts (i.e. drivers, boards, heat sinks, etc.), the labour cost including installation, temporary luminaire supply, temporary luminaire removal and reinstallation of the LED fixture must be provided at no cost of the owner. Additional electrical costs, associated with higher wattage temporary luminaires, must be reimbursed with interest to the owner by the manufacturer.</p> <p>7. In case of failure of an LED luminaire, whether complete failure or partial failure, a independent third party testing Laboratory (approved by Smith + Andersen) shall be commissioned by the manufacturer or vendor to perform tests on samples taken from the failed luminaires installed on corresponding site. All reporting including the test results must be submitted to Smith + Andersen for evaluation and final approval.</p> <p>8. Any additional time (related to luminaire manufacturing issues) spent by Smith + Andersen will be billed at our hourly rates to the manufacturer or vendor.</p> <p>9. All LED parts and accessories must be replaceable on site without removal of the luminaire.</p> <p>10. Equivalents will only be considered at Smith + Andersen discretion prior to tender close. Sample must be supplied with plug and cord for mock-up.</p> <p>11. When a mock-up is requested, the full order of luminaires are on hold until approval and verification of the mock-up findings.</p> <p>12. Poles and bases are to be designed to accommodate wind conditions to avoid damage due to wind-induced vibrations. Shop Drawings are to be signed by a structural engineer registered in the local jurisdiction.</p> <p>13. Alternates are acceptable for all luminaires under the Ambient / General Purpose Lighting and Landscape / Exterior - General Purpose sections.</p> <p>14. Alternates are not acceptable for all luminaires under the Specialty / Decorative / High Performance or Landscape / Exterior - Specialty / Decorative / High Performance sections.</p> <p>15. Be responsible for providing the required quantity of LED drivers to suit the luminaire layout shown on the Drawings.</p> <p>16. Where continuous LED linear luminaires cross from interior to exterior spaces, provide separate drivers for the interior and exterior portions of the continuous run.</p> |       |                                                                                  |                                                                    |                                                |                                                                                   |

|                                         |      |      |                                             |  |                                                                                       |
|-----------------------------------------|------|------|---------------------------------------------|--|---------------------------------------------------------------------------------------|
| Section 26 06 05.16 - INVERTER SCHEDULE |      |      |                                             |  |  |
| Project Name: NORTH BIRCH CREDIT...     |      |      |                                             |  |                                                                                       |
| Project number: 17488.003               |      |      |                                             |  |                                                                                       |
| INV                                     | 120V | 550W | EMERGENCY LIGHTING POWER SUPPLY C/W HOUSING |  | NOVA UAC-P<br>CAT# NVUAC-P-550W-120V/120V-AT,CC                                       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |         |               |               |              |                   |                      |                       |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|---------|---------------|---------------|--------------|-------------------|----------------------|-----------------------|---------------------------------------------------------------------------------------|
| INVERTER LOAD SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |            |         |               |               |              |                   |                      |                       |  |
| PROJECT NAME: NORTH BIRCH CREDIT...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |            |         |               |               |              |                   |                      |                       |                                                                                       |
| PROJECT #: 17488.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |            |         |               |               |              |                   |                      |                       |                                                                                       |
| UNIT DESIGNATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LOCA... OF...  | TYPE       | QTY     | WATTAGE       | TOTAL LOAD    | VOLTAGE      | TOTAL CAPACITY(W) | MAXIMUM CAPACITY (W) | INVERTER CAPACITY (W) | LENGTH OF RUNTIME REQUIRED (hr)                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |         |               |               |              |                   |                      |                       |                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |         |               |               |              |                   |                      |                       |                                                                                       |
| INV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | STORA<br>GE... | X1<br>LF2A | 6<br>19 | 2.5 W<br>17 W | 15 W<br>321 W | 24 V<br>24 V | 336 W             | 550 W                | 550 W                 | 0.5                                                                                   |
| <p>NOTES:</p> <p>1. Provide all mounting shelves for installati...</p> <p>2. Provide breaker lock-on devices for all...</p> <p>3. The electrical contractor is to measure the illumination of the floor at night with emergency lighting on only, and send a drawing showing the maximum and minimum level of illumination, to the consulting engineer, for review. Provide written confirmation that emergency lighting has been installed in accordance with contract documents and...</p> <p>4. Refer to drawings for exact Quantities and...</p> |                |            |         |               |               |              |                   |                      |                       |                                                                                       |

|   |                          |            |
|---|--------------------------|------------|
| 4 | ISSUED FOR PERMIT TENDER | 2026.01.29 |
| 3 | ISSUED FOR PROGRESS SET  | 2026.01.16 |
| 2 | ISSUED FOR COORDINATION  | 2025.12.12 |
| 1 | ISSUED FOR CLIENT REVIEW | 2025.11.21 |

| Rev. # | Description | Date |
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HERITAGE  
Robyn Huefther Architect

LANDSCAPE  
North Design Office

9 MADISON AVENUE  
TORONTO, ON  
Northern Birch Credit Union

LUMINAIRE AND INVERTER SCHEDULE

Project Number: 17488.003

Drawing Scale:

Date: 21/11/25

File Name:

Drawn By: DD

Reviewed By: GZ/EN



Smith + Andersen

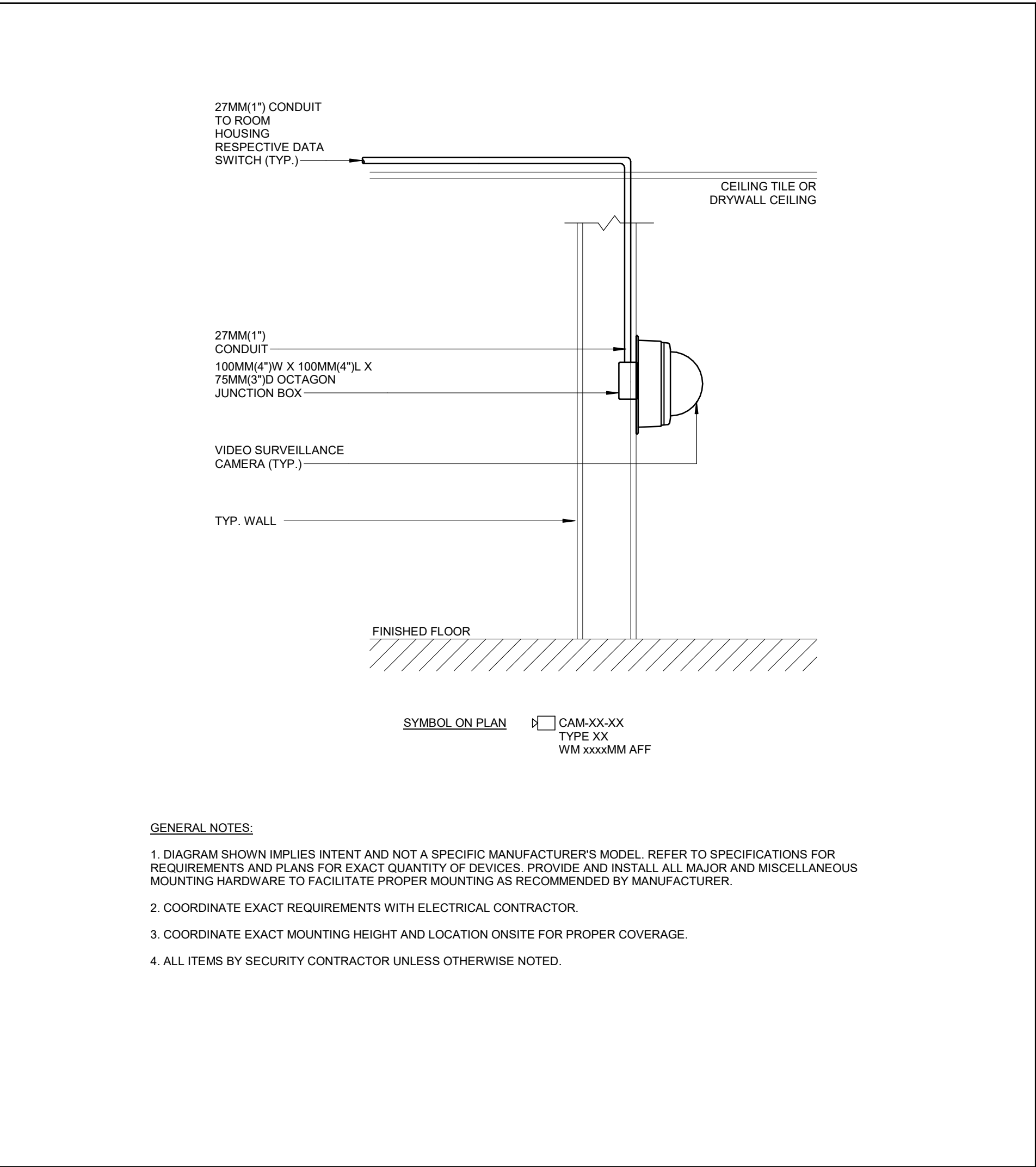
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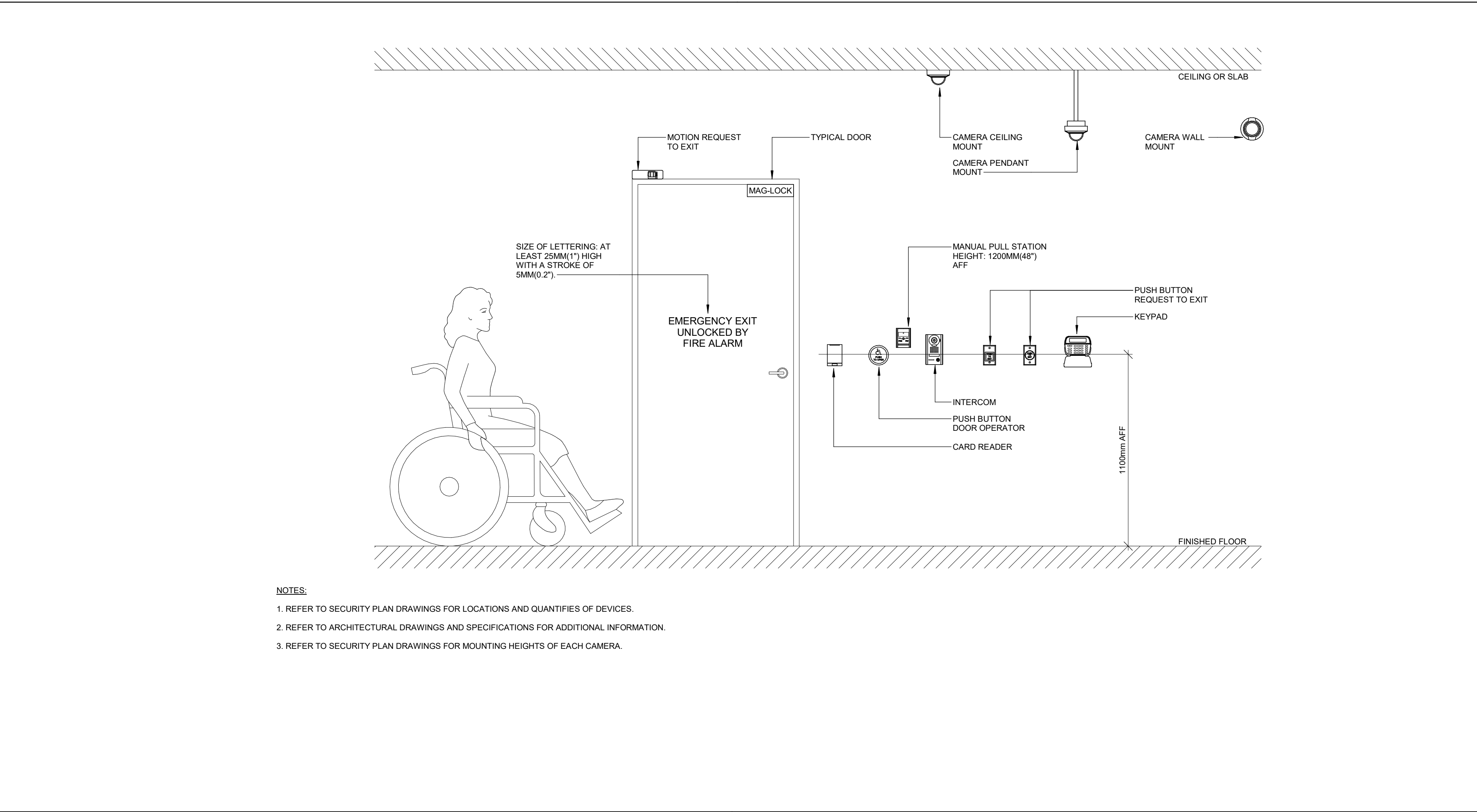
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Notes



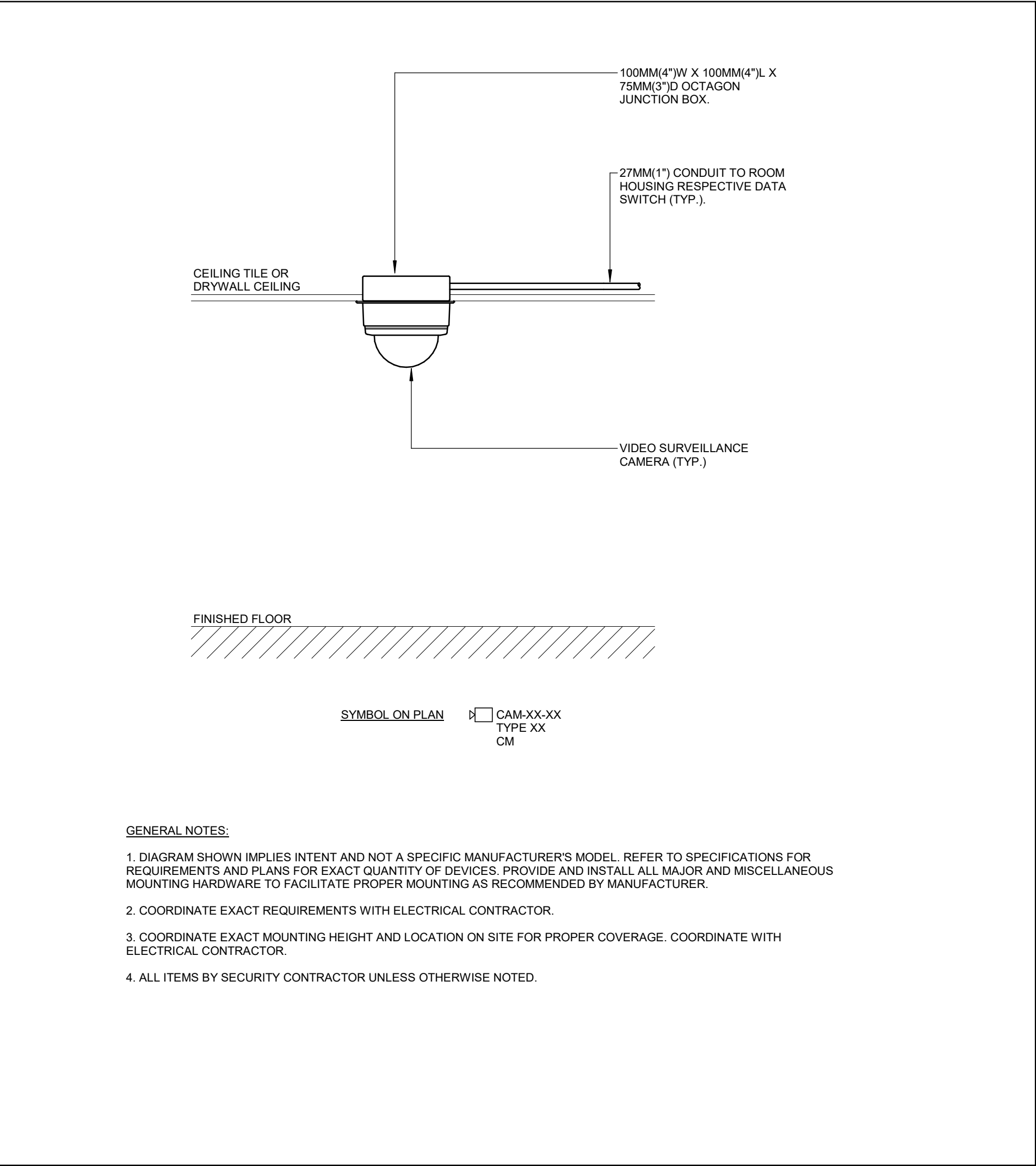
4 TYPICAL FLUSH WALL MOUNTED DOME CAMERAS

E006



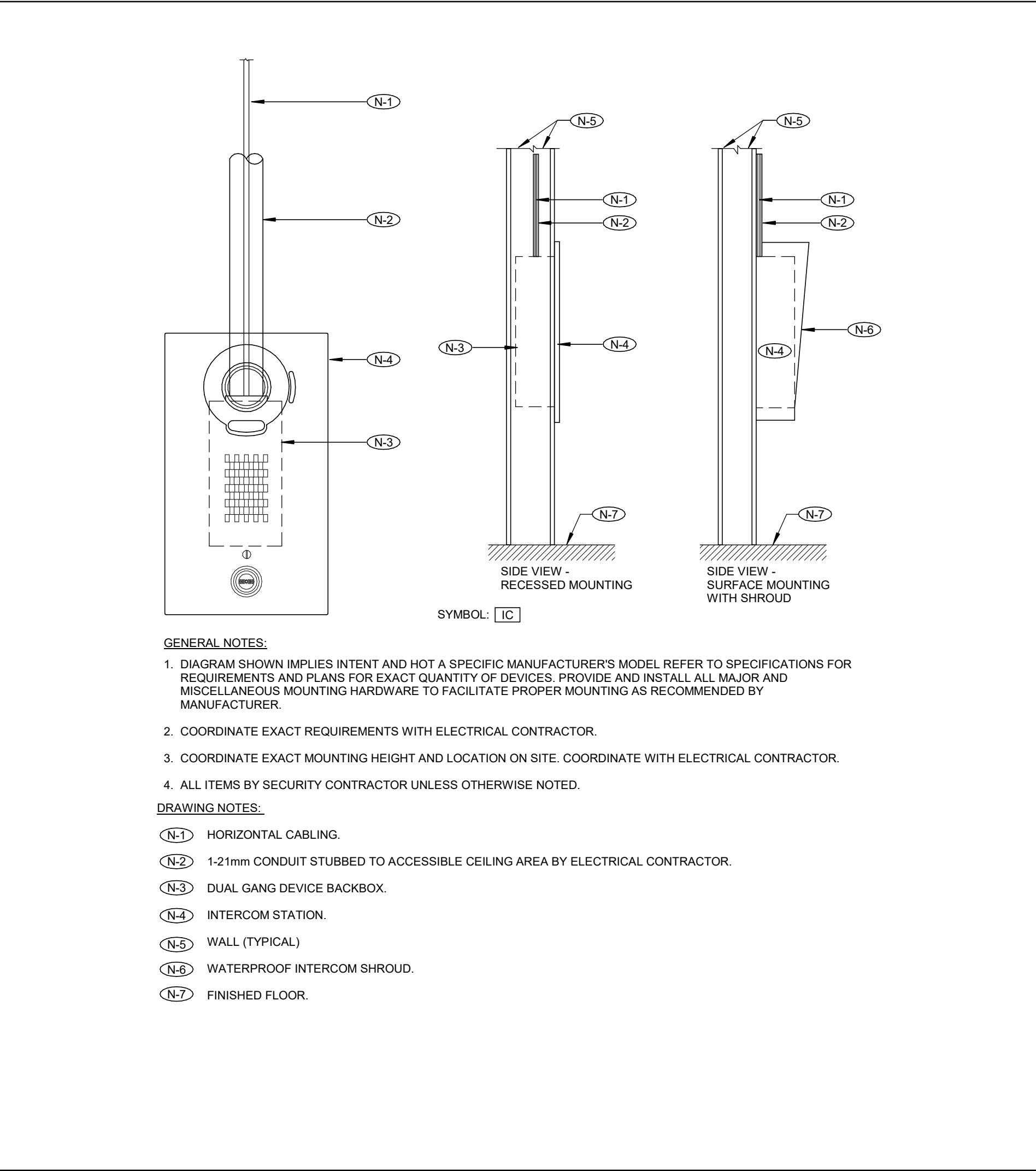
1 DEVICE MOUNTING HEIGHTS

E006



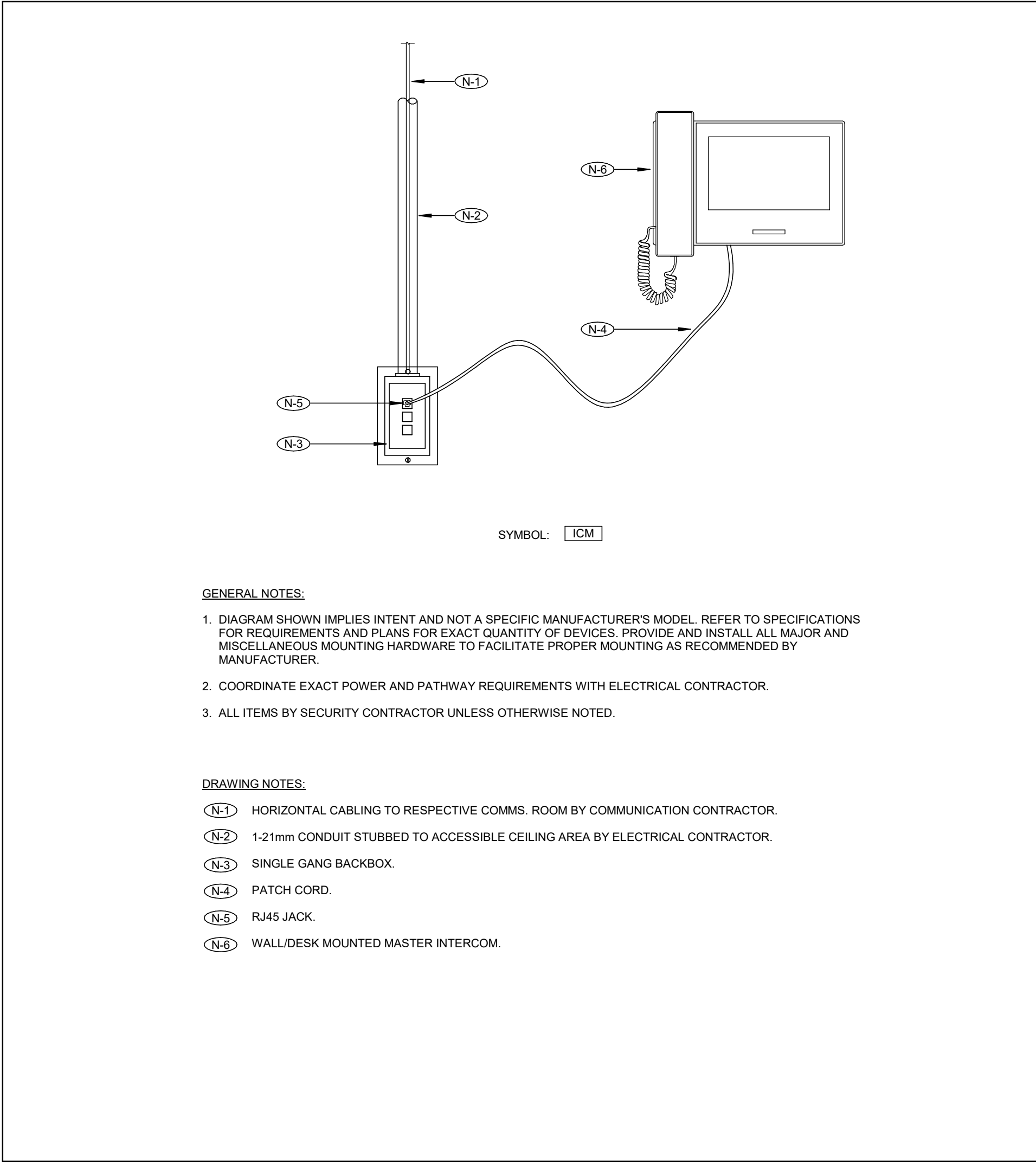
5 TYPICAL FLUSH CEILING MOUNTED INDOOR FIXED OR PTZ DOME CAMERA

E006



3 TYP. INTERCOM STATION DETAIL WITH VIDEO

E006



2 TYP. MASTER INTERCOM STATION DETAIL WITH VIDEO

E006

|   |                          |            |
|---|--------------------------|------------|
| 4 | ISSUED FOR PERMIT TENDER | 2026.01.29 |
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LANDSCAPE

North Design Office

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TORONTO, ON

Northern Birch Credit Union

STANDARD DETAILS - SECURITY

Project Number: 17488.003

Drawing Scale: N.T.S.

Date: 21/11/25

File Name:

Drawn By: DD

Reviewed By: GZ/EN

E006



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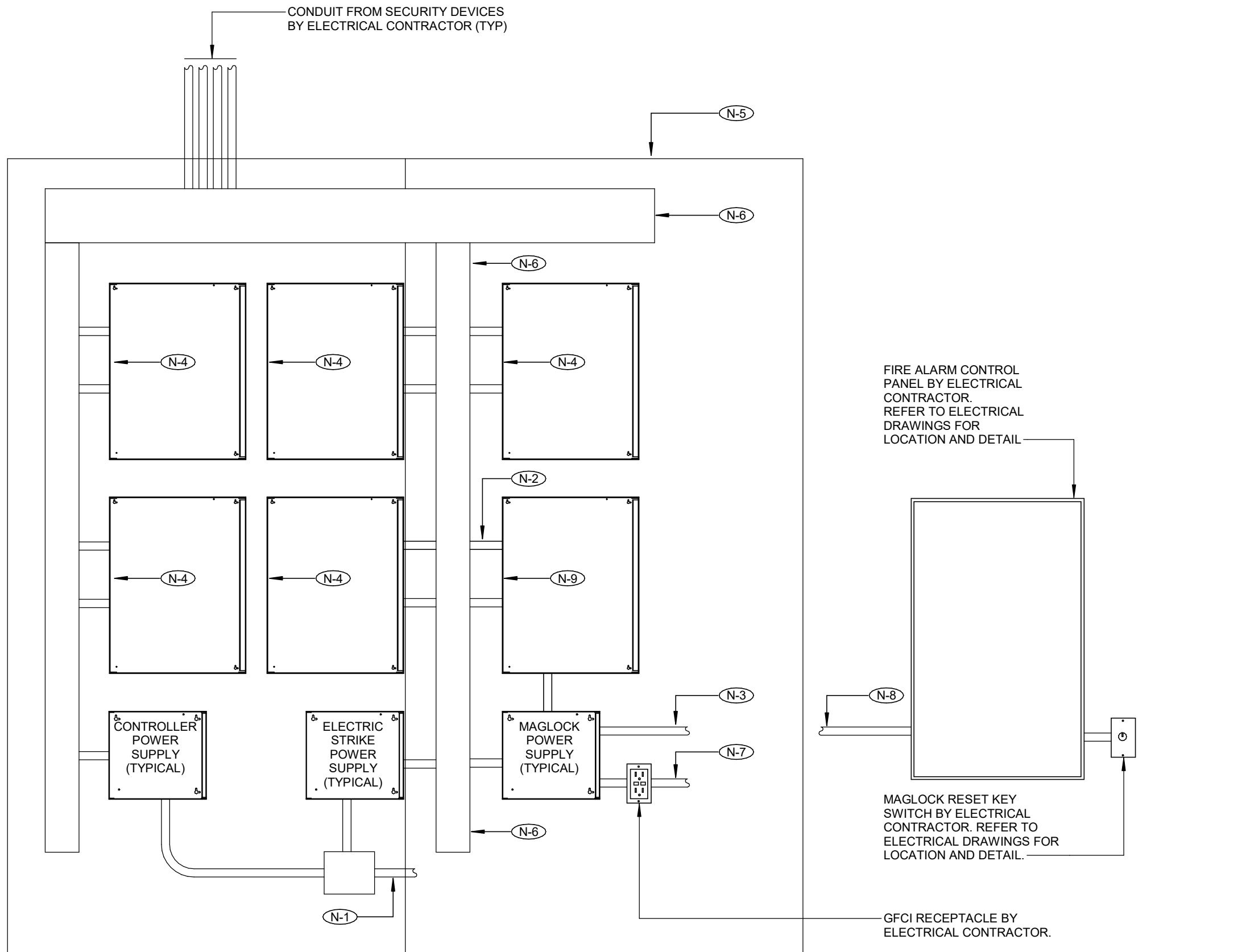
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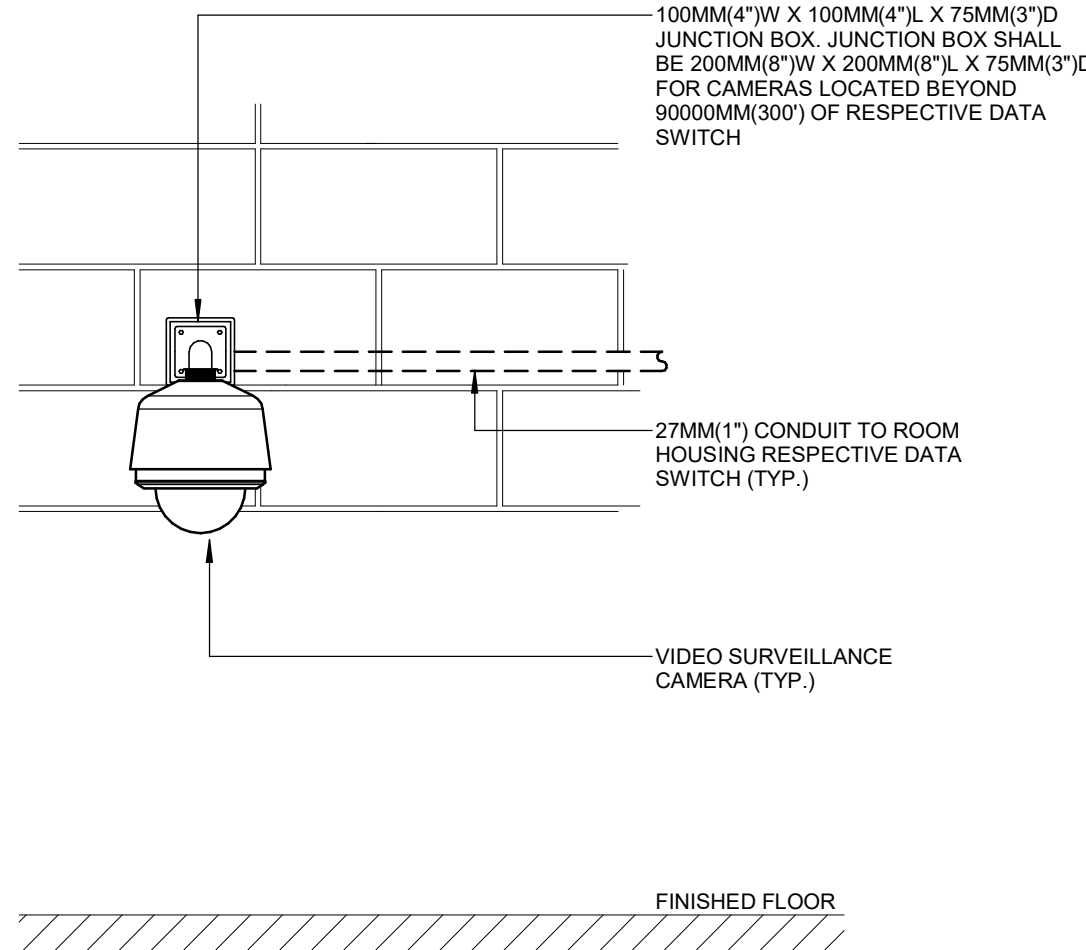


GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ONE (1) ADDRESSABLE FIRE ALARM ISOLATION MODULE FOR MAGLOCK RELEASE POWER SUPPLY CIRCUIT. ALL CONDUIT AND WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR. ALLOW FOR ALL COST OF TESTING AND VERIFICATION.
2. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ONE (1) ADDRESSABLE FIRE ALARM ISOLATION MODULE FOR MAGLOCK RESET CIRCUIT. ALL CONDUIT AND WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR. ALLOW FOR ALL COST OF TESTING AND VERIFICATION.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE PROPER PROGRAMING AND TIE-IN TO THE MAGLOCKS SUCH THAT:
  - IF THE FIRE ALARM IS A 2-STAGE SYSTEM, THE MAG-LOCKS MUST RELEASE UPON FIRST STAGE ACTIVATION.
  - IF THE FIRE ALARM IS A 1-STAGE SYSTEM, THE MAG-LOCKS MUST RELEASE UPON FIRE ALARM ACTIVATION.
  - MAGLOCKS RELEASE UPON ACTIVATION OF ANY FIRE ALARM SIGNAL.
  - MAGLOCKS RELEASE UPON ACTIVATION OF LOCAL MANUAL PULL STATION THROUGH HARD WIRED CONNECTION DIRECTLY FROM PULL STATION.
  - MAGLOCKS RELEASE UPON LOSS OF POWER TO THE FIRE ALARM CONTROL PANEL OR LOSS OF POWER CONTROLLING THE MAGLOCK.
  - MAGLOCKS RELEASE UPON A FAULT BEING DETECTED IN THE ELECTRICAL CIRCUIT BETWEEN THE FIRE ALARM CONTROL PANEL AND MAGLOCK.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE TIE-IN OF NEW MAGLOCKS TO EXISTING RELEASE/RESET KEYSWITCH. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ACCESSORIES AND TIE-INS TO MAGLOCK POWER SUPPLIES WITH SECURITY CONTRACTOR.
5. ROUTE ALL ACCESS CONTROL DEVICE WIRING CONTINUOUSLY TO THE POINT OF TERMINATION. NO SPLICES ARE PERMITTED.
6. COORDINATE INSTALLATION WITH DOOR, DOOR HARDWARE AND ELECTRICAL CONTRACTORS.
7. BOND ALL ACCESS CONTROL PANELS AND THE SHIELD OF ALL SHIELDED CABLES TO GROUND WITH MANUFACTURER RECOMMENDED GROUND WIRE.
8. PROVIDE LOCK AND KEY TO FACILITATE SECURING ACCESS CONTROL SYSTEM DEVICES AND WIRING WITHIN ACCESS CONTROL PANEL ENCLOSURE AND TROUGHS.
9. PROVIDE DOOR CONTACTS ON ALL ACCESS CONTROL ENCLOSURES AND TROUGHS DOORS. CONNECT ALL DOOR CONTACTS TO THE ACCESS CONTROL SYSTEM TO FACILITATE MONITORING OF DOOR POSITIONS.
10. QUANTITIES OF ACCESS CONTROL CONTROLLERS, ENCLOSURES AND POWER SUPPLIES SHOWN INDICATES SCHEMATIC AND CONNECTIVITY REQUIREMENTS ONLY. PROVIDE ALL ACCESS CONTROL CONTROLLERS, ENCLOSURES AND POWER SUPPLIES AS REQUIRED TO FACILITATE COMPLETE OPERATION OF THE ACCESS CONTROL SYSTEM.

NOTES:

- (N-1) 120V 15A CIRCUITS FROM UPS OR EMERGENCY POWER SOURCE (TYP.) COORDINATE DIRECT CONNECTION TO POWER SUPPLIES WITH ELECTRICAL CONTRACTOR.
- (N-2) PROVIDE CONDUITS AS REQUIRED TO INTERCONNECT ACCESS CONTROL PANEL ENCLOSURES (TYP).
- (N-3) PROVIDE CONNECTION TO FIRE ALARM SYSTEM TO FACILITATE FIRE ALARM OVERRIDE OF MAGLOCKS BY FIRE ALARM SYSTEM (TYP).
- (N-4) ACCESS CONTROL CONTROLLER ENCLOSURE (TYP.). QUANTITIES SHOWN INDICATES SCHEMATIC AND CONNECTIVITY REQUIREMENTS ONLY. PROVIDE ALL ENCLOSURES AS REQUIRED TO HOUSE AND PROTECT ALL CONTROLLERS. ENCLOSURES SHALL BE COMPLETE WITH TAMPER SWITCHES AND KEY LOCK.
- (N-5) 1219mm (48")W X 2438mm (98")H 19mm (3/4")D FIRE RETARDANT PLYWOOD BACKBOARD. PROVIDE APPROPRIATE NUMBER OF PLYWOOD BACKBOARD TO MOUNT ALL ENCLOSURES AND POWER SUPPLIES. ENCLOSURES AND POWER SUPPLIES.
- (N-6) PROVIDE APPROPRIATELY SIZED METAL TROUGH WITH LOCKABLE HINGED COVER AS REQUIRED TO HOUSE AND PROTECT ALL WIRING FROM CONDUITS TO ENCLOSURES (TYP).
- (N-7) 120V 15A CIRCUITS FROM NON EMERGENCY BUILDING POWER SOURCE (TYP.) COORDINATE DIRECT CONNECTION TO POWER SUPPLIES WITH ELECTRICAL CONTRACTOR.
- (N-8) CONNECTION TO MAGLOCK POWER SUPPLIES.
- (N-9) INTRUSION DETECTION CONTROLLER ENCLOSURE (TYP.). QUANTITIES SHOWN INDICATES SCHEMATIC AND CONNECTIVITY REQUIREMENTS ONLY. PROVIDE ALL ENCLOSURES AS REQUIRED TO HOUSE AND PROTECT ALL CONTROLLERS. ENCLOSURES SHALL BE COMPLETE WITH TAMPER SWITCHES AND KEY LOCK. PROVIDE GSM AND INTERNET COMMUNICATIONS CONTROLLERS TO RELAY ALARMS TO ALARM MONITORING COMPANY. COORDINATE WITH OWNER AND ALARM MONITORING COMPANY FOR PROVISIONING AND INSTALLATION OF ALARM MONITORING CIRCUITS AND COMMISSION THE COMMUNICATIONS CONTROLLERS INTO SERVICE.



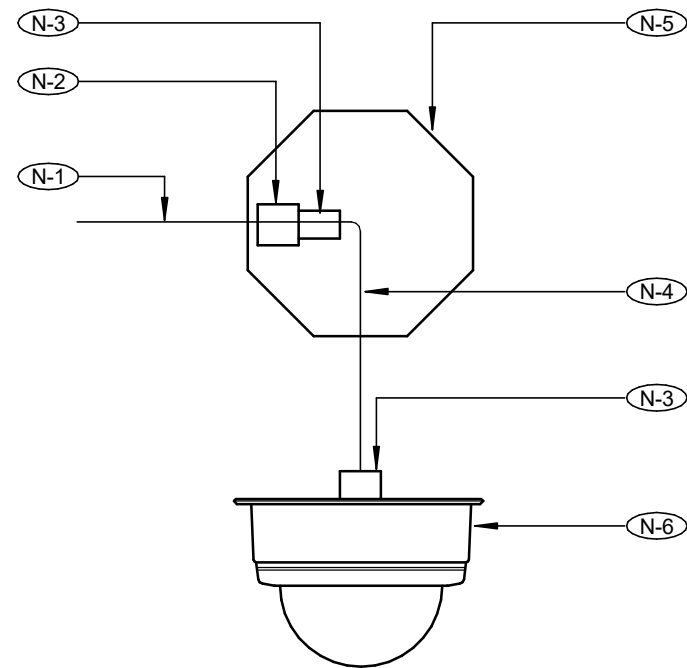
SYMBOL ON PLAN

CAM-XX-XX  
TYPE XX  
WM xxxxMM AFF

GENERAL NOTES:

1. DIAGRAM SHOWN IMPLIES INTENT AND NOT A SPECIFIC MANUFACTURER'S MODEL. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND PLANS FOR EXACT QUANTITY OF DEVICES. PROVIDE AND INSTALL ALL MAJOR AND MISCELLANEOUS MOUNTING HARDWARE TO FACILITATE PROPER MOUNTING AS RECOMMENDED BY MANUFACTURER.
2. COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
3. CEILING TILE OR DRYWALL CEILING.
4. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION ON SITE FOR PROPER COVERAGE. COORDINATE WITH ELECTRICAL CONTRACTOR.
5. ALL ITEMS BY SECURITY CONTRACTOR UNLESS OTHERWISE NOTED

1 TYPICAL WALL MOUNTED OUTDOOR CAMERA



NOTES:

- (N-1) CATEGORY 6 CABLE FROM PATCH PANEL INSTALLED IN CONDUIT
- (N-2) CATEGORY 6 RJ45 JACK
- (N-3) CATEGORY 6 RJ45 PLUG
- (N-4) CATEGORY 6 PATCH CORD
- (N-5) OCTAGON JUNCTION BOX
- (N-6) VIDEO SURVEILLANCE CAMERA

2 VIDEO SURVEILLANCE CAMERA CONNECTIVITY DETAIL

|   |                          |            |
|---|--------------------------|------------|
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STANDARD DETAILS - SECURITY

Project Number: 17488.003  
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File Name:  
Drawn By: DD  
Reviewed By: GZEN

3 ACCESS CONTROL ENCLOSURE MOUNTING DETAILS

E007



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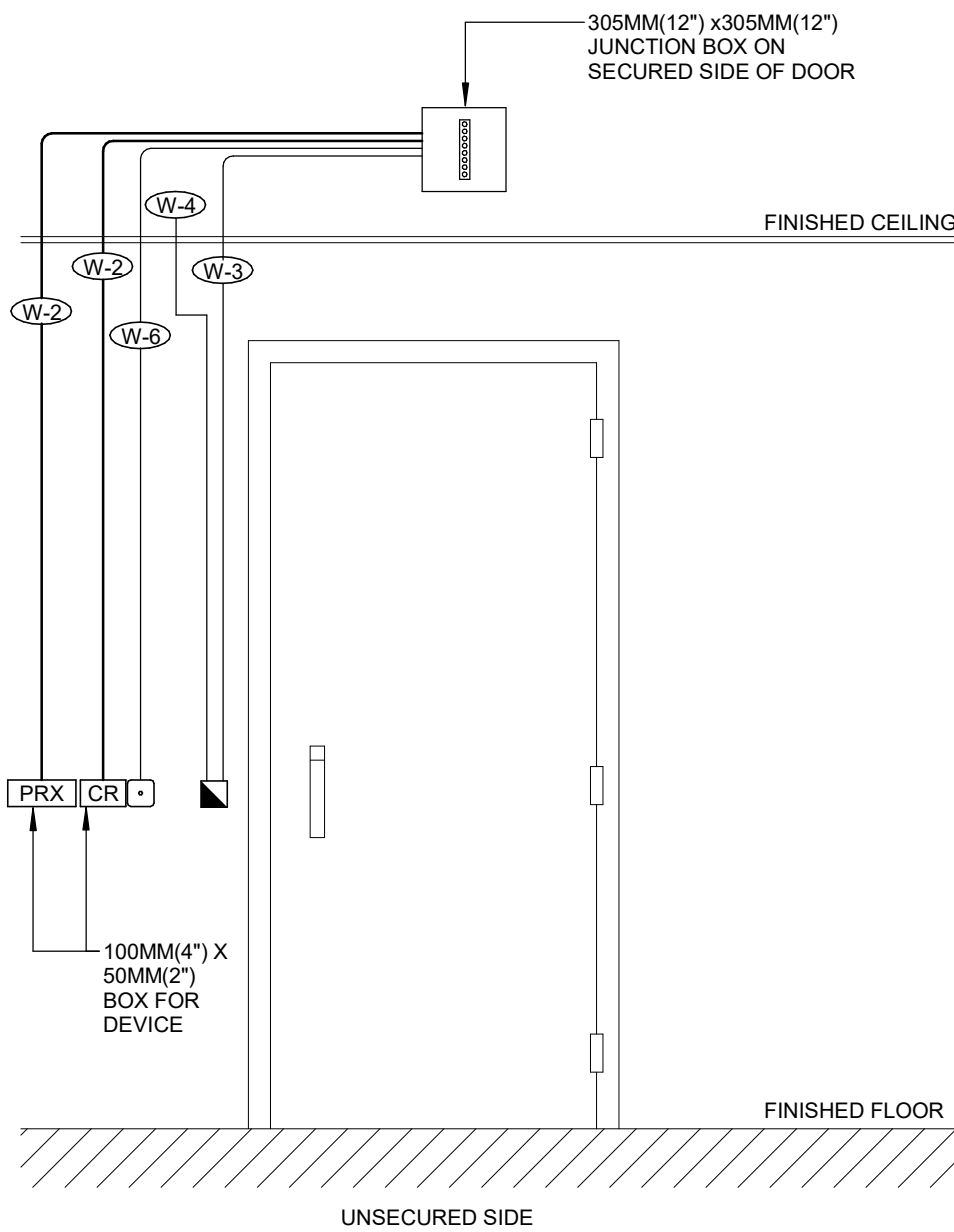
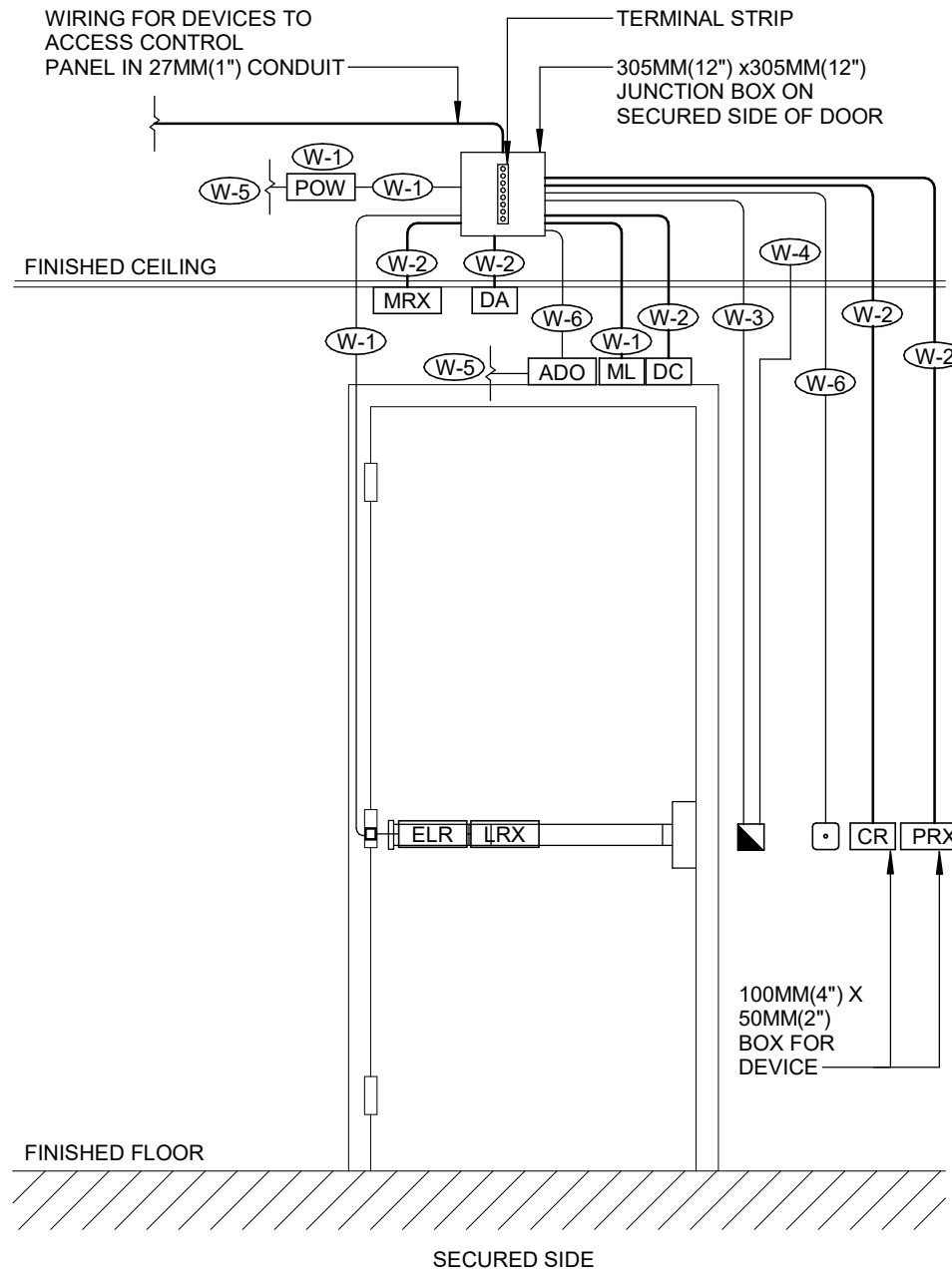
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Notes



GENERAL NOTES:

1. REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
2. DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

| NOTE  | DEVICE                   | CONDUIT                  | WIRING                   | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------|--------------------------|--------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (W-1) | DOOR HARDWARE CONTRACTOR | BY ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR      | SECURITY CONTRACTOR SHALL PROVIDE ALL WIRING FROM THE ACCESS CONTROL SYSTEMS CONTROLLER TO THE TERMINAL STRIP AND FROM THE TERMINAL STRIP TO RESPECTIVE DEVICES.<br><br>ALL WIRING FOR ALL ELECTRIFIED LOCKS INCLUDING BUT NOT LIMITED TO ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ELECTRIC MORTISE LOCKS AND MAGLOCKS SHALL INCLUDE MINIMUM ONE (1) SPARE PAIR OF CONDUCTORS FOR LATCH MONITORING OR FUTURE USE. |
| (W-2) | SECURITY CONTRACTOR      | BY ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR      | SECURITY CONTRACTOR SHALL PROVIDE ALL CONTROLLERS AND CONFIGURE THE ACCESS CONTROL SYSTEM CONTROLLERS TO ACHIEVE REQUIRED MODES OF DOOR OPERATION.<br><br>THE TERMINAL STRIP SHALL BE EQUIPPED WITH QUANTITY OF TERMINALS TO FACILITATE INTERFACING OF ALL DEVICE WIRING. ALL TERMINAL STRIPS BY SECURITY CONTRACTOR.                                                                                                 |
| (W-3) | BY ELECTRICAL CONTRACTOR | BY ELECTRICAL CONTRACTOR | BY ELECTRICAL CONTRACTOR | WIRING FROM FIRE ALARM PULL STATION TO FIRE MAGNETIC LOCK.                                                                                                                                                                                                                                                                                                                                                            |
| (W-4) | BY ELECTRICAL CONTRACTOR | BY ELECTRICAL CONTRACTOR | BY ELECTRICAL CONTRACTOR | WIRING FROM FIRE ALARM PULL STATION TO FIRE ALARM PANEL.                                                                                                                                                                                                                                                                                                                                                              |
| (W-5) | N/A                      | BY ELECTRICAL CONTRACTOR | BY ELECTRICAL CONTRACTOR | WIRING FROM 120VAC POWER SUPPLY SOURCE.                                                                                                                                                                                                                                                                                                                                                                               |
| (W-6) | DOOR HARDWARE CONTRACTOR | ELECTRICAL CONTRACTOR    | DOOR HARDWARE CONTRACTOR | N/A                                                                                                                                                                                                                                                                                                                                                                                                                   |

| DEVICE | MOUNTING HEIGHT      | DEVICE | MOUNTING HEIGHT                                                 |
|--------|----------------------|--------|-----------------------------------------------------------------|
| [CR]   | 1100 MM (43 IN.) AFF | [MRX]  | WALL OR CEILING MOUNT ABOVE DOOR AS RECOMMENDED BY MANUFACTURER |
| [PRX]  | 1100 MM (43 IN.) AFF | [DA]   | CEILING MOUNT ABOVE DOOR                                        |

FOR ALL OTHER DEVICES REFER TO RESPECTIVE DISCIPLINE CONTRACT DESIGN DOCUMENT.

GENERAL NOTES:

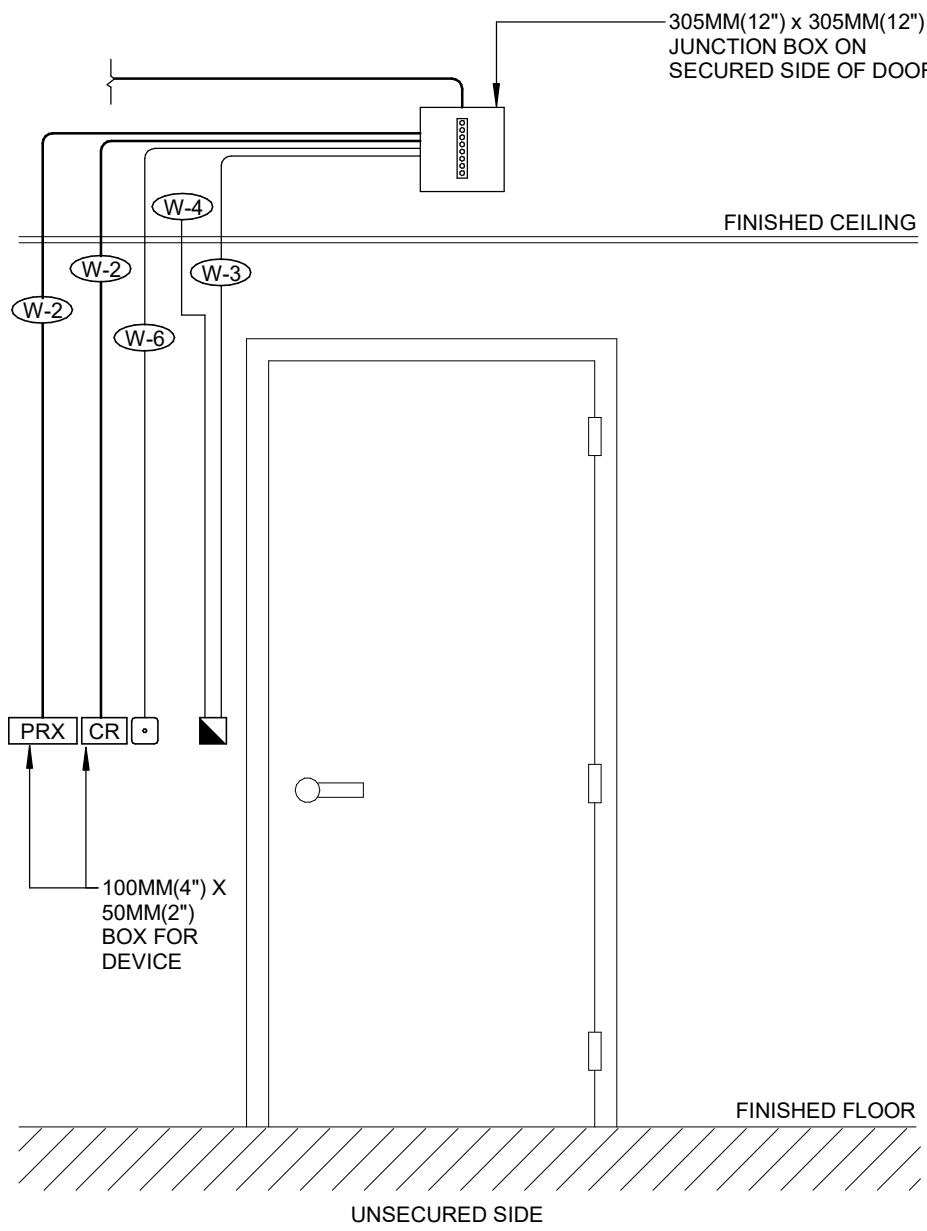
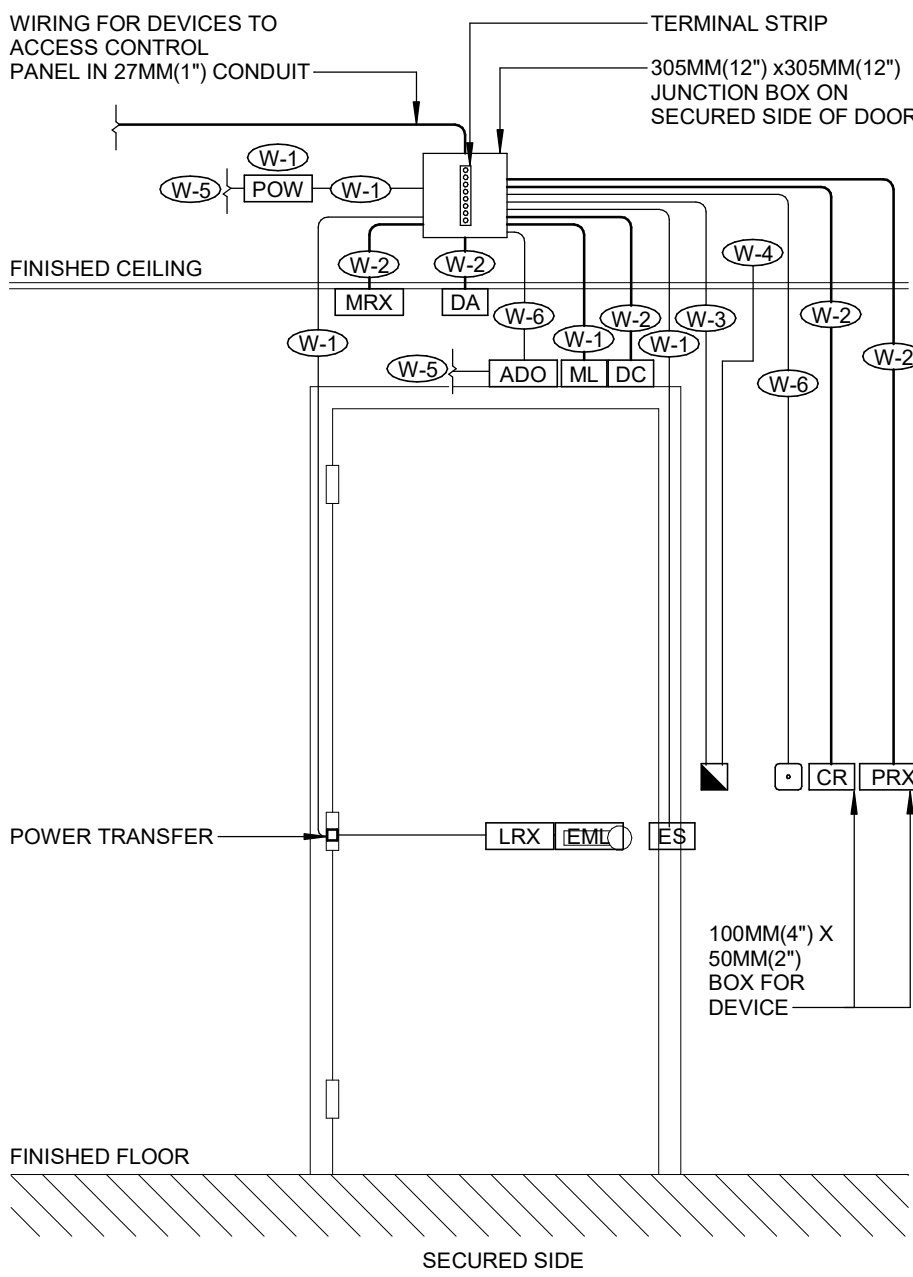
1. REFER TO SECURITY PLAN DRAWINGS, ELECTRICAL DRAWINGS AND DOOR HARDWARE SCHEDULE FOR ADDITIONAL DETAILS.
2. COORDINATE EXACT LOCATIONS OF DEVICES ON SITE WITH ELECTRICAL AND DOOR HARDWARE CONTRACTOR.
3. ALL TERMINAL STRIPS SHALL BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR.
4. THIS DIAGRAM SHALL BE READ IN CONJUNCTION WITH THE DOOR AND HARDWARE SCHEDULE.
5. ALL WIRING SHALL BE INSTALLED IN CONDUITS. ALL CONDUIT SHALL BE 19mm UNLESS OTHERWISE NOTED.
6. PRIOR TO INTERFACING WITH DEVICES AND DEVICE ASSOCIATED WIRING THAT ARE PROVIDED BY ELECTRICAL AND DOOR AND HARDWARE (D.H.) CONTRACTORS, COORDINATE WITH THE ELECTRICAL AND DOOR AND HARDWARE (D.H.) CONTRACTORS AND ENSURE THAT ALL DEVICES AND WIRING PROVIDED ARE CERTIFIED BY THE RESPECTIVE TRADE TO BE IN PROPER WORKING ORDER.
7. PROVIDE ALL ACTIVE AND PASSIVE HARDWARE, ALL WIRING AND PROGRAMING OF SECURITY SYSTEM SOFTWARE TO FACILITATE EACH MODE OF OPERATION FOR EACH DOOR.
8. ALL DOOR HARDWARE DEVICES PROVIDED SHALL MEET ALL REQUIREMENTS LISTED IN THE ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT (AODA).
9. FOR ALL DOORS THAT ARE EQUIPPED WITH AUTOMATIC DOOR OPERATORS PROVIDE ALL ACCESS CONTROL CONTROLLERS AND WIRING REQUIRED TO INTEGRATE THE AUTOMATIC DOOR OPERATORS AND PUSH BUTTON OPERATORS WITH THE ACCESS CONTROL CONTROLLERS TO FACILITATE THE SEQUENCE OF OPERATION.

3 SECURITY SINGLE DOOR NON-IP PUSHBAR

E008

1 DOOR DETAIL NOTES

E008



GENERAL NOTES:

1. REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
2. DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

2 SECURITY SINGLE DOOR NON-IP ELECTRIC STRIKE

E008

|   |                          |            |
|---|--------------------------|------------|
| 4 | ISSUED FOR PERMIT TENDER | 2026.01.29 |
| 3 | ISSUED FOR PROGRESS SET  | 2026.01.16 |
| 2 | ISSUED FOR COORDINATION  | 2025.12.12 |
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STANDARD DETAILS - SECURITY

Project Number: 17488.003  
Drawing Scale: N.T.S.  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN

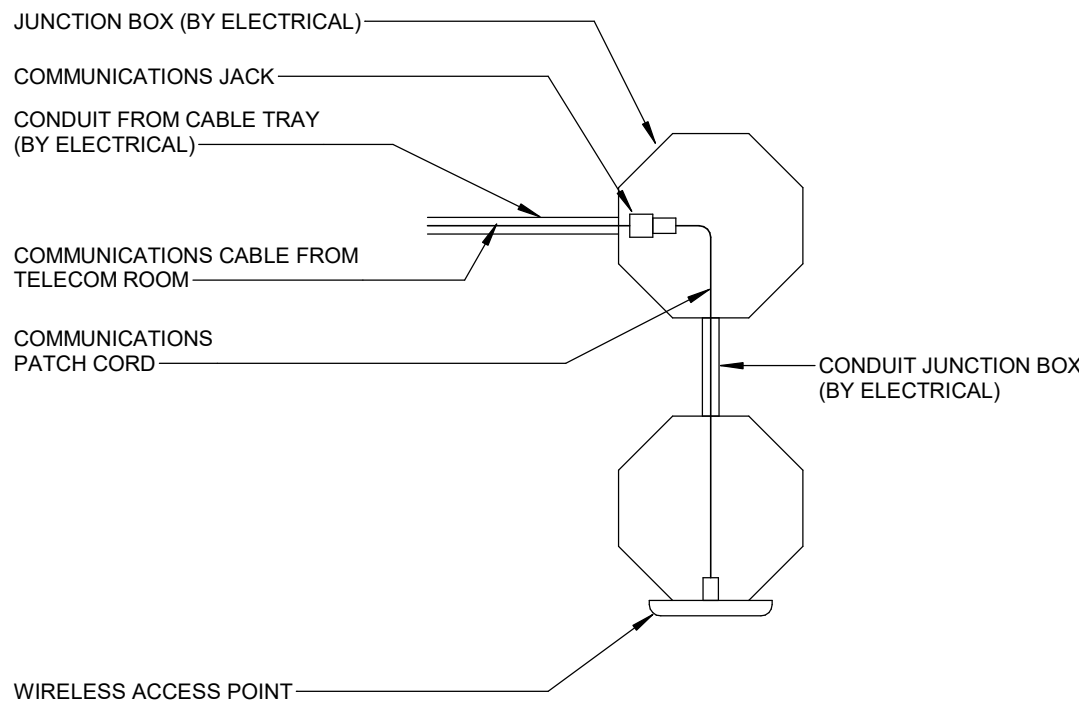
E008



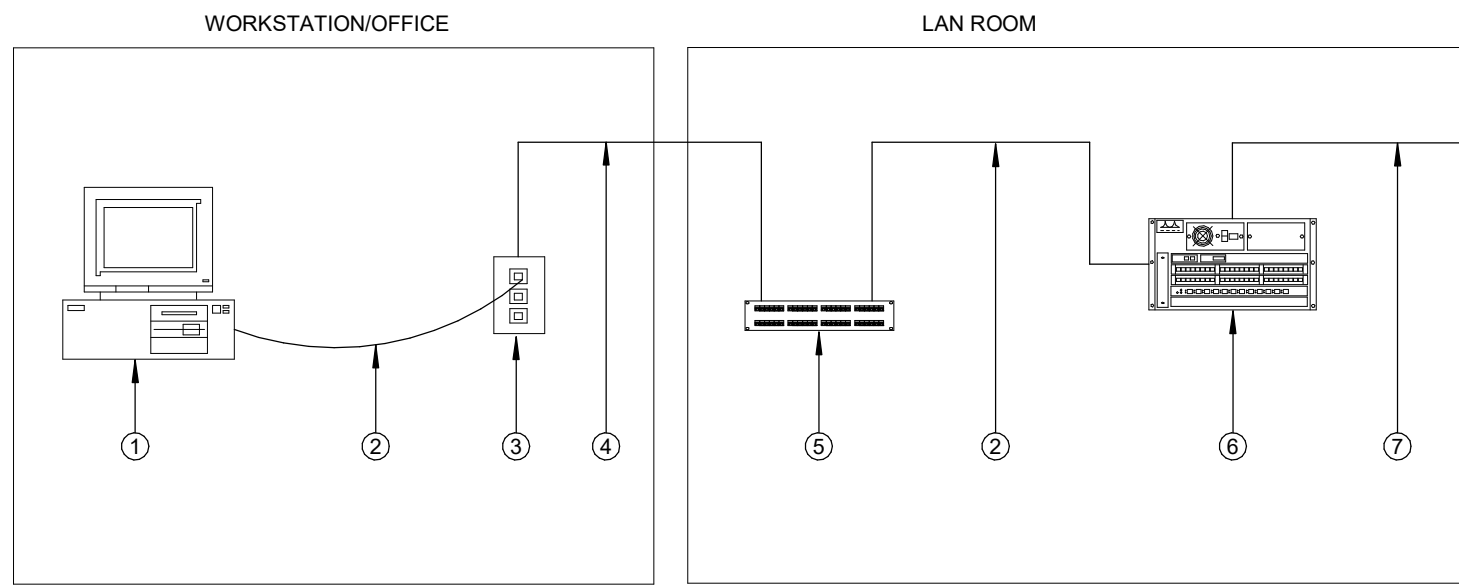
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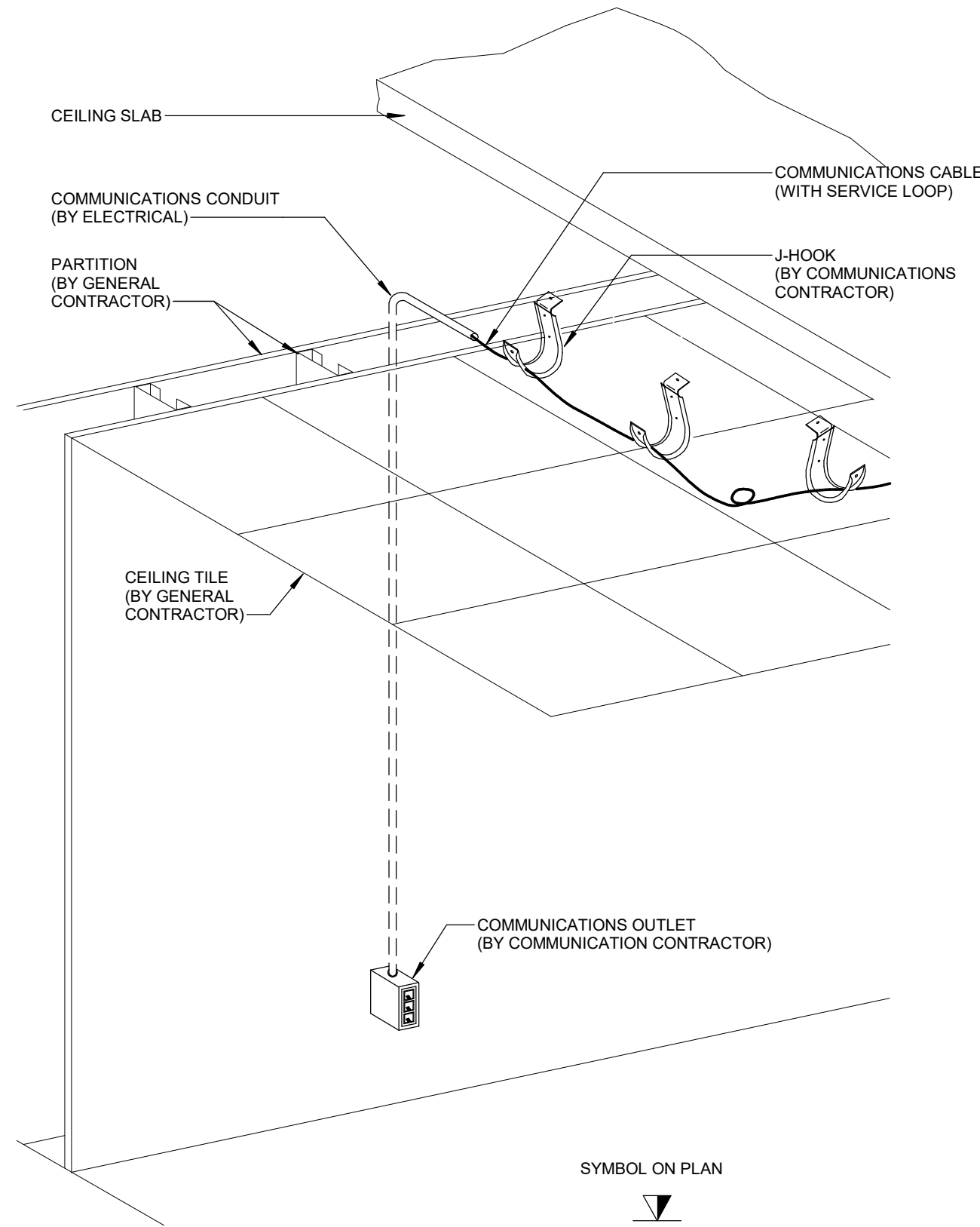


5 COMMS-27 00 00.22 - WIRELESS ACCESS POINT CONNECTIVITY DETAIL

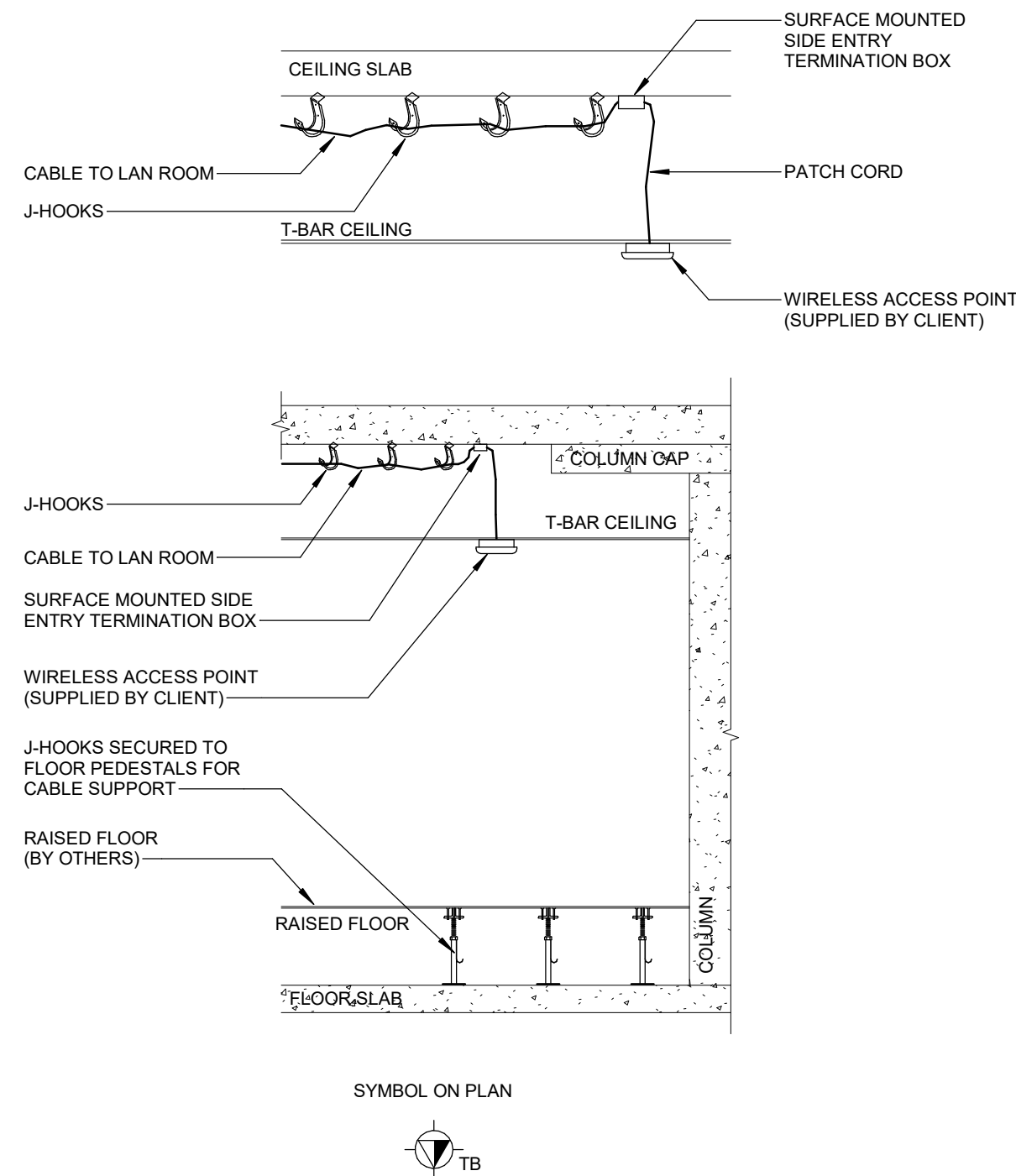


- NOTES:
- (N-1) THIS IS A SCHEMATIC DRAWING ONLY. REFER TO FLOOR PLANS AND ELEVATIONS FOR QUANTITIES. FOR ALL MATERIALS REFER TO SPECIFICATIONS.
- (N-2) FOR COMPONENTS LISTED BELOW, COMMUNICATIONS CONTRACTOR SHALL REFERENCE COMMUNICATIONS SPECIFICATION FOR REQUIREMENTS. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.
1. COMPUTER (BY CLIENT)
  2. FT4 4-PAIR UTP PATCH CORD
  3. MULTI-PORT COMMUNICATIONS OUTLET
  4. FT6 (CMP) 4-PAIR UTP CABLE AS PER SPECIFICATION.
  5. 48 PORT MODULAR PATCH PANEL
  6. ACTIVE EQUIPMENT (BY CLIENT)
  7. DATA BACKBONE TO ENTRANCE FACILITY ROOM.

3 COMMS-27 00 00.17 - TYPICAL DATA CONNECTIVITY SCHEMATIC

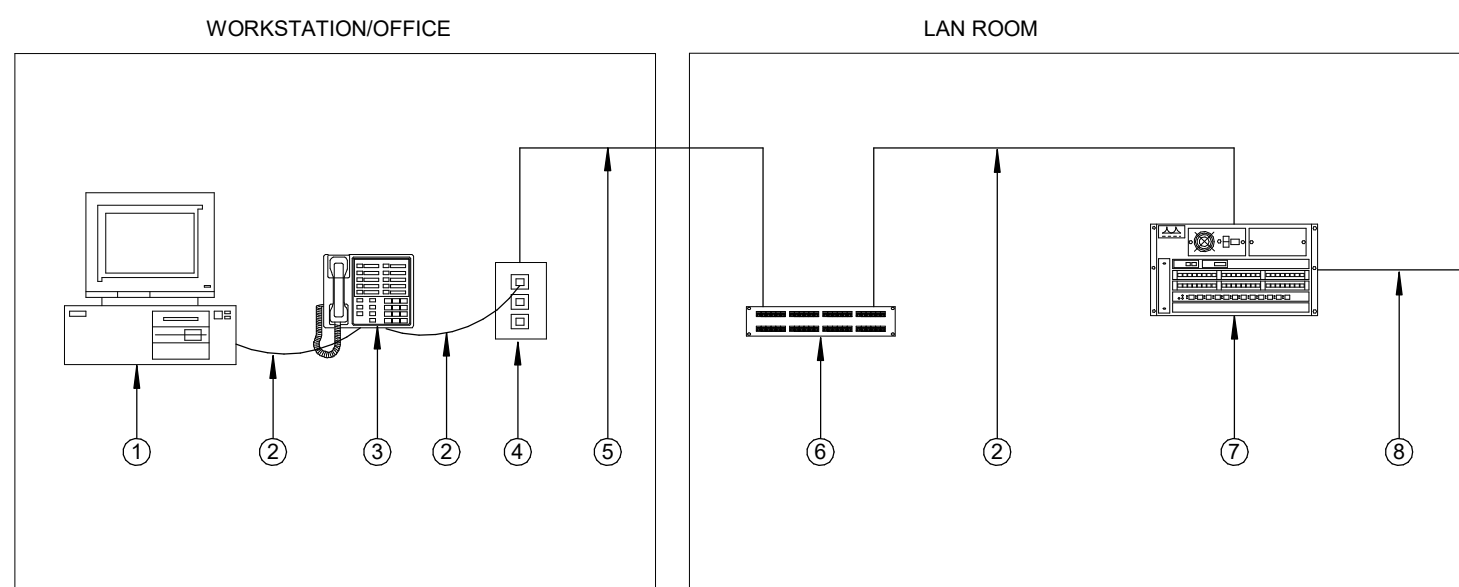


1 COMMS-27 00 00.07 - TYPICAL COMMUNICATIONS CABLE WALL ROUTING DETAIL - ACCESSIBLE CEILING



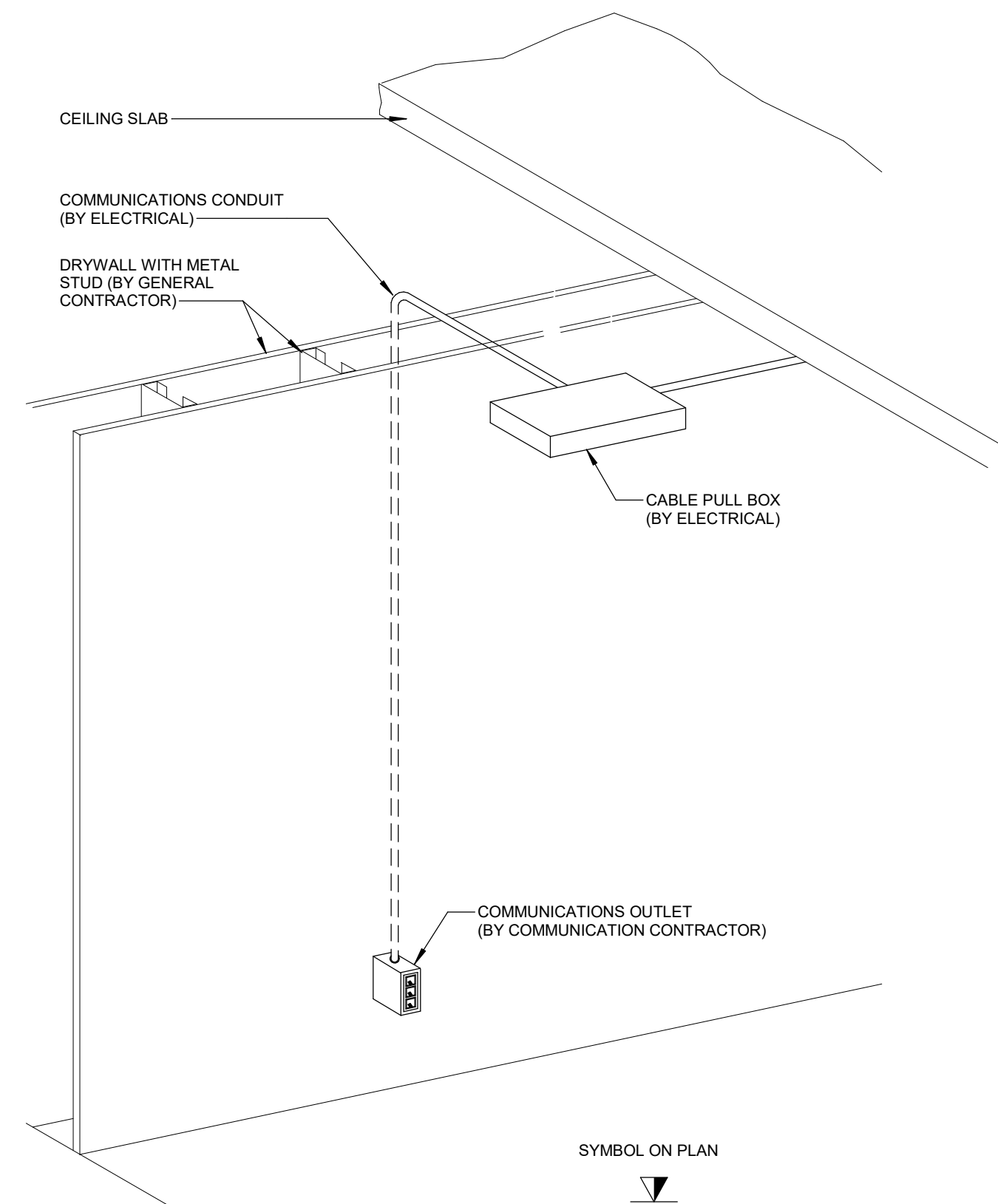
- NOTES:
- (N-1) ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL TO PROVIDE PULL STRINGS IN EMPTY CONDUITS. CO-ORDINATE EXACT LOCATIONS ON SITE WITH COMMUNICATIONS CONTRACTOR..
- (N-2) COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATIONS CABLING AND COMPONENTS.

6 COMMS-27 00 00.23 - WIRELESS ACCESS POINT ROUTING AND TERMINATION DETAIL - ACCESSIBLE CEILING



- NOTES:
- (N-1) THIS IS A SCHEMATIC DRAWING ONLY. REFER TO FLOOR PLANS AND ELEVATIONS FOR QUANTITIES. FOR ALL MATERIALS REFER TO SPECIFICATIONS.
- (N-2) FOR COMPONENTS LISTED BELOW, COMMUNICATIONS CONTRACTOR SHALL REFERENCE COMMUNICATIONS SPECIFICATION FOR REQUIREMENTS. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.
1. COMPUTER (BY CLIENT)
  2. FT4 4-PAIR UTP PATCH CORD
  3. TELEPHONE (BY CLIENT)
  4. MULTI-PORT COMMUNICATIONS OUTLET
  5. FT6 (CMP) 4-PAIR UTP CABLE AS PER SPECIFICATION.
  6. 48 PORT MODULAR PATCH PANEL
  7. ACTIVE EQUIPMENT (BY CLIENT)
  8. DATA BACKBONE TO ENTRANCE FACILITY ROOM.

4 COMMS-27 00 00.21 - TYPICAL VoIP CONNECTIVITY SCHEMATIC



2 COMMS-27 00 00.14 - TYPICAL COMMUNICATIONS CABLE WALL ROUTING DETAIL - CONDUIT SPINE

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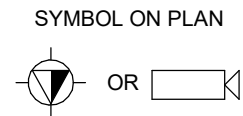
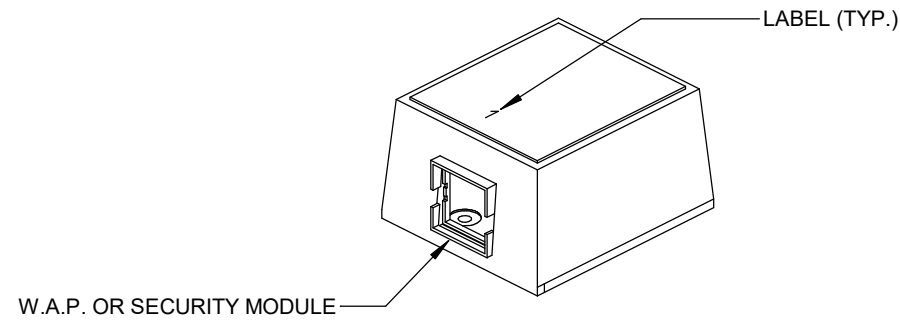


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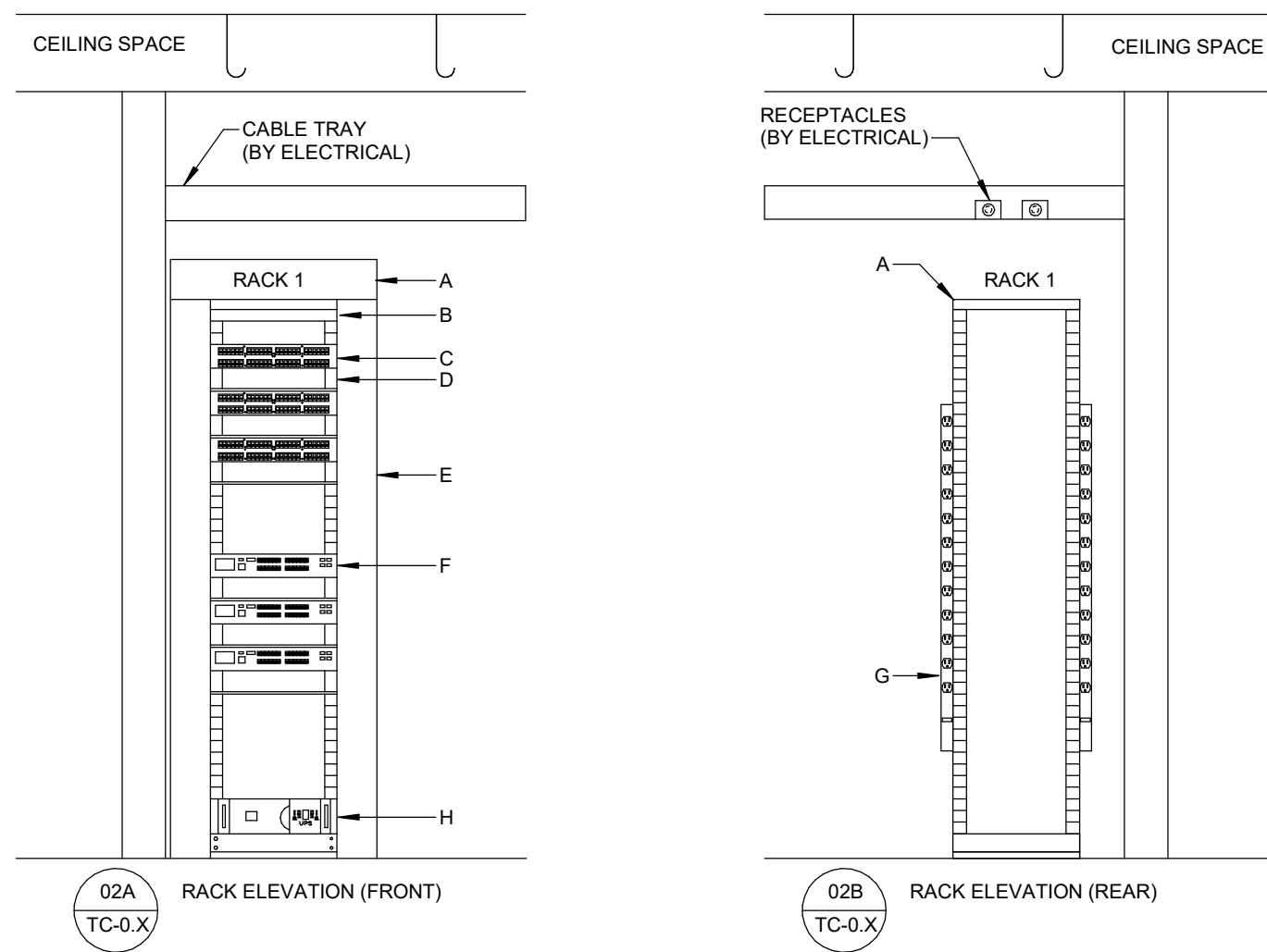
Project Number: 17488.003  
Drawing Scale: N.T.S.  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN



NOTES:

- (N-1) PROVIDE AN ADDITIONAL 20 FOOT SERVICE LOOP FOR WIRELESS ACCESS POINT CABLES.
- (N-2) INSTALL CLIENT SUPPLIED WIRELESS ACCESS POINTS.

5 COMMS-27 00 00.42 - 1-PORT SURFACE MOUNTED TERMINATION BOX DETAIL

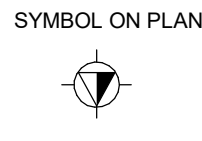
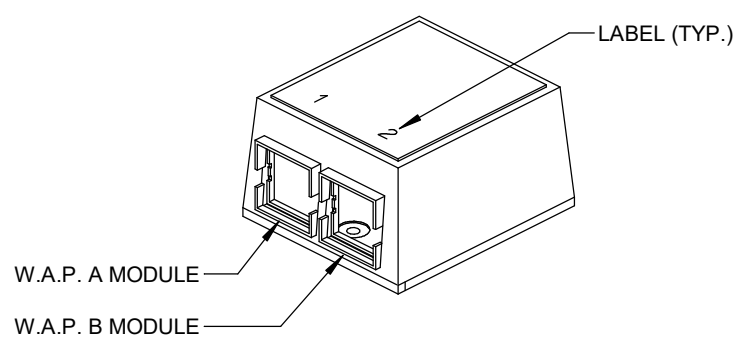


NOTES:

- (N-1) FOR COMPONENTS LISTED BELOW, COMMUNICATIONS CONTRACTOR SHALL REFERENCE COMMUNICATIONS SPECIFICATION FOR REQUIREMENTS. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.

- A. 19" 45U FLOOR MOUNTED TELECOMMUNICATIONS 2-POST RACK. (TYP.)
- B. FIBER PATCH PANEL AND FIBER CONNECTIVITY: REFER TO COMMUNICATION RISER DIAGRAM FOR DETAILS.
- C. MODULAR PATCH PANEL FOR HORIZONTAL DATA CABLING. REFER TO PATCH PANEL DETAIL. (TYP.)
- D. 2U HORIZONTAL CABLE MANAGEMENT PANEL (TYP.)
- E. 6" VERTICAL CABLE MANAGEMENT PANEL (TYP.)
- F. ACTIVE EQUIPMENT (BY OWNER).
- G. VERTICAL POWER BAR (PDU) BEHIND RACK WITH 12 NEMA 5-20 OUTPUT RECEPTACLES AND COMES WITH A MINIMUM OF 3M (10FT) CORD AND NEMA L5-30 INPUT PLUG. (TYP.)
- H. UPS BY OWNER (TYP.)

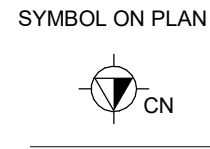
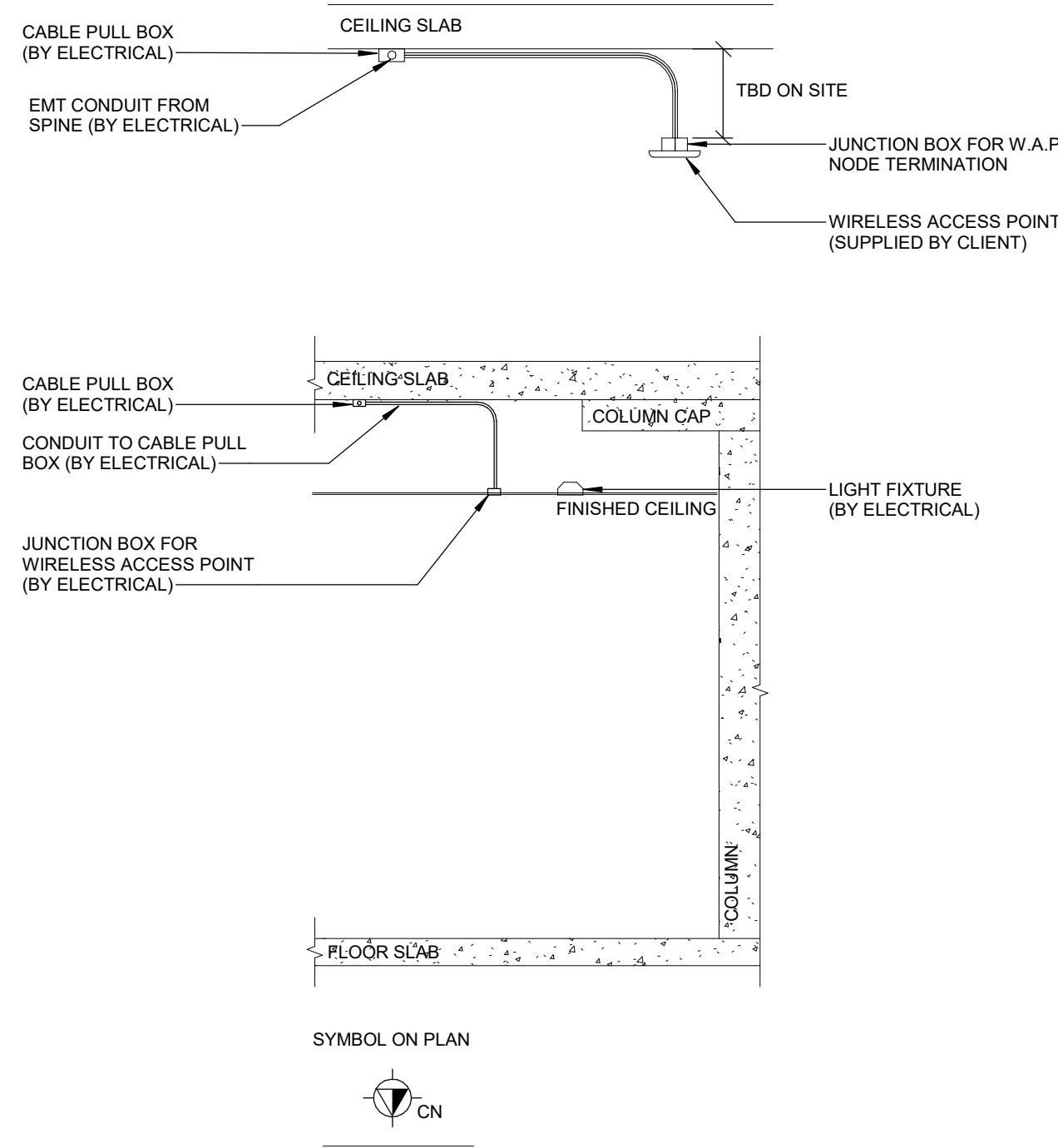
3 COMMS-27 00 00.33 - COMMUNICATIONS RACK ELEVATION DETAIL



NOTES:

- (N-1) PROVIDE AN ADDITIONAL 20 FOOT SERVICE LOOP FOR WIRELESS ACCESS POINT CABLES.
- (N-2) INSTALL CLIENT SUPPLIED WIRELESS ACCESS POINTS.

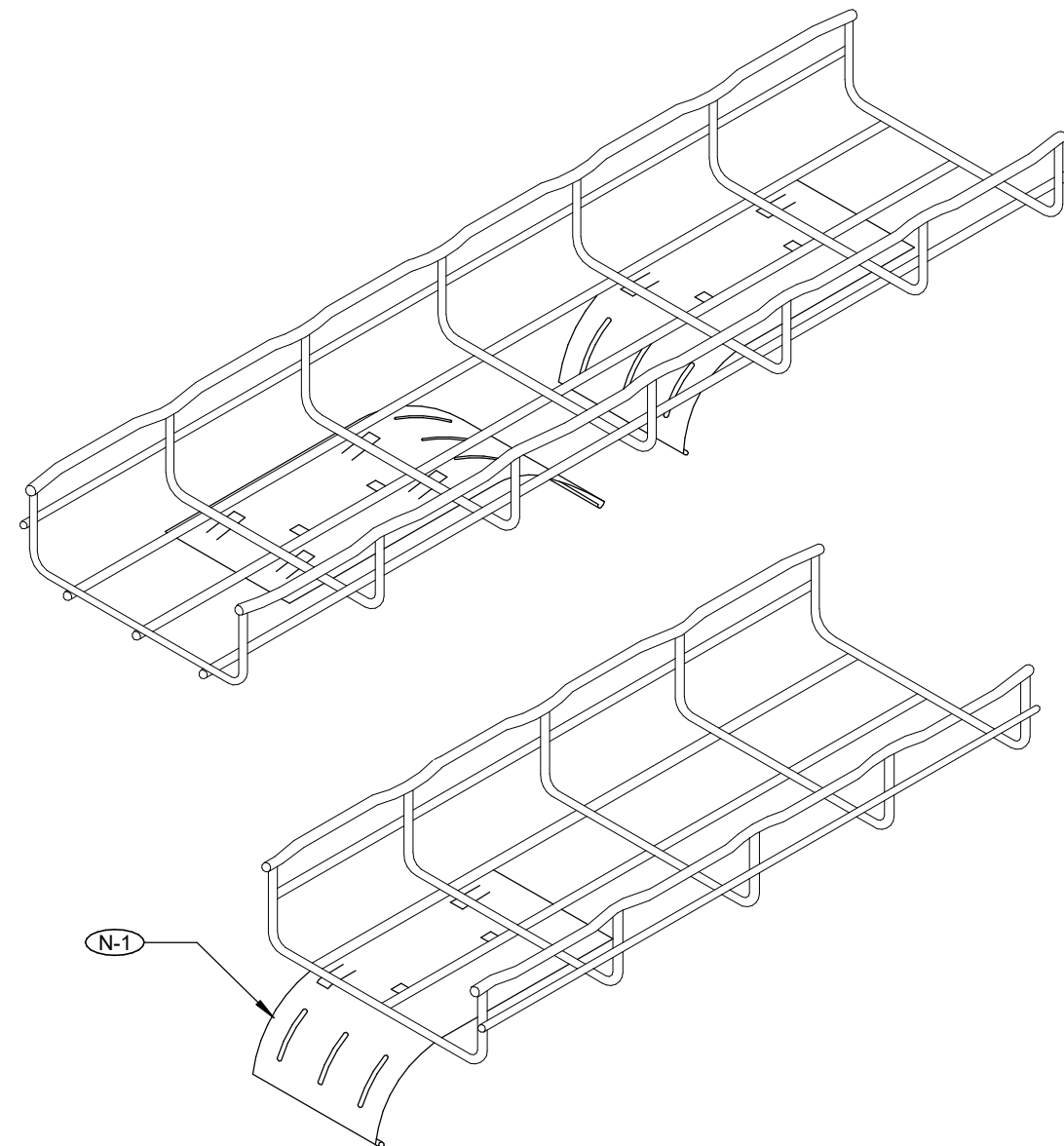
4 COMMS-27 00 00.43 - 2-PORT SURFACE MOUNTED TERMINATION BOX DETAIL



NOTES:

- (N-1) ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL TO PROVIDE PULL STRINGS IN EMPTY CONDUITS. CO-ORDINATE EXACT LOCATIONS ON SITE WITH COMMUNICATIONS CONTRACTOR.
- (N-2) COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATIONS CABLING AND COMPONENTS.

1 COMMS-27 00 00.25 - WIRELESS ACCESS POINT ROUTING AND TERMINATION DETAIL - CONDUIT SPINE



NOTES:

- (N-1) THIS DRAWING IS FOR SCHEMATIC PURPOSES. ACTUAL TRAY AND SIZE MAY VARY. REFER TO FLOOR PLANS FOR CABLE TRAY TYPE AND SIZE.
- (N-2) PROVIDE CABLE TRAY WATERFALL DROP OUT ACCESSORY OF APPROPRIATE SIZE TO ADEQUATELY SUPPORT ALL CABLING THAT IS COMPATIBLE WITH CABLE TRAY.

2 COMMS-27 00 00.30 - COMMUNICATIONS CABLE TRAY WATERFALL DETAIL



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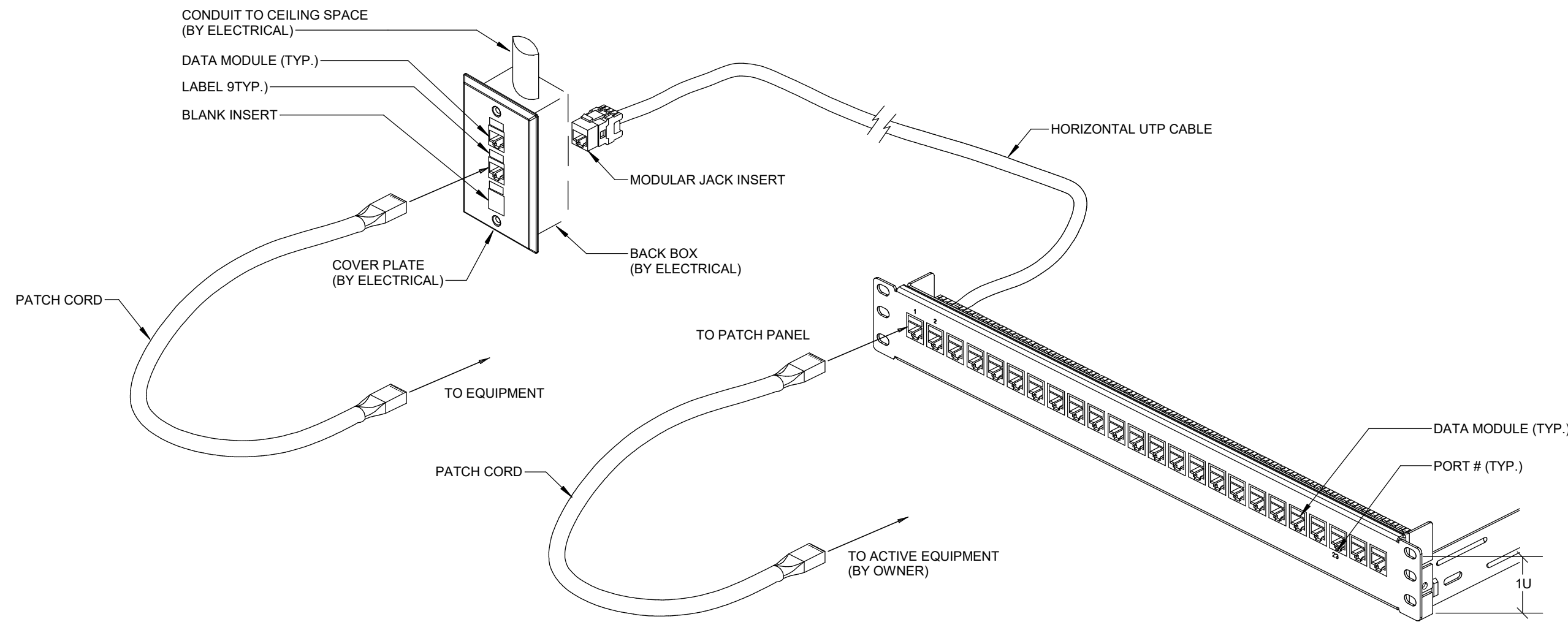
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Drawing Scale: N.T.S.  
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Reviewed By: GZ/EN

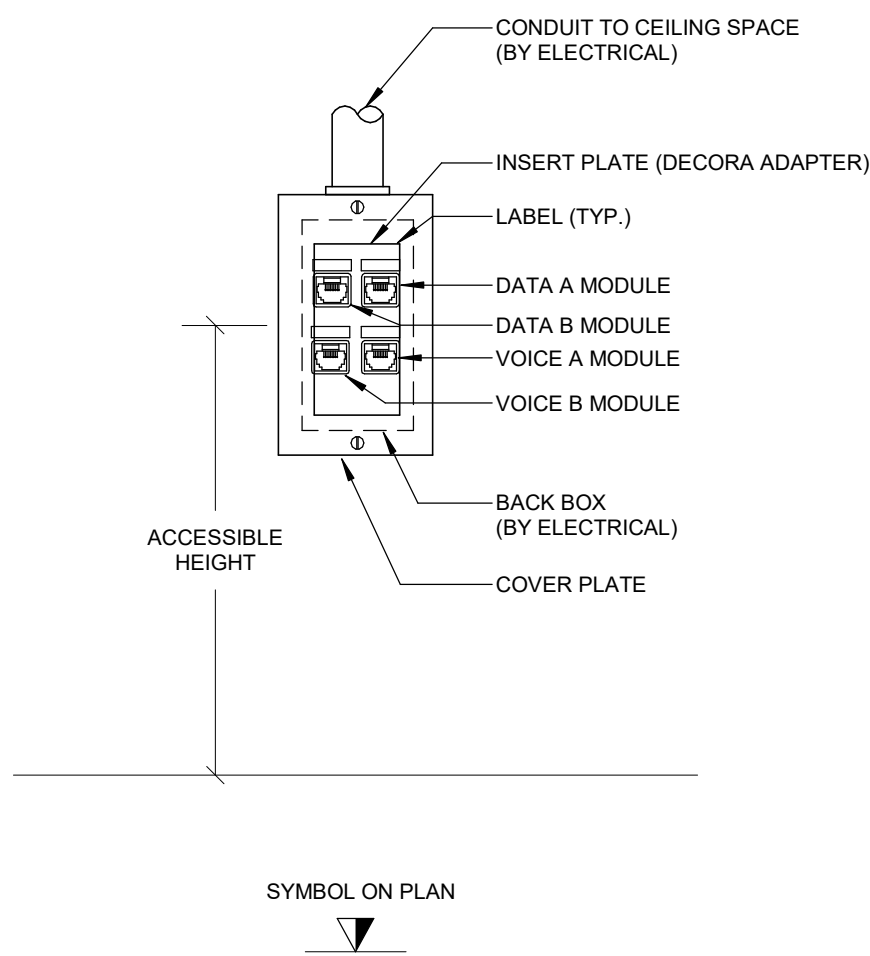
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Notes



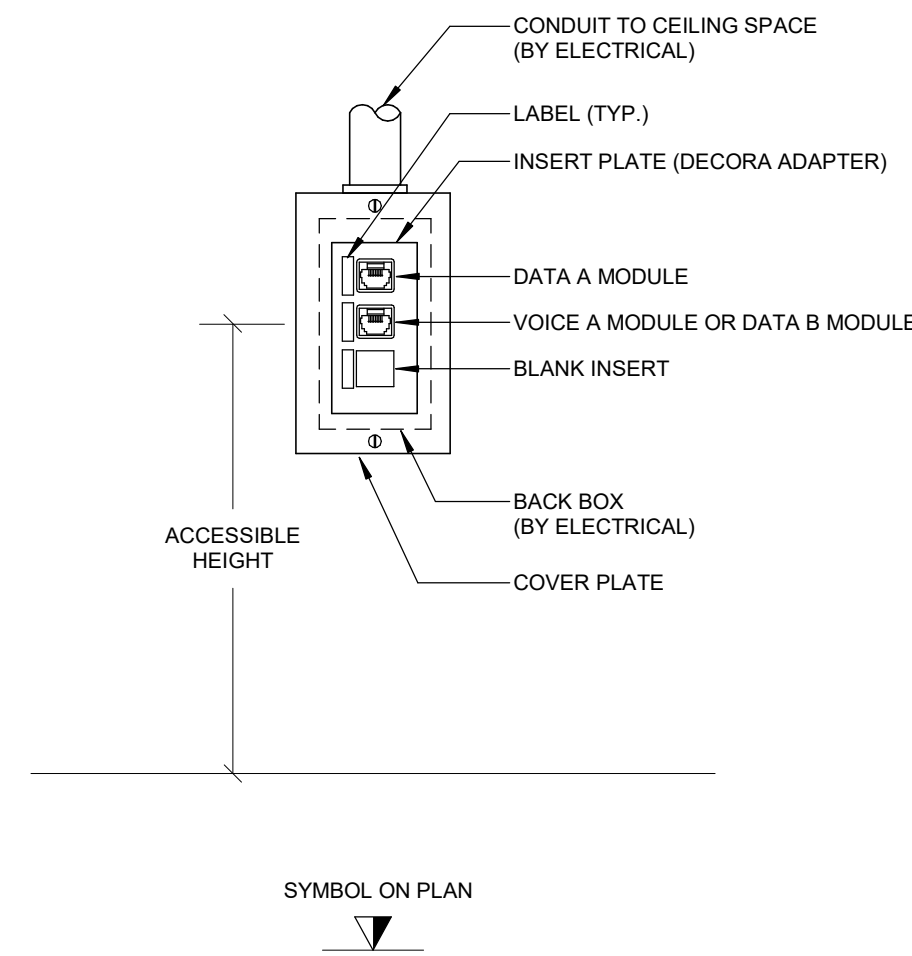
NOTES:  
(N-1) HORIZONTAL CABLE LABELING SCHEDULE TO FOLLOW ANSI/TIA-606-LATEST ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS AND AS PER OWNER'S PREFERRED LABELING SCHEME.  
TX.Y WHERE  
T = TYPE OF CABLE (DATA (D), VOICE (V), WIRELESS (W), AUDIO/VISUAL (AV), OR SECURITY (S)).  
X = FLOOR NUMBER  
Y = CABLE NUMBER (STARTING AT 001 - ...HIGHEST CABLE NUMBER)  
EX D7.017  
D = DATA  
7 = 7TH FLOOR  
0.17 = 17TH CABLE

1 COMMS-27 00 00.39 - TYPICAL 1U-24 PORT MODULAR PATCH PANEL DETAIL



NOTES:  
(N-1) REFER TO COMMUNICATIONS CABLING LAYOUT FOR EXACT DATA/VOICE OUTLET QUANTITIES.  
(N-2) FOR COMMUNICATIONS CABLING, FACEPLATE, INSERT PLATES, JACKS, BLANK INSERT AND LABELING REFER TO COMMUNICATIONS SPECIFICATION.  
(N-3) CONDUIT AND BACKBOX BY ELECTRICAL.

3 COMMS-27 00 00.68 - TYPICAL WALL MOUNTED COMMUNICATIONS 4-PORT OUTLET DETAIL



NOTES:  
(N-1) REFER TO COMMUNICATIONS CABLING LAYOUT FOR EXACT DATA/VOICE OUTLET QUANTITIES.  
(N-2) FOR COMMUNICATIONS CABLING, FACEPLATE, INSERT PLATES, JACKS, BLANK INSERT AND LABELING REFER TO COMMUNICATIONS SPECIFICATION.  
(N-3) CONDUIT AND BACKBOX BY ELECTRICAL.

2 COMMS-27 00 00.67 - TYPICAL WALL MOUNTED COMMUNICATIONS 3-PORT OUTLET DETAIL

|   |                          |            |
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STANDARD DETAILS -  
COMMUNICATION

Project Number: 17488.003  
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DRAWING NOTES:

1. 4-PAIR UTP CATEGORY 6A HORIZONTAL DATA/VOIP CABLE IN 21MM CONDUIT, TYPICAL. QUANTITY AS PER POWER&SYSTEMS FLOORPLANS. CABLE BY COMMUNICATION CONTRACTOR. CONDUIT BY ELECTRICAL CONTRACTOR.
2. 2" CONDUIT FOR IN-COMING FIBER BACKBONE CABLE. CONDUIT BY ELECTRICAL CONTRACTOR. CABLE BY SERVICE PROVIDER (TO BE ARRANGED BY OWNER). ELECTRICAL CONTRACTOR TO COORDINATE EXACT ROUTE ON SITE ALONG WITH OTHER ELECTRICAL SERVICES FROM BASE BUILDING
3. RACK MOUNT UNINTERRUPTIBLE POWER SUPPLY (UPS) BY COMMUNICATION CONTRACTOR.

GENERAL NOTES:

- A. RISER IS DIAGRAMMATIC ONLY. READ IN CONJUNCTION WITH PLAN DRAWINGS, SPECIFICATIONS, DETAILS, AND POWER&SYSTEMS DRAWING SERIES. REFERENCE COMMUNICATION SPECIFICATIONS FOR ALL REQUIREMENTS.
- B. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.
- C. PROVIDE ADEQUATE FIRE STOPPING AS REQUIRED.
- D. ACTIVE EQUIPMENT AND WIRELESS ACCESS POINTS ARE PROVIDED BY OWNER.
- E. LOCATIONS OF DEVICES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATION OF EACH DEVICE ON SITE WITH OTHER TRADES.
- F. QUANTITIES OF DEVICES SHOWN ARE FOR DIAGRAMMATIC PURPOSES AND TO INDICATE INTRA SYSTEM CONNECTIVITY AND INTERSYSTEM CONNECTIVITY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
- G. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR.
- H. ALL CABLES SHALL BE HOME RUN IN CONDUITS. CABLE SPLICES SHALL NOT BE ACCEPTABLE. WHERE CABLES ARE GROUPED AND INSTALLED IN A SINGLE CONDUIT THE CONDUIT SHALL BE SIZED TO MAXIMUM 40% FILL.
- I. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, SECURITY AND AV DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH SECURITY/AV/ELECTRICAL SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
- J. DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAIL UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- K. DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- L. INFORM THE CONTRACT ADMINISTRATOR'S REPRESENTATIVE AND CONTRACTOR OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE CONTRACT ADMINISTRATOR'S REPRESENTATIVE PRIOR TO INSTALLATION.
- M. ALL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA-569-E THE TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) AND THE ELECTRONIC INDUSTRIES ALLIANCE (EIA) STANDARDS FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.
- N. PROVIDE PULL/JUNCTION BOXES ALL THE ROUTE OF ALL CONDUIT RUNS AS PER ANSI/TIA-569-E.
- O. PULL BOXES SHOULD BE PLACED IN SECTIONS OF CONDUIT THAT ARE:  
A. 30M (100 FEET) OR LONGER.  
B. CONTAIN MORE THAN TWO 90 DEGREE BENDS.  
C. CONTAIN A REVERSE BEND.
- P. PULL POINT OR PULL BOX SHOULD NOT BE USED IN LIEU OF A BEND. CONDUITS THAT ENTER THE PULL POINT OR PULL BOX FROM OPPOSITE ENDS WITH EACH OTHER SHOULD BE ALIGNED.
- Q. PROVIDE FIRE-STOPPING IN SLEEVES AS PER SPECIFICATIONS.
- R. PROVIDE PULLSTRINGS IN ALL CONDUIT.
- S. ALL CONDUITS ARE TO BE A MINIMUM OF 27mm (1") UNLESS OTHERWISE NOTED.
- T. COORDINATE EXACT BACK BOX REQUIREMENTS WITH COMMUNICATIONS SUBCONTRACTOR ON SITE PRIOR TO ROUGH-IN AND INSTALLATION.
- U. ALL ITEMS SHALL BE PROVIDED BY THE ELECTRICAL SUBCONTRACTOR, UNLESS OTHERWISE STATED.
- V. MAXIMUM OF ELEVEN (11) DATA CABLES PER COMMUNICATION ZONE JUNCTION BOX.
- W. PROVIDE REQUIRED COMMUNICATION ZONE JUNCTION BOX FOR QUANTITY OF DEVICES SHOWN ON POWER AND SYSTEMS PLANS.

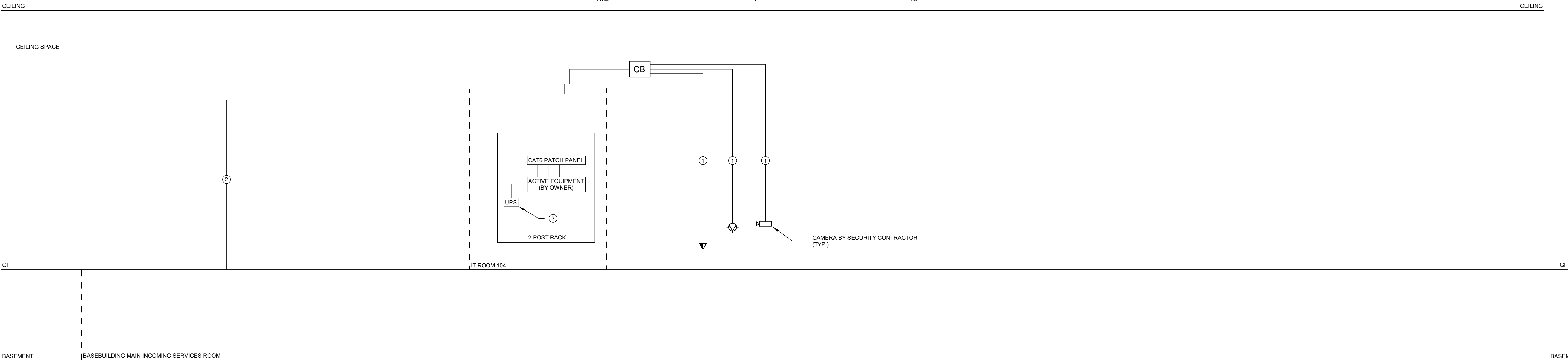
USE THE TABLE BELOW TO SELECT THE PROPER SIZE OF PULL BOX:

MINIMUM SPACE REQUIREMENTS IN PULL BOXES HAVING ONE CONDUIT EACH IN OPPOSITE ENDS OF THE BOX:

| CONDUIT TRADE SIZE<br>mm(IN) | WIDTH<br>mm (IN) | LENGTH<br>mm (IN) | DEPTH<br>mm(IN) | WIDTH INCREASE FOR ADDITIONAL CONDUIT<br>mm (IN) |
|------------------------------|------------------|-------------------|-----------------|--------------------------------------------------|
| 27 (1)                       | 100 (4)          | 405 (16)          | 75 (3)          | 50 (2)                                           |
| 35 (1-1/4)                   | 150 (6)          | 510 (20)          | 75 (3)          | 75 (3)                                           |
| 41 (1-1/2)                   | 200 (8)          | 686 (27)          | 100 (4)         | 100 (4)                                          |
| 53 (2)                       | 200 (8)          | 900 (36)          | 100 (4)         | 125 (5)                                          |
| 63 (2-1/2)                   | 255 (10)         | 1067 (42)         | 125 (5)         | 150 (6)                                          |
| 75 (3)                       | 300 (12)         | 1220 (48)         | 125 (5)         | 150 (6)                                          |
| 91 (3-1/2)                   | 300 (12)         | 1370 (54)         | 150 (6)         | 150 (6)                                          |
| 102 (4)                      | 375 (15)         | 1525 (60)         | 200 (8)         | 200 (8)                                          |

ALL CONDUITS ARE TO BE SIZED AS PER BELOW:

| CONDUIT INSIDE DIAMETER<br>mm | TRADE SIZE | NO. OF MAXIMUM CAT. 6 CABLES CAPACITY<br>CALCULATED AT 40% CONDUIT FILL |
|-------------------------------|------------|-------------------------------------------------------------------------|
| 27                            | 1          | 2                                                                       |
| 35                            | 1-1/4      | 4                                                                       |
| 41                            | 1-1/2      | 6                                                                       |
| 53                            | 2          | 11                                                                      |
| 63                            | 2-1/2      | 18                                                                      |
| 75                            | 3          | 26                                                                      |
| 91                            | 3-1/2      | 35                                                                      |
| 102                           | 4          | 46                                                                      |



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9 MADISON AVENUE  
TORONTO, ON  
Northern Birch Credit Union

COMMUNICATION RISER  
DIAGRAM

Project Number: 17488.003  
Drawing Scale: N.T.S.  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN

GENERAL NOTES:

- A. PROVIDE ALL ITEMS SHOWN UNLESS OTHERWISE NOTED.
- B. LOCATIONS OF DEVICES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATION OF EACH DEVICE ON SITE WITH OTHER TRADES.
- C. QUANTITIES OF DEVICES SHOWN ARE FOR DIAGRAMMATIC PURPOSES AND TO INDICATE INTRA SYSTEM CONNECTIVITY AND INTERSYSTEM CONNECTIVITY.
- D. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL ELECTRIFIED LOCKS AND DOOR CONTACTS WITH THE DOOR HARDWARE CONTRACTOR.
- E. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR.
- F. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF VIDEO SURVEILLANCE CAMERAS ON SITE WITH ELECTRICAL CONTRACTOR. PROVIDE ALL MOUNTING BRACKETS TO ENSURE THAT ALL OBSTRUCTIONS ARE AVOIDED AND CLEAR VIEW OF TARGET AREAS IS ATTAINED. FOR EACH PENDANT MOUNTED CAMERA ENSURE THE LENGTH OF EACH PENDANT MOUNT IS CUSTOMIZED TO MAINTAIN BUILDING CODE CLEARANCE REQUIREMENTS WHILE ACHIEVING MAXIMUM HEIGHT AFF.
- G. ALL CABLES SHALL BE HOME RUN IN CONDUITS. CABLE SPLICES SHALL NOT BE ACCEPTABLE. WHERE CABLES ARE GROUPED AND INSTALLED IN A SINGLE CONDUIT THE CONDUIT SHALL BE SIZED TO MAXIMUM 40% FILL.
- H. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS. DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH SECURITY SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
- I. DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAIL UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- J. DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- K. INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- L. ALL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/TIA-569-E THE TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) AND THE ELECTRONIC INDUSTRIES ALLIANCE (EIA) STANDARDS FOR TELECOMMUNICATIONS PATHWAYS AND SPACES. ALL CONDUITS SHALL BE HOME RUN UNLESS OTHERWISE NOTED.
- M. PROVIDE PULL/JUNCTION BOXES ALL THE ROUTE OF ALL CONDUIT RUNS AS PER ANSI/TIA-569-E.
- N. THE BELOW SCHEDULE INDICATES THE MINIMUM TRADE SIZE CONDUIT FOR QUANTITIES OF RESPECTIVE DEVICE CABLES. ELECTRICAL CONTRACTOR SHALL COORDINATE THE MINIMUM TRADE SIZE CONDUIT FOR QUANTITIES OF RESPECTIVE DEVICE CABLES WITH SECURITY CONTRACTOR.

| MINIMUM TRADE SIZE CONDUIT<br>(inches & mm)                                                                                              | 1/2" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4"  |
|------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|--------|--------|----|--------|----|--------|-----|
|                                                                                                                                          | 16   | 21   | 27 | 35     | 41     | 53 | 63     | 78 | 91     | 103 |
| MAXIMUM COMBINED QTY. OF ANY SECURITY DEVICE                                                                                             | 2    | 3    | 5  | 10     | 13     | 22 | 32     | 49 | 66     | 85  |
| MAXIMUM QTY OF SECURED DOORS WITH ANY COMBINED QTY. OF THE FOLLOWING DEVICES:<br>ADO BR CR DA<br>DC ELR EML ES IDC<br>LBM LRX ML MRX PRX | 0    | 0    | 1  | 2      | 3      | 6  | 8      | 13 | 18     | 23  |

DRAWING NOTES:

1. POWER OVER ETHERNET (POE) ACTIVE EQUIPMENT BY OWNER (TYP).
2. RACK MOUNT UNINTERRUPTIBLE POWER SUPPLY (UPS) BY COMMUNICATION CONTRACTOR.
3. 24 PORT CATEGORY 6A PATCH PANEL BY COMMUNICATIONS CONTRACTOR (TYP).
4. 4 PAIR CATEGORY 6A CABLE IN CONDUIT. CABLE BY COMMUNICATIONS CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR (TYP). CONDUIT MUST BE HOME RUN FROM DEVICE TO DEVICE HEADEND, CONTROLLER OR PATCH PANEL.
5. DEVICE CABLING IN 27mm CONDUIT. WIRING BY SECURITY CONTRACTOR CONDUIT BY ELECTRICAL CONTRACTOR (TYP).
6. SECURITY CONTRACTOR TO ALLOW FOR AND COORDINATE WITH OWNER AND GENERAL CONTRACTOR ON SITE AND PROVIDE APPROPRIATE WIRING TO CONNECT HEAT ALARM/SENSOR, VIBRATION/SHOCK SENSOR AND CONTACT ALARM OF ATM AND SAFE TO TIE INTO INTRUSION ALARM SYSTEM.
7. TYPICAL INTRUSION DETECTION DEVICES. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP). COORDINATE ALL INTRUSIONS ZONES WITH OWNER PRIOR TO SETTING UP AND PROGRAMMING SYSTEM. THERE SHALL BE A MINIMUM OF 3 ZONES: ATM, CASH ROOM, ENTIRE FACILITY.
8. INTRUSION DETECTION PANEL/CONTROLLERS. QUANTITY OF INTRUSION DETECTION CONTROL PANELS INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. PROVIDE INTRUSION DETECTION PANELS AS REQUIRED TO FACILITATE COMPLETE OPERATION OF ALL DEVICES.
9. PROVIDE CONNECTION IN 21MM CONDUIT AND INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
10. INTERCOM/MASTER INTERCOM DEVICE. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
11. SILENT DURESS ALARM/PANIC. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES (TYP).
12. ACCESS CONTROL PANEL/CONTROLLERS. QUANTITY OF ACCESS CONTROL PANELS INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. PROVIDE ACCESS CONTROL PANELS AS REQUIRED TO FACILITATE COMPLETE OPERATION OF ALL DEVICES.
13. TYPICAL CONTROLLER AND ELECTRIFIED LOCK POWER SUPPLIES (TYP).
14. 120V 15AMP DIRECT CONNECT CIRCUIT TO ELECTRICAL PANEL BY ELECTRICAL CONTRACTOR (TYP).
15. TYPICAL SECURED DOOR. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES AT EACH DOOR. REFER TO DOOR ELEVATION DRAWINGS FOR DEVICE AND CONDUIT REQUIREMENTS AT SECURED DOORS. COORDINATE DOOR DEVICES WITH DOOR HARDWARE SCHEDULE AND DOOR HARDWARE CONTRACTOR (TYP).
16. MAGLOCK POWER SUPPLY (TYP)
17. WIRING IN CONDUIT TO FIRE ALARM SYSTEM AND MAGLOCK KEY RESET SWITCH (TYP).
18. TYPICAL SECURED DOOR WITH MAGLOCK. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES AT EACH DOOR. REFER TO DOOR ELEVATION DRAWINGS FOR DEVICE AND CONDUIT REQUIREMENTS AT SECURED DOORS.(TYP).
19. TYPICAL WIRING IN CONDUIT TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
20. TYPICAL FIRE ALARM PULL STATION BY ELECTRICAL CONTRACTOR.
21. TYPICAL VIDEO SURVEILLANCE CAMERA. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
22. SECURITY SYSTEMS CENTRAL MANAGEMENT COMPUTER COMPLETE WITH SECURITY SYSTEMS CLIENT SOFTWARE. PROVIDE AND CONFIGURE ALL SECURITY SYSTEMS CLIENT SOFTWARE TO FACILITATE MONITORING AND MANAGEMENT OF ALL SECURITY SYSTEMS DEVICES AND FUNCTIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.



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General Notes  
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Notes

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| 4 | ISSUED FOR PERMIT TENDER | 2026.01.29 |
| 3 | ISSUED FOR PROGRESS SET  | 2026.01.16 |
| 2 | ISSUED FOR COORDINATION  | 2025.12.12 |
| 1 | ISSUED FOR CLIENT REVIEW | 2025.11.21 |

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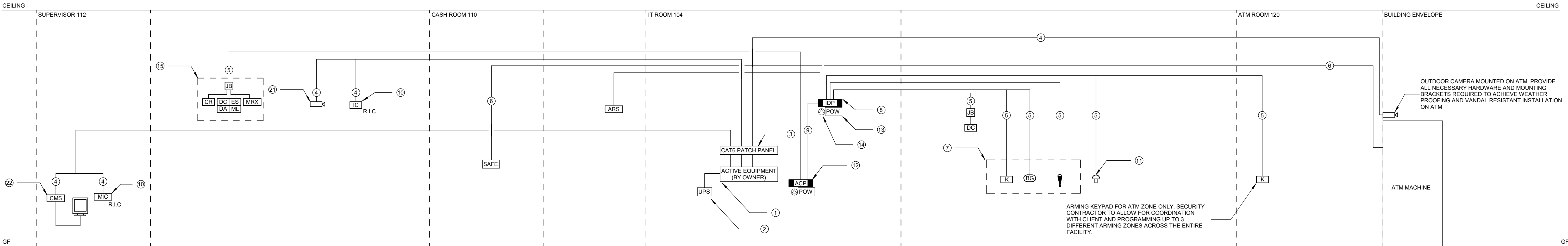


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9 MADISON AVENUE  
TORONTO, ON  
Northern Birch Credit Union

SECURITY RISER DIAGRAM

Project Number: 17488.003  
Drawing Scale: N.T.S.  
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LANDSCAPE  
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9 MADISON AVENUE  
TORONTO, ON  
**Northern Birch Credit Union**

**GROUND FLOOR PLAN - POWER  
& SYSTEMS & COMMS**

Project Number: 17488.003  
Drawing Scale: 1 : 100  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN



**COMMUNICATION GENERAL NOTES:**

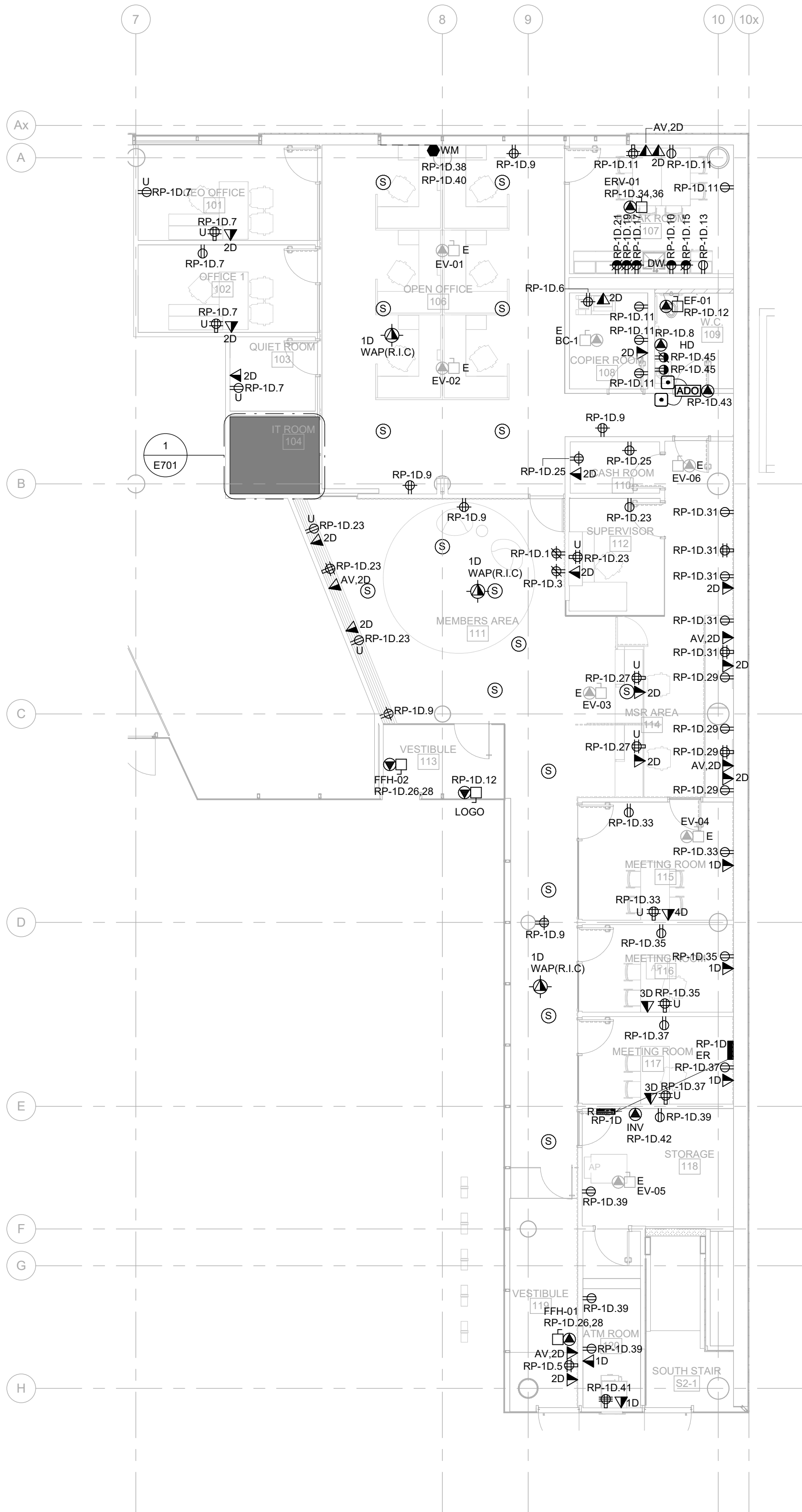
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, HEIGHTS, PARTITION TYPES, CEILING TYPES, CONSTRUCTION DETAILING, MOUNTING DETAILS, FINISHES, AND COLOURS.
- WHILE EVERY ATTEMPT HAS BEEN MADE TO ENSURE ALL INFORMATION IS CORRECT AT THE TIME OF PUBLICATION, THE PRODUCTS SPECIFIED ARE AVAILABLE AND THAT THE PART NUMBER IDENTIFIED ARE CORRECT, IT IS THE RESPONSIBILITY OF THE COMMUNICATIONS CONTRACTOR TO VERIFY ALL PART NUMBERS AND TO REPORT ANY ERRORS AND/OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS WITH THEIR BID SUBMISSION.
- ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.
- REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, SECURITY AND AV DRAWINGS AND SPECIFICATIONS. DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH COMMUNICATIONS SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
- DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAIL UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- INFORM THE ENGINEER'S REPRESENTATIVE AND GENERAL CONTRACTOR OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

**ELECTRICAL GENERAL NOTES:**

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS, BX CABLEING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
- REUSE CIRCUITS OBTAINED THROUGH DEMOLITION IS ACCEPTABLE.
- VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
- REFER TO ARCHITECT DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
- MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
- PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND SYSTEM FURNITURE FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
- TRACE ALL EXISTING OUTLETS, NOTED AS EXISTING, AND IDENTIFY ON AS BUILT DRAWING AS PER SPECIFICATION.
- ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF SYSTEMS FURNITURE CONNECTIONS.
- PROVIDE CONDUIT, WIRE AND FIRE ALARM CONNECTIONS FROM NEW A/C UNIT TO BASE BUILDING FIRE ALARM PANEL. IN THE EVENT OF FIRE/ALARM THE A/C UNIT SHALL SHUT DOWN. CARRY BASE BUILDING FIRE ALARM CONTRACTOR FOR TIE-INS TO BASE BUILDING FIRE ALARM SYSTEM. ALLOW FOR TESTING, VERIFICATION AND PROGRAMMING.
- PROVIDE FIRE ALARM TIE-IN TO NEW MAGLOCKS SUCH THAT MAGLOCKS RELEASE UPON ACTIVATION OF ANY FIRE ALARM SIGNAL. MAGLOCKS TO ALSO RELEASE UPON ACTIVATION OF LOCAL MANUAL PULL STATION THROUGH HARD WIRED CONNECTION DIRECTLY FROM PULL STATION. CONTRACTOR TO ALSO PROVIDE TIE-IN OF NEW MAGLOCKS TO EXISTING RELEASE/RESET KEYSWITCH LOCATED IN THE GROUND FLOOR ELECTRICAL ROOM BESIDE THE FIRE ALARM PANEL. COORDINATE ALL ACCESSORIES AND TIE-INS TO MAGLOCK POWER SUPPLIES WITH SECURITY CONTRACTOR.
- CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.
- CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL AV EQUIPMENT WITH AV DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.
- ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.

**ITEMIZED PRICING:**

- (N-1) PROVIDE ITEMIZED PRICE TO REPLACE EXISTING 42CCT PANEL RP-1D WITH 60CCT PANEL.





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t 416 487 8151 smithandandersen.com

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Notes

GENERAL NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- ALL NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
- REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (i.e. NOT LOCATED ON SAME FLOOR), THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2-HOUR FIRE RATED (i.e. M CABLE) TO FIRST EMERGENCY LIGHT FED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK-ON BREAKERS TO SUIT.
- PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS. FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC/6-24VDC VOLTAGE INPUT UNLESS OTHERWISE NOTED. TO MATCH EXISTING BASE BUILDING STANDARD UNLESS OTHERWISE NOTED. CONNECT NEW EXIT SIGNS TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.
- LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
- ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.
- LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER NORMAL CONDITIONS THEY WORK IN CONJUNCTION WITH THE SWITCHING AS IDENTIFIED. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS. REFER TO DETAIL X/TE-X/X FOR REQUIREMENTS.
- COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK COMMENCING.
- ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 6'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

LIGHTING CONTROL SEQUENCE OF OPERATION:

- MEETING ROOMS/QUIET ROOM/OFFICES:
  - AUTO ON TO 50% UPON OCCUPANCY. MANUAL DIMMING CONTROL. AUTO OFF AFTER 15 MIN OF VACANCY.
- OPEN OFFICE:
  - SD
- STORAGE/CASH ROOM/WASHROOM/COPER ROOM/BREAK ROOM/IT ROOM/ATM ROOM:
  - AUTO ON TO 100% UPON OCCUPANCY. AUTO OFF AFTER 15 MIN OF VACANCY.

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9 MADISON AVENUE  
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GROUND FLOOR PLAN -  
LIGHTING

Project Number: 17488.003  
Drawing Scale: 1 : 100  
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File Name:  
Drawn By: DD  
Reviewed By: GZ/EN



E402

**ELECTRICAL GENERAL NOTES:**

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE BUILDING FIRE ALARM CONTRACTOR. AND VENDOR/MANUFACTURER. BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (MATERIAL, SOFTWARE, INCLUDING ANY LABOUR TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL ASSOCIATED COSTS. NEW FIRE ALARM SPEAKER/STROBES ARE TO MATCH EXISTING AND BE CONNECTED TO NEAREST AVAILABLE SPARE EMERGENCY ZONE CIRCUITS), CONNECT NEW SPEAKER/STROBES TO EXISTING CIRCUITS, WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO: ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CANULC-S537 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CANULC-S524 LATEST EDITION. PROVIDE FIRE ALARM MUSIC RELAY SHUT DOWN AS SUCH THE MUSIC SYSTEM SHUTS DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM. COORDINATE WITH MUSIC VENDOR AND GENERAL CONTRACTOR TO ENSURE MUSIC SYSTEM IS INSTALLED AND FULLY FUNCTIONAL AT THE TIME OF FIRE ALARM VERIFICATION.

**DRAWING NOTES:**

- (N-1) CANDELA RATING OF STROBES ARE TO BE 75 CD UNLESS OTHERWISE NOTED.
- (N-2) SECURITY CONTRACTOR TO ALLOW FOR AND PROVIDE MANUFACTURER RECOMMENDED WIRING TO CONNECT ALL ATM/SAFE BUILT IN ALARMS TO INTRUSION ALARM SYSTEM. CONDUIT BY ELECTRICAL CONTRACTOR. REFER TO SECURITY RISER FOR MORE INFORMATION.
- (N-3) SECURITY CONTRACTOR TO SETUP PRIVACY MASKING/SCREEN BLUR FOR WALL MOUNTED CAMERAS BEHIND MSR DESKS TO ENSURE CLIENT/SENSITIVE INFORMATION ON MONITORS IS KEPT PRIVATE ON ALL LIVE FEEDS AND RECORDINGS. SECURITY CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL COORDINATE ON SITE PRIOR TO ROUGHING IN AND INSTALLING CAMERA TO ENSURE CLEAR VIEW OF MSR DESK AND CLIENTS AT DESK AND AVOIDING INTERFERENCE WITH WALL MOUNTED DISPLAYS AND FURNITURE.
- (N-4) SECURITY CONTRACTOR TO PROVIDE ASSISTANCE REQUIRED SIGN TIED TO SILENT/PANIC BUTTONS UNDER DESKS. SIGN SHOULD BE ILLUMINATED WHEN ANY UNDER DESK PANIC BUTTON IS PRESSED. COORDINATE EXACT MOUNTING ON SITE WITH GENERAL CONTRACTOR PRIOR TO MOUNTING. ELECTRICAL CONTRACTOR TO PROVIDE NECESSARY POWER CONNECTION.

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5. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR.
6. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF VIDEO SURVEILLANCE CAMERAS ON SITE WITH ELECTRICAL CONTRACTOR. PROVIDE ALL MOUNTING BRACKETS TO ENSURE THAT ALL OBSTRUCTIONS ARE AVOIDED AND CLEAR VIEW OF TARGET AREAS IS ATTAINED. FOR EACH PENDANT MOUNTED CAMERA ENSURE THE LENGTH OF EACH PENDANT MOUNT IS CUSTOMIZED TO MAINTAIN BUILDING CODE CLEARANCE REQUIREMENTS WHILE ACHIEVING MAXIMUM HEIGHT AFF.
7. ALL CABLES SHALL BE HOME RUN IN CONDUITS. CABLE SPLICES SHALL NOT BE ACCEPTABLE. WHERE CABLES ARE GROUPED AND INSTALLED IN A SINGLE CONDUIT THE CONDUIT SHALL BE SIZED TO MAXIMUM 40% FILL.
8. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH SECURITY SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
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10. DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
11. INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.
12. ELECTRIFIED LOCKS SHOWN ON SECURITY FLOORPLANS ARE DIAGRAMMATIC. FOR EXACT TYPE, TYPE AND LOCATION OF ELECTRIFIED LOCK REFER TO HARDWARE SCHEDULE.

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9 MADISON AVENUE  
TORONTO, ON  
**Northern Birch Credit Union**

**GROUND FLOOR PLAN - FIRE  
ALARM & SECURITY**

Project Number: 17488.003  
Drawing Scale: 1 : 100  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN





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General Notes

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Notes

GENERAL NOTES:

1. REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
2. REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT SITE TO DETERMINE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
3. MAKE GOOD ALL CORE HOLES FROM ELECTRICAL EQUIPMENT AND DEVICES DISCONNECTED, RELOCATED AND OR REMOVED IN THIS PROJECT.
4. ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE, REMAIN LIVE OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
5. EXISTING CONDITIONS SHOWN ARE BASED ON DRAWINGS AND INFORMATION PROVIDED BY LANDLORD. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN HERE SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING.
6. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
7. COORDINATE WITH GENERAL CONTRACTOR AND LANDLORD FOR DISPOSAL OF ALL MATERIALS FROM SITE.
8. ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY EMERGENCY LIGHTING FOR ENTIRE SPACE TO ACCOMMODATE DEMOLITION WORK AND FUTURE BUILD-OUT. ENSURE FIXTURES ARE CHIN HUNG AND SUPPORTED FROM THE CEILING SLAB/STRUCTURE ABOVE.
9. EXISTING EXIT SIGNS SHALL BE MAINTAINED THROUGHOUT DEMOLITION CONSTRUCTION. PROVIDE TEMPORARY SUPPORT FROM THE CEILING SLAB/STRUCTURE ABOVE. NEW EXIT SIGNS SHALL BE PROVIDED AS PART OF NEW CONSTRUCTION PHASE.
10. AS PART OF THE DEMOLITION CONTRACT, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT THE SITE TO DETERMINE THE EXACT REQUIREMENTS AND REFER TO THE DEMOLITION DRAWINGS.
11. REFER TO THE INTERIOR ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.

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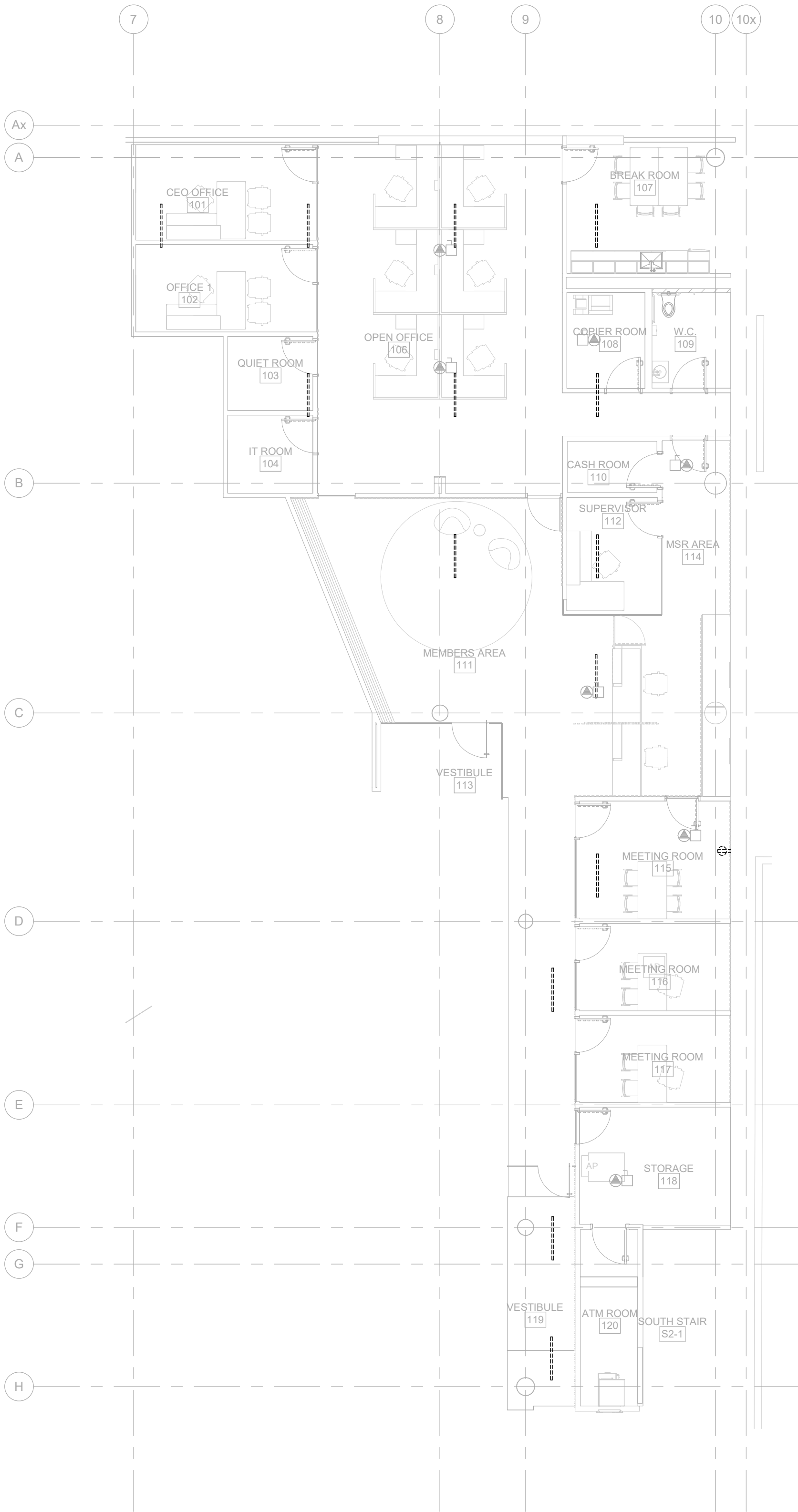
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GROUND FLOOR PLAN -  
ELECTRICAL DEMOLITION

Project Number: 17488.003  
Drawing Scale: 1 : 100  
Date: 21/11/25  
File Name:  
Drawn By: DD  
Reviewed By: GZ/EN



E602





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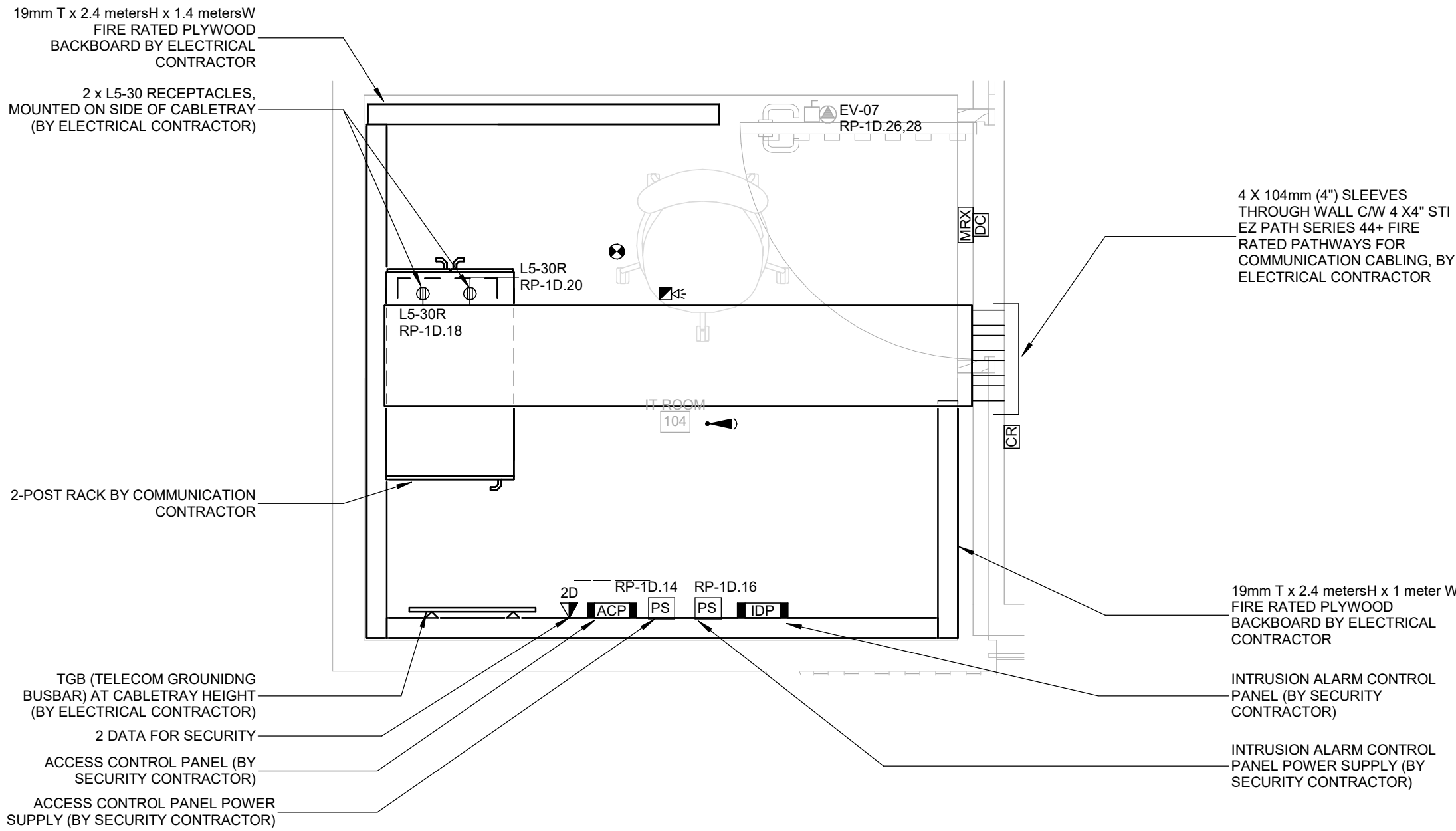
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1 IT ROOM 104 ENLARGED LAYOUT  
E701 1 : 20

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Northern Birch Credit Union

ENLARGED PLAN - IT ROOM 104

Project Number: 17488.003  
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Date: 21/11/25  
File Name:  
Drawn By: MS  
Reviewed By: MS



E701

# Northern Birch Credit Union

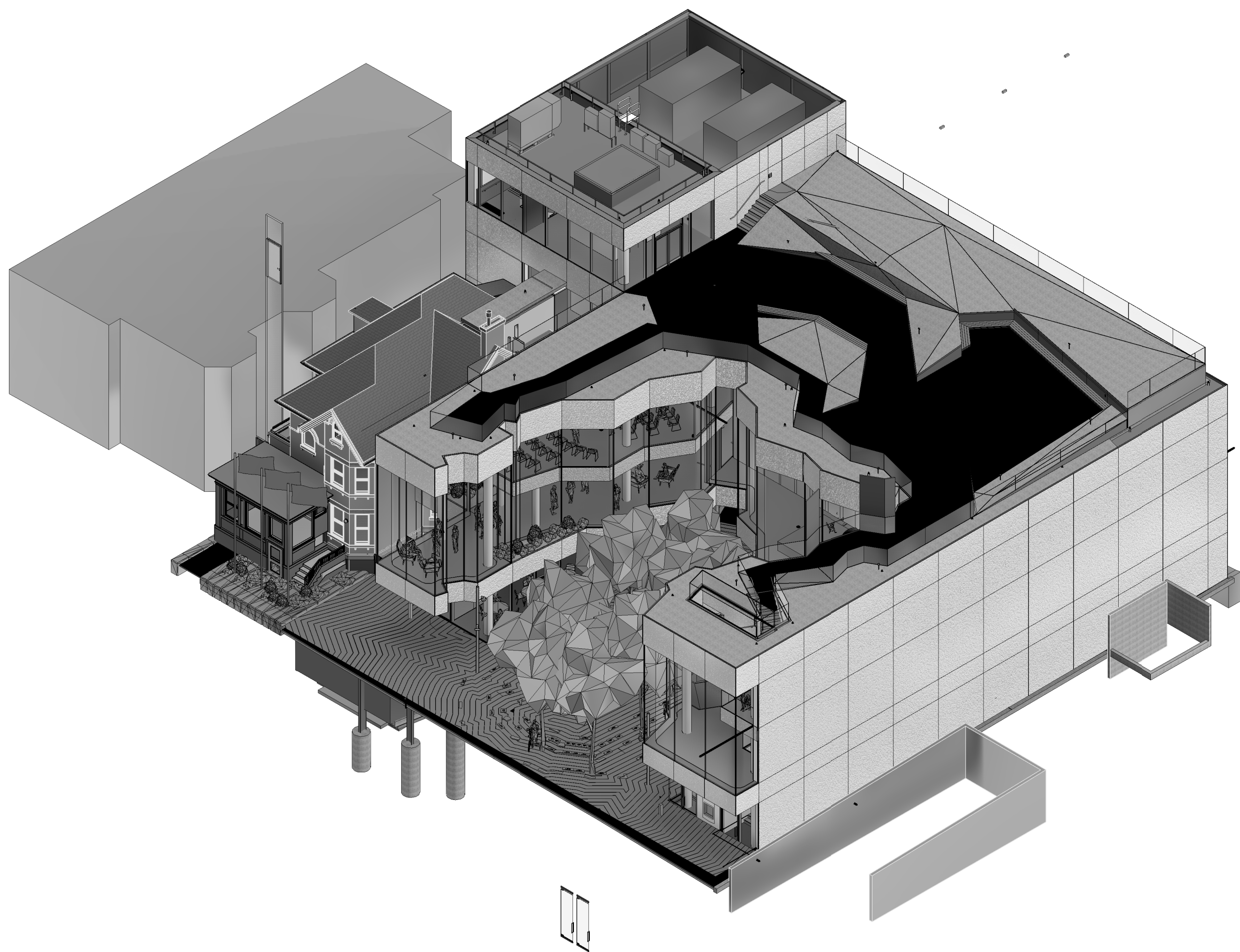
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## AUDIO VISUAL DRAWING LIST

| SHEET No. | SHEET NAME                        | SCALE |
|-----------|-----------------------------------|-------|
| AV000     | AV COVER & DRAWING LIST           | N.T.S |
| AV001     | AV LEGENDS AND NOTES              | N.T.S |
| AV002     | AV COORDINATION MATRIX            | N.T.S |
| AV101A    | GROUND FLOOR AV DEVICE FLOOR PLAN | 1:100 |
| AV101B    | GROUND FLOOR AV DEVICE RCP        | 1:100 |
| AV200     | AV ELEVATIONS                     | N.T.S |
| AV300     | AV CONDUIT NOTES                  | N.T.S |
| AV301     | AV RISER DIAGRAMS                 | N.T.S |
| AV400     | AV DETAILS                        | N.T.S |

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## AV COVER & DRAWING LIST

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Drawing Scale: XXXX/2X  
Date: XXXX/2X  
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Reviewed By: DJ



AV000

| SCOPE ITEM                                                                                                                                                                       | AUDIOVISUAL CONTRACTOR (A.V.C.)                                                              | ELECTRICAL CONTRACTOR (E.C.)                                                                                             | GENERAL CONTRACTOR (G.C.)                             | COMMUNICATIONS CONTRACTOR (C.C.)                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|
| AV SYSTEM CONDUIT, BACKBOXES AND CABLE TRAYS                                                                                                                                     | -                                                                                            | PROVIDE PULL-READY SYSTEM INCLUDING ALL CONDUIT, BACKBOXES AND CABLE TRAYS. ALL CONDUITS TO BE COMPLETE WITH PULLSTRING. | -                                                     | -                                                               |
| AV WALLBOX CONNECTOR PLATES, CUSTOM OR STANDARD                                                                                                                                  | PROVIDE, FINISH PER ARCHITECT'S INSTRUCTIONS                                                 | -                                                                                                                        | -                                                     | -                                                               |
| FIRE ALARM CONNECTION                                                                                                                                                            | PROVIDE MUTE FUNCTIONALITY ON ALL SOUND SYSTEMS. TO BE TRIGGERED ON ACTIVATION OF FIRE ALARM | PROVIDE FACP DRY CONTACT RELAY CONNECTION TO AV CONTRACTOR                                                               | -                                                     | -                                                               |
| AV SYSTEMS CABLE (LOW VOLTAGE, INCLUDING NETWORK CABLING FOR AV SYSTEMS)                                                                                                         | PROVIDE                                                                                      | -                                                                                                                        | -                                                     | PROVIDE NETWORK CABLE                                           |
| DUPLEX AC OUTLETS FOR DISPLAYS, PROJECTORS, AV EQUIPMENT, FLOORBOXES, ETC.                                                                                                       | -                                                                                            | PROVIDE                                                                                                                  | -                                                     | -                                                               |
| AV CONTROL SYSTEM PAGE DESIGN AND TESTING                                                                                                                                        | PROVIDE: WRITE ALL PROGRAMMING CODE; DESIGN AND IMPLEMENT                                    | -                                                                                                                        | -                                                     | -                                                               |
| LAN DROPS FOR OWNER SUPPLIED NETWORK                                                                                                                                             | SPECIFY LOCATIONS AND COORDINATE WITH C.C.                                                   | -                                                                                                                        | -                                                     | PROVIDE REFER TO COORDINATE MATRIX FOR LOCATIONS AND QUANTITIES |
| PATCH CABLING TO CLIENT NETWORK FOR AV DEVICES                                                                                                                                   | INSTALL                                                                                      | -                                                                                                                        | -                                                     | SUPPLY                                                          |
| LOW VOLTAGE RELAY CONTROLLERS (LVC) FOR MOTORIZED PROJECTION SCREENS AND LIFTS                                                                                                   | SUPPLY LVC TO E.C., PROVIDE LOW VOLTAGE CONTROL CABLE                                        | PROVIDE HIGH VOLTAGE CABLE, TERMINATIONS AND LABOR AS REQUIRED                                                           | PROVIDE ACCESS HATCH AS REQUIRED FOR BACKBOX ACCESS   | -                                                               |
| DISPLAY AND PROJECTOR MOUNTING                                                                                                                                                   | SUPPLY AND INSTALL STANDARD OR CUSTOM BRACKETS AS REQUIRED                                   | -                                                                                                                        | PROVIDE BLOCKING AND MISCELLANEOUS METALS AS REQUIRED | -                                                               |
| CEILING MOUNTED LOUDSPEAKER BACKBOXES INTO DRYWALL CEILING                                                                                                                       | PROVIDE                                                                                      | PROVIDE CONDUIT TO SPEAKER BACKBOXES. COORDINATE WITH AV CONTRACTOR ON SITE                                              | PROVIDE CEILING SPEAKER CUTOUTS                       | -                                                               |
| CEILING MOUNTED LOUDSPEAKERS INTO TILE CEILINGS                                                                                                                                  | PROVIDE                                                                                      | -                                                                                                                        | PROVIDE CEILING SPEAKER CUTOUTS                       | -                                                               |
| AV SYSTEM ELECTRONICS, HARDWARE, RACKS PERMANENT AND PORTABLE                                                                                                                    | PROVIDE; REUSE OWNER SUPPLIED EQUIPMENT AS NOTED                                             | -                                                                                                                        | -                                                     | -                                                               |
|                                                                                                                                                                                  |                                                                                              |                                                                                                                          |                                                       |                                                                 |
| THE SCOPE OF WORK OF THE TRADES AS IT RELATES TO AUDIO VISUAL SYSTEM IS DESCRIBED IN THE TABLE ABOVE. THE TERM "PROVIDE" MEANS "SUPPLY, INSTALL, TERMINATE, TEST AND COMMISSION" |                                                                                              |                                                                                                                          |                                                       |                                                                 |

2

DIVISION OF RESPONSIBILITY

AV001/ N.T.S.

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS AND SPECIFICATION, ANY DISCREPANCIES OR CONFLICT BETWEEN CONSULTANT'S DRAWINGS FOR AV SCOPE, SHALL BE REPORTED TO S+A IMMEDIATELY FOR CLARIFICATION.
2. ALL EQUIPMENT AND CABLING HAVE BEEN SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR IS TO PROVIDE SHOP DRAWINGS FOR ALL HARDWARE, FIXTURES AND EQUIPMENT. FOR CONSULTANT'S APPROVAL PRIOR TO PURCHASE.
3. ALL DEVICE LOCATIONS ARE SCHEMATIC ONLY. EXACT LOCATIONS SHOULD BE LOCATED USING ARCHITECTURAL OR INTERIOR DESIGN DRAWINGS. IF LOCATION IS UN-CLEAR A REQUEST FOR INFORMATION SHOULD BE ISSUED.
4. CONTRACTOR TO ENSURE ALL WORK INSTALLATIONS ARE IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
5. CONTRACTOR MUST REVIEW SITE AND ENSURE ALL AV WORK WITHIN EXTENT IS INCLUDED IN THE AV CONTRACT.
6. CARE AND ATTENTION SHALL BE MADE TO ALL DRAWING NOTES AND ITEMS INCLUDED WITHIN SPECIFICATION FOR INCLUSION IN SCOPE OF WORK. QUESTIONS OR CONCERNS SHALL BE REPORTED TO CONSULTANT BY THE BIDDER PRIOR TO AWARD FOR TENDER. OTHERWISE, SUCCESSFUL BIDDER ASSUMES ALL RESPONSIBILITY FOR INCLUDING ALL EQUIPMENT AND PROVISIONS AS STATED WITHIN THE DRAWING AND SPECIFICATION PACKAGE IN SCOPE OF WORK.
7. ALL EQUIPMENT INSTALLATIONS SHALL ADHERE TO EXACT MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS. ANY INSTALLATIONS NOT MEETING CORRECT INSTALLATION METHODS AS OUTLINED BY THE MANUFACTURER SHALL BE RECTIFIED TO OPERATE AS INTENDED AT THE EXPENSE OF THE CONTRACTOR.
8. CONTRACTOR TO COORDINATE ON SITE WITH OTHER TRADES FOR EXACT LOCATION AND MOUNTING HEIGHTS OF REQUIRED BACKBOXES AND RECEPTACLES FOR DISPLAYS, PROJECTORS, SPEAKERS AND OTHER AV EQUIPMENT. ALL RECEPTACLES SHALL BE CONCEALED BEHIND EQUIPMENT.
9. ALL EQUIPMENT MUST BE SECURELY FASTENED AND INSTALLED TO SUPPORT WEIGHT, USER FUNCTION AND OPERATION. SCREENS SHALL BE ANCHORED TO STUDS AND SUPPORTED BY THREADED RODS AND CHAIN LINKS. PROJECTOR POLE MOUNTS AND DISPLAYS SHALL ALSO BE ANCHORED TO STUDS, AS REQUIRED TO SUPPORT EQUIPMENT FUNCTION. CONTRACTOR TO WARRANTY INSTALLATION FROM ANY IMPROPER INSTALLATION WITH NO EXPENSE TO THE USER.
10. AV CONTRACTOR SHALL INCLUDE FOR ALL MISCELLANEOUS CONNECTORS, SIGNAL CONVERTERS, SIGNAL REPEATERS, EXPANSION MODULES, POLE EXTENSIONS, SHELVING, MOUNTING HARDWARE ETC. THAT IS NOT STATED BUT IS REQUIRED TO COMPLETE THE SCOPE OF WORK AND PROVIDE THE SYSTEM FUNCTIONALITY AS WAS INTENDED WITH NO DEGRADATION IN QUANTITY AND PERFORMANCE. ANY CONCERNS WITH RESPECT TO EQUIPMENT NOT INCLUDED WITHIN THE SCOPE OF WORK SHALL BE REPORTED TO THE CONSULTANT PRIOR TO TENDER CLOSE FOR INCLUSION. FAILURE TO DO SO WILL BE AT THE EXPENSE OF THE BIDDER/SUCCESSFUL CONTRACTOR DURING CONSTRUCTION AND EXTRAS WILL NOT BE TOLERATED.
11. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND SECURITY DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH AUDIOVISUAL SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
12. DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAILS UNLESS INDICATED SPECIFICALLY ON AN ELEVATION DRAWING.
13. DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
14. INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

3

GENERAL NOTES - AUDIOVISUAL BIDDER INFORMATION

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| SYMBOL                                                                                                                                                                                            | DESCRIPTION                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                   | AUDIO VISUAL SYSTEM                                                                                                                                                                                                                                                                |
| RACK-##<br>                                                                                                                                                                                       | AV EQUIPMENT RACK<br><br>RACK 'ID' DESIGNATION:<br>'AV' = FREE STANDING EQUIPMENT RACK.<br>'CR' = CREDENZA RACK.<br>'RC' = RACK ON CASTERS.                                                                                                                                        |
| TAG-##<br>                                                                                                                                                                                        | WALL MOUNT FLAT PANEL DISPLAY.<br><br>DISPLAY 'TAG' DESIGNATION:<br>'WD' = FLAT PANEL DISPLAY.<br>'ID' = INTERACTIVE DISPLAY.<br>'DS' = DIGITAL SIGNAGE DISPLAY.<br>'MW' = MEDIA WALL DISPLAY(S).<br>SEE DRAWING FOR QUANTITIES.<br><br>NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES) |
| TAG-##<br>                                                                                                                                                                                        | CEILING MOUNT FLAT PANEL DISPLAY.<br><br>DISPLAY 'TAG' DESIGNATION:<br>'PDS' = POLE MOUNT FLAT PANEL DISPLAY.<br>'PDD' = POLE MOUNTED DUAL FLAT PANEL DISPLAY.<br><br>NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)                                                                   |
| TAG-##<br>                                                                                                                                                                                        | WALL MOUNT AV INTERFACE.<br><br>'TAG' DESIGNATION:<br>'RSD' = ROOM SCHEDULING DISPLAY.<br>'MRD' = MEETING ROOM DISPLAY.<br>'CTL' = TOUCH CONTROL PANEL.<br><br>NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)                                                                          |
| TAG-##<br>                                                                                                                                                                                        | BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR.<br><br>'TAG' DESIGNATION:<br>'BP' = BUTTON PANEL.<br>'VC' = VOLUME CONTROL.<br>'SC' = SCREEN CONTROL. (FOR PROJECTION SCREENS).                                                                                                    |
| FB-##<br>                                                                                                                                                                                         | FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY.                                                                                                                                                                                                                                     |
| CAM-##<br>                                                                                                                                                                                        | WALL MOUNT AV CAMERA.                                                                                                                                                                                                                                                              |
| CAM-##<br>                                                                                                                                                                                        | CEILING MOUNT AV CAMERA.                                                                                                                                                                                                                                                           |
| PROJ-##<br>                                                                                                                                                                                       | PROJECTOR.                                                                                                                                                                                                                                                                         |
| LIFT-##<br>                                                                                                                                                                                       | PROJECTOR ON LIFT.                                                                                                                                                                                                                                                                 |
| SCR-##<br>                                                                                                                                                                                        | PROJECTION SCREEN.<br><br>NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)                                                                                                                                                                                                               |
| TAG-##<br>                                                                                                                                                                                        | CEILING RECESSED SPEAKER.<br><br>'TAG' DESIGNATION:<br>'S' = AV SPEAKER.<br>'PGS' = PAGING SPEAKER.                                                                                                                                                                                |
| TAG-##<br>                                                                                                                                                                                        | SURFACE MOUNT SPEAKER.<br><br>'TAG' DESIGNATION:<br>'S' = AV SPEAKER.<br>'PGS' = PAGING SPEAKER.                                                                                                                                                                                   |
| TAG-##<br>                                                                                                                                                                                        | WALL MOUNT ANTENNA.<br><br>'TAG' DESIGNATION:<br>'ANT' = MICROPHONE ANTENNA.<br>'ALS' = ASSISTIVE LISTENING ANTENNA.                                                                                                                                                               |
| TAG-##<br>                                                                                                                                                                                        | CEILING MOUNT ANTENNA.<br><br>'TAG' DESIGNATION:<br>'ANT' = MICROPHONE ANTENNA.<br>'ALS' = ASSISTIVE LISTENING ANTENNA.                                                                                                                                                            |
| MIC-##<br>                                                                                                                                                                                        | CEILING MICROPHONE.                                                                                                                                                                                                                                                                |
| OC-##<br>                                                                                                                                                                                         | OCCUPANCY SENSORS.                                                                                                                                                                                                                                                                 |
| PT-##<br>                                                                                                                                                                                         | PARTITION SENSORS.                                                                                                                                                                                                                                                                 |
| AV-##<br>                                                                                                                                                                                         | AV MUDRING<br>AV INPUT PLATE.<br>( 1 GANG) ( 2 GANG)                                                                                                                                                                                                                               |
| AV-##<br>                                                                                                                                                                                         | ( 1 GANG) ( 2 GANG) ( 3 GANG)                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                   | AV CABLE PULL BOX.<br><br>SIZE DESIGNATION:<br>'6X6' = 6X6X6 AV CABLE PULL BOX.<br>'12X12' = 12X12X6 AV CABLE PULL BOX.                                                                                                                                                            |
| NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS. REFER TO AV COORDINATION MATRIX OR AV CONSULTANT DRAWINGS FOR BACKBOX SIZE, MOUNTING HEIGHT, AND ALL INFRASTRUCTURE REQUIREMENTS. |                                                                                                                                                                                                                                                                                    |

1

AUDIO - VISUAL LEGEND

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TORONTO, ON  
Northern Birch Credit Union

AV LEGENDS AND NOTES

|                 |              |
|-----------------|--------------|
| Project Number: | 17488.003    |
| Drawing Scale:  | As indicated |
| Date:           | XXXXXX       |
| File Name:      |              |
| Drawn By:       | SR           |
| Reviewed By:    | DJ           |



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Notes

| AV - EQUIPMENT COORDINATION MATRIX                  |                                                                                     |      |                                  |                          |                                 |             |             |                |             |       |          |                             |                                      |                                      |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|------|----------------------------------|--------------------------|---------------------------------|-------------|-------------|----------------|-------------|-------|----------|-----------------------------|--------------------------------------|--------------------------------------|
| AUDIO VISUAL REQUIREMENTS                           |                                                                                     |      |                                  | ELECTRICAL               |                                 |             |             |                |             |       |          | COMMUNICATION NETWORK DROPS | MECHANICAL HEAT LOAD UNIT HEAT [BTU] | NOTES                                |
| SYMBOL NAME                                         | SYMBOL                                                                              | ID   | MOUNTING HEIGHT (TO CENTRE LINE) | AV BACKBOX/ MUDRING SIZE | BACKBOX/MUDRING MOUNTING HEIGHT | VOLTAGE [V] | CURRENT [A] | UNIT POWER [W] | GROUND TYPE | TYPE  | QUANTITY |                             |                                      |                                      |
| 55" WALL MOUNT DIGITAL SIGNAGE DISPLAY              |  | DS51 | 2185mm AFF                       | -                        | 2390mm AFF                      | 120         | 2           | 240            | NORMAL      | 5-15R | (1) QUAD | (2) NETWORK DROPS           | 820                                  |                                      |
| 55" WALL MOUNT DIGITAL SIGNAGE DISPLAY (FOR FUTURE) |  | DS52 | 2185mm AFF                       | -                        | 2390mm AFF                      | 120         | 2           | 240            | NORMAL      | 5-15R | (1) QUAD | (2) NETWORK DROPS (1) COAX  | 820                                  | INFRASTRUCTURE ONLY. FOR FUTURE USE. |
| 55" WALL MOUNT FLAT PANEL DISPLAY                   |  | WD51 | 1370mm AFF                       | (1)2 GANG AV MUDRING     | 1570mm AFF                      | 120         | 1           | 120            | NORMAL      | 5-15R | (1) QUAD | (2) NETWORK DROPS           | 410                                  |                                      |
| 2 GANG WALL MOUNT AV INPUT PLATE                    |  | AV1  | 1100mm AFF                       | (1)2 GANG AV MUDRING     | 1100mm AFF                      | 120         | 1           | 120            | NORMAL      | 5-15R | (1) QUAD | -                           | 410                                  |                                      |
| 2 GANG WALL MOUNT MUDRING PLATE                     |  | AV2  | 890mm AFF                        | (1)2 GANG AV MUDRING     | 890mm AFF                       | 120         | 1           | 120            | NORMAL      | 5-15R | (1) QUAD | -                           | 410                                  |                                      |
| CEILING RECESSED SPEAKER                            |  | S1   | AT FINISHED CEILING              | -                        | -                               | -           | -           | -              | -           | -     | -        | -                           | -                                    |                                      |
| CEILING SOUND MASKING SPEAKER                       |  | S2   | AT FINISHED CEILING              | -                        | -                               | -           | -           | -              | -           | -     | -        | -                           | -                                    |                                      |

1  
AV002

AV COORDINATION MATRIX

|   |                          |            |
|---|--------------------------|------------|
| 4 | ISSUED FOR REFERENCE     | 2026.01.29 |
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Northern Birch Credit Union

AV COORDINATION MATRIX

Project Number: 17488.003

Drawing Scale: XXXXX/2X

Date: XXXXX/2X

File Name:

Drawn By: SR

Reviewed By: DJ



NORTH ARROW



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DRAWING NOTES:

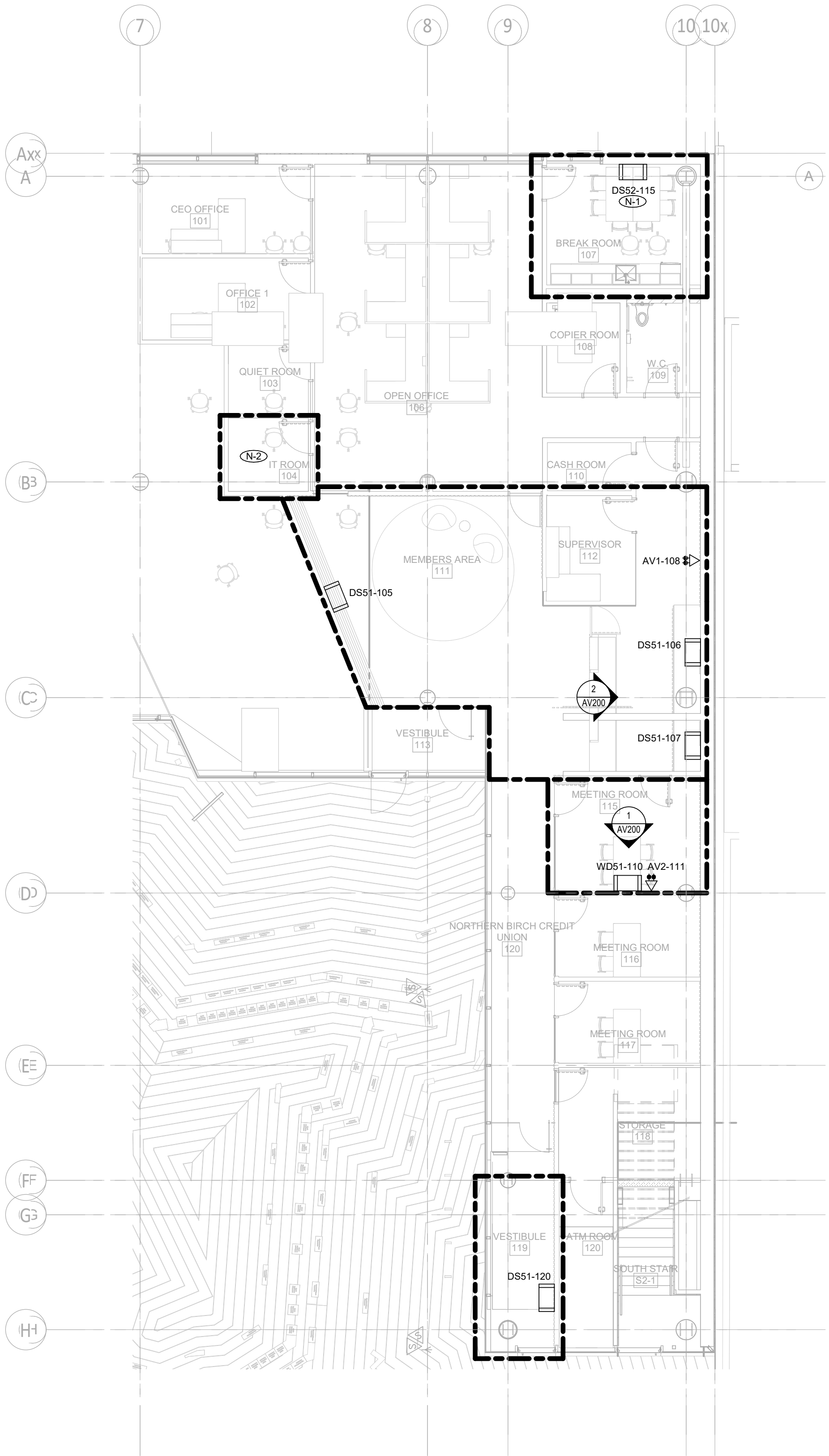
- (N-1) INFRASTRUCTURE ONLY. FOR FUTURE USE.  
(N-2) AV SHARE WITH COMMUNICATIONS/SECURITY RACK.

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Northern Birch Credit Union

GROUND FLOOR AV DEVICE  
FLOOR PLAN

Project Number: 17488.003  
Drawing Scale: 1 : 100  
Date: XXXXX2X  
File Name:  
Drawn By: SR  
Reviewed By: DJ



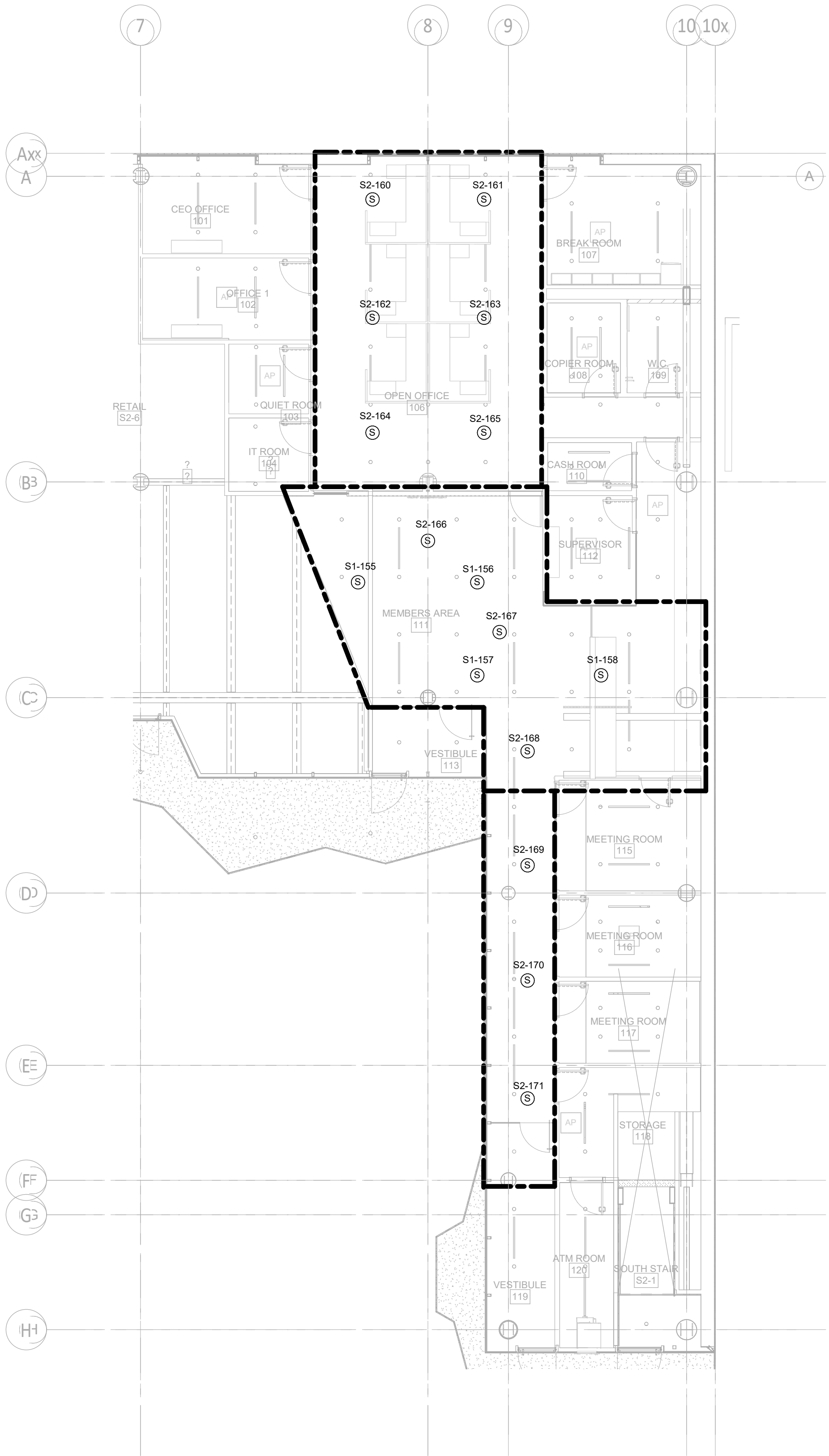
AV101A



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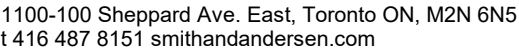
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GROUND FLOOR AV DEVICE RCP

Project Number: 17488.003  
Drawing Scale: 1 : 100  
Date: XXXXX2X  
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AV101B



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## Notes



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1 MEETING ROOM - TYPICAL AV DEVICE ELEVATION

AV200 1:20



**(N-1)** REFER TO DIVISION OF RESPONSIBILITIES TABLE FOR SCOPE & REFER TO COORDINATION MATRIX FOR INFRASTRUCTURE REQUIREMENTS.

2 MSR AREA - TYPICAL AV DEVICE ELEVATION

AV200 1 · 20

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## AV ELEVATIONS

Project Number: 17488.01

Drawing Scale: 1 : 20

Date: XX/XX/2

File Name:

Drawn By: SR

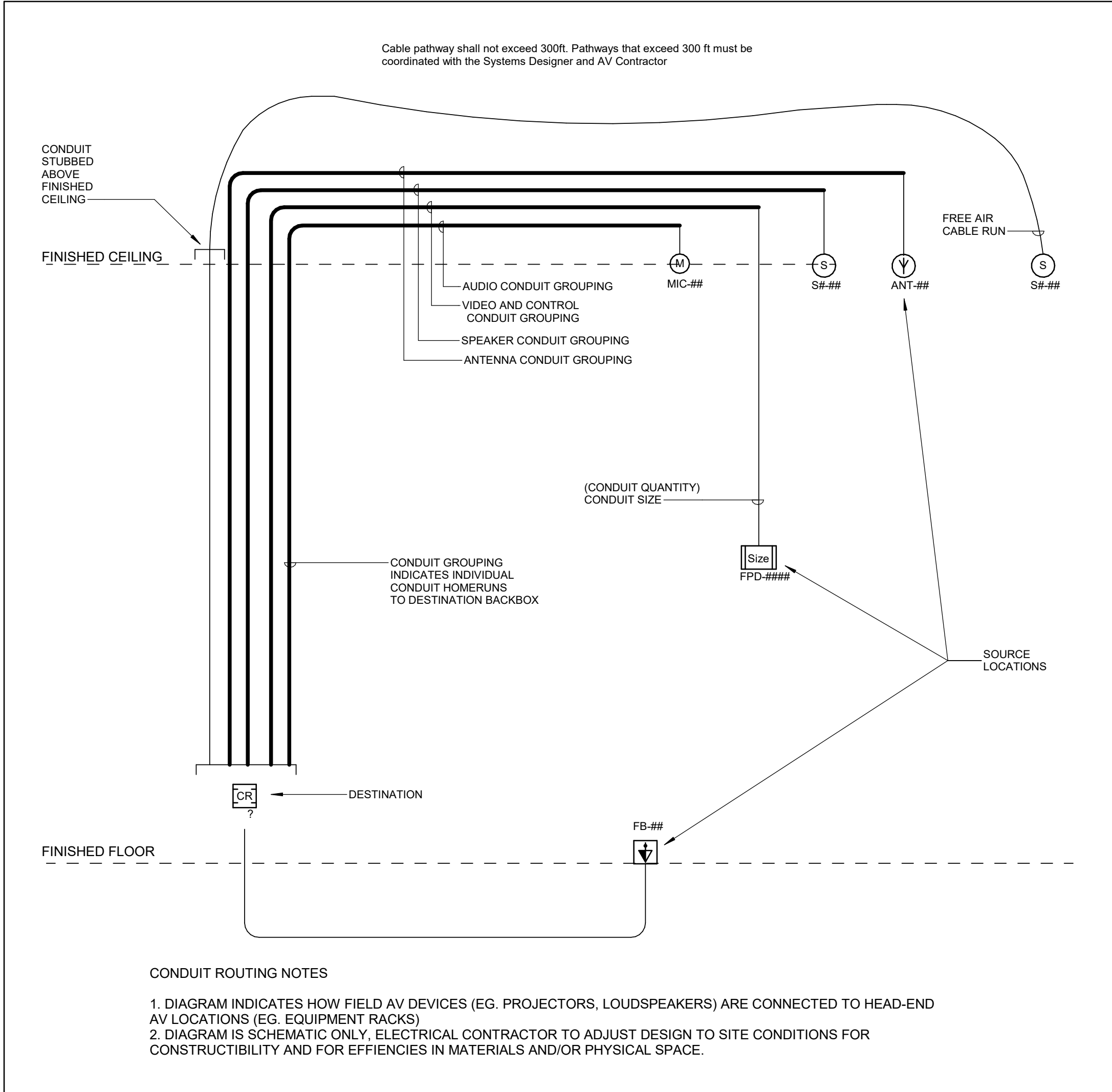
Reviewed By: DJ



# AV200

| CONDUIT SIZES |        |
|---------------|--------|
| IMPERIAL      | METRIC |
| 1/2"          | 16MM   |
| 3/4"          | 21MM   |
| 1"            | 27MM   |
| 1 - 1/4"      | 35MM   |
| 1 - 1/2"      | 41MM   |
| 2"            | 53MM   |
| 2 - 1/2"      | 65MM   |
| 3"            | 78MM   |
| 4"            | 103MM  |

5 CONDUIT SIZES  
AV300/ N.T.S.



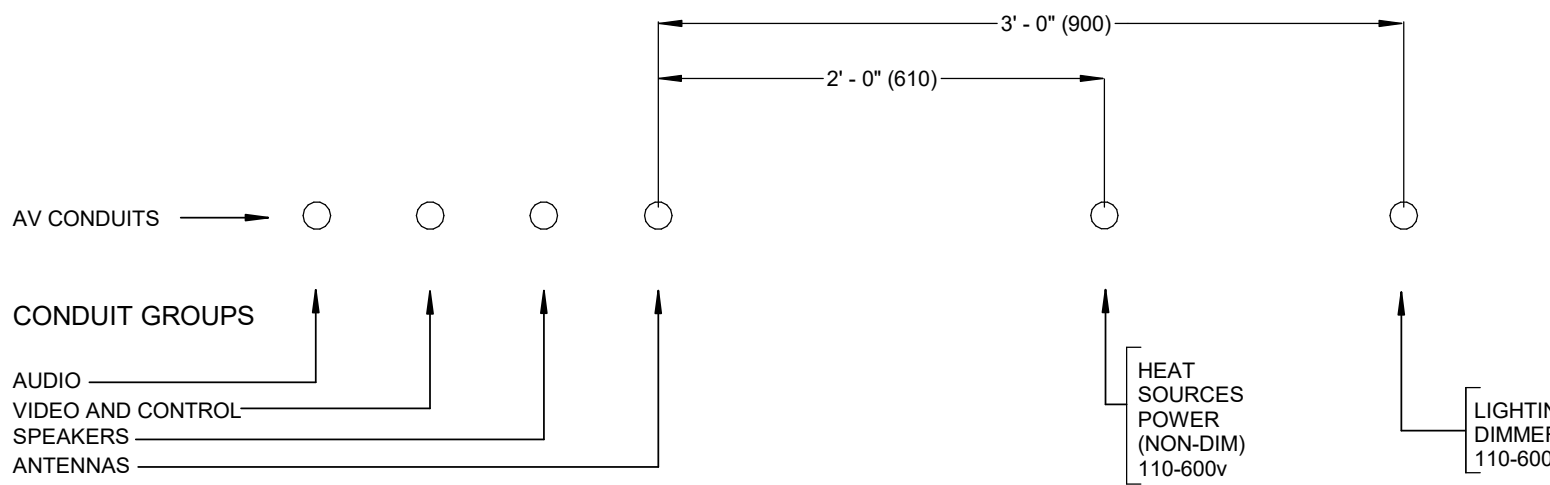
3 AV RISER DIAGRAM LEGEND  
AV300/ N.T.S.

#### AUDIO-VISUAL CONDUIT SEPARATION CRITERIA

1. DO NOT RUN AV CONDUITS PARALLEL TO AC LIGHTING CONDUITS. WHERE RUNS ARE PARALLEL, ADHERE TO THE SEPARATION SHOWN BELOW:

| LENGTH OF RUN PARALLEL TO HIGH VOLTAGE CONDUITS meters (feet) | MIN. SEPARATION OF AV CONDUITS FROM AC CONDUITS mm (inch) | MIN. SEPARATION OF AV CONDUITS FROM DIMMER CONDUITS mm (inch) |
|---------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|
| <= 1.8 (6)                                                    | 150 (6)                                                   | 228 (9)                                                       |
| 1.8 (6) to 9.1 (30)                                           | 300 (12)                                                  | 406 (16)                                                      |
| >= 9.1 (30)                                                   | 600 (24)                                                  | 812 (32)                                                      |

2. WHERE SYSTEM CONDUITS ARE RUN TOGETHER AND PARALLEL THEY SHALL BE IN THE FOLLOWING ORDERED SEQUENCE, STARTING AT THE SIDE FURTHEST FROM AC CONDUITS.



3. WHERE AUDIO-VISUAL CONDUITS CROSS HIGH VOLTAGE CONDUITS, CROSSINGS SHOULD BE AS CLOSE TO 90° AS POSSIBLE.

4. AV CONDUITS CONTAINING MICROPHONE CABLE SHOULD BE RUN AS FAR AS POSSIBLE FROM HIGH VOLTAGE CONDUITS. WHEN MULTIPLE AV CONDUITS ARE PROVIDED, ENSURE CONDUIT DESIGNATED FOR MICROPHONE CABLE IS FURTHEST AWAY FROM HIGH VOLTAGE CONDUIT.

5. NOTIFY AV CONSULTANT IF AV CONDUITS ARE TO BE RUN AT A DISTANCE CLOSER THAN RECOMMENDED SEPARATIONS.

6. ALL DIMENSIONS ARE MINIMUM VALUES.

7. FOR RUNS OF LENGTH GREATER THAN 75', DOUBLE ALL VALUES.

8. IF NOT PHYSICALLY POSSIBLE TO PROVIDE THE SEPARATION SPECIFIED FOR PARALLEL RUNS FOR DISTANCES OVER 75' WRAP THE EXTERIOR OF THE SIGNAL CONDUIT IN 1/32" THICK LEAD SHEET.

4 AUDIO - VISUAL CONDUIT SEPARATION  
AV300/ N.T.S.

#### GENERAL

1. SUPPLY AND INSTALL NETWORKS OF CONDUITS (INCLUDING PULLBOXES AND JUNCTION BOXES) AND BACKBOXES, READY FOR PULLING OF WIRE TO CAPTURE THE REQUIREMENTS SHOWN ON AV DRAWINGS.

2. THE DESCRIPTION OF CONDUIT SYSTEMS AS SHOWN IN AV SCHEDULES AND RISERS IS SCHEMATIC ONLY AND IS INTENDED TO CONVEY THE REQUIREMENTS OF THE AV CONDUIT SYSTEM SUCH THAT THE AV SYSTEMS WILL FUNCTION CORRECTLY.

#### BACKBOXES

1. THE TERM "BACKBOX" INCLUDES TERMINATION BOXES MOUNTED TO WALLS, CEILINGS AND IN FLOORS. ALL BACKBOXES TO BE SUPPLIED WITH UTILITY COVERS, FASTENED IN PLACE.

2. THE DRAWINGS SHOW, APPROXIMATELY, WHERE BACKBOXES ARE TO BE LOCATED. FOR EXACT LOCATIONS, SEE ARCHITECTURAL DRAWINGS OR OBTAIN DIRECTION FROM THE ARCHITECT. THE LOCATIONS OF SOME PULL-BOXES AND JUNCTION BOXES ARE INDICATED FOR REFERENCE. THEIR EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD, SUBJECT TO THE REQUIREMENTS SHOWN HEREIN AND IN THE DRAWINGS.

#### NOMENCLATURE

1. CONSULT AV DRAWINGS FOR DETAILS OF BACKBOX INSTALLATION REQUIREMENTS (SIZE, MOUNTING HEIGHT, ETC.).

2. EACH BACKBOX IS IDENTIFIED BY SYSTEM CODE ACCORDING TO THE AV SYSTEM(S) CABLES THAT WILL BE TERMINATED THERE.

#### SIZE

1. UNLESS NOTED OTHERWISE, SIZE CONDUIT ACCORDING TO REQUIREMENTS OF WIRES TO BE CONTAINED THEREIN. THE QUANTITY AND TYPES OF CABLES SHALL BE PROVIDED BY THE AV CONTRACTOR.

2. THE FILL RATIO SHALL NOT EXCEED 40%.

#### MATERIALS

1. ALL BACKBOXES TO BE MANUFACTURED OF STEEL.

2. ALL BACKBOXES TO BE 75MM (3") DEEP OR GREATER, EXCEPT CEILING LOUDSPEAKER BACKBOXES, WHICH ARE SPECIFIED SEPARATELY.

3. ALL SUSPENDED BACKBOXES SHALL INCLUDE AT LEAST ONE REDUNDANT CHAIN TO BE FASTENED TO THE CEILING SLAB OR OTHER STRUCTURAL MEMBER FOR SEISMIC AND FIRE SAFELY PURPOSES. TENSION RATING OF CHAIN AND FASTENERS TO MEET CODE REQUIREMENTS.

4. WHERE NOTED ON DRAWINGS, USE RIGID CONDUIT UP TO 2400MM (8'-0") ABOVE FINISHED FLOOR WHERE EXPOSED INDOORS AND SUBJECT TO DAMAGE. USE EPOXY COATED RIGID CONDUIT WHERE EXPOSED IN CORROSIVE AREAS INDOORS.

5. UNLESS NOTED OTHERWISE, PVC CONDUIT, BUSHINGS AND CONNECTIONS ARE NOT ACCEPTABLE.

6. ALL EXPOSED SURFACE-MOUNTED GANG BACKBOXES (i.e. MOUNTED TO EXPOSED CONCRETE COLUMNS OR WALLS) SHALL BE SIMILAR TO WIREMOLD V5744-SERIES, ALLOWING FOR ALL COVER PLATES TO NOT OVERHANG BACKBOX. STANDARD METAL ELECTRICAL BACKBOXES ARE NOT ACCEPTABLE.

#### BACKBOX INSTALLATION

1. COORDINATE BACKBOX LOCATIONS AS REQUIRED WITH ELECTRICAL POWER RECEPTACLES AND LIGHT SWITCHES TO PRESENT A UNIFORM APPEARANCE TO THE SATISFACTION OF THE ARCHITECT.

3. MOUNT SURFACE OR RECESSED ACCORDING TO LOCAL FINISH REQUIREMENTS, AT THE DISCRETION OF THE ARCHITECT.

4. MARK BACKBOXES IN THE FIELD CONSISTENT WITH THE DRAWINGS FOR IDENTIFICATION PURPOSES. USE PERMANENT MARKER TO MARK ID AND SYSTEM CODE ON THE FACING SURFACE OF THE BACKBOX.

5. COORDINATE CEILING BACKBOXES WITH OTHER SERVICES IN CEILING SUCH THAT BACKBOXES ARE CLEAR OF INTERFERENCES AND DIRECTLY ACCESSIBLE FROM BELOW.

6. IN OPEN CEILINGS, WHERE CHAIN OR STRUT IS THE PRIMARY HANGING SUPPORT, ENSURE THAT LOUDSPEAKER ARE SUSPENDED PLUMB AND LEVEL AT CONSISTENT HEIGHT ABOVE FINISHED FLOOR.

7. WHERE LOUDSPEAKER BACKBOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULLSTRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.

8. ALL JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE INSTALLATION OF WALL FINISHES AND OTHER PERMANENT BUILDING FEATURES

#### CONDUIT ORGANIZATION

1. UNLESS NOTED OTHERWISE, PROVIDE A SEPARATE NETWORK CONNECTING ALL BACKBOXES OF EACH SYSTEM, AS IDENTIFIED ON THE DRAWINGS.

2. UNLESS NOTED OTHERWISE, PROVIDE CONDUIT TO JOIN EVERY BACKBOX TO THE NETWORK(S), WHETHER OR NOT THE CONDUIT IS SPECIFICALLY DESCRIBED HEREIN.

#### BONDING

1. ALL CONDUIT, PULL BOXES AND JUNCTION BOXES TO BE CONTINUOUSLY GROUNDED BY MEANS OF BONDING STRAPS LINKING EACH ELEMENT.

2. LOW VOLTAGE CONDUITS SHALL BE MECHANICALLY AND ELECTRICALLY ISOLATED FROM SOUND SYSTEM EQUIPMENT RACKS. AT RACKS, USE ISOLATED CONNECTION, SUCH AS PVC BUSHING, SUCH THAT CONDUIT REMAINS ISOLATED FROM THE RACK. CONNECT LOW VOLTAGE CONDUITS WITH HEAVY INSULATED GROUND WIRE TO THE NEAREST GROUND OF A UTILITY PANEL.

#### PROXIMITIES AND ROUTING

1. AV CONDUITS AND AC CONDUITS RUN IN PARALLEL SHOULD BE SEPARATED BY A DISTANCE OF 24" FOR RUNS LESS THAN 75'. FOR PARALLEL RUNS GREATER THAN 75' DOUBLE ALL VALUES.

2. DO NOT RUN WIRING, RACEWAYS AND CONDUIT NEAR POWER TRANSFORMERS, LIGHTING DIMMERS, POWER CONTROL EQUIPMENT, HEAVY CURRENT SWITCHGEAR, FUSEBOARDS, FLUORESCENT BALLASTS, MOTORS, OR ANY OTHER EQUIPMENT WHICH RADIATES EMI.

3. CROSS CONDUITS OF POWER SYSTEMS AT 90 DEGREES.

4. UNUSUALLY HEAVY CURRENT DEMANDS IN ADJACENT CONDUIT OR LONG PARALLEL RUNS MAY DICTATE GREATER SEPARATION TO AVOID INTERFERENCE IN THE SOUND AND VIDEO. IDENTIFY SUCH INSTANCES ON SITE AND CONSULT WITH ELECTRICAL CONSULTANT FOR RESOLUTION PRIOR TO INSTALLATION OF CONDUITS.

6. WHERE CONDUIT CROSSES ACOUSTICAL JOINTS, PROVIDE ISOLATION METHODS AS SHOWN IN ARCHITECTURAL DETAIL.

7. CONDUIT EXPANSION FITTINGS TO BE PROVIDED WHEN CROSSING BUILDING EXPANSION JOINTS. CROSSING TO BE DONE AT 90 DEGREES TO JOINT.

8. ALL WALL-MOUNTED PAGING LOUDSPEAKER AND ATTENUATOR BACKBOXES ARE TO BE SERVED BY CONDUIT ROUTED INTO CEILING SPACE ABOVE.

#### CONDUIT INSTALLATION

1. BEND RADIUS OF CONDUIT MUST BE NO LESS THAN 10 (TEN) TIMES THE CONDUIT DIAMETER. BEND CONDUIT WITHOUT HEATING, REPLACE CONDUIT IF CHINKED OR FLATTENED MORE THAN 1/10 OF THE ORIGINAL DIAMETER.

2. MINIMUM DISTANCE BETWEEN TWO PULL BOXES TO INCLUDE A MAXIMUM OF 2 (TWO) 90 DEGREES BENDS OR EQUIVALENT UP TO 180 DEGREES, OR 30M (100') OF CONDUIT, WHICHEVER IS LESS.

3. MARK ALL CONDUITS IN THE FIELD FOR IDENTIFICATION PURPOSES. FOR RISERS, SHOW SHARE GROUP LETTER AT EVERY JUNCTION BOX. FOR HORIZONTAL RUNS, SHOW DEVICE LOCATION ID AND SHARE GROUP LETTER AT EVERY JUNCTION BOX.

#### PULL STRINGS

1. FISH PULL-STRINGS THROUGH ALL NETWORKS. AT EACH END OF EACH PULL-STRING, LABEL STRING WITH ID OF OTHER END. SECURE BOTH ENDS OF STRING TO CONDUIT OUTSIDE BACKBOX TO PREVENT IT FROM RE-ENTERING CONDUIT.

2. WHERE LOUDSPEAKER BACK BOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULL STRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.

3. FASTEN UTILITY COVERS TO ALL BACKBOXES.

1 AV CONDUIT AND BACKBOX NETWORK  
AV300/ N.T.S.

#### UNLESS NOTED ON RISER, PROVIDE THE FOLLOWING CONDUIT SIZES AND QUANTITY:

ALL BUTTON PANEL CONDUITS ARE (1) 1" [27mm]

ALL WALL PLATE CONDUITS ARE MINIMUM (1) 1.5" [41mm]

ALL SPEAKER CONDUITS ARE MINIMUM (1) 1" [27mm]

ALL ANTENNA CONDUITS ARE MINIMUM (1) 1.5" [41mm]

ALL FLOORBOX CONDUITS ARE MINIMUM (2) 1.5" [41mm]

ALL DISPLAY CONDUITS ARE MINIMUM (1) 1" [27mm]

ALL CONTROL PANELS ARE MINIMUM (1) 1" [27mm]

ALL PROJECTORS ARE MINIMUM (1) 1" [27mm]

ALL PROJECTION LIFTS ARE MINIMUM (1) 1.25" [35mm]

ALL PROJECTION SCREENS ARE MINIMUM (1) 0.75" [21mm]

2 CONDUIT SIZES  
AV300/ N.T.S.



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#### AV CONDUIT NOTES

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File Name:  
Drawn By: SR  
Reviewed By: DJ



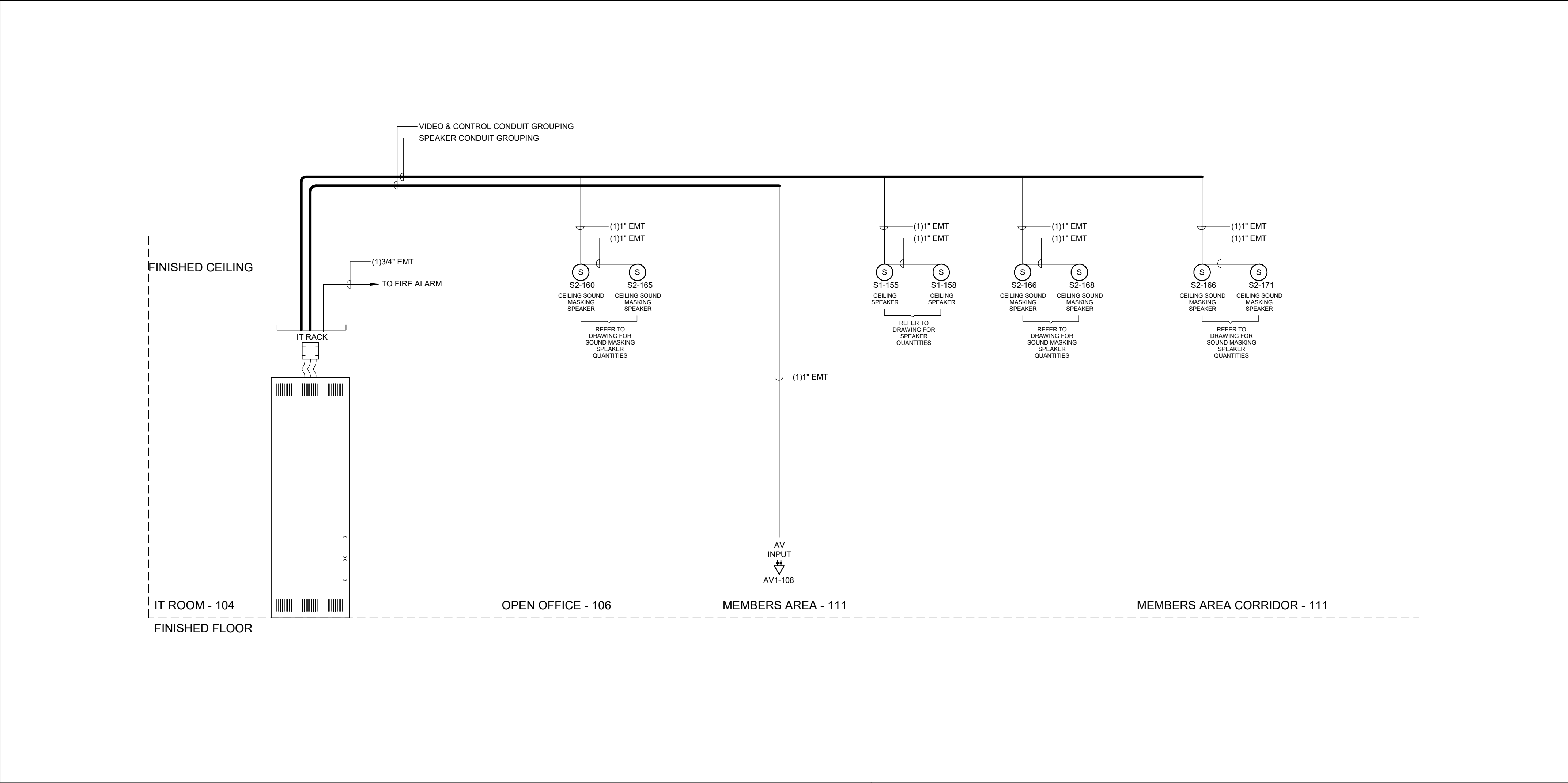
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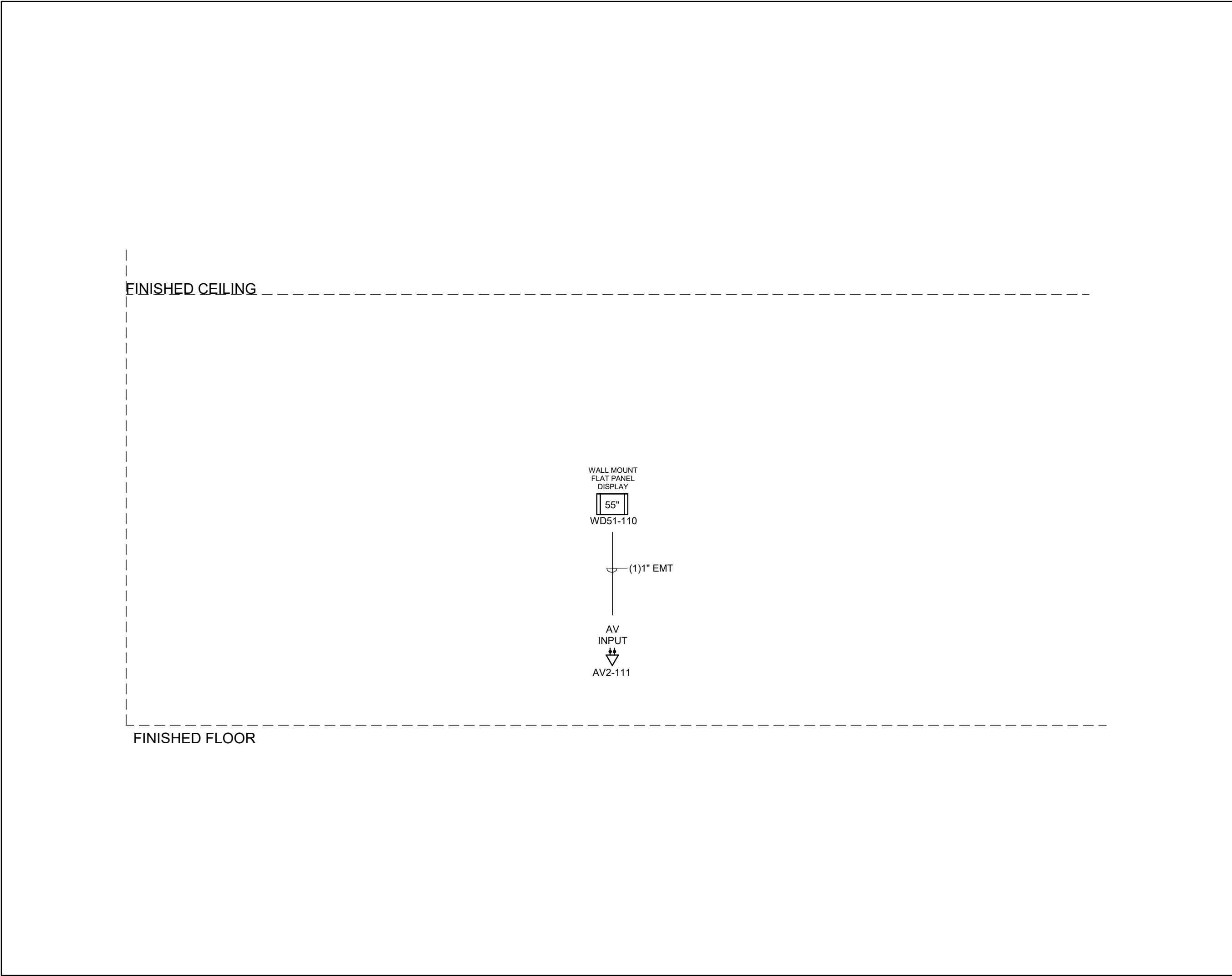
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Notes



1 AV RISER DIAGRAM - MEMBERS AREA  
AV301/ N.T.S.



2 AV RISER DIAGRAM - MEETING ROOM  
AV301/ N.T.S.

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#### AV RISER DIAGRAMS

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AV301



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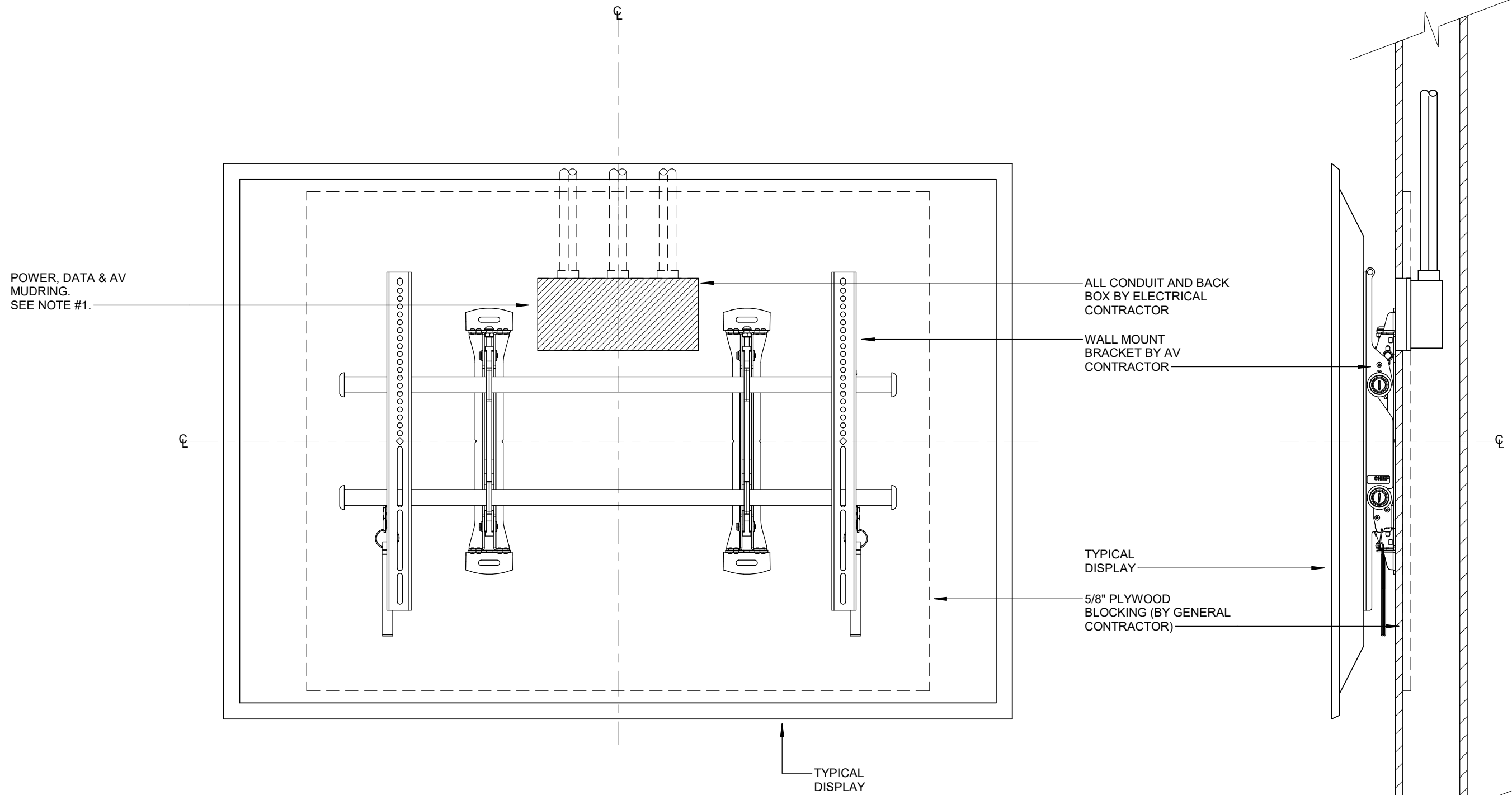
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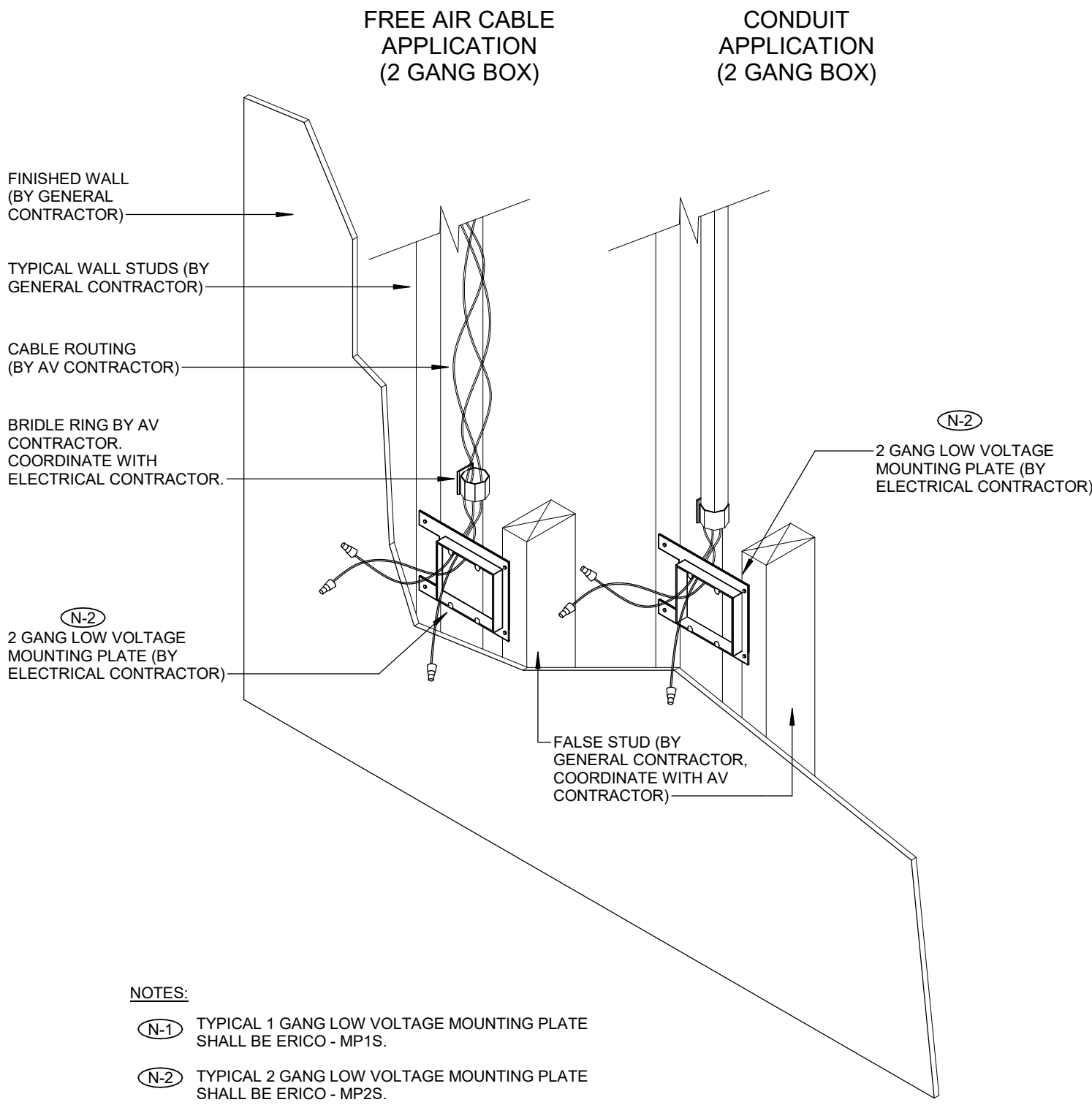


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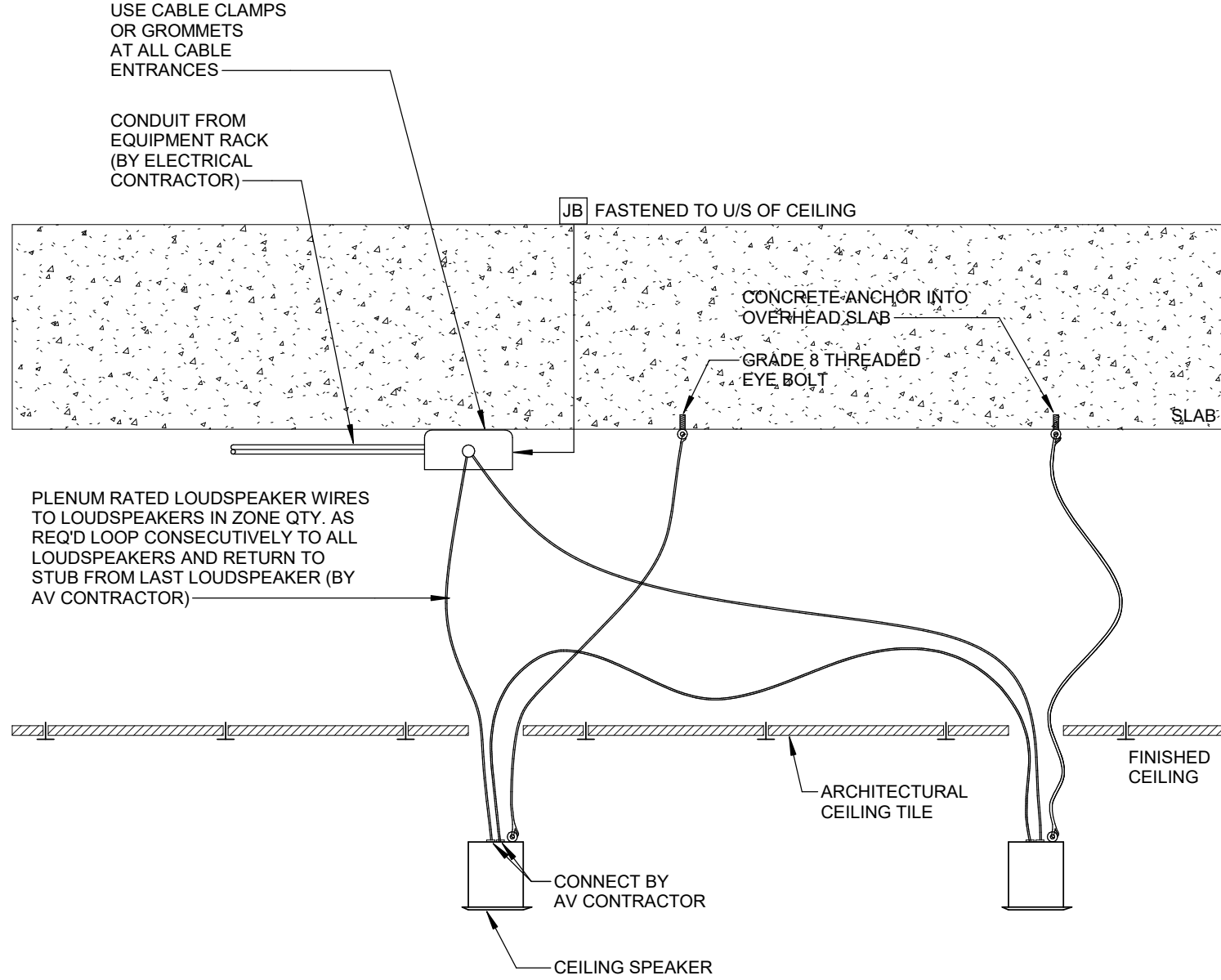
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CROSS SECTION

1 WALL MOUNT FLAT PANEL DISPLAY  
AV400/ N.T.S.



3 LOW VOLTAGE MOUNTING PLATE  
AV400/ N.T.S.



S1  
(S)

2 CEILING SPEAKER INSTALLATION INTO TILE  
AV400/ N.T.S.

|   |                          |            |
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AV DETAILS

Project Number: 17488.003  
Drawing Scale: N.T.S.  
Date: XXXXX/2X  
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AV400