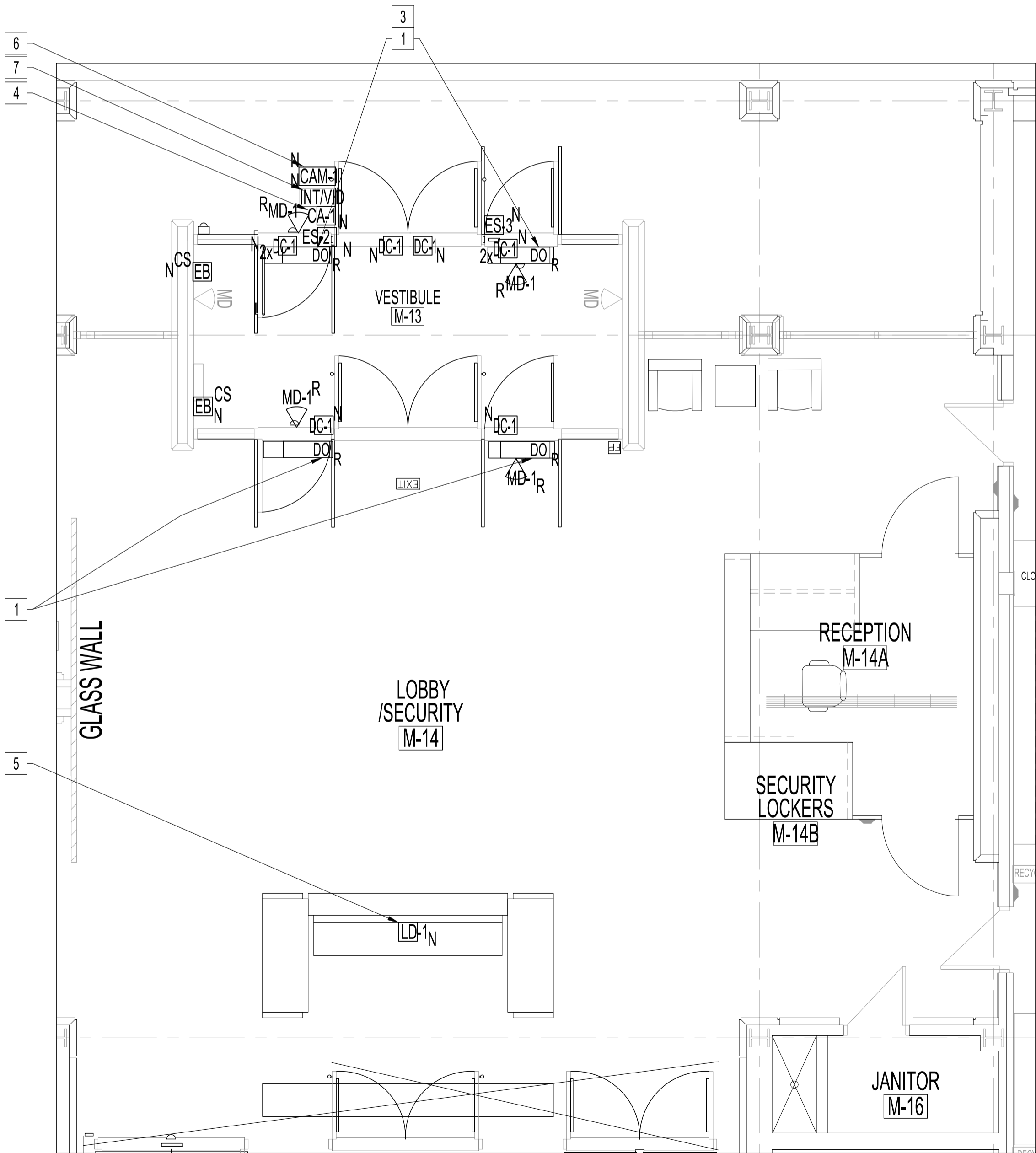


MAIN FLOOR PLAN - COUNCIL DEMO
SCALE: 1/8"=1'-0"



MAIN FLOOR PLAN - COUNCIL RENO
SCALE: 1/8"=1'-0"

POWER AND SYSTEMS DEMOLITION NOTES: "x"

ALSO SEE NOTES & SPECIFICATIONS.
REFER TO APPLICABLE RENOVATION DRAWING FOR RELOCATED COMPONENTS.
ALL ABANDONED CABLES TO BE REMOVED AS REQUIRED BY LATEST CANADIAN ELECTRICAL CODE.
DO NOT DISTURB OR DISCONNECT ANY WIRING & CABLING IN AREA OF WORK REQUIRED FOR OTHER AREAS.

1. REMOVE ALL EXISTING DOOR MOUNTED ELECTRICAL DEVICES/WIRING BACK TO SOURCE. RETURN DEVICES TO THE CITY FOR SPARE PARTS.
2. ALL EXISTING DOOR OPERATORS (DO) TO BE REUSED, RECONNECTED TO EXISTING CIRCUIT & RECONFIGURED TO WORK WITH NEW CARD ACCESS SYSTEM & LOCK-DOWN. SEE RENOVATION NOTES.
3. REMOVE (INT), (DB) & WIRING BACK TO SOURCE.

ELECTRICAL POWER & SYSTEMS RENOVATION NOTES: "x"

ALSO SEE NOTES & SPECIFICATIONS.
ALL WIRING & CABLING SHALL BE CONCEALED IN DOOR/TRANSOM FRAMES &/OR IN WALL CAVITIES FOR FINISH SPACE (EG. OFFICES, CORRIDORS...). ALL HOLES DRILLED IN STONE WALLS MUST BE DRILLED THROUGH MORTAR NOT STONE. ALL NEW WIRING & CABLING IN CEILING SPACE SHALL BE IN EMT AS PER LATEST CEC. PROGRAMMING OF CONTROLLERS, NETWORK IPS & CARD ACCESS SERVER BY CITY OF WINNIPEG - FST SECTION. SUPPLY & PROGRAMMING OF KEY CARDS BY THE CITY. COMMISSION CARD ACCESS SYSTEM TO FULLY OPERATE.

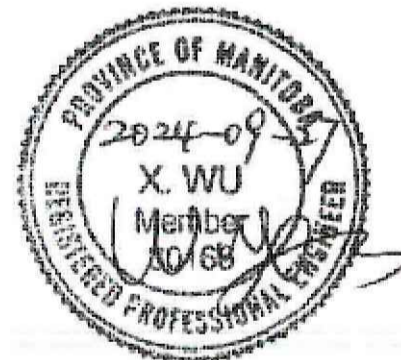
1. DOOR OPERATOR (DO)
 - 1.1. REINSTALL ALL (4) DOOR OPERATORS (DO) TO EXISTING CIRCUITS. RECONFIGURE EXTERIOR DOOR OPERATORS WIRING/ CONTROLS TO OPERATE WITH NEW CARD ACCESS SYSTEM & NEW LOCKDOWN SYSTEM. PROVIDE DOOR INTERFACE RELAYS (CAMDEN MODEL CX-12 PLUS) TO INTERFACE WITH NEW CARD ACCESS & NEW LOCKDOWN.
 - 1.2. REINSTALL ALL (MD-1). WIRE POWER FOR ALL EXTERIOR DOOR (MD-1) FROM EXISTING CARD ACCESS SYSTEM POWER SUPPLY.
 - 1.3. LABEL ALL (DO) WITH BRANCH CIRCUIT & DOOR DESIGNATION.
2. PROVIDE PRESENCE SENSORS (PS-1) & INSTALL ON THE TOP RAIL ON BOTH SIDES OF THE DOOR LEAF AS CLOSE AS POSSIBLE TO THE CLOSING LEAF, 3/4". THE (PS-1) TRANSMITTER SHALL BE PLACED NEXT TO THE DOOR EDGE. TURN THE (PS) MODULE IF NECESSARY. WIRE ONE (PS-1) MODULE TO THE DOOR CONTROLLER AS MASTER & PLUG-IN SLAVE CABLE BETWEEN BOTH (PS-1) MODULES FOR INTENDED DOOR SWING ACT. EACH (PS) HAS TWO RELAYS. SET TO FUNCTION. CALIBRATE EACH (PS-1) & PERFORM DOOR SAFETY CHECK. PROVIDE S/ST POWER TRANSFER LOOPS.
3. PROVIDE EXTRA (DC-1) FOR EACH EXTERIOR (DO) TO FUNCTION WITH EXISTING INTRUSION SYSTEM. INSTALL IN FACTORY PREP 1" DIA. TOP DOOR FRAME OPENINGS.
4. CARD ACCESS
 - 4.1. NOTE: COUNCIL BUILDING FRONT ENTRANCE (CA) DOOR IS CURRENTLY CONTROLLED BY EXISTING CONTROLLER (010-510 MAIN COUNCIL EAST CBB0) LOCATED IN EAST JANITOR M-16 & SHALL BE USED FOR CARD ACCESS TIE-IN. NEW ACCESS CONTROL CABLES TO TERMINATE THERE.
 - 4.2. PROVIDE (ES-2) & (ES-3) & (DC-1). AS SHOWN. (ES-2) & (ES-3) SHALL BE POWERED BY CARD ACCESS SYSTEM NOT (DO). MOUNT (ES-2), (ES-3) & (DC-1) ONTO DOOR FRAME WITH WIRING CONCEALED IN DOOR FRAMES, CEILING SPACES & WALL CAVITIES. IF SURFACE-MOUNTED WIRING ON FINISHED WALLS ARE REQUIRED, USE LEGRAND RACEWAY COMPONENTS/COLOUR TO BLEND IN & MINIMUM PATHWAY OPTIC. MAXIMUM LATCH PROJECTION ON DOOR HARDWARE DEVICE IS ESSENTIAL TO OBTAINING FULL HOLDING FORCE ON (ES-2) & (ES-3).
 - 4.3. PROVIDE (CA-1) AS SHOWN. MOUNT APPROXIMATELY AT DOOR LATCH CENTERLINE HEIGHT ON LATCH SIDE OF DOOR FRAME (TBC).
 - 4.4. PROVIDE HOME RUN HONEYWELL PROFUSION MULTI-CONDUCTOR ACCESS CONTROL CABLE 3185 (FT6) IN EMT FROM EXISTING CARD ACCESS PANEL IN EAST JANITOR M-16 TO THE FURTHEST NEW CARD ACCESS DEVICE CONNECTION. TERMINATE ALL DEVICES TO NEW (R-1) (SUPPLY & INSTALL IN EXISTING CARD ACCESS PANEL), ASSOCIATED COMPONENTS & CONFIGURE TO FUNCTION. LABEL ACCESS CONTROL CABLES WITH DOOR DESIGNATIONS AT DOOR LOCATIONS & AT CONTROL PANEL. ALL (4) HONEYWELL PROFUSION ACCESS CONTROL JACKETED CABLES TO BE TERMINATED PER FOLLOWING:
 - 4.4.1. ALL WIRE CONNECTORS SHALL BE:
 - 4.4.1.1. B-WIRE GEL FILLED CONNECTORS FOR EXTERIOR OR INTERIOR USE.
 - 4.4.1. DOOR ELECTRIC STRIKES (ES-2) & (ES-3) 18/4 STR (SETUP FOR FAIL-SECURE) INSTALL WITH STRIKE SURGE PROTECTION AT DEVICE END.
 - 4.4.2. CARD ACCESS READER (CA-1) 22/6 STR OAS
 - 4.4.3. DOOR CONTACT (DC-1) 22/2 STR
 - 4.4.3.1. DOOR CONTACTS (DC-1) WIRED WITH A 4-STATE, DOUBLE END-OF-LINE 1k RESISTORS IN THE NC STATE. (DC-1) IN DOOR FRAME HEADER.
 - 4.4.3.2. PROVIDE MAGNET & INSTALL ONTO DOOR TOP CHANNEL TO ALIGN WITH (DC-1).
 - 4.4.4. REQUEST TO EXIT (RTE) 22/4 STR.; (RTE) NOT REQUIRED BUT USE CABLE TO CONNECT (MD-1) TO CARD ACCESS CONTROL TO ACTIVATE (ES-2) & (ES-3) THROUGH NEW CAMDEN CX-12 PLUS. COIL-UP EXCESS WIRING FOR FUTURE USE.
5. LOCKDOWN SYSTEM (SUPERVISED & MONITORED)
 - 5.1. SEQUENCE OF OPERATION
 - 5.1.1. WHEN LOCKDOWN "RED" BUTTON IS PUSHED
 - 5.1.1.1. EXTERIOR INGRESS (ENTRANCE) DOOR & EGRESS (EXIT) DOOR WILL BE PLACED INTO "LOCKED MODE" INCLUDING DISABLING ALL (DO), (MD-1) & (CA-1). VALID ACCESS CARDS CANNOT UNLOCK THE CARD READER (CA-1).
 - 5.1.1.2. A SILENT ALARM IS SENT TO CENTRAL CONTROLS.
 - 5.1.1.3. SINGLE & DOUBLE EGRESS (EXIT) DOORS CAN BE READILY OPENED FROM INSIDE VIA RIM EXIT DEVICES (BY ARCHITECTURAL).
 - 5.1.2. PROVIDE (LD-1) WITH DUAL E.O.L RESISTORS. INSTALL UNDER SECURITY FRONT COUNTER (EXACT LOCATION TBD).
 - 5.2.1. WIRE (LD-1) TO EXISTING BOSCH INTRUSION PANEL ZONE IN EAST JANITOR M-16 VIA BELOW MAIN FLOOR. PUSHING (LD-1) RED BUTTON ACTUATES CONTACT CLOSURE & TRIGGERS INTRUSION PANEL RELAY OUTPUT; CONFIGURE TO NOTIFYING COW CENTRAL CONTROLS.
 - 5.2.2. PROVIDE COW CENTRAL CONTROLS WITH SIMILAR (LD-1) & WIRING IN THEIR SPACE (LOCATION TBC) TO ALLOW REMOTE LOCKDOWN & RESET.
 - 5.2.3. CONFIGURE (SUPPLY ALL WIRING & COMPONENTS) THE INTRUSION ALARM OUTPUT CONTACT IN THE EXISTING CARD ACCESS POWER SUPPLY WITH FACP CUTOFF TO DISABLE POWER TO FAIL-SECURE (ES-2) & (ES-3) TO LOCK INGRESS EXTERIOR VESTIBULE DOOR INCLUDING DISABLING ALL (DO), (MD-1) & (CA-1).
 - 5.2.4. PROVIDE ADDITIONAL 2-WIRE RS-485 IN 3/4" EMT TO CONNECT THE NEW MR-52 (R-1) TO COMMUNICATE TO THE CONTROLLER IN THE EAST JANITOR M-16.
 6. CCTV
 - 6.1. REINSTALL, RECONNECT & TEST (CAM).
 7. INTERCOM/VIDEO
 - 7.1. PROVIDE INTERCOM/BUZZER/VIDEO CAMERA (INT/VID). VIDEO MASTER STATION & INCLUDED AIPHONE POWER SUPPLY AT SECURITY DESK. CONCEAL ALL WIRING IN DOOR FRAME INCLUDING 18/2 SOLID CONDUCTOR UNSHIELDED GREY (FT6) CABLE TO VIDEO MASTER STATION. ALL WIRING IN CEILING SPACES & UNDER DESK SHALL BE IN 3/4" EMT.
 - 7.2. MOUNT DOOR STATION ON EXTERIOR RIGHT DOOR JAMB OR BESIDE AT APPROXIMATELY 47" AFF (TBC) TO PROVIDE A FULL FACIAL TO WAIST VIEW. CONCEAL ALL WIRING IN DOOR FRAME WITH 18/4 STRANDED, UNTWISTED UNSHIELDED GREY (FT6) CABLE & CAT6 (FT6). FROM VIDEO MASTER STATION TO EXISTING CARD ACCESS PANEL (LEAVE EXTRA 6 FEET COILED LENGTH IN PANEL FOR CITY TO COORDINATE TERMINATION & PROGRAMMING). ALL WIRING IN CEILING SPACES & UNDER DESK SHALL BE IN 3/4" EMT.

NOTES:

REFER TO DRAWING E1 & DRAWING LISTS

1	ISSUED FOR ADDENDUM 2	D.AU	2025.03.03
0	ISSUED FOR CONSTRUCTION	D.AU	2024.09.27
No.	REVISION/DESCRIPTION	BY	DATE

SEAL



DRAWN	D.AU	CHECKED	DESIGNED	D.AU	APPROVED
DATE	2024.06.13	USER	APPROVAL		

THE CITY OF WINNIPEG
ASSETS AND PROJECT MANAGEMENT
DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
ADMINISTRATION AND COUNCIL BUILDINGS
DESIGN AND CONSTRUCTION OF
EXTERIOR DOOR REPLACEMENT
510 MAIN STREET

SHEET TITLE	SCALE	PROJECT No:	SHEET No:
COUNCIL BUILDING PARTIAL MAIN FLOOR PLAN ELECTRICAL - POWER AND SYSTEMS	AS SHOWN	2021-111	E2-R1

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1