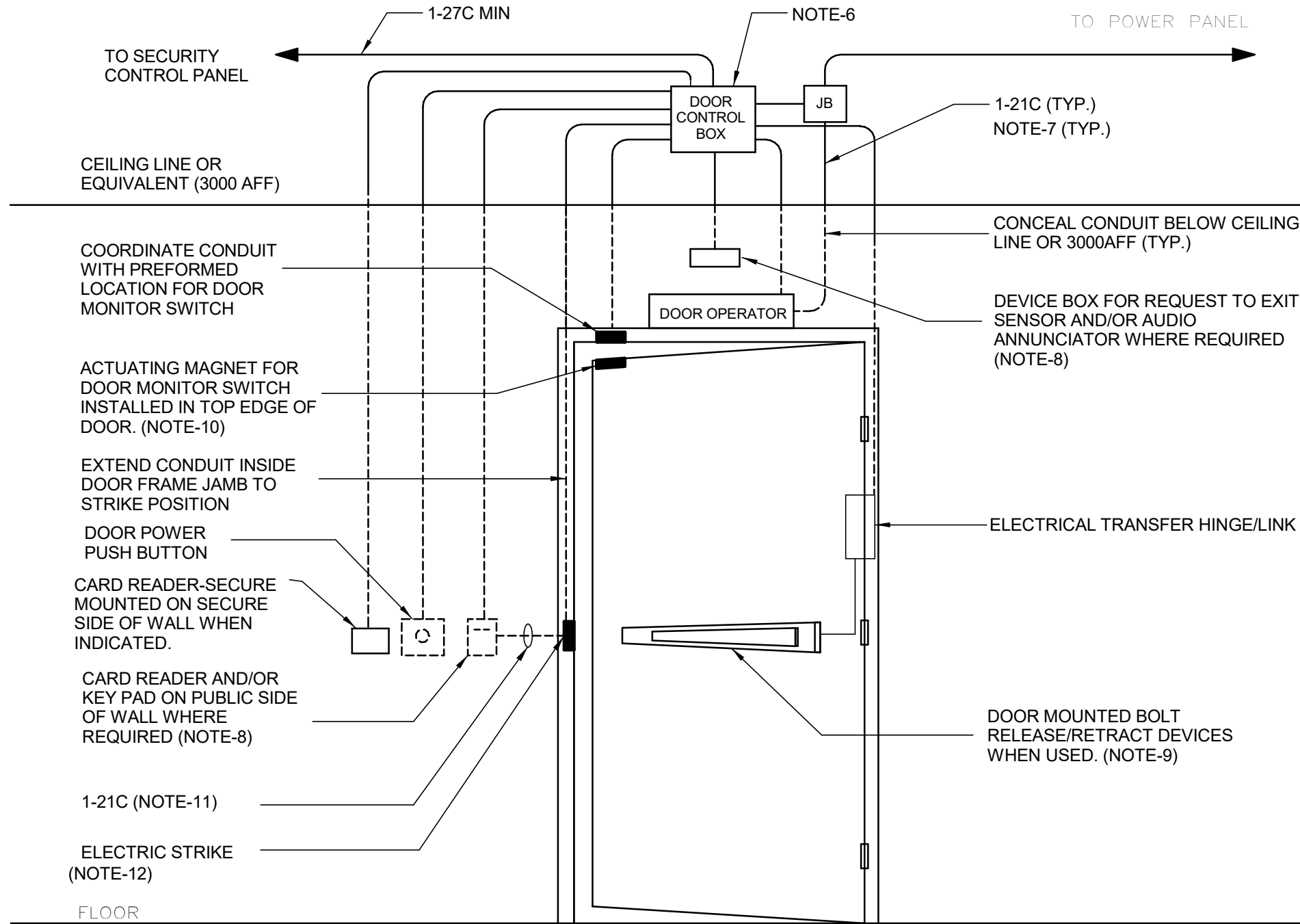


- NOTES**
1. PROVIDE EMERGENCY CALL SYSTEM EQUIPMENT. PROVIDE EMPTY CONDUITS ONLY COMPLETE WITH PULL STRINGS.
  2. BACK BOXES AND CONDUITS SHALL BE ACCORDING TO APPROVED SHOP DRAWINGS. CONDUITS SHALL BE EMT, MINIMUM SIZE 21mm DIA., CONTRACTOR TO COORDINATE.
  3. LOCATIONS OF DEVICES SHALL BE ACCORDING TO ARCHITECTURAL DRAWINGS. VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGHING-IN.
  4. PROVIDE DOOR OPERATOR. PROVIDE 120V CIRCUIT FOR POWER AND CONDUIT FOR CONTROL CONNECTIONS TO DOOR CONTROLLER AS REQUIRED.
  5. PROVIDE ELECTRIC STRIKE AND CONDUIT FOR CONNECTION TO DOOR CONTROLLER AS REQUIRED.

- SEQUENCE OF OPERATION:**
1. UPON PRESSING THE EXTERIOR PUSH PLATE, THE DOOR SHALL OPEN.
  2. AFTER ENTRY, THE OCCUPANT SHALL PRESS THE "PUSH TO LOCK" PUSH PLATE, AND LOCK THE DOOR VIA ELECTRIC STRIKE. THE EXTERNAL SIGNAGE WILL BE IN THE "OCCUPIED" STATE. PRESSING THE EXTERIOR PUSH PLATE WILL NOT HAVE ANY EFFECT.
  3. THE OCCUPANT WILL EXIT BY PRESSING THE INTERIOR UNIVERSAL SYMBOL FOR ACCESSIBILITY, WHICH WILL UNLOCK THE STRIKE, ACTIVATE THE DOOR OPERATOR AND AND RESET THE EXTERIOR SIGNAGE TO ITS "UNOCCUPIED" STATE. SIMILARLY, THE OCCUPANT MIGHT TURN THE DOOR HANDLE, AND OPEN THE DOOR. THE MAGNETIC DOOR CONTACT WILL REGISTER THIS AS A DOOR OPEN STATUS, AND RESET THE EXTERIOR SIGNAGE TO ITS "UNOCCUPIED" STATE AND RELEASE THE ELECTRIC STRIKE.
  4. THE INTERIOR AND EXTERIOR REQUEST FOR EMERGENCY ASSISTANCE AUDIBLE AND VISUAL SIGNAL DEVICES WILL DEACTIVATE UPON RELEASE (PULL) OF THE MUSHROOM PUSHBUTTON. THE DOOR STRIKE WILL REMAIN UNLOCKED AND THE EXTERIOR SIGNAGE WILL BE IN ITS "UNOCCUPIED" STATE.



- NOTES:**
1. THIS CONSTRUCTION DETAIL IS FOR SCHEMATIC PURPOSE ONLY, REFER TO POWER AND SECURITY LAYOUT DRAWINGS AND DOOR HARDWARE SCHEDULE FOR EXACT COMPONENTS REQUIRED AND CONDUIT ROUTING.
  2. ALL CONDUITS WITH PULL STRING, JUNCTION BOXES, DEVICE BOXES AND POWER WIRES BY DIV.26.
  3. SECURITY DOOR CONTROLLER, CARD READER, ALARM BUZZER, KEYPAD, REQUEST TO EXIT SENSOR AND SECURITY WIRES BY SECURITY VENDER WHERE REQUIRED.
  4. POWER SUPPLY, DOOR OPERATOR/CONTROLLER, DOOR POWER PUSH BUTTON, ELECTRIC STRIKE/BOLT/LATCH, DOOR CONTACT (MONITOR SWITCH), BY DOOR HARDWARE CONTRACTOR WHERE REQUIRED.
  5. PROVIDE CONTINUOUS ELECTRICAL RACEWAY CONSISTING OF CONDUIT AND/OR CABLE TRAY. NO FREE AIR RUNNING SECURITY CABLE.
  6. JUNCTION BOX SIZED TO ACCOMMODATE LOCAL DOOR CONTROL SYSTEM; MIN. 300x300x150 WITH REMOVABLE AND TAMPER RESISTANT COVER; SURFACE MOUNTED FOR SOLID WALL CONSTRUCTION. SAME WITH 100x100x54 DEVICE BOX WITH 38MM EXTENSION RING TO DEPTH OF 92MM. FLUSH MOUNT FOR CAVITY OR BLOCK WALL CONSTRUCTION. USE COMMON CONDUIT, PULL BOXES AND JUNCTION BOXES FOR INTRUSION DETECTION AND ACCESS CONTROL WIRING.
  7. USE JUNCTION BOX AT CORNER FOR BLOCK WALL CONSTRUCTION. CONCEAL VERTICAL CONDUIT. SURFACE MOUNT HORIZONTAL CONDUIT ON SOLID WALL ONLY
  8. DEVICE BOX MOUNTED FLUSH WITH SURFACE. PROVIDE SINGLE DEVICE COVER PLASTER RING FOR CAVITY OR BLOCK WALL CONSTRUCTION. REFER TO LAYOUT DRAWING FOR LOCATION. COORDINATE WITH DOOR HARDWARE SCHEDULE FOR EXACT SIZE. DISPENSE WITH WALL BOX WHEN MULLION MOUNT IS INDICATED IN THE DOOR HARDWARE SCHEDULE.
  9. BOLT RELEASE/RETRACT DEVICE MAY BE PUSH-BAR OR LEVER TYPE. USE TYPE INDICATED IN DOOR HARDWARE SCHEDULE.
  10. WHERE DOOR PERFORMANCE REQUIREMENTS CALL FOR INTRUSION DETECTION AND ACCESS CONTROL, USE MAY BE MADE OF 2 SEPARATE SINGLE POLE SWITCHES OR ONE COMMON 2 POLE SWITCH. MAINTAIN SEPARATION BETWEEN WIRING OF TWO SYSTEMS.
  11. USE OF BRIDGING CONDUIT ACCEPTABLE FOR CAVITY OR BLOCK WALL CONSTRUCTION WHERE SITE CONDITIONS PERMIT.
  12. OMIT WHEN ELECTRIC LATCH IS USED.
  13. ENSURE THAT WHEN CREDENTIAL IS NOT PRESENTED AND DOOR PUSH BUTTON IS TRIGGERED THAT MOTOR DOES NOT ENGAGE. SEQUENCE OF OPERATION IS TO PRESENT CREDENTIAL -> ACTIVATE DOOR OPERATOR PUSH BUTTON

**1 UNIVERSAL WASHROOM DETAIL**  
D4001 Scale: NTS

**2 DOOR SECURITY DETAIL - POWERED DOORS**  
D4001 Scale: 1 : 1

CLIENT  
**CITY OF TORONTO**  
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ISSUES		
No.	DESCRIPTION	DATE
A.	50% SUBMISSION	2021-01-21
B	90% SUBMISSION	2021-04-12
C	ISSUED FOR PERMIT	2021-04-12
D	ISSUED FOR TENDER	2021-05-25

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

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SHEET TITLE  
**ELECTRICAL DETAILS 1**

SHEET NUMBER <b>D4001</b>	ISSUE <b>D</b>
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