




| Level | Damper Number | System            | Position in Fire Mode | Position in Smoke Clearance Mode | Position in Normal Operating Mode | Position in After Hours Mode |
|-------|---------------|-------------------|-----------------------|----------------------------------|-----------------------------------|------------------------------|
| LG3   | SD-Q14-1      | SEF 37            | Closed                | Open                             | Closed                            | Closed                       |
| LG3   | SD-Q14-2      | SEF-38            | Closed                | Open                             | Closed                            | Closed                       |
| LG3   | SD-Q14-3      | AHU 3-2 R/A       | Closed                | Open                             | Closed                            | Closed                       |
| LG3   | SD-Y6-1       | SEF 35            | Closed                | Open                             | Closed                            | Closed                       |
| LG3   | SD-Y11-1      | SEF 36            | Closed                | Open                             | Closed                            | Closed                       |
| LG2   | FD-B12-1      | PR3 Spill Air     | Closed                | Closed                           | Open                              | Open                         |
| LG2   | FD-C12-2      | AHU 3-1 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-C13-4      | AHU 3-1 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-F2-1       | AHU 1-2 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-F2-3       | AHU 2-1 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-G4-3       | AHU 1-2 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-G5-1       | AHU 1-2 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-G7-2A      | AHU 1-2 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-H6-2       | AHU 1-2 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-L9-3       | LG2 Return Air    | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-P13-2      | AHU 3-3 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-P13-2A     | Lakeside Stack SE | Closed                | Open                             | Closed                            | Closed                       |
| LG2   | FD-P13-2B     | AHU 3-3 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-P13-3      | AHU 3-3 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Q2-2       | AHU 1-5 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Q4-2       | AHU 1-5 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Q5-2       | AHU 1-2 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-R5-1       | AHU 1-2 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-S5-2       | AHU 1-6 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-U12-1      | AHU 1-5 O/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-U5-2       | AHU 1-6 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Y1-1       | AHU 2-1 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Y2-1       | AHU 2-1 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Y12-2      | AHU 2-1 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Y12-4      | AHU 2-1 R/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Y2-1       | AHU 2-1 S/A       | Closed                | Open                             | Open                              | Closed                       |
| LG2   | FD-Y7-2       | AHU 2-1 R/A       | Closed                | Open                             | Open                              | Closed                       |

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| LG    | FD-B4-9       | AHU 4-1 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-B4-11      | AHU 4-6 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-B4-12      | AHU 4-6 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C11-4      | AHU 4-3 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C11-5      | AHU 4-3 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C11-6      | AHU 4-4 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C12-9      | AHU 4-5 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C12-10     | AHU 4-5 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C13-4      | AHU 4-4 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C13-5      | AHU 4-7 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C13-8      | AHU 4-7 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C8-2       | AHU 4-2 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C8-3       | AHU 4-1 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-C8-4       | AHU 4-2 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-P13-1      | AHU 3-2 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-P13-4      | AHU 3-2 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-P5-1       | AHU 1-1 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-P5-2       | AHU 1-1 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Q1-3       | AHU 1-2 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Q1-5       | AHU 1-2 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Q4-1       | AHU 1-7 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Q4-2       | AHU 1-7 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Q13-1      | Make-up Air | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Q13-2      | AHU 3-3 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-R5-1       | AHU 5-1     | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-R7-2       | TEF         | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-S2-1       | AHU 5-1 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-T2-1       | AHU 5-1 R/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-V2-1       | AHU 5-1 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-V5-1       | AHU 5-1 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-W2-1       | AHU 6-1 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Y2-1       | AHU 6-1 S/A | Closed                | Open                             | Open                              | Closed                       |
| LG    | FD-Y7-3       | AHU 6-1 R/A | Closed                | Open                             | Open                              | Closed                       |

| Level | Damper Number | System                        | Position in Fire Mode | Position in Smoke Clearance Mode | Position in Normal Operating Mode | Position in After Hours Mode |
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| G     | FD-G5-1       | AHU 8-3 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-G7-1       | AHU 8-2 R/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-G7-2       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |
| G     | FD-H5-1       | AHU 8-2 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-H5-3       | DH-MP1-1 Wet Air Exhaust      | Closed                | Closed                           | Open                              | Closed                       |
| G     | FD-H7-2       | AHU 7-1 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | SD-J5-1       | AHU-MP1-1 SE                  | Closed                | Open                             | Closed                            | Closed                       |
| G     | FD-K5-1       | AHU 8-3 R/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-K5-2       | AHU-MP2-1 SE                  | Closed                | Open                             | Closed                            | Closed                       |
| G     | FD-M5-2       | AHU 7-5 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-M5-3       | AHU 7-3 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-M7-1       | AHU 7-1 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-M7-2       | AHU 7-2 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-M7-3       | AHU 7-4 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-Q7-4       | AHU 7-1 R/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-Q7-5       | AHU 7-3 R/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-Q7-6       | AHU 7-2 R/A                   | Closed                | Open                             | Open                              | Closed                       |
| G     | FD-R7-2       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |
| 1     | FD-F7-1       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |
| 1     | FD-G5-1       | AHU 10-6 S/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-G7-3       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |
| 1     | FD-G7-5       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |
| 1     | FD-G7-7       | AHU 10-7 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-H5-2       | AHU 10-7 S/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-K5-1       | AHU 10-6 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-K5-2       | AHU 10-1 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-K5-3       | AHU 10-1 S/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-K5-4       | AHU 10-1 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-K5-5       | AHU 10-6 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-K7-1       | AHU 10-7 S/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-M5-2       | AHU 10-6 S/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-P7-1       | AHU 10-7 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-Q5-1       | AHU 7-7 S/A                   | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-Q5-2       | AHU 11-4 S/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-Q7-4       | AHU 11-4 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-Q7-5       | AHU 10-7 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-Q7-7       | AHU 7-7 R/A                   | Closed                | Open                             | Open                              | Closed                       |
| 1     | FD-R7-2       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-G7-1       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-G7-5       | PR 10 RA From Riser B1        | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-G7-6       | PR 10 RA from Riser B2        | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-G7-7       | AHU 10-2 R/A to Riser B1      | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-G7-8       | AHU 10-6 R/A to Riser B2      | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-G7-11      | AHU 10-3 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 2     | SD-H6-1       | PR10 RA from Riser B1         | Closed                | Closed                           | Open                              | Closed                       |
| 2     | SD-H6-2       | AHU-10-5 Smoke Spill          | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-K5-2       | PR 10 Relief Air              | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-K5-8       | R/A from Riser C              | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-K5-9       | AHU 11-4 Relief Air           | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-K5-10      | Computer Room Smoke Clearance | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-K7-4       | OAF 10-1                      | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-K7-6       | AHU 10-10/11 O/A              | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-P7-2       | R/A Riser H to PR 10          | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-Q5-2       | OAF 11-1                      | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-Q5-3       | AHU 11-4 S/A                  | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-Q7-2       | Riser H1 to PR 10             | Closed                | Closed                           | Open                              | Closed                       |
| 2     | FD-Q7-4       | AHU 11-4 R/A                  | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-Q7-5       | Smoke Exhaust L2 Stacks       | Closed                | Open                             | Closed                            | Closed                       |
| 2     | FD-Q7-6       | Smoke Exhaust                 | Closed                | Open                             | Open                              | Closed                       |
| 2     | FD-R7-2       | TEF                           | Closed                | Closed                           | Open                              | Closed                       |

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| 3     | FD-G5-1       | AHU 10-2 S/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-G7-2       | TEF            | Closed                | Closed                           | Open                              | Closed                       |
| 3     | FD-G7-4       | AHU 10-3 SE    | Closed                | Open                             | Closed                            | Closed                       |
| 3     | FD-G7-5       | AHU 10-2 R/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-G7-6       | AHU 10-4 R/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-G7-7       | AHU 10-4 R/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-K5-1       | AHU 10-3 S/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-K7-1       | AHU 10-3 S/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-K7-2       | AHU 10-4 S/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-M7-2       | AHU 10-3 R/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-M7-3       | AHU 10-4 S/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q5-1       | AHU 7-7 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q5-3       | AHU 11-4 S/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q7-2       | AHU 7-7 R/A    | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q7-4       | TEF            | Closed                | Closed                           | Open                              | Closed                       |
| 3     | FD-Q7-5       | N/A            | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q7-6       | Level 3 RA     | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q7-7       | AHU 10-4 R/A   | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q7-8       | AHU 7-7 RA     | Closed                | Open                             | Open                              | Closed                       |
| 3     | FD-Q7-11      | AHU 10-3 SE    | Closed                | Open                             | Closed                            | Closed                       |
| 4     | FD-G7-3       | TEF            | Closed                | Closed                           | Open                              | Closed                       |
| 4     | FD-R7-5       | TEF            | Closed                | Closed                           | Open                              | Closed                       |
| 5     | SD-F5-1       | AHU 8-4 R/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | SD-F7-4       | SEF-03         | Closed                | Open                             | Open                              | Closed                       |
| 5     | SD-F7-5       | SEF-04         | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-G6-1       | PR 8 R/A Riser | Closed                | Closed                           | Open                              | Closed                       |
| 5     | FD-G7-1       | PR 8 R/A Riser | Closed                | Closed                           | Open                              | Closed                       |
| 5     | FD-G7-2       | PR 8 R/A Riser | Closed                | Closed                           | Open                              | Closed                       |
| 5     | FD-H6-4       | AHU 8-5 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-H7-1       | AHU 8-6 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-H7-2       | PR 8 R/A Riser | Closed                | Closed                           | Open                              | Closed                       |
| 5     | FD-J6-1       | AHU 8-7 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-K5-2       | AHU 8-4 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | SD-L6-1       | SEF-10         | Closed                | Open                             | Closed                            | Closed                       |
| 5     | FD-M7-4       | AHU 7-9 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-N7-1       | AHU 7-10 S/A   | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-P6-1       | AHU 7-8 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-P7-1       | AHU 7-7 S/A    | Closed                | Open                             | Open                              | Closed                       |
| 5     | FD-Q7-1       | PR 7 R/A       | Closed                | Closed                           | Open                              | Closed                       |
| 5     | FD-Q7-2       | PR 7 R/A       | Closed                | Closed                           | Open                              | Closed                       |
| 5     | FD-Q7-3       | PR 7 R/A       | Closed                | Closed                           | Open                              | Closed                       |
| 5     | SD-R7-4       | SEF-01         | Closed                | Open                             | Closed                            | Closed                       |
| 5     | SD-S5-1       | L4 SE          | Closed                | Closed                           | Open                              | Closed                       |
| 5     | SD-S5-2       | SEF-02         | Closed                | Open                             | Closed                            | Closed                       |
| 5     | SD-S7-1       | L4 SE          | Closed                | Closed                           | Open                              | Closed                       |

NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION            | ISSUED | VER'D | APP'D | DATE     | CLIENT  | KEY PLAN  |              | ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. |   | PROJECT                      | DRAWING TITLE           | JOB NUMBER |
|----------|------------------------|--------|-------|-------|----------|---|---|--------------|--|---|------------------------------|-------------------------|------------|
| 1        | 90% DESIGN DEVELOPMENT | EL     | AP    | AP    | 20.05.19 |  |  | NOT TO SCALE | <br>Unit 2, 2-6 Shea Street, Phillip ACT 2606<br>Ph (02) 6285 1822 Fax (02) 6285 1863<br>Email canberra@northrop.com.au ABN 81 094 433 100                                  | NATIONAL LIBRARY OF AUSTRALIA<br>Parkes Pl W, Canberra ACT 2600,<br>Australia | FIRE MATRIX<br>SMOKE DAMPERS | CR182487                |            |
| A        | TENDER                 | EL     | AP    | AP    | 21.06.19 |   |   |              |  |   |                              | DRAWING NUMBER          | REVISION   |
| B        | TENDER                 | EL     | AP    | AP    | 17.07.19 |   |   |              |  |   |                              | 19AC-NCE-DWG-M-068      | B          |
|          |                        |        |       |       |          |   |   |              |  |   |                              | DRAWING SHEET SIZE ± A1 |            |