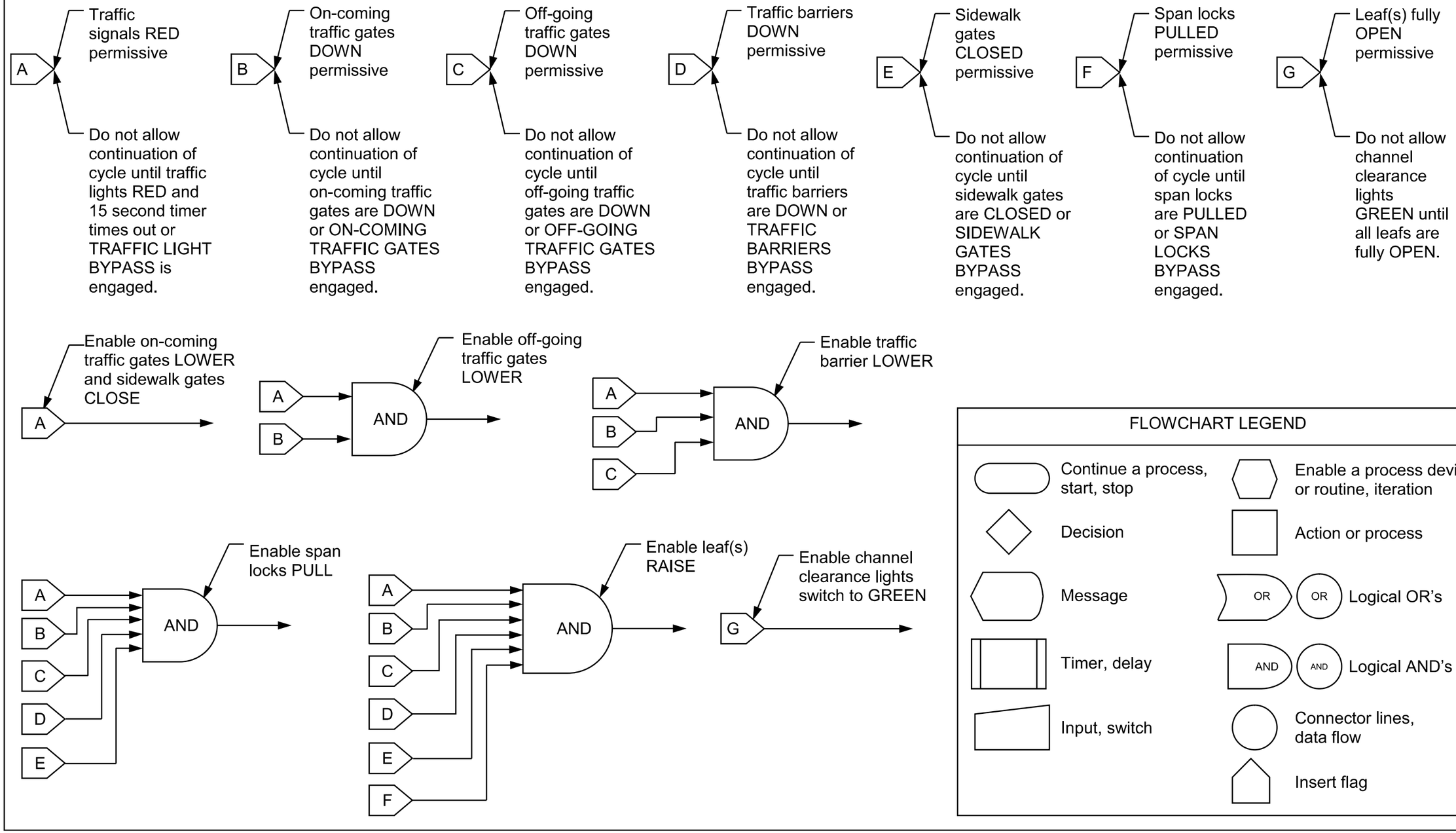
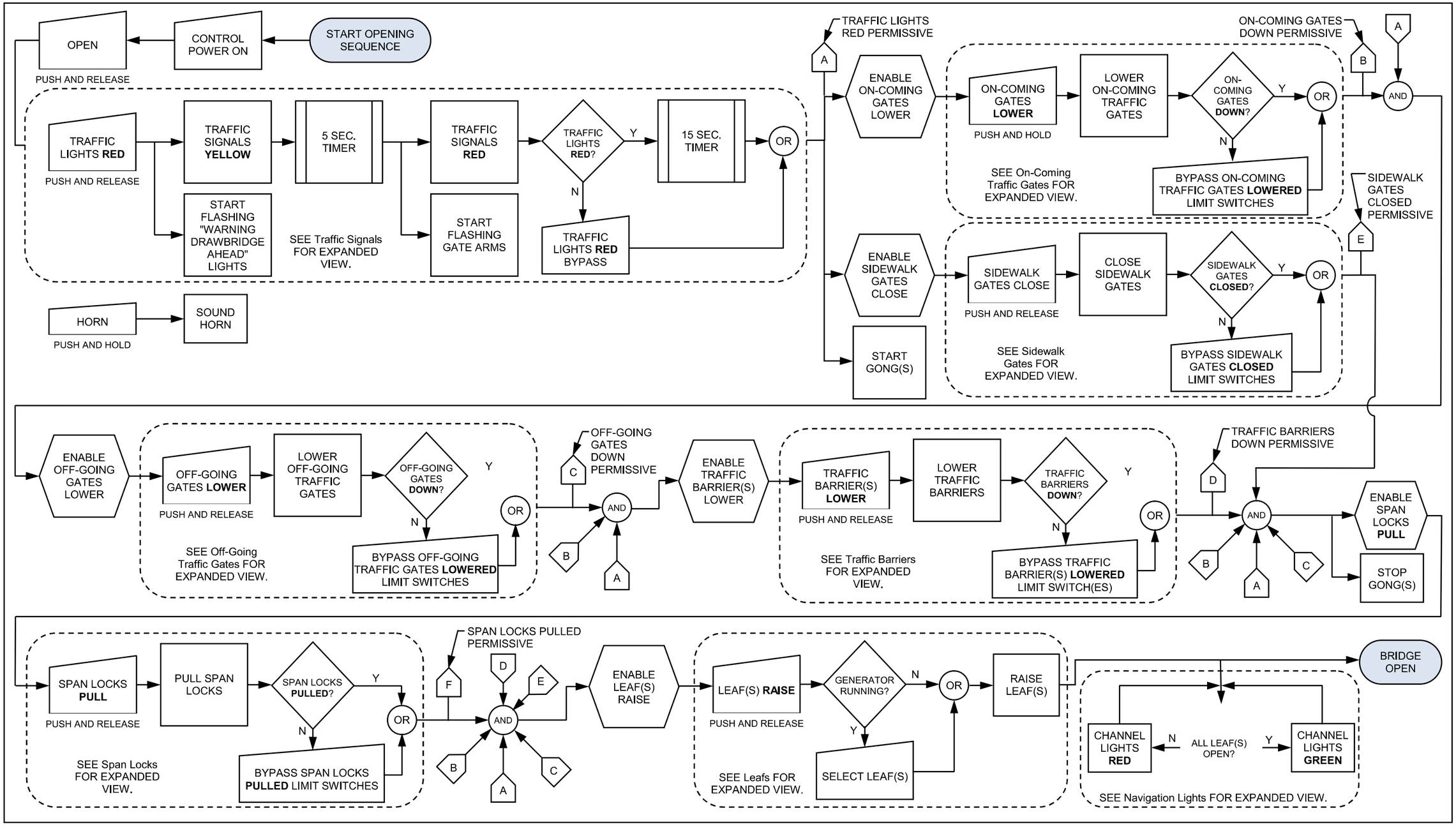
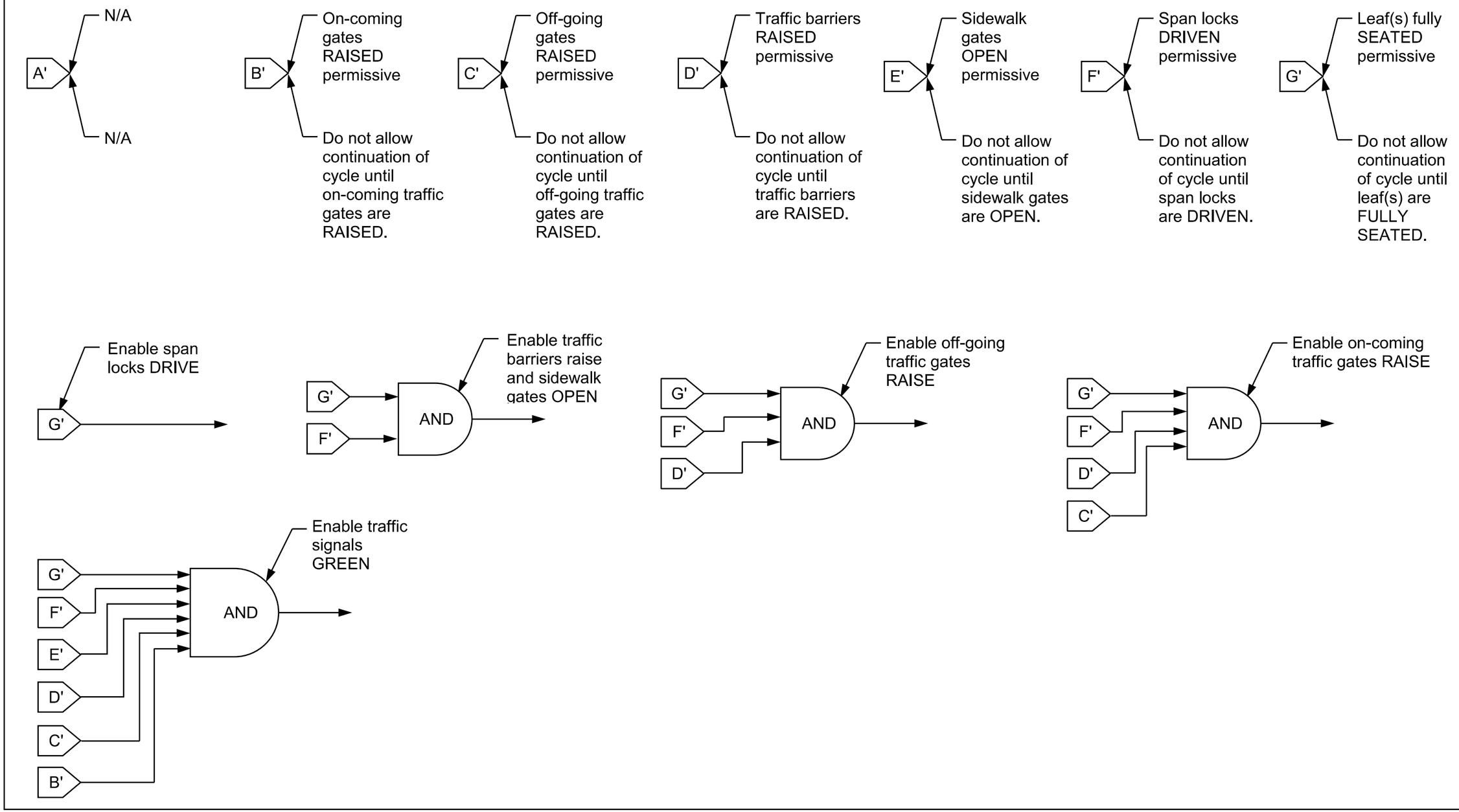
OPENING PERMISSIVES



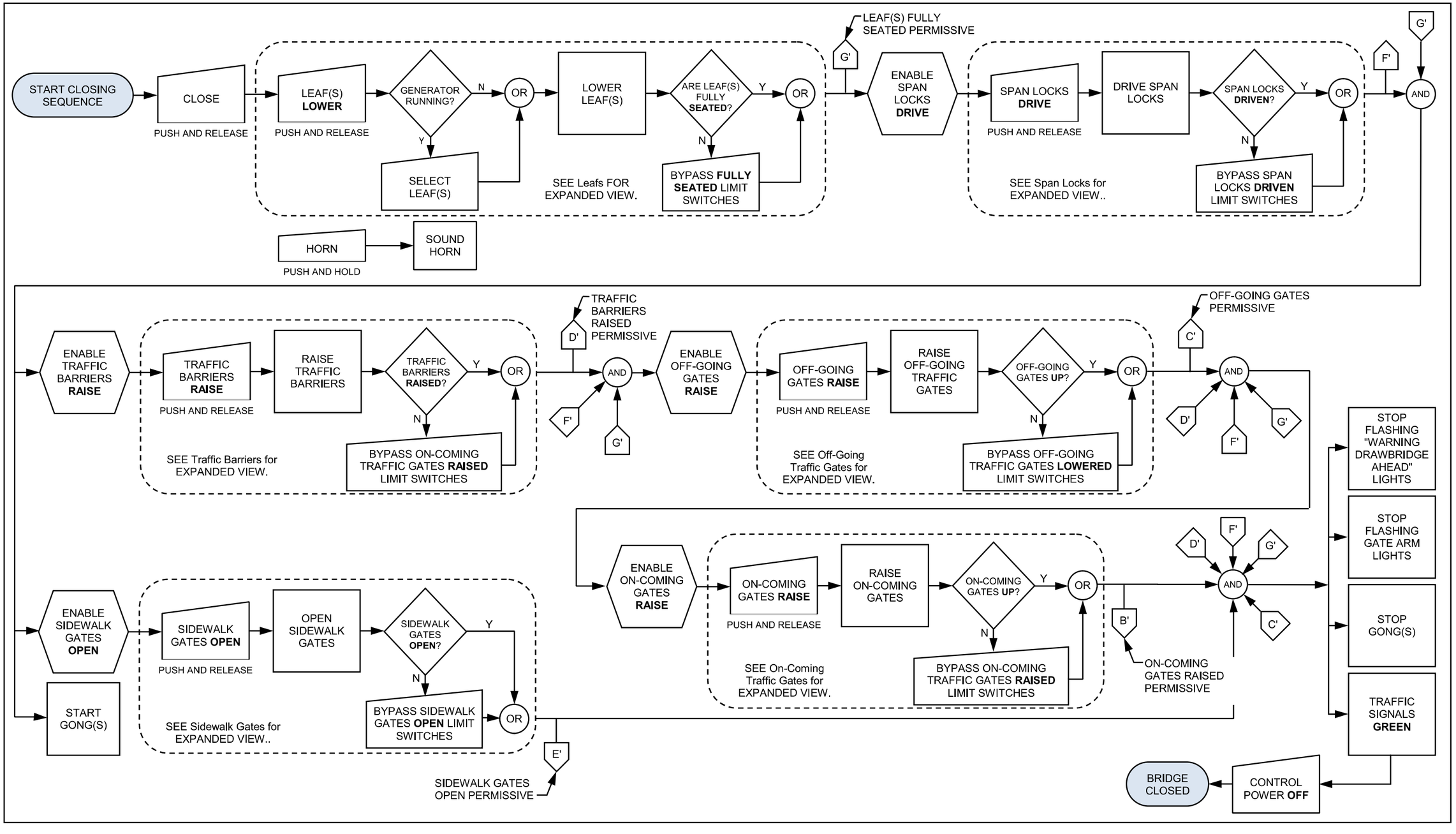
OPENING SEQUENCE



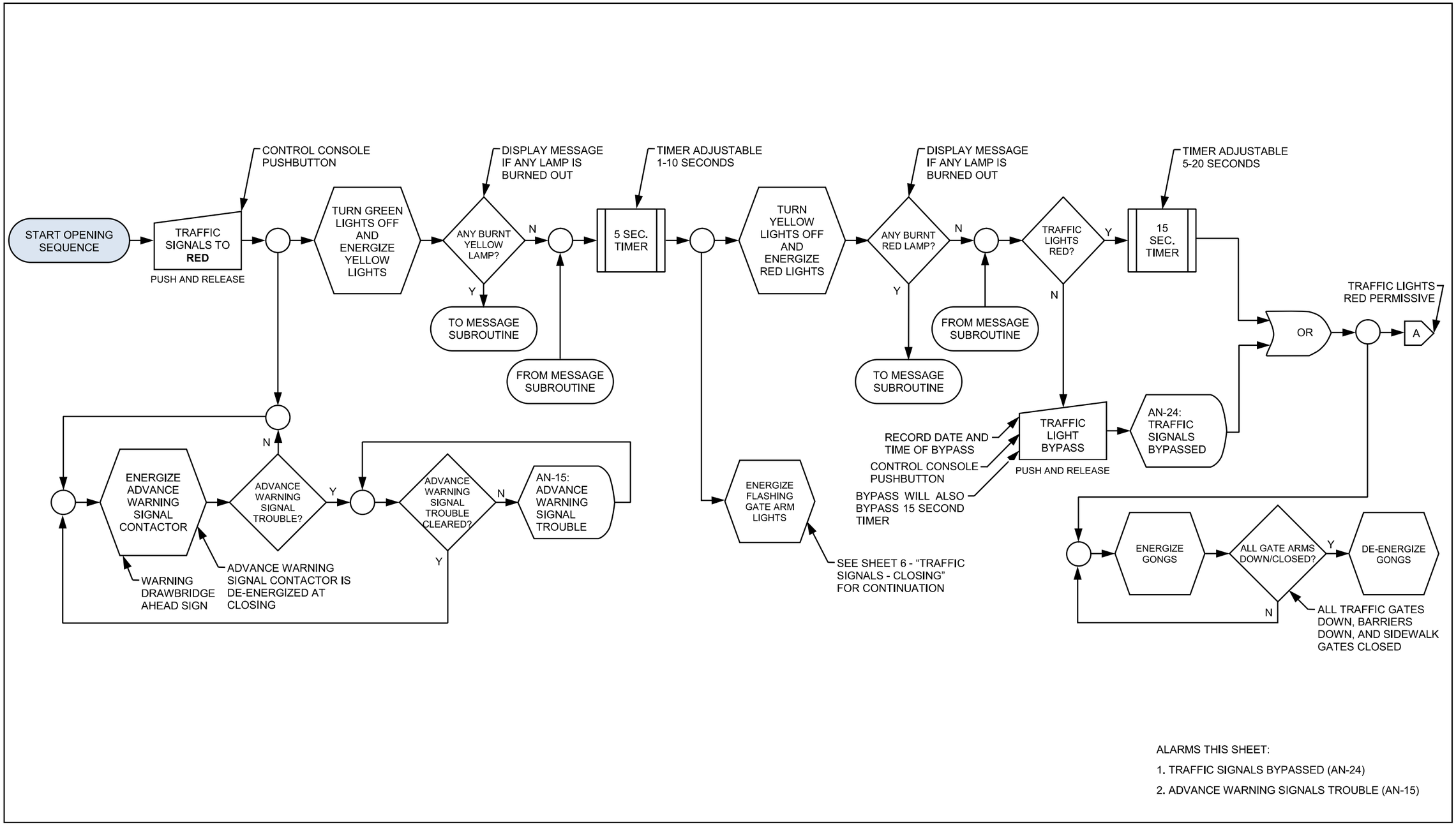
CLOSING PERMISSIVES



CLOSING SEQUENCE



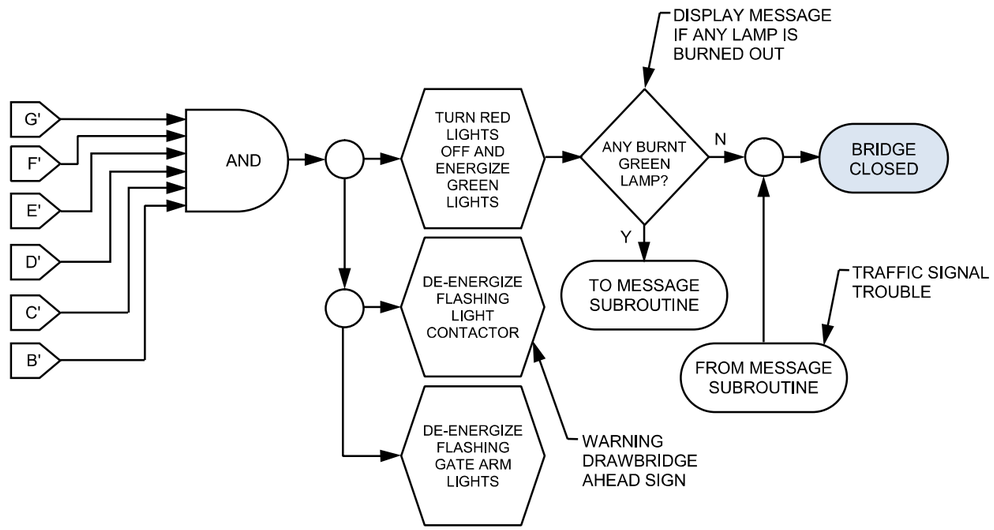
TRAFFIC SIGNALS – OPENING

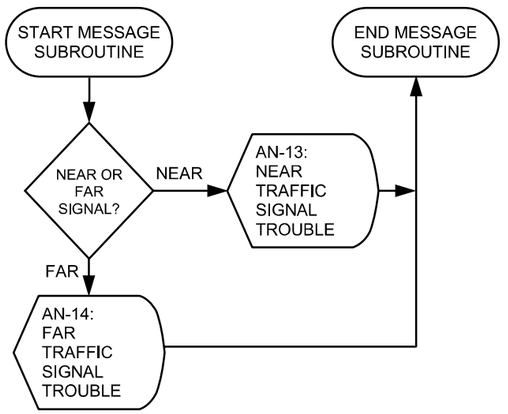


ALARMS THIS SHEET:

1. TRAFFIC SIGNALS BYPASSED (AN-24)
2. ADVANCE WARNING SIGNALS TROUBLE (AN-15)

TRAFFIC SIGNALS – CLOSING





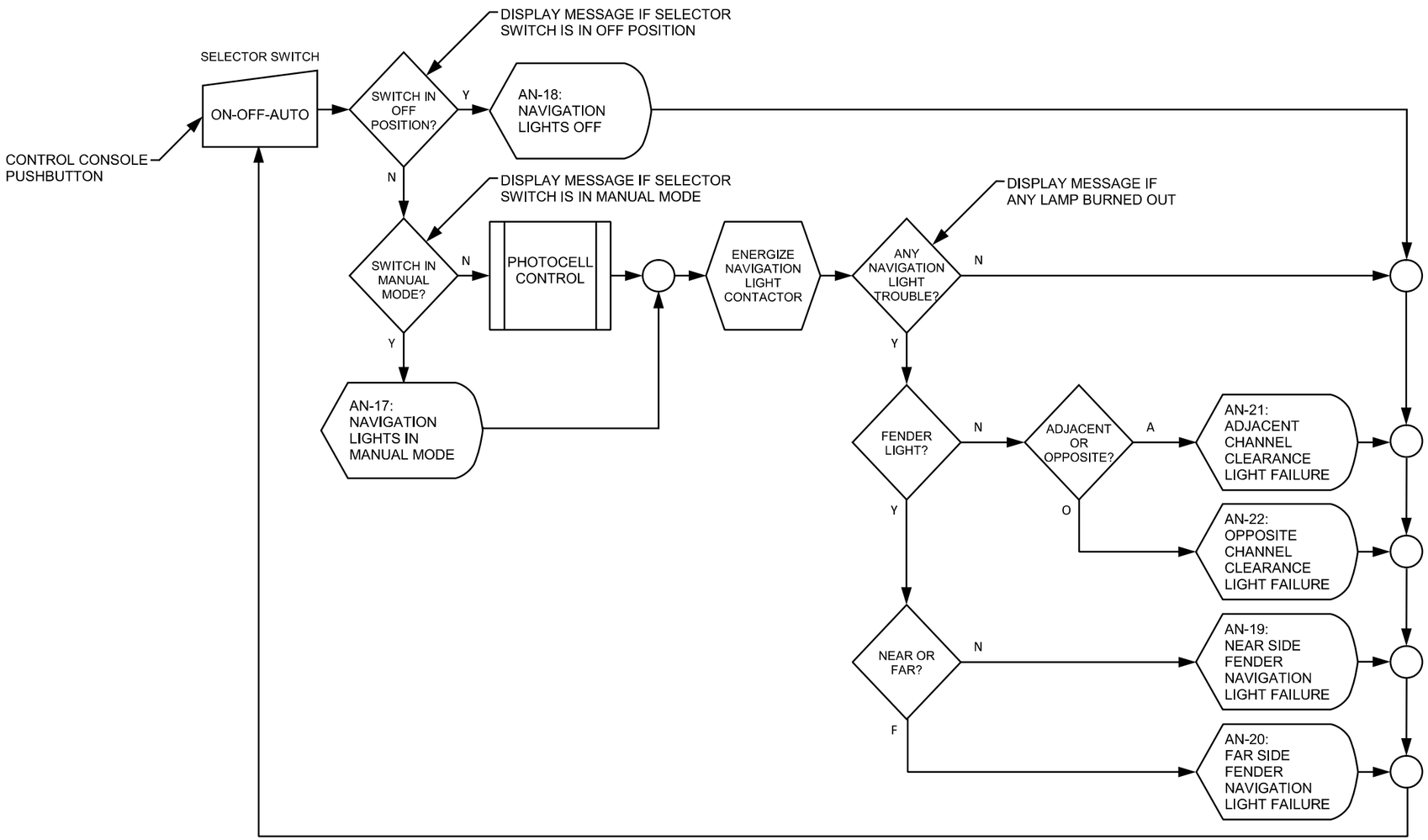
MESSAGE SUBROUTINE

(TRAFFIC SIGNAL TROUBLE)

ALARMS THIS SHEET:

1. TRAFFIC SIGNALS TROUBLE (AN-13, AN-14)

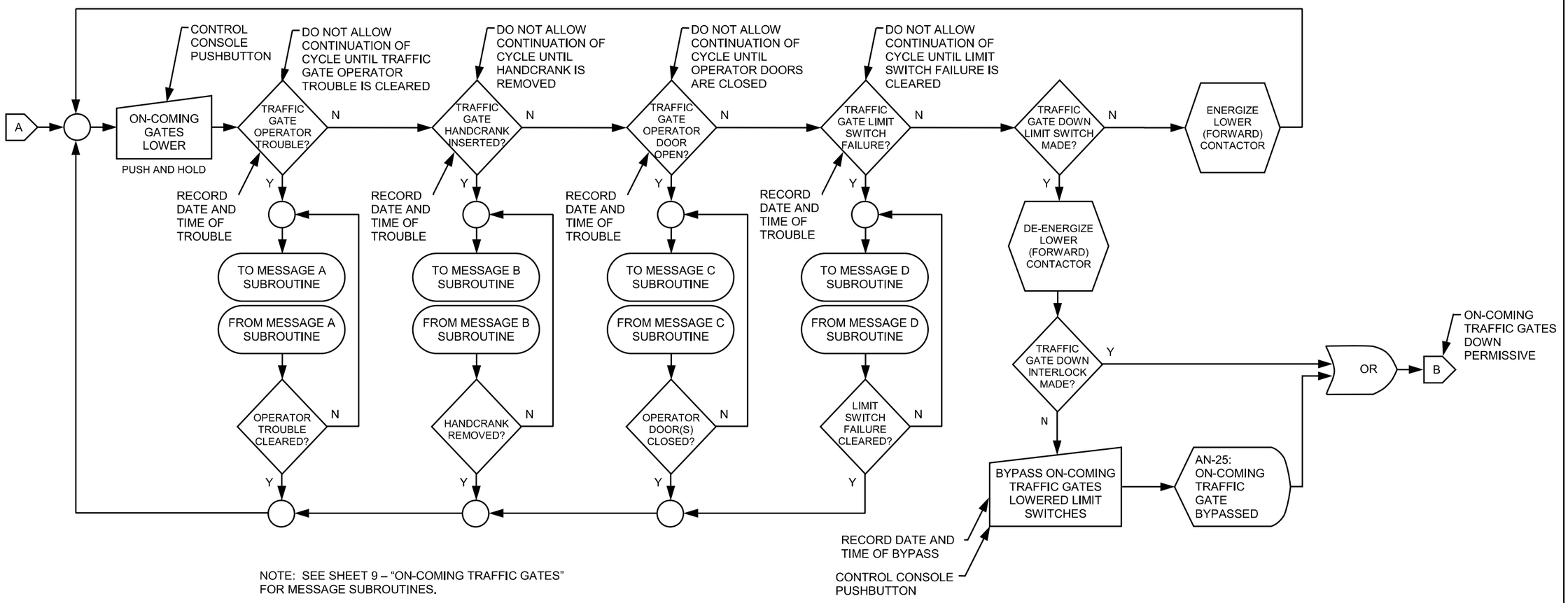
NAVIGATION LIGHTS



ALARMS THIS SHEET:

1. NAVIGATION LIGHTS MODE (AN-17, AN-18)
2. NAVIGATION FENDER LIGHTS FAILURE (AN-19, AN-20)
3. CHANNEL CLEARANCE LIGHTS FAILURE (AN-21, AN-22)

ON-COMING TRAFFIC GATES – OPENING

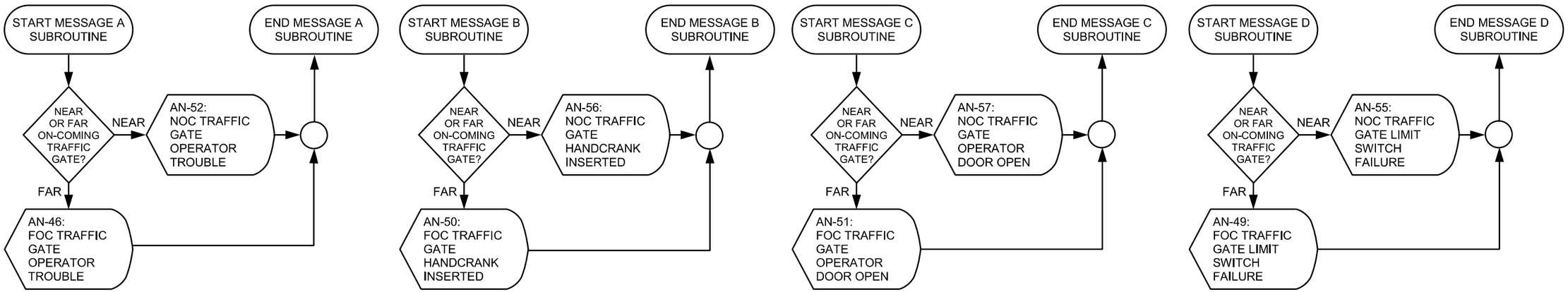


NOTE: SEE SHEET 9 – "ON-COMING TRAFFIC GATES" FOR MESSAGE SUBROUTINES.

ALARMS THIS SHEET:

1. ON-COMING TRAFFIC GATES BYPASSED (AN-25)

ON-COMING TRAFFIC GATES



MESSAGE A SUBROUTINE (ON-COMING TRAFFIC GATE OPERATOR TROUBLE)

MESSAGE B SUBROUTINE (ON-COMING TRAFFIC GATE HANDCRANK INSERTED)

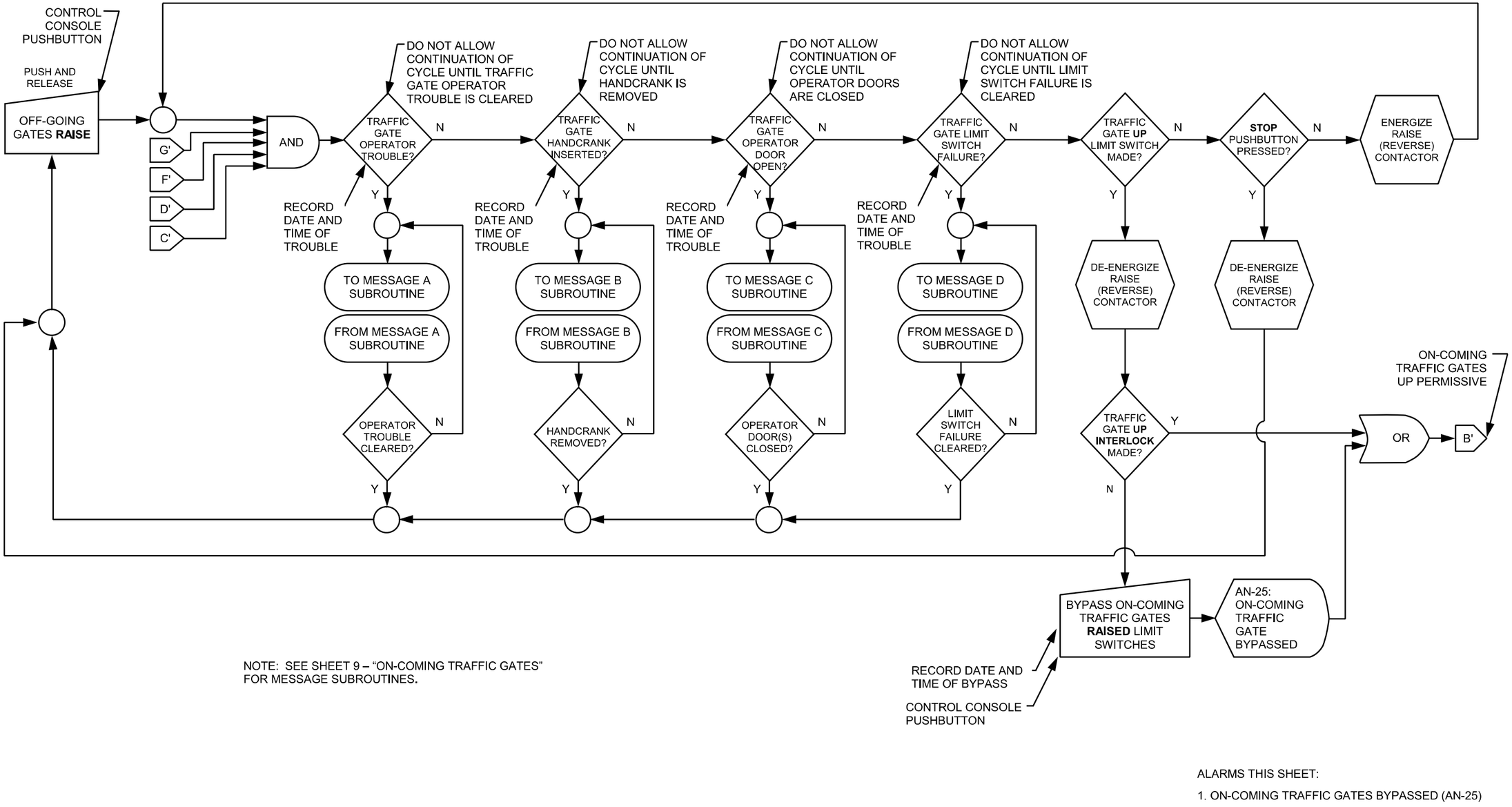
MESSAGE C SUBROUTINE (ON-COMING TRAFFIC GATE OPERATOR DOOR OPEN)

MESSAGE D SUBROUTINE (ON-COMING TRAFFIC GATE LIMIT SWITCH FAILURE)

ALARMS THIS SHEET:

1. TRAFFIC GATE OPERATOR TROUBLE (AN-46, AN-52)
2. TRAFFIC GATE LIMIT SWITCH FAILURE (AN-49, AN-55)
3. TRAFFIC GATE OPERATOR DOOR OPEN (AN-51, AN-57)
4. TRAFFIC GATE HANDCRANK INSERTED (AN-50, AN-56)

ON-COMING TRAFFIC GATES – CLOSING

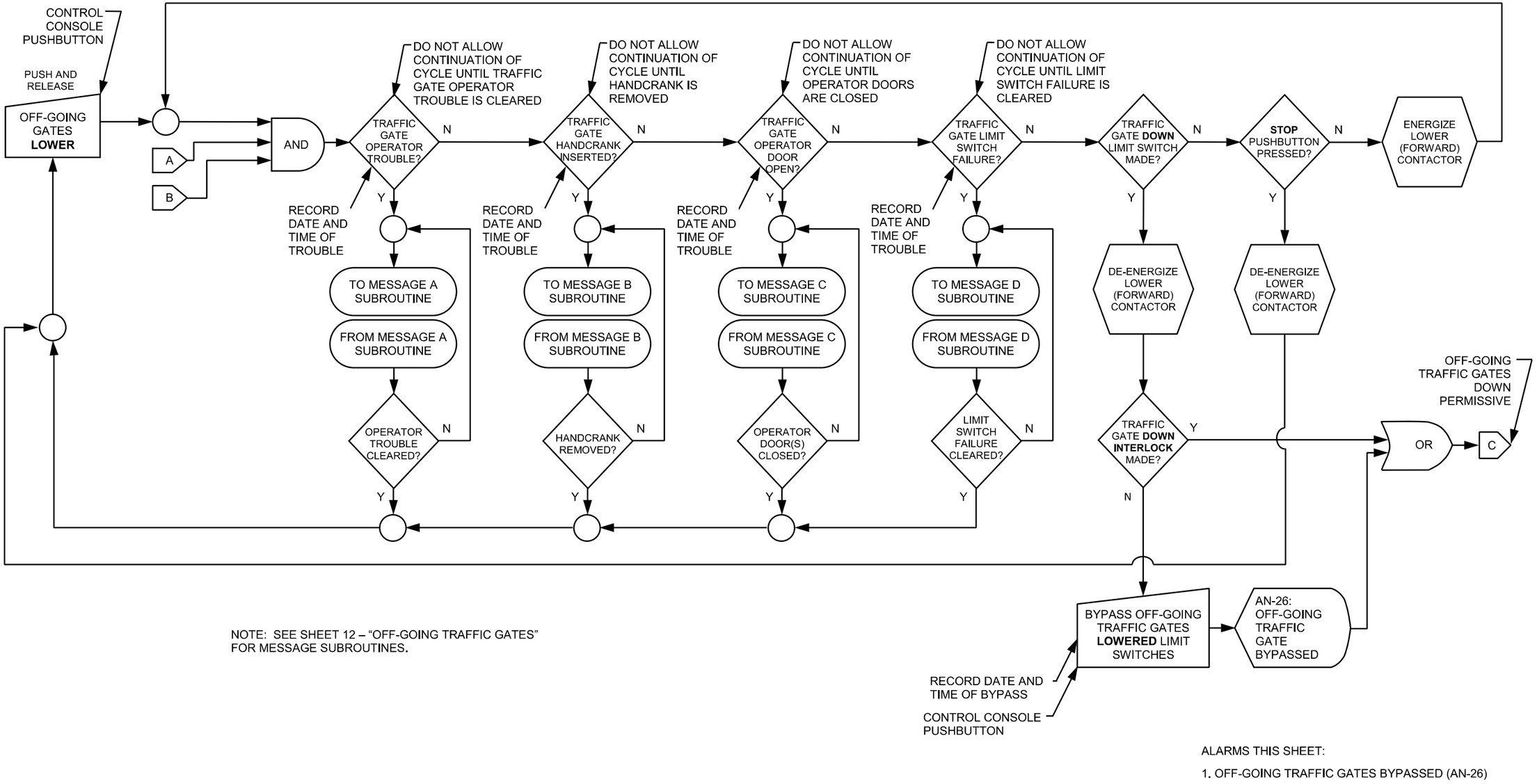


NOTE: SEE SHEET 9 – "ON-COMING TRAFFIC GATES" FOR MESSAGE SUBROUTINES.

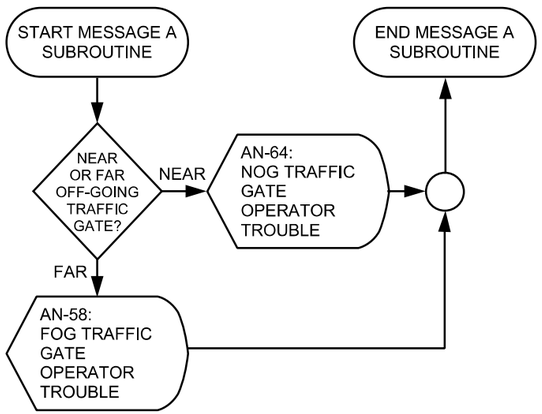
ALARMS THIS SHEET:

1. ON-COMING TRAFFIC GATES BYPASSED (AN-25)

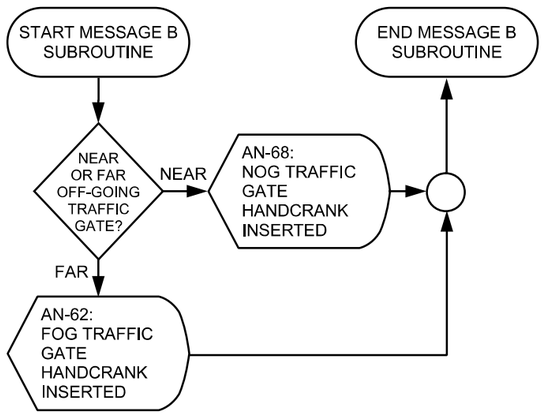
OFF – GOING TRAFFIC GATES – OPENING



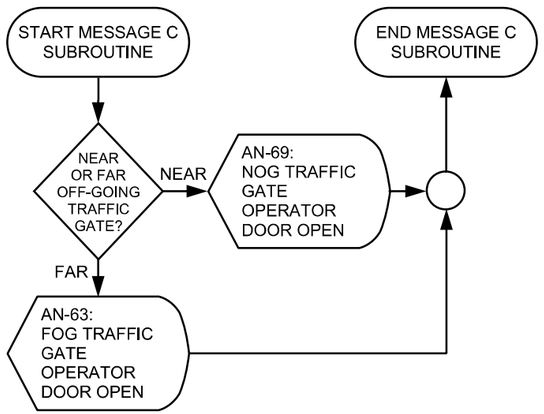
OFF – GOING TRAFFIC GATES



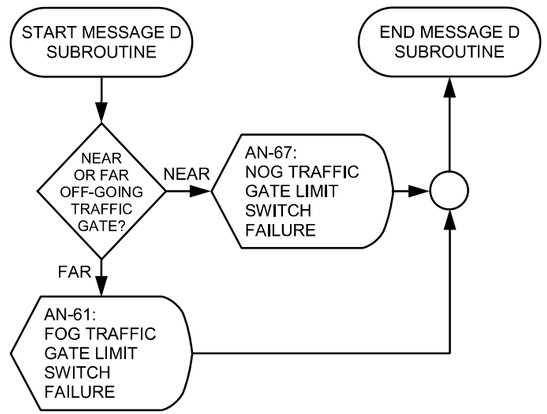
MESSAGE A SUBROUTINE (OFF-GOING TRAFFIC GATE OPERATOR TROUBLE)



MESSAGE B SUBROUTINE (OFF-GOING TRAFFIC GATE HANDCRANK INSERTED)



MESSAGE C SUBROUTINE (OFF-GOING TRAFFIC GATE OPERATOR DOOR OPEN)

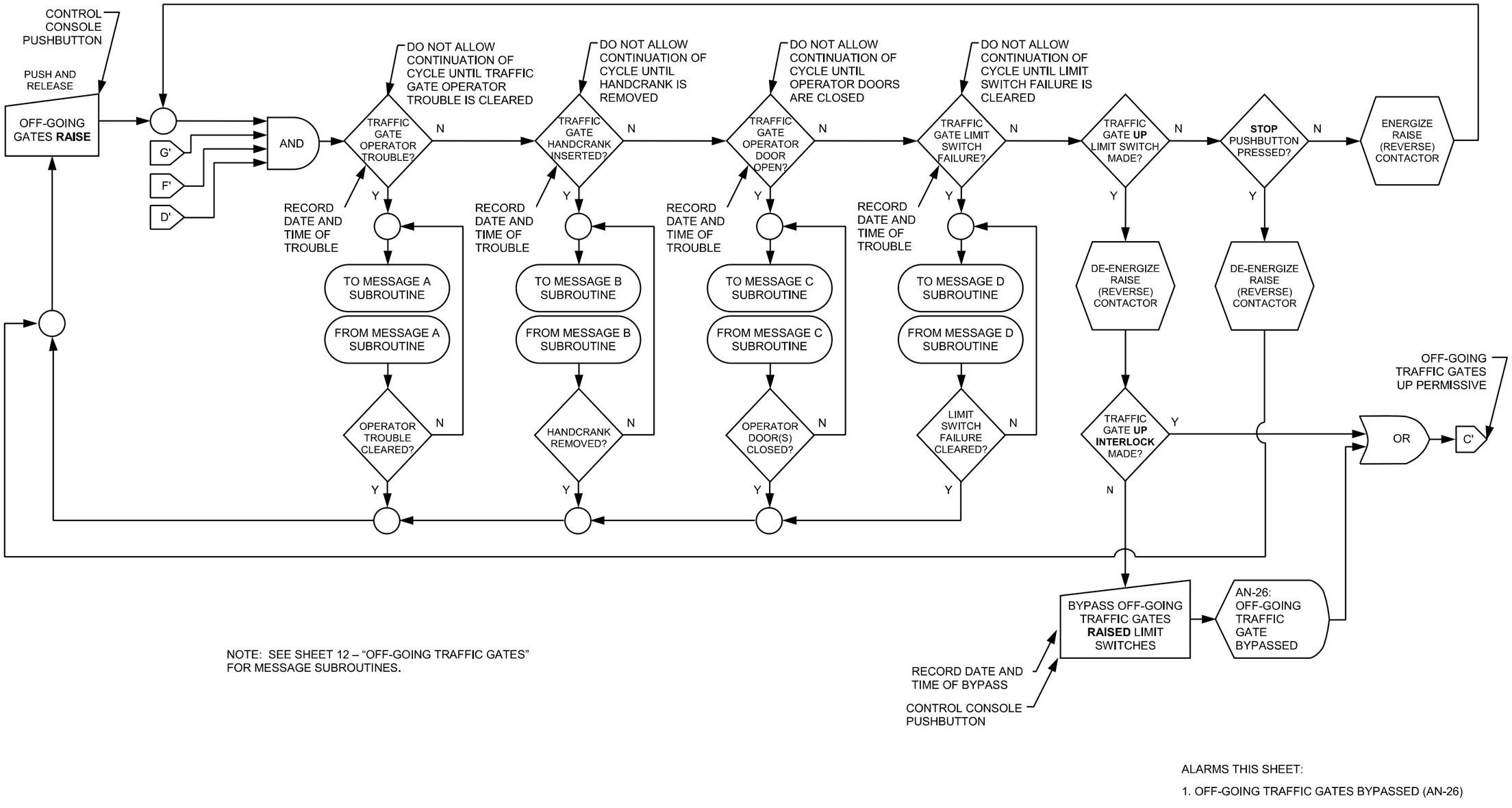


MESSAGE D SUBROUTINE (OFF-GOING TRAFFIC GATE LIMIT SWITCH FAILURE)

ALARMS THIS SHEET:

1. TRAFFIC GATE OPERATOR TROUBLE (AN-58, AN-64)
2. TRAFFIC GATE LIMIT SWITCH FAILURE (AN-61, AN-67)
3. TRAFFIC GATE OPERATOR DOOR OPEN (AN-63, AN-69)
4. TRAFFIC GATE HANDCRANK INSERTED (AN-62, AN-68)

OFF – GOING TRAFFIC GATES – CLOSING

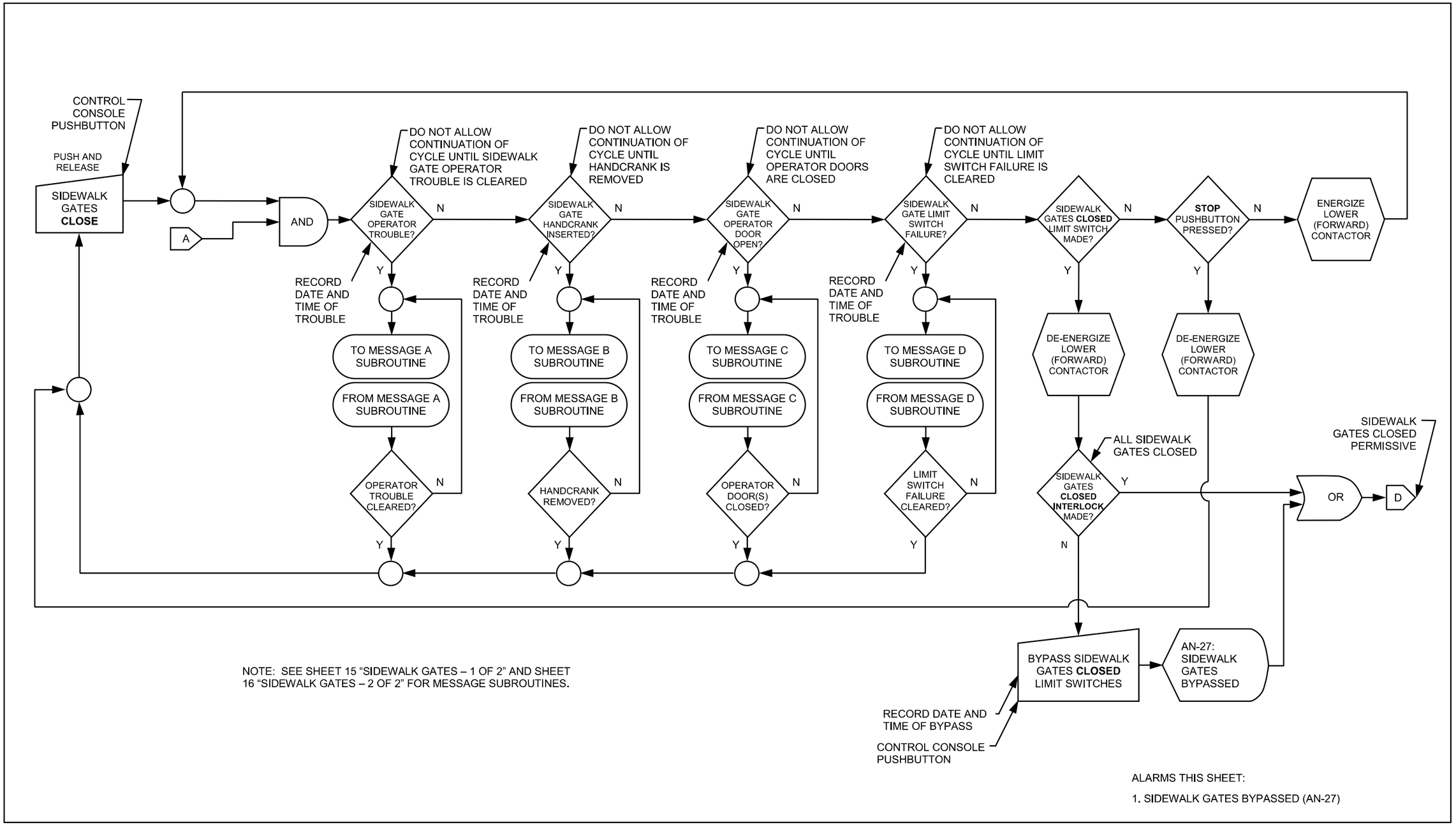


NOTE: SEE SHEET 12 – "OFF-GOING TRAFFIC GATES" FOR MESSAGE SUBROUTINES.

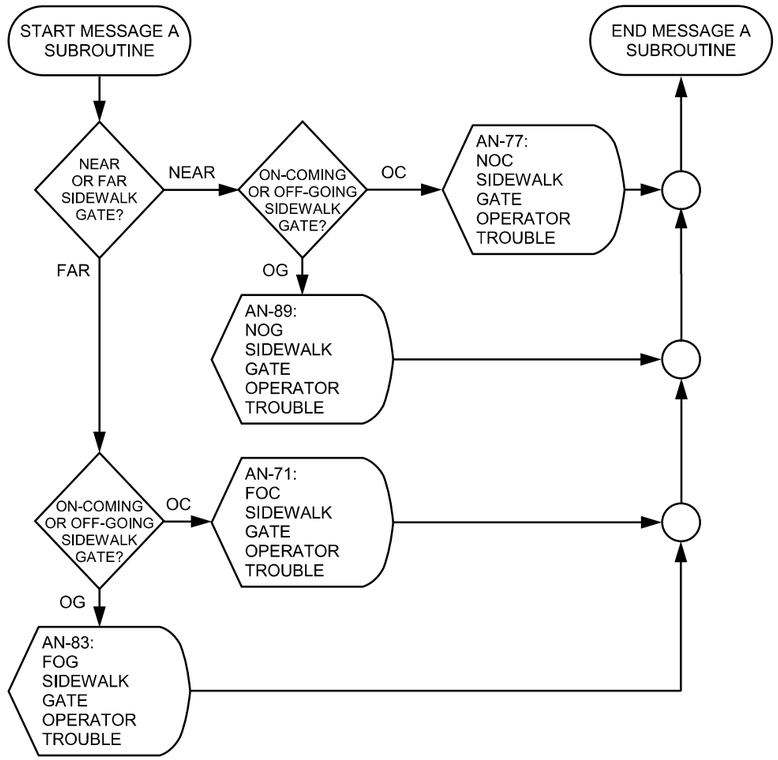
ALARMS THIS SHEET:

1. OFF-GOING TRAFFIC GATES BYPASSED (AN-26)

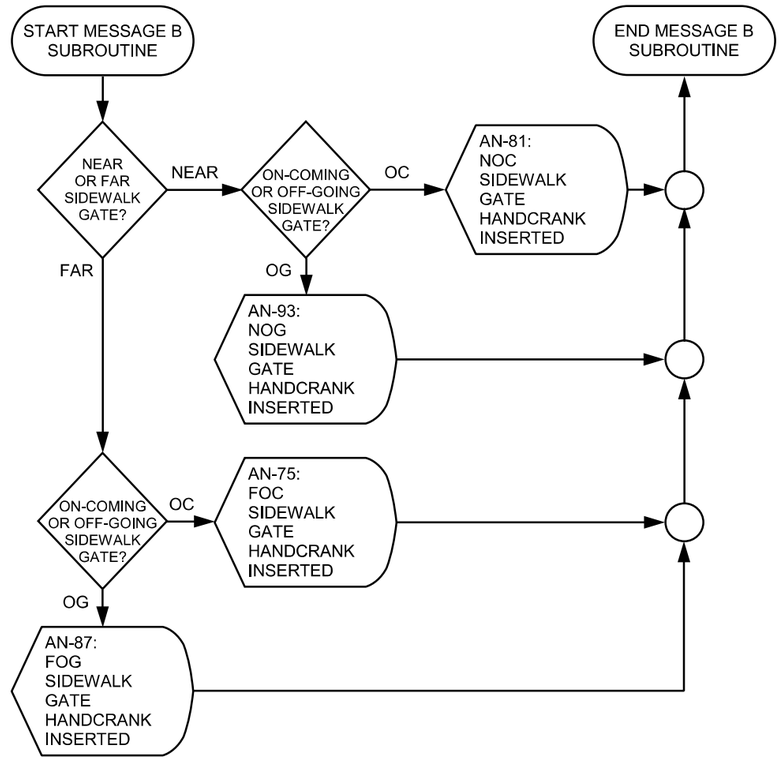
SIDEWALK GATES – OPENING



SIDEWALK GATES – 1 OF 2



MESSAGE A SUBROUTINE
(SIDEWALK GATE OPERATOR TROUBLE)

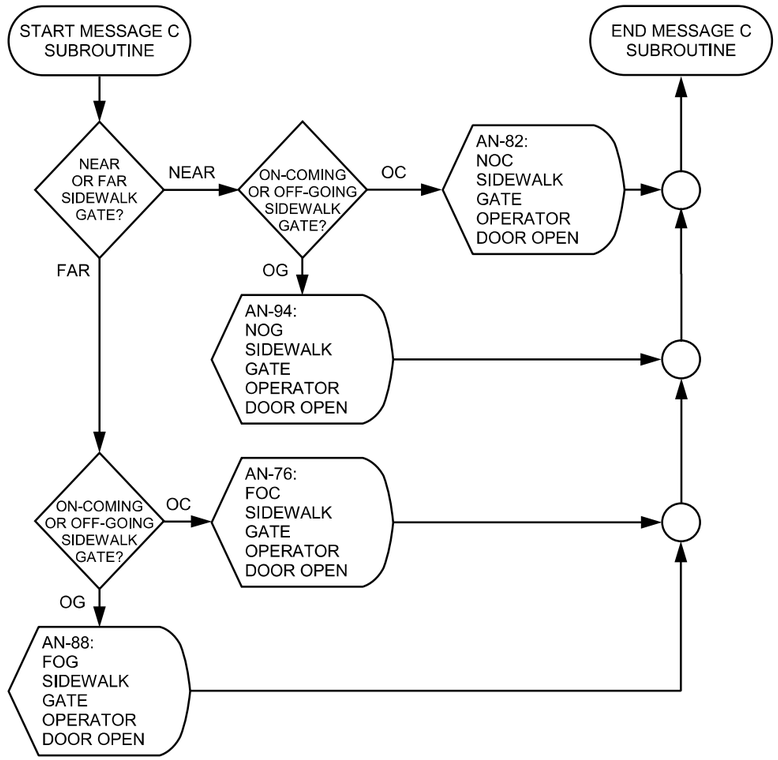


MESSAGE B SUBROUTINE
(SIDEWALK GATE HANDCRANK INSERTED)

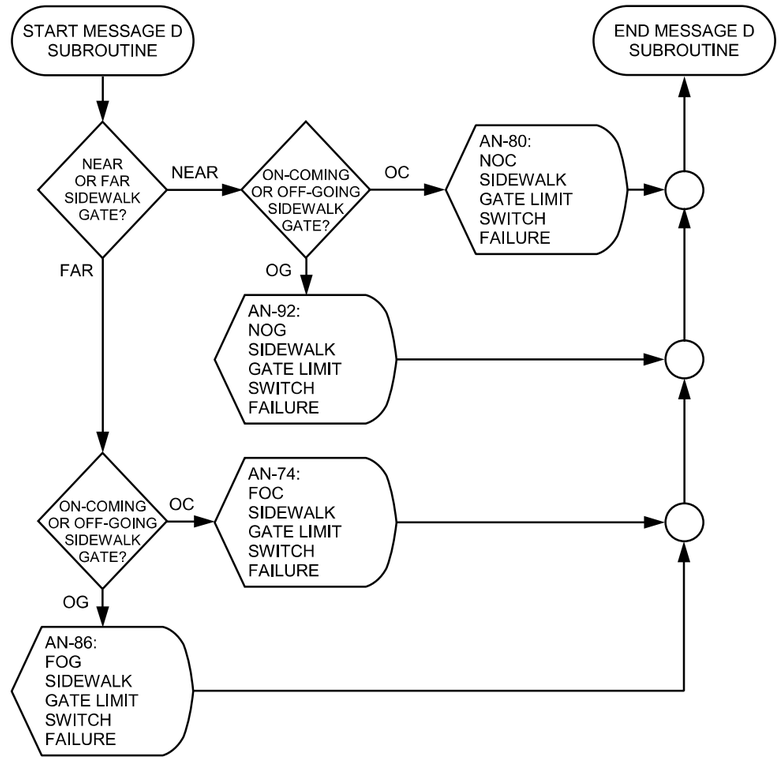
ALARMS THIS SHEET:

1. SIDEWALK GATE OPERATOR TROUBLE (AN-71, AN-77, AN-83, AN-89)
2. SIDEWALK GATE HANDCRANK INSERTED (AN-75, AN-81, AN-87, AN-93)

SIDEWALK GATES – 2 OF 2



MESSAGE C SUBROUTINE
(SIDEWALK GATE OPERATOR DOOR OPEN)

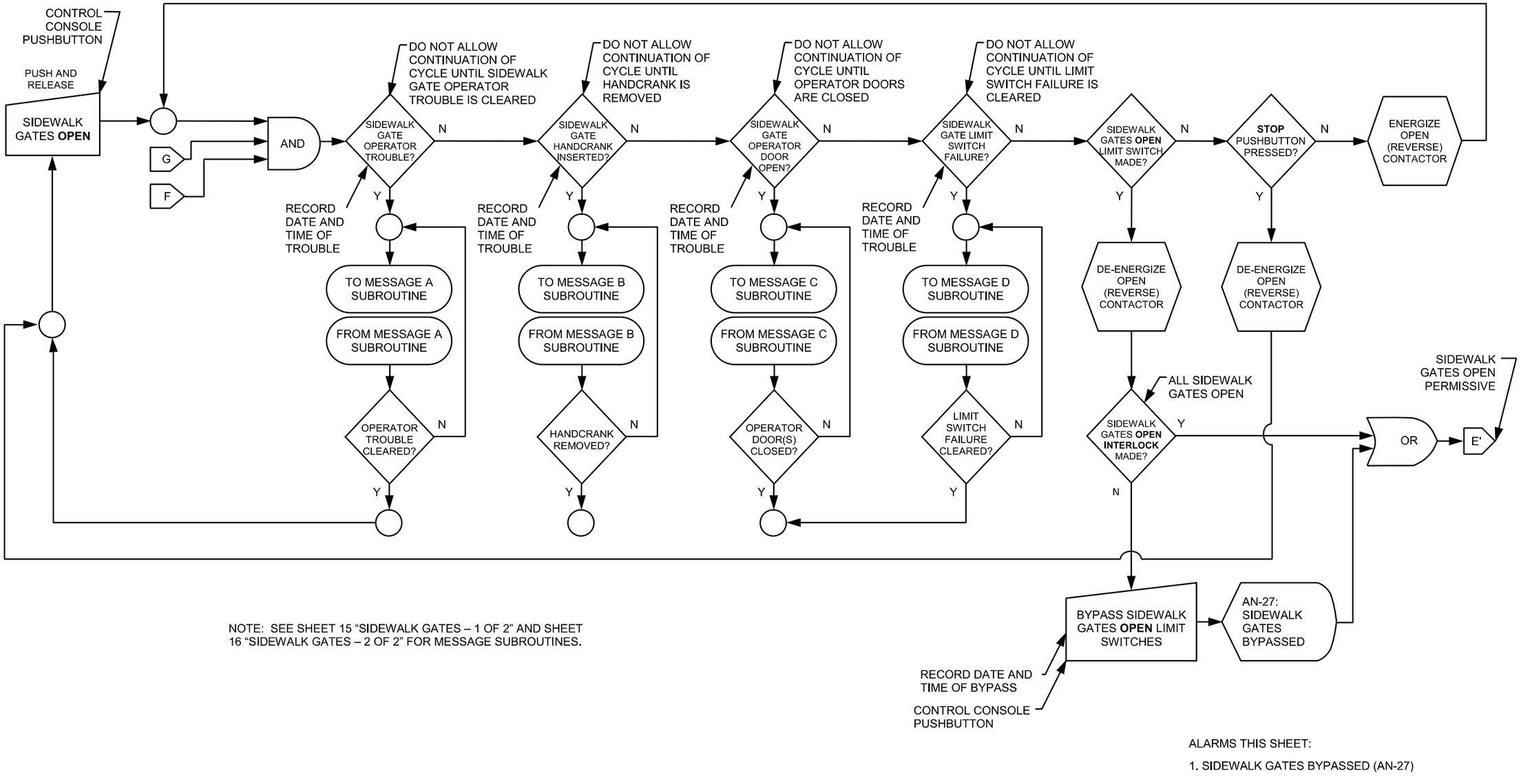


MESSAGE D SUBROUTINE
(SIDEWALK GATE LIMIT SWITCH FAILURE)

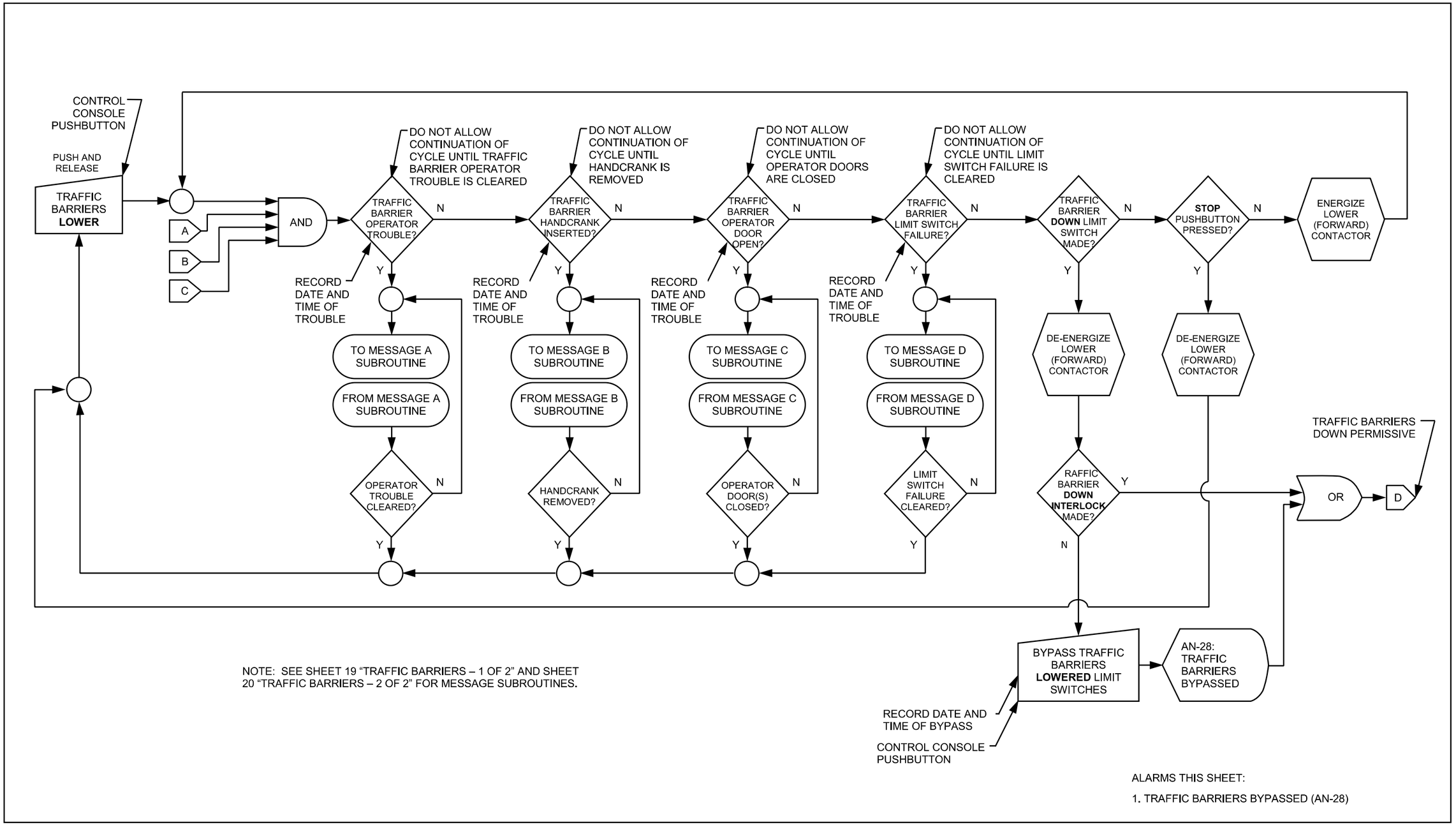
ALARMS THIS SHEET:

1. SIDEWALK GATE OPERATOR DOOR OPEN (AN-76, AN-82, AN-88, AN-94)
2. SIDEWALK GATE LIMIT SWITCH FAILURE (AN-74, AN-80, AN-86, AN-92)

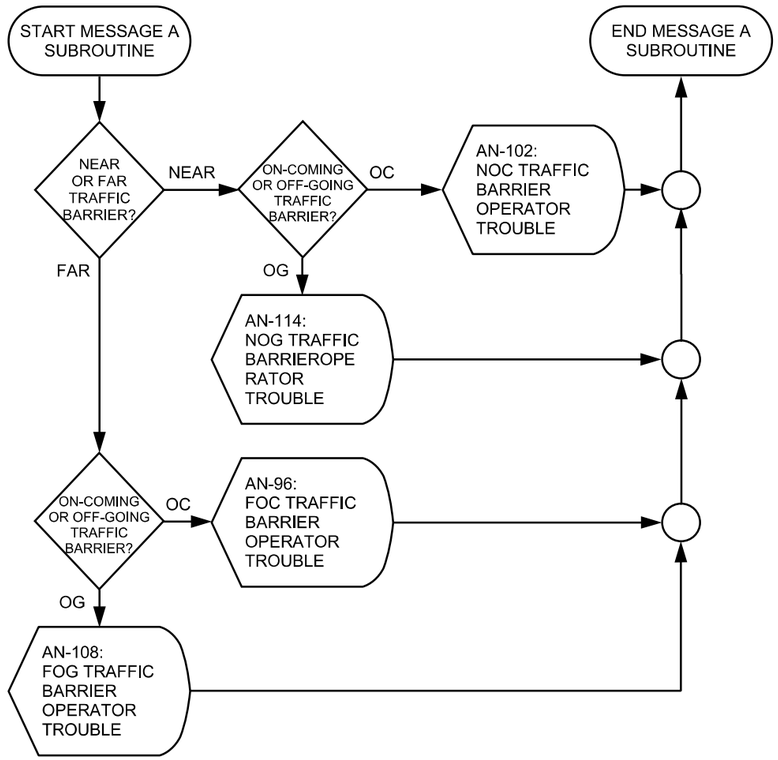
SIDEWALK GATES – CLOSING



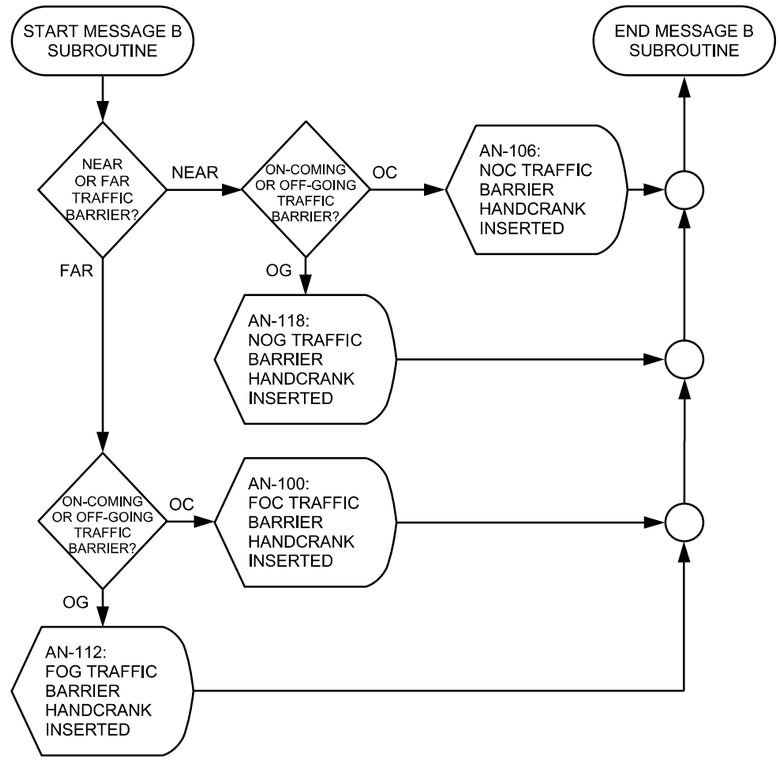
TRAFFIC BARRIERS – OPENING



TRAFFIC BARRIERS – 1 OF 2



MESSAGE A SUBROUTINE
(TRAFFIC BARRIER OPERATOR TROUBLE)

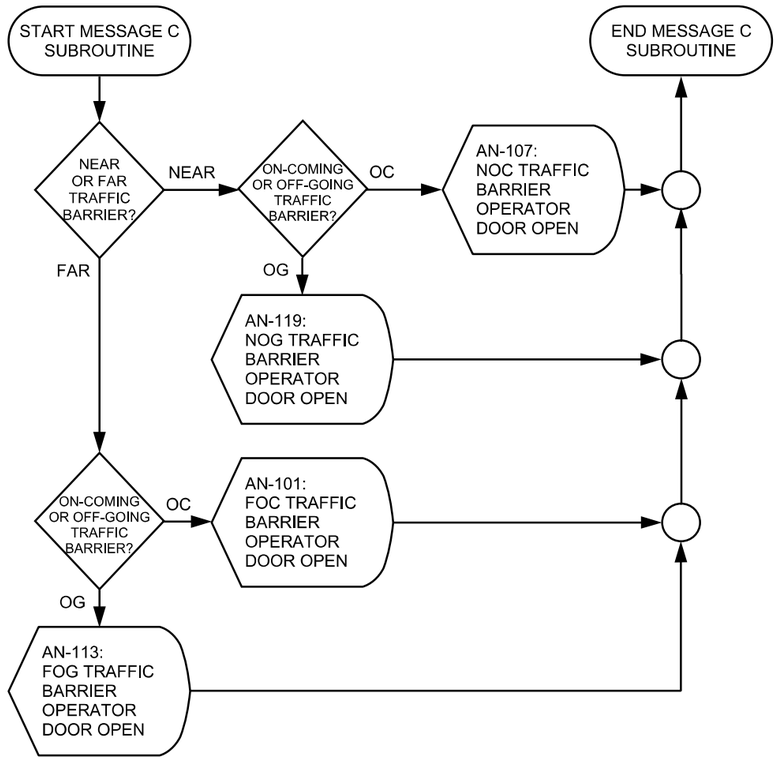


MESSAGE B SUBROUTINE
(TRAFFIC BARRIER HANDCRANK INSERTED)

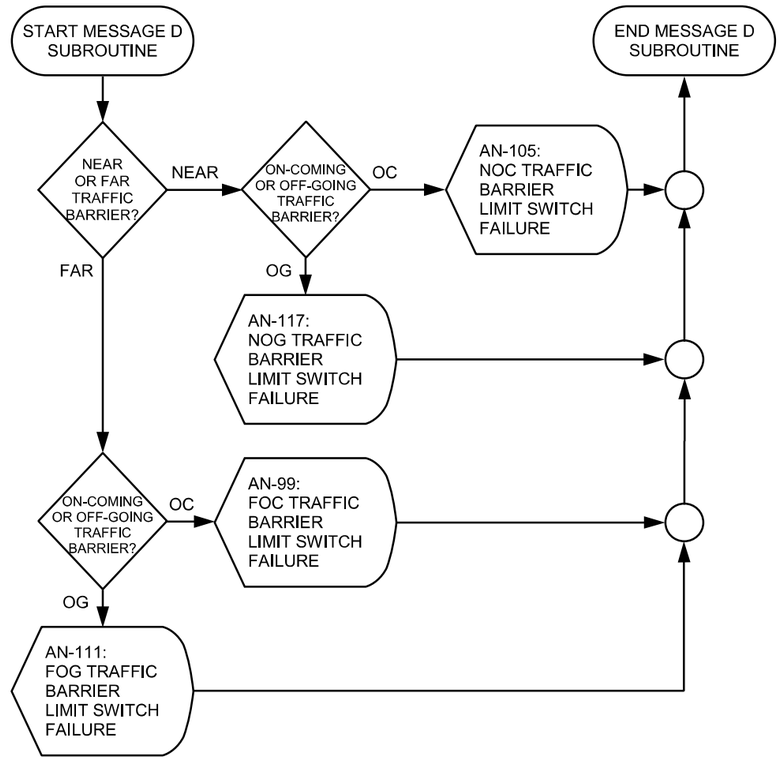
ALARMS THIS SHEET:

1. TRAFFIC BARRIER OPERATOR TROUBLE (AN-96, AN-102, AN-108, AN-114)
2. TRAFFIC BARRIER HANDCRANK INSERTED (AN-100, AN-106, AN-112, AN-118)

TRAFFIC BARRIERS – 2 OF 2



MESSAGE C SUBROUTINE
(TRAFFIC BARRIER OPERATOR DOOR OPEN)

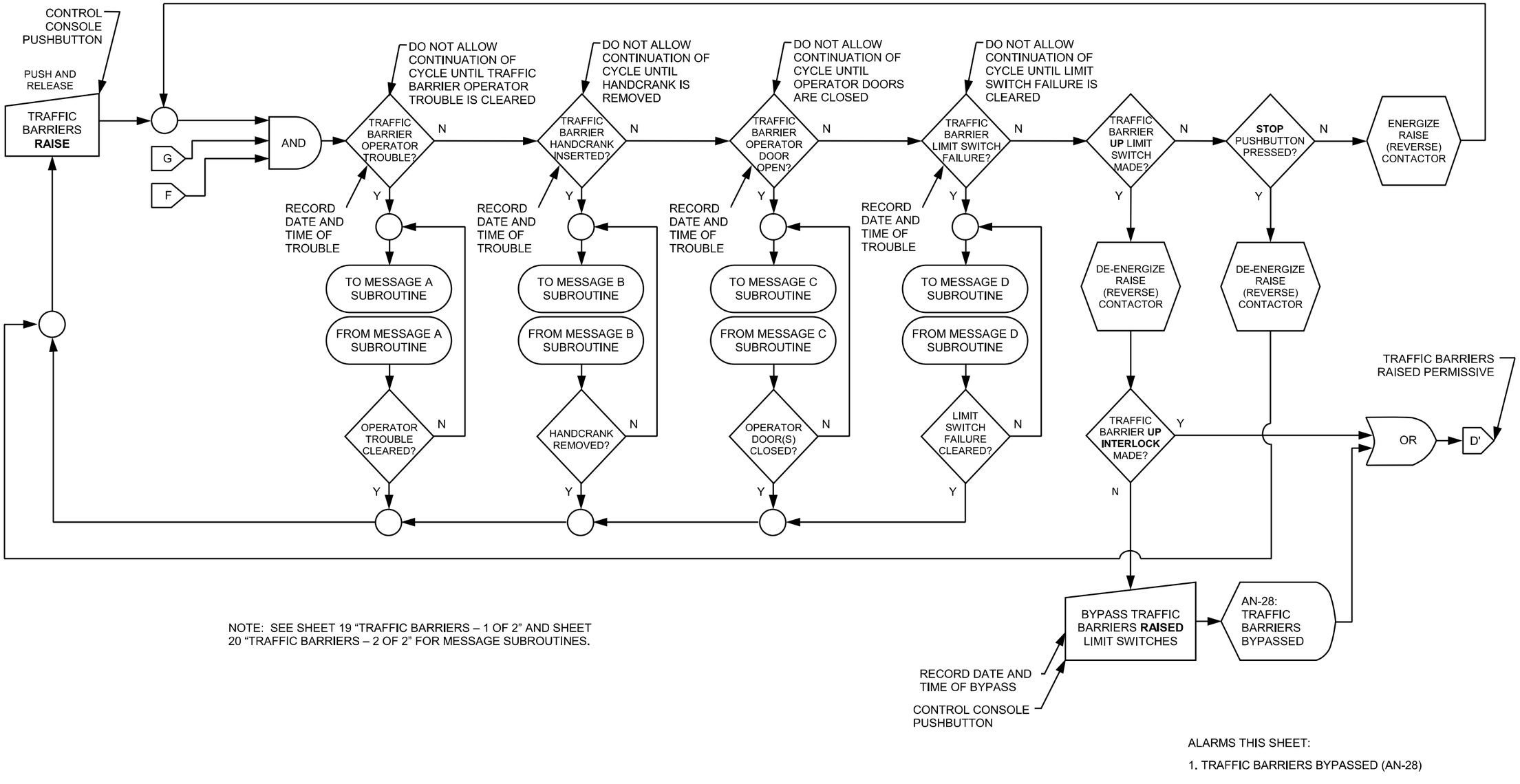


MESSAGE D SUBROUTINE
(TRAFFIC BARRIER LIMIT SWITCH FAILURE)

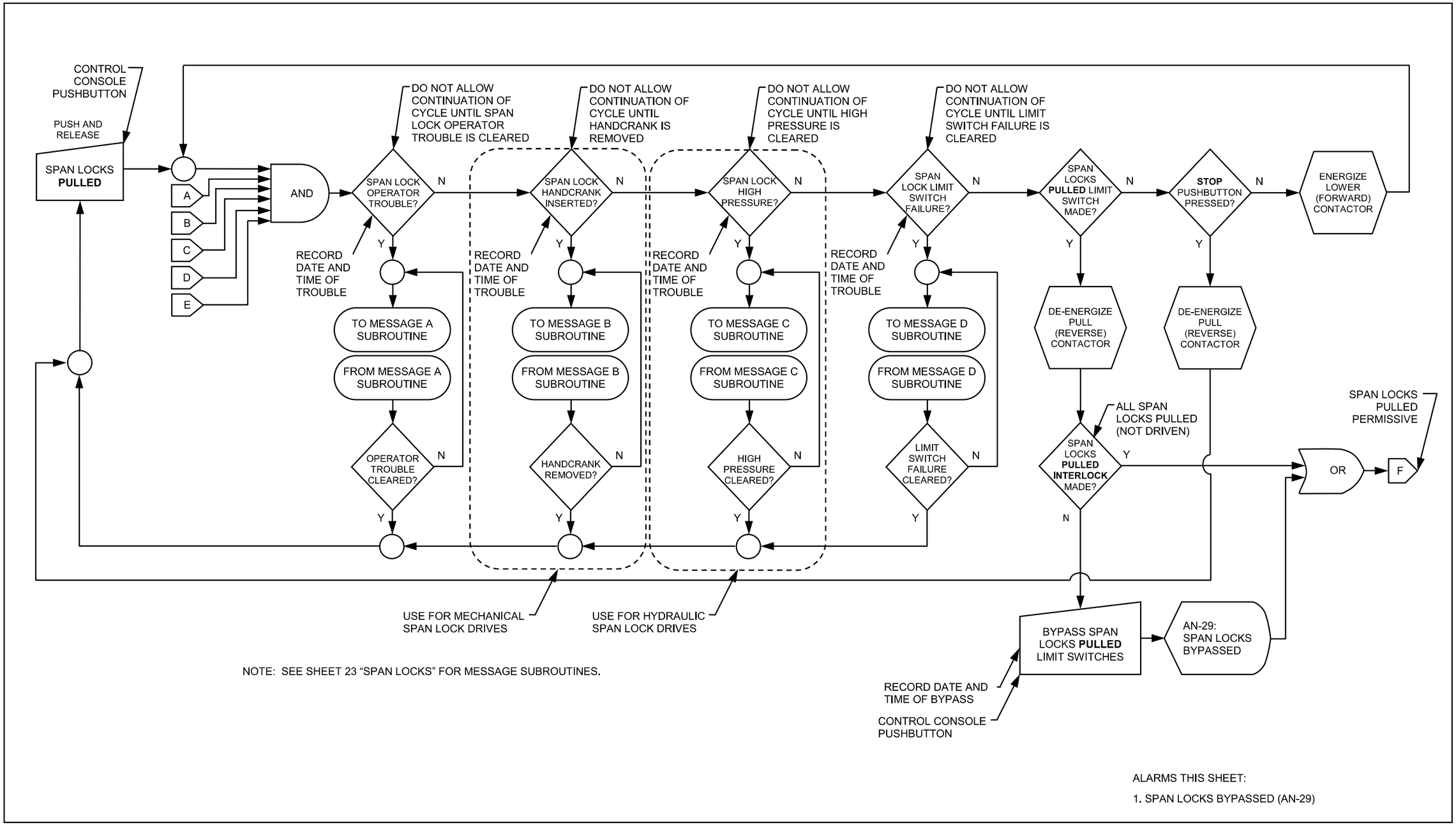
ALARMS THIS SHEET:

1. TRAFFIC BARRIER OPERATOR DOOR OPEN (AN-101, AN-107, AN-113, AN-119)
2. TRAFFIC BARRIER LIMIT SWITCH FAILURE (AN-99, AN-105, AN-111, AN-117)

TRAFFIC BARRIERS – CLOSING



SPAN LOCKS – OPENING

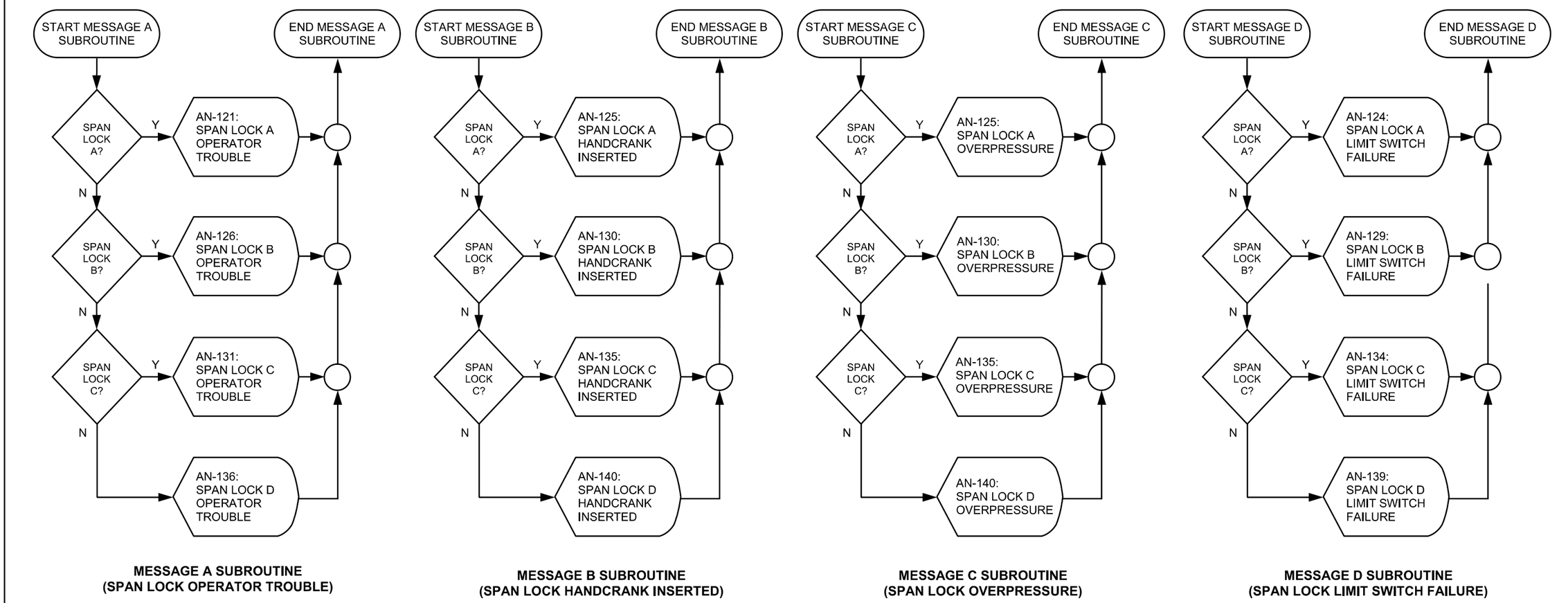


NOTE: SEE SHEET 23 “SPAN LOCKS” FOR MESSAGE SUBROUTINES.

ALARMS THIS SHEET:

1. SPAN LOCKS BYPASSED (AN-29)

SPAN LOCKS



MESSAGE A SUBROUTINE
(SPAN LOCK OPERATOR TROUBLE)

MESSAGE B SUBROUTINE
(SPAN LOCK HANDCRANK INSERTED)

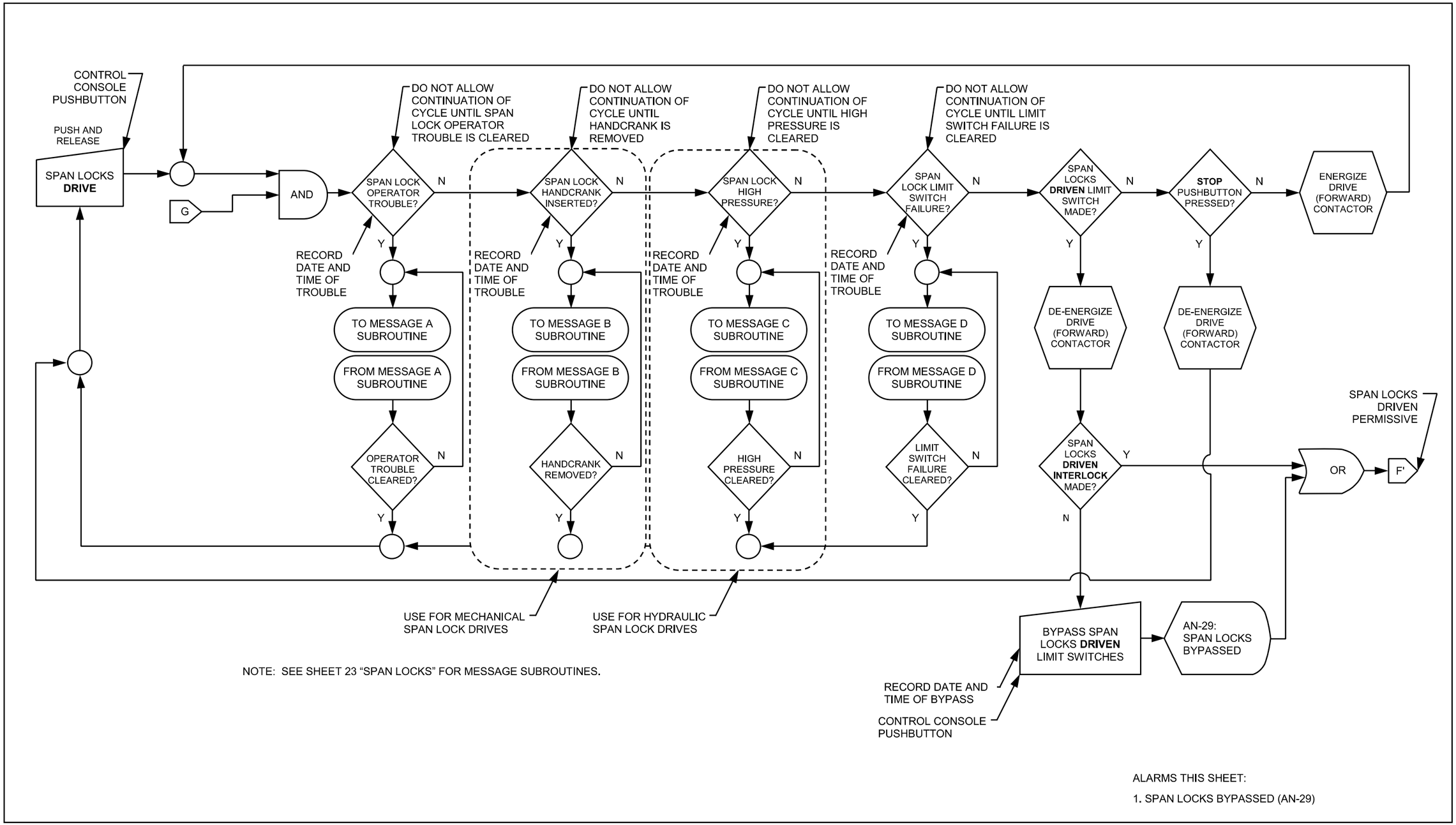
MESSAGE C SUBROUTINE
(SPAN LOCK OVERPRESSURE)

MESSAGE D SUBROUTINE
(SPAN LOCK LIMIT SWITCH FAILURE)

ALARMS THIS SHEET:

1. SPAN LOCK OPERATOR TROUBLE (AN-121, AN-126, AN-131, AN-136)
2. SPAN LOCK HANDCRANK INSERTED OR OVERPRESSURE (AN-125, AN-130, AN-135, AN-140)
3. SPAN LOCK LIMIT SWITCH FAILURE (AN-124, AN-129, AN-134, AN-139)

SPAN LOCKS – CLOSING

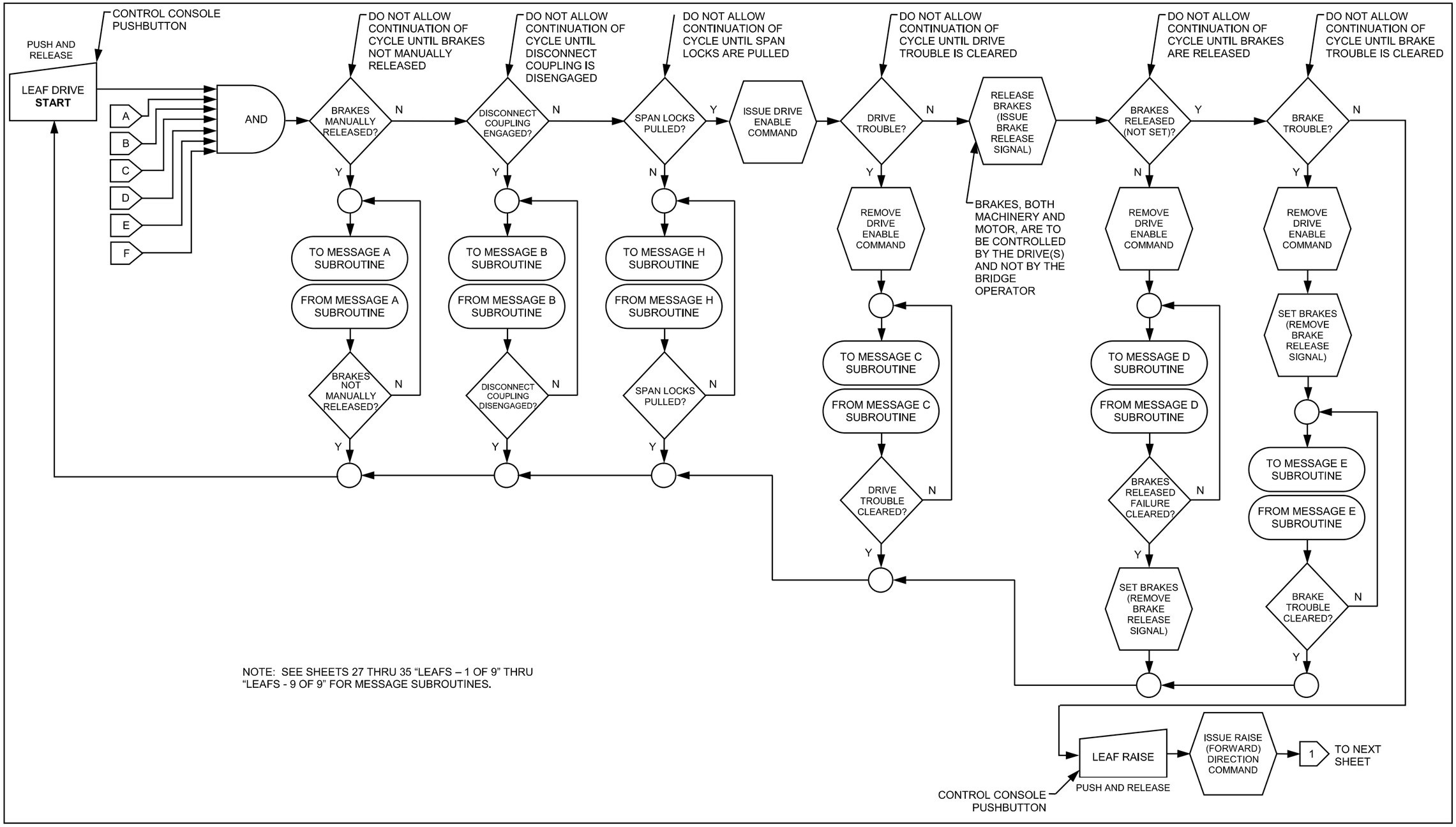


NOTE: SEE SHEET 23 “SPAN LOCKS” FOR MESSAGE SUBROUTINES.

ALARMS THIS SHEET:

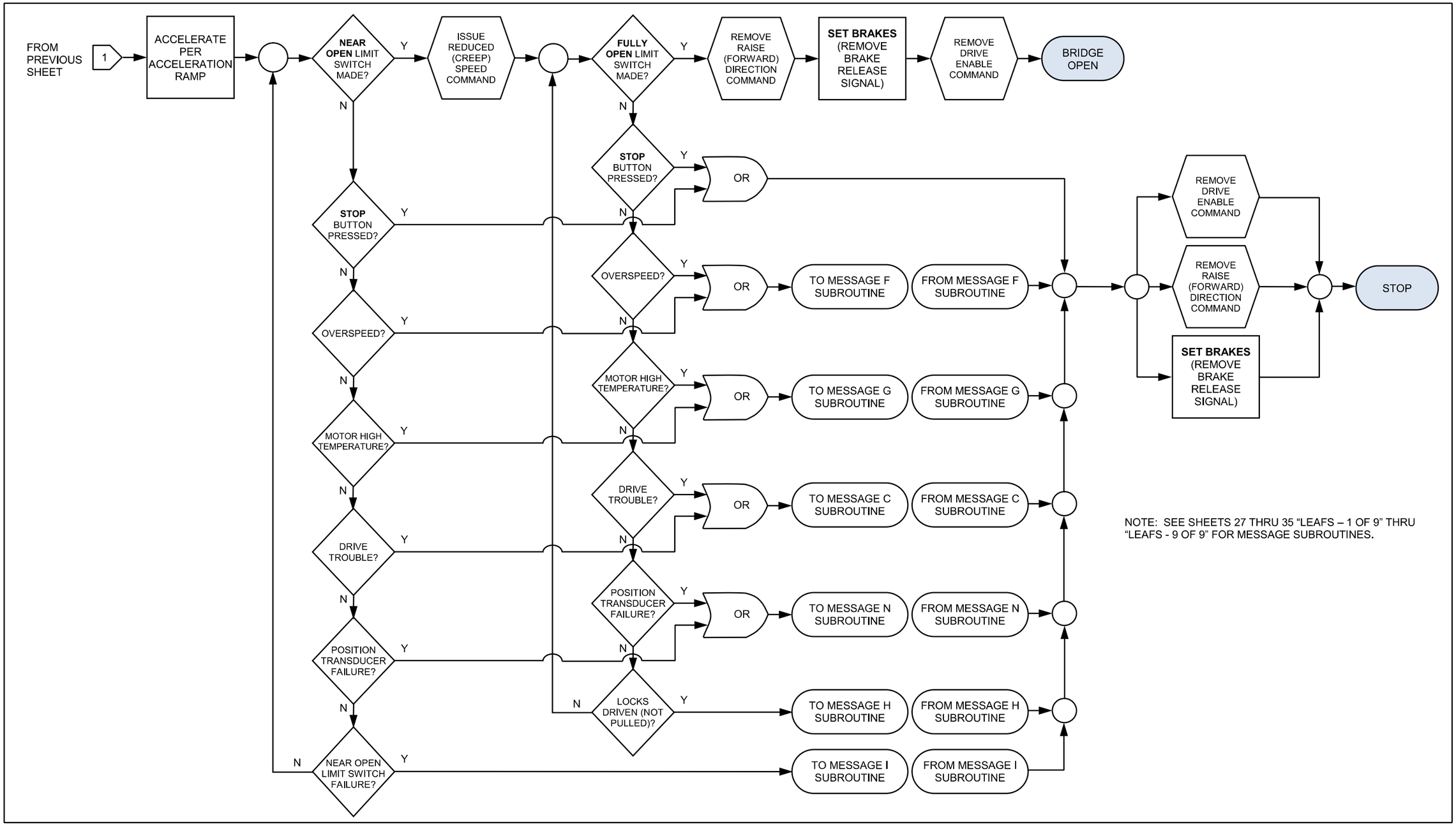
1. SPAN LOCKS BYPASSED (AN-29)

LEAFS – OPENING – 1 OF 2



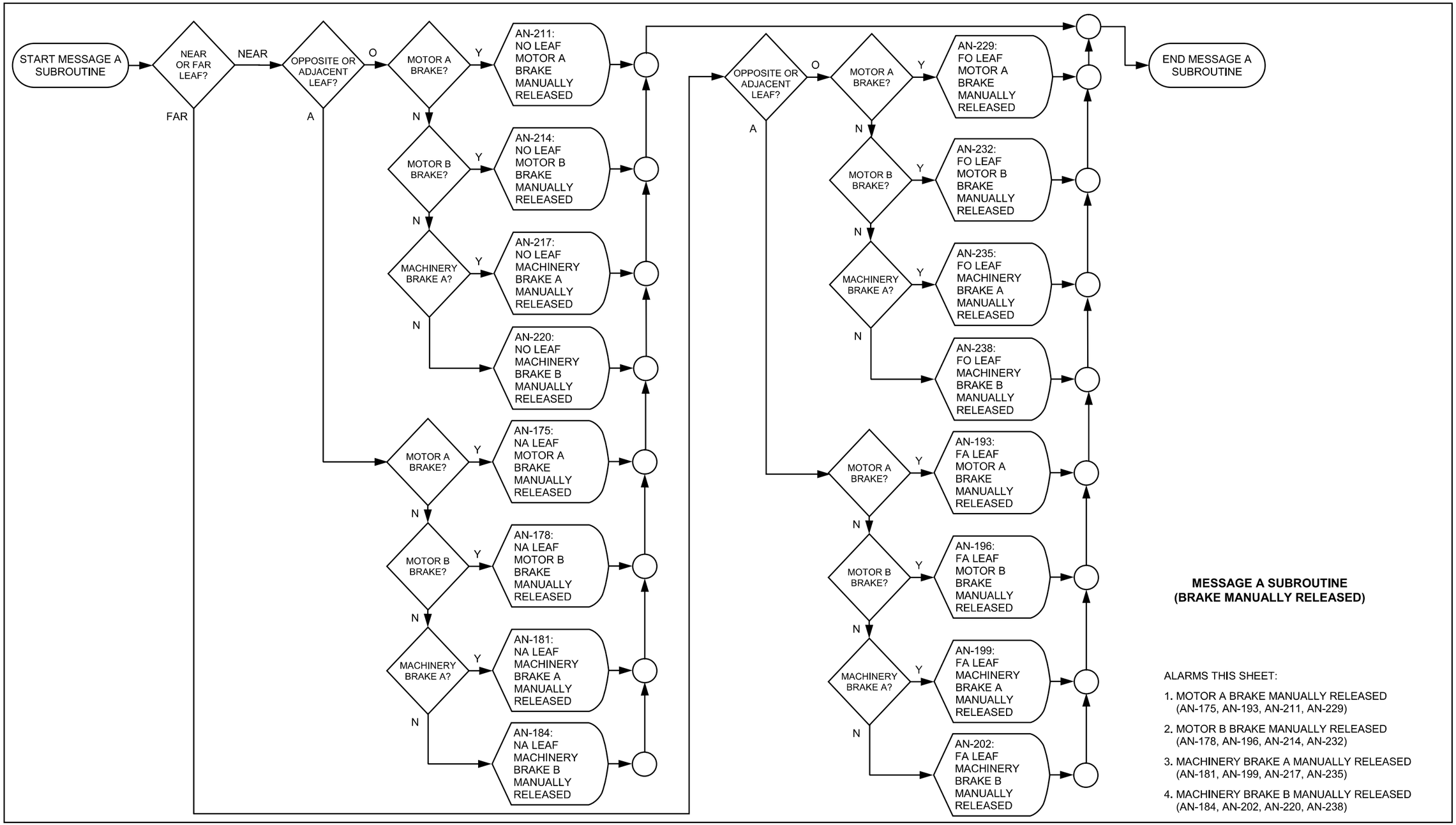
NOTE: SEE SHEETS 27 THRU 35 “LEAFS – 1 OF 9” THRU “LEAFS - 9 OF 9” FOR MESSAGE SUBROUTINES.

LEAFS – OPENING – 2 OF 2



NOTE: SEE SHEETS 27 THRU 35 “LEAFS – 1 OF 9” THRU “LEAFS - 9 OF 9” FOR MESSAGE SUBROUTINES.

LEAFS – 1 OF 9

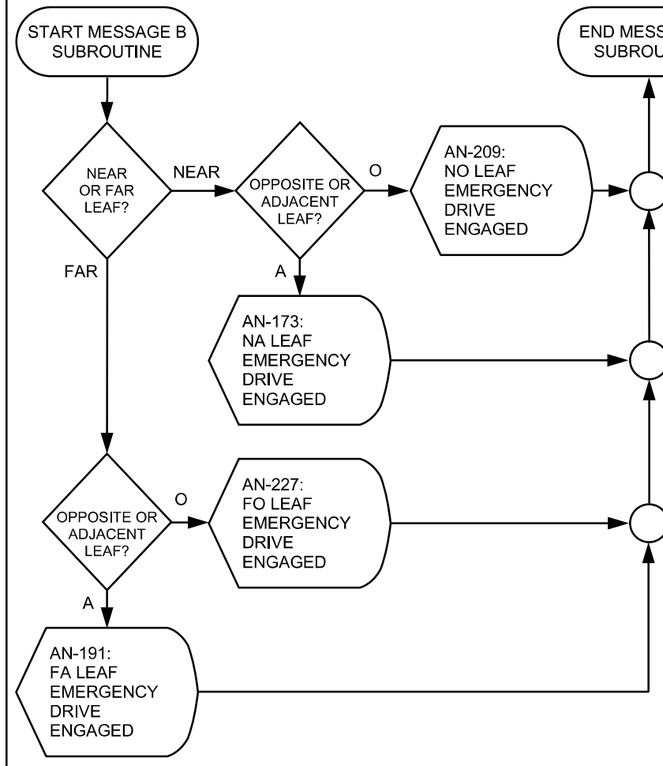


MESSAGE A SUBROUTINE
(BRAKE MANUALLY RELEASED)

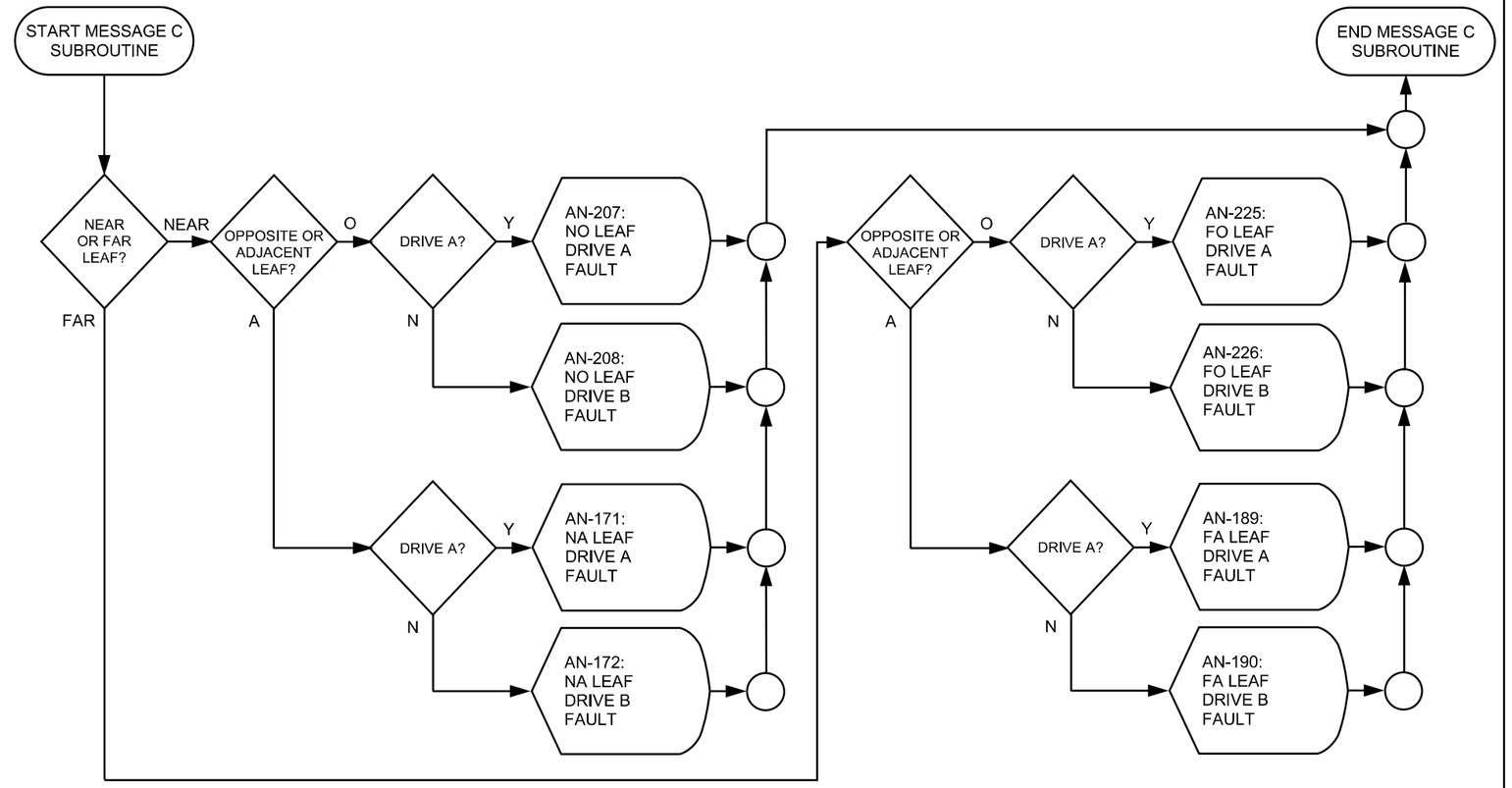
ALARMS THIS SHEET:

1. MOTOR A BRAKE MANUALLY RELEASED (AN-175, AN-193, AN-211, AN-229)
2. MOTOR B BRAKE MANUALLY RELEASED (AN-178, AN-196, AN-214, AN-232)
3. MACHINERY BRAKE A MANUALLY RELEASED (AN-181, AN-199, AN-217, AN-235)
4. MACHINERY BRAKE B MANUALLY RELEASED (AN-184, AN-202, AN-220, AN-238)

LEAFS – 2 OF 9



MESSAGE B SUBROUTINE
(EMERGENCY DRIVE ENGAGED)

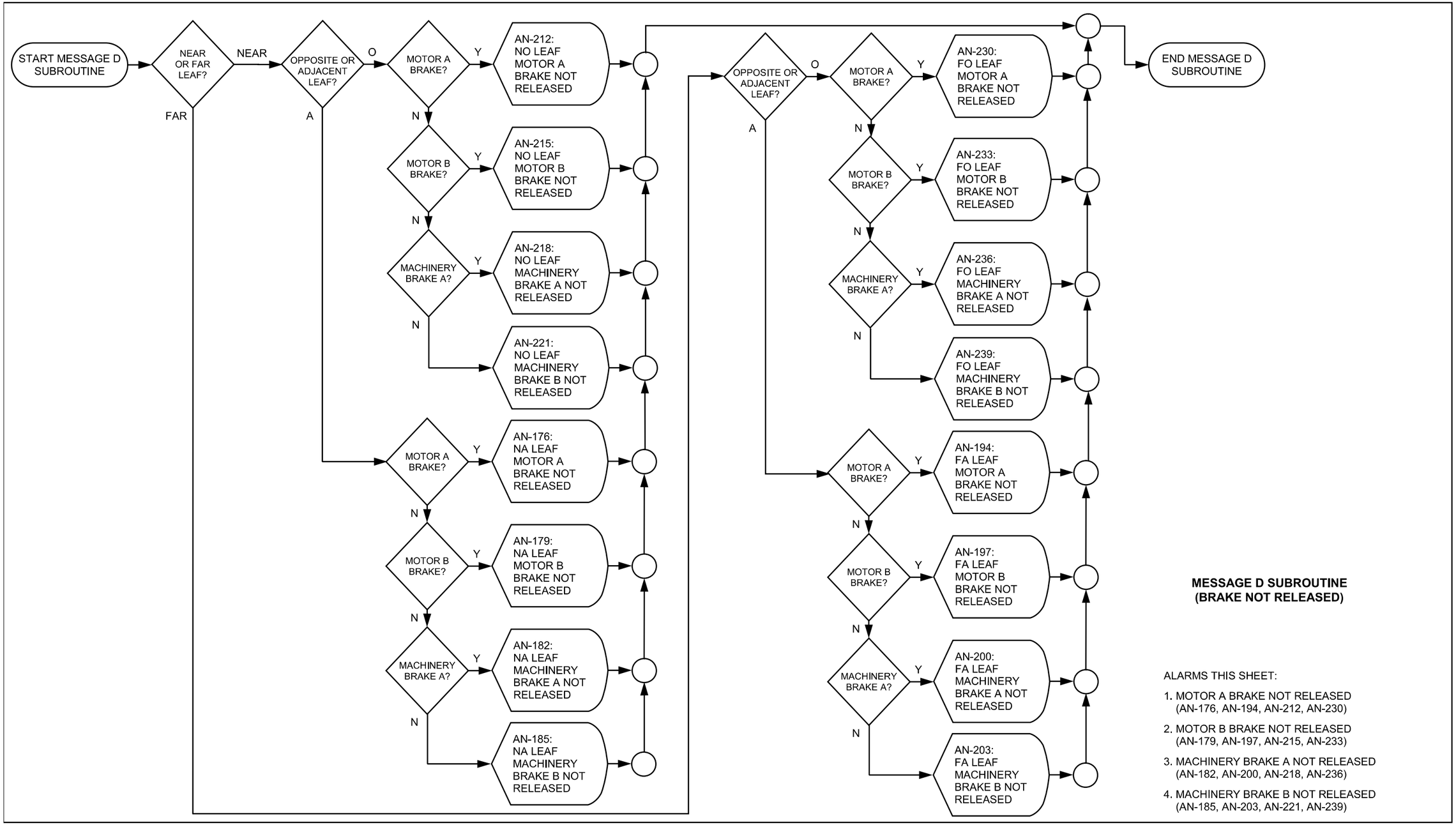


MESSAGE C SUBROUTINE
(DRIVE FAULT)

ALARMS THIS SHEET:

1. EMERGENCY DRIVE ENGAGED (AN-173, AN-191, AN-209, AN-227)
2. LEAF DRIVE A FAULT (AN-171, AN-189, AN-207, AN-225)
3. LEAF DRIVE B FAULT (AN-172, AN-190, AN-208, AN-226)

LEAFS – 3 OF 9

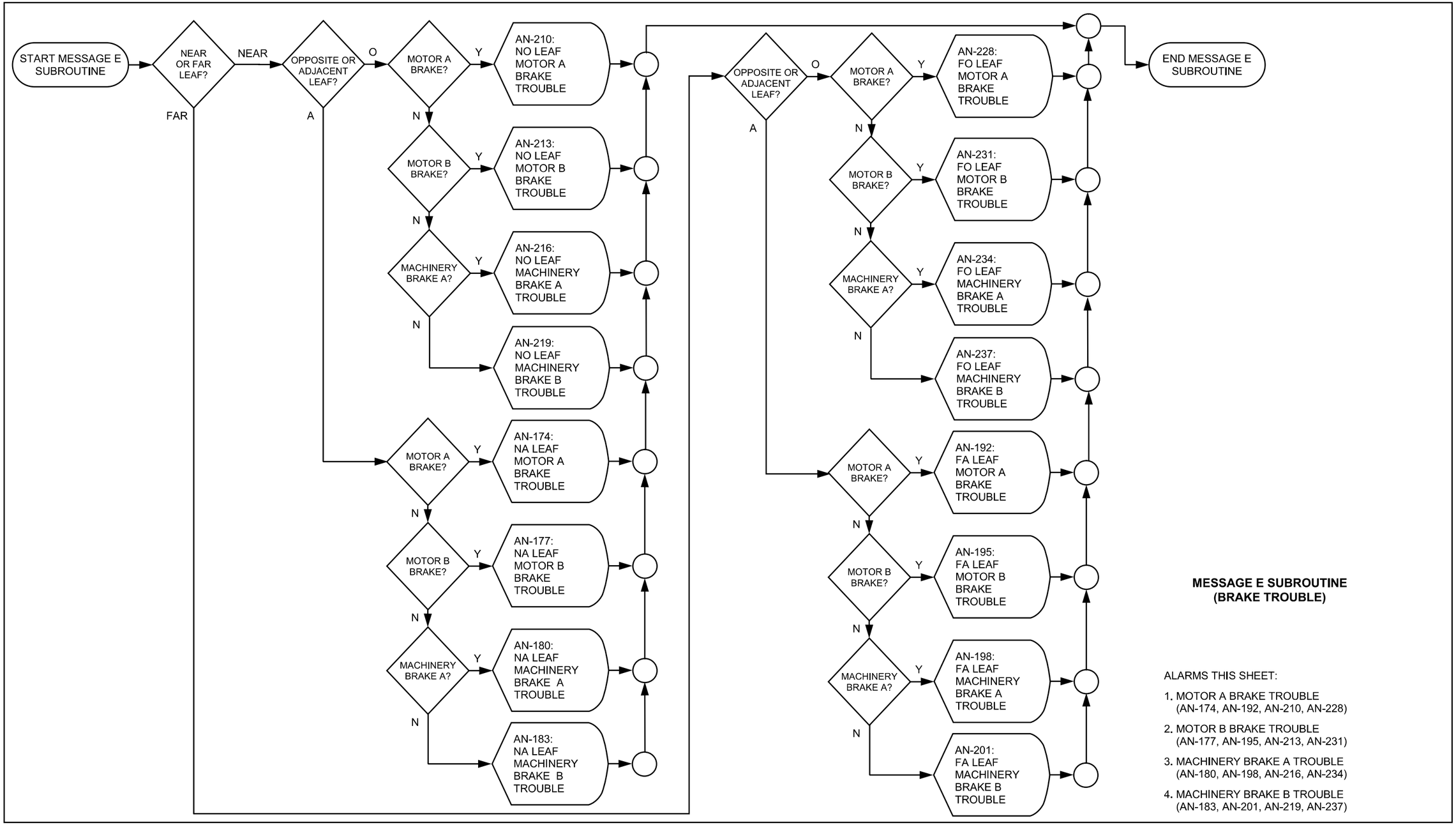


MESSAGE D SUBROUTINE
(BRAKE NOT RELEASED)

ALARMS THIS SHEET:

1. MOTOR A BRAKE NOT RELEASED (AN-176, AN-194, AN-212, AN-230)
2. MOTOR B BRAKE NOT RELEASED (AN-179, AN-197, AN-215, AN-233)
3. MACHINERY BRAKE A NOT RELEASED (AN-182, AN-200, AN-218, AN-236)
4. MACHINERY BRAKE B NOT RELEASED (AN-185, AN-203, AN-221, AN-239)

LEAFS – 4 OF 9

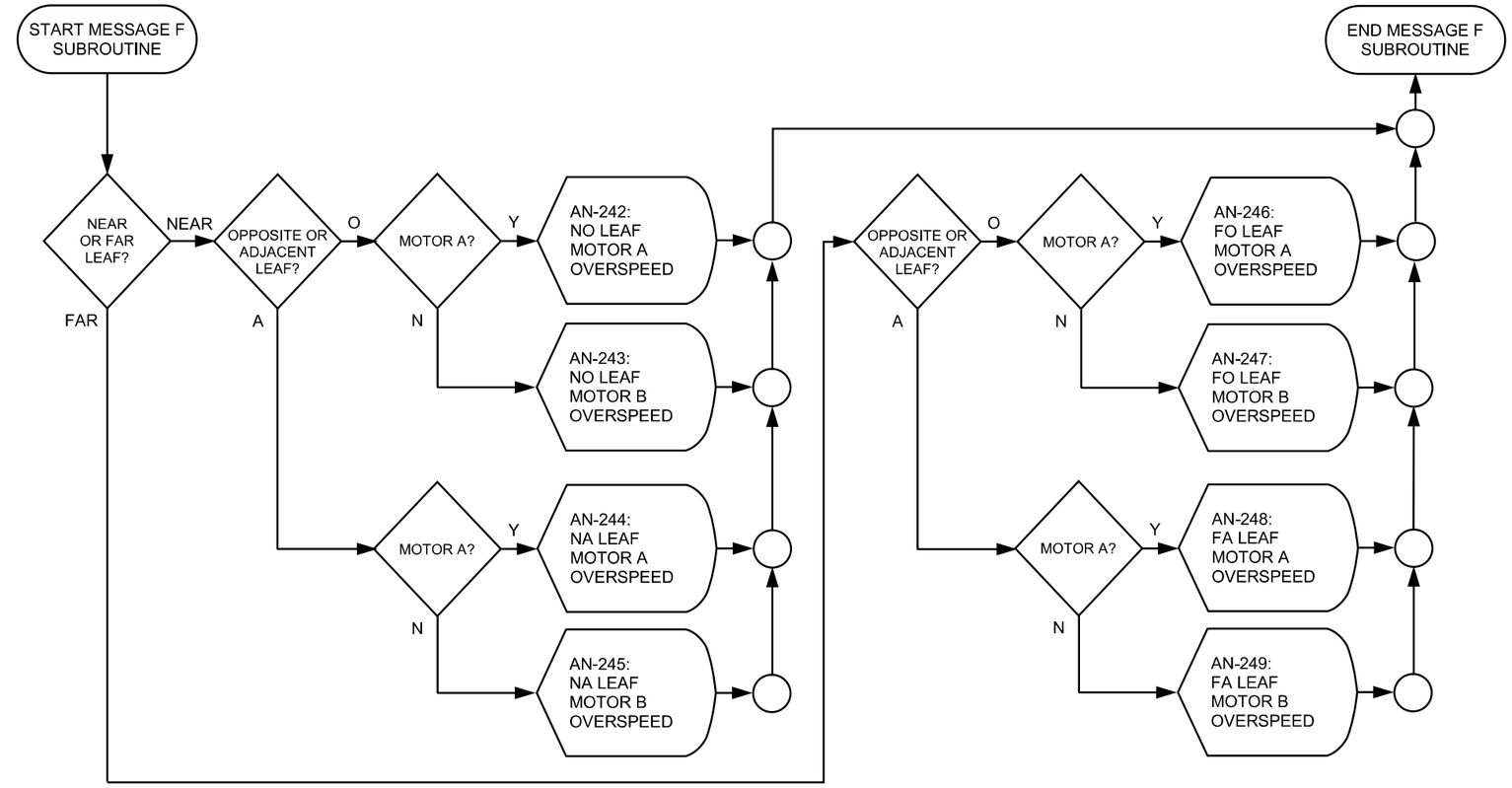


MESSAGE E SUBROUTINE (BRAKE TROUBLE)

ALARMS THIS SHEET:

1. MOTOR A BRAKE TROUBLE (AN-174, AN-192, AN-210, AN-228)
2. MOTOR B BRAKE TROUBLE (AN-177, AN-195, AN-213, AN-231)
3. MACHINERY BRAKE A TROUBLE (AN-180, AN-198, AN-216, AN-234)
4. MACHINERY BRAKE B TROUBLE (AN-183, AN-201, AN-219, AN-237)

LEAFS – 5 OF 9

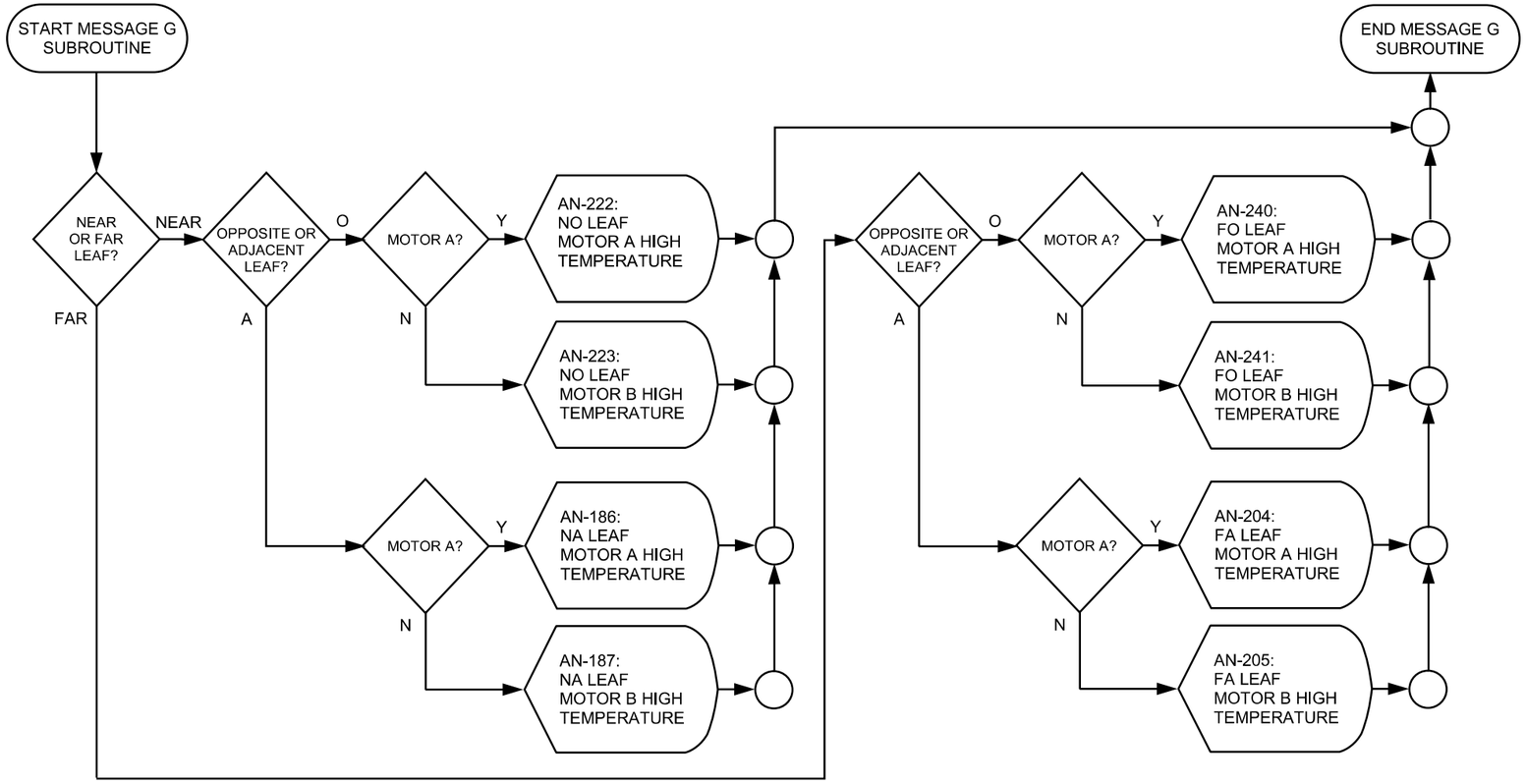


MESSAGE F SUBROUTINE
(MOTOR OVERSPEED)

ALARMS THIS SHEET:

1. MOTOR A OVERSPEED (AN-242, AN-244, AN-246, AN-248)
2. MOTOR B OVERSPEED (AN-243, AN-245, AN-247, AN-249)

LEAFS – 6 OF 9

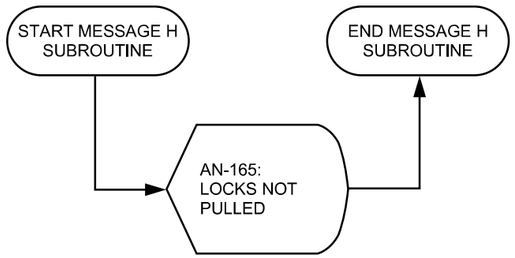


MESSAGE G SUBROUTINE
(MOTOR HIGH TEMPERATURE)

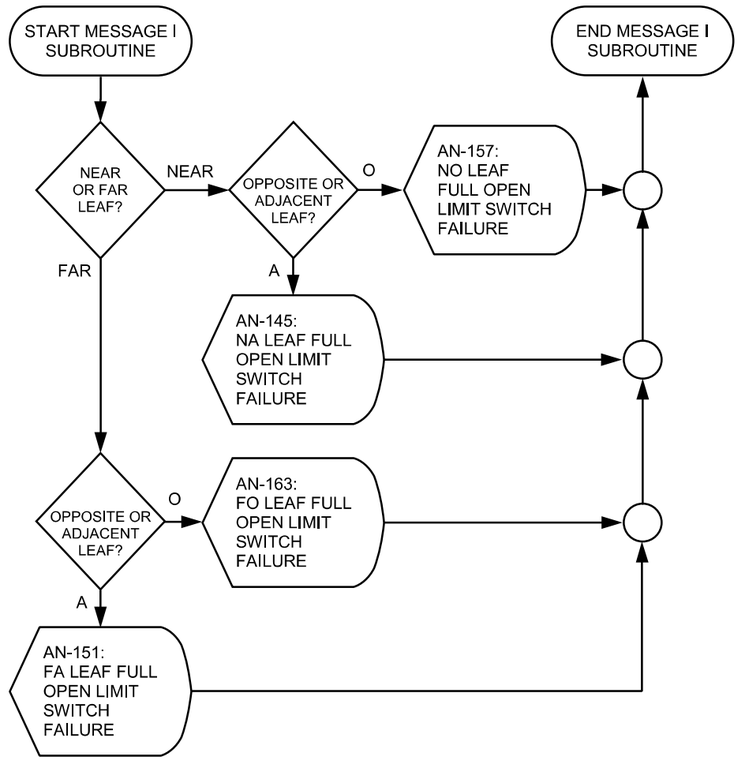
ALARMS THIS SHEET:

1. MOTOR A HIGH TEMPERATURE (AN-186, AN-204, AN-222, AN-240)
2. MOTOR B HIGH TEMPERATURE (AN-187, AN-205, AN-223, AN-241)

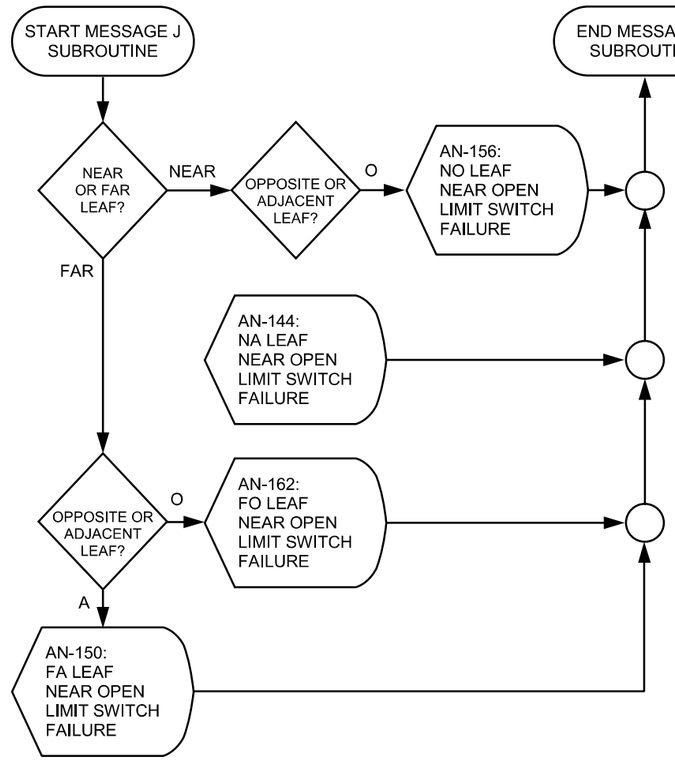
LEAFS – 7 OF 9



MESSAGE H SUBROUTINE
(LOCKS NOT PULLED)



MESSAGE I SUBROUTINE
(FULL OPEN LIMIT SWITCH FAILURE)

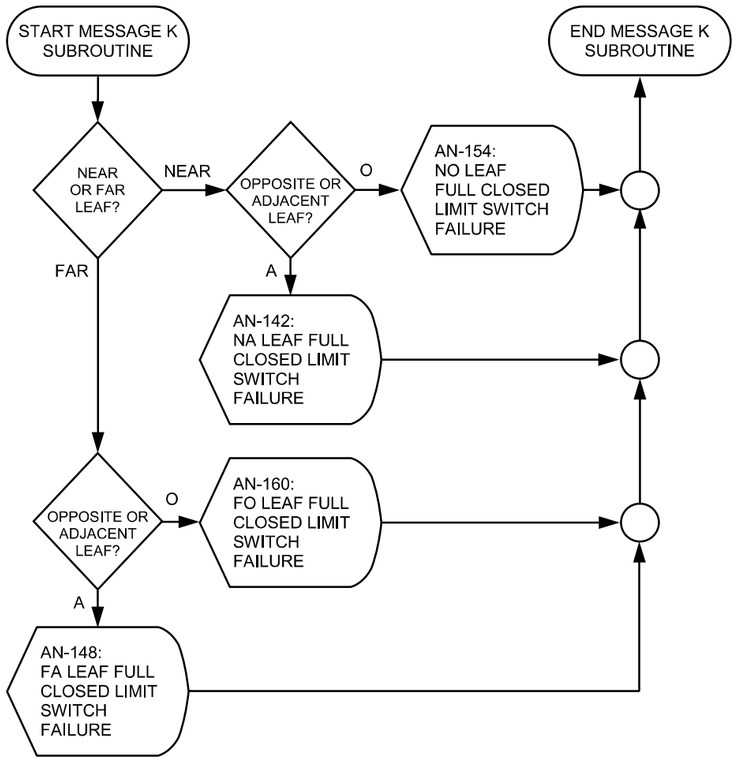


MESSAGE J SUBROUTINE
(NEAR OPEN LIMIT SWITCH FAILURE)

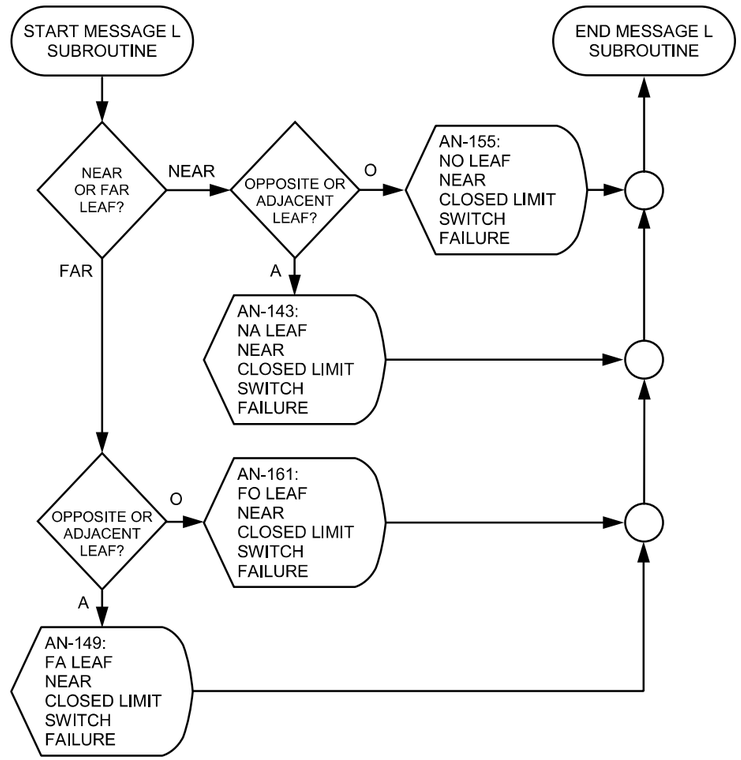
ALARMS THIS SHEET:

1. LOCKS NOT PULLED (AN-165)
2. FULL OPEN LIMIT SWITCH FAILURE (AN-145, AN-151, AN-157, AN-163)
3. NEAR OPEN LIMIT SWITCH FAILURE (AN-144, AN-150, AN-156, AN-162)

LEAFS – 8 OF 9



MESSAGE K SUBROUTINE
(FULL CLOSED LIMIT SWITCH FAILURE)

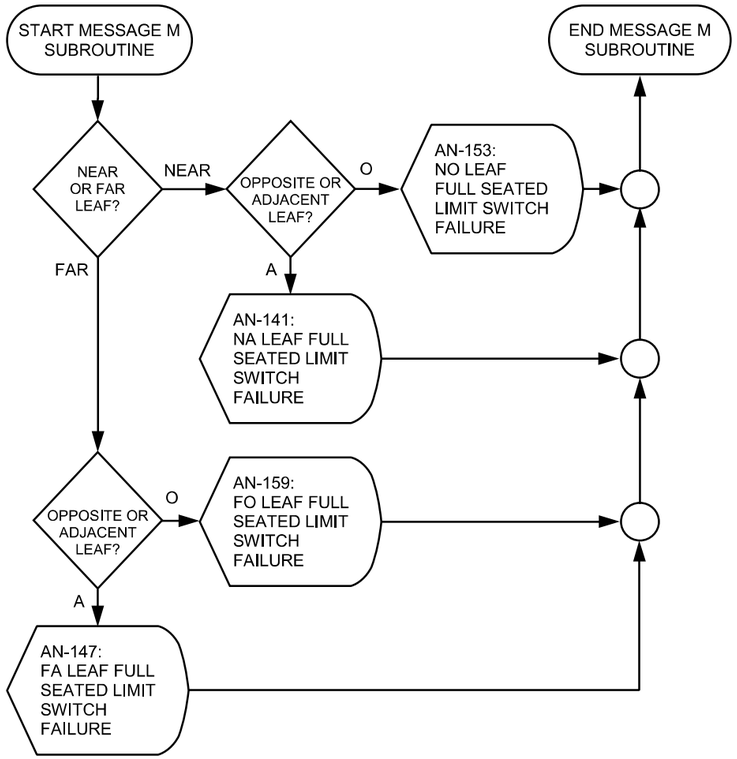


MESSAGE L SUBROUTINE
(NEAR CLOSED LIMIT SWITCH FAILURE)

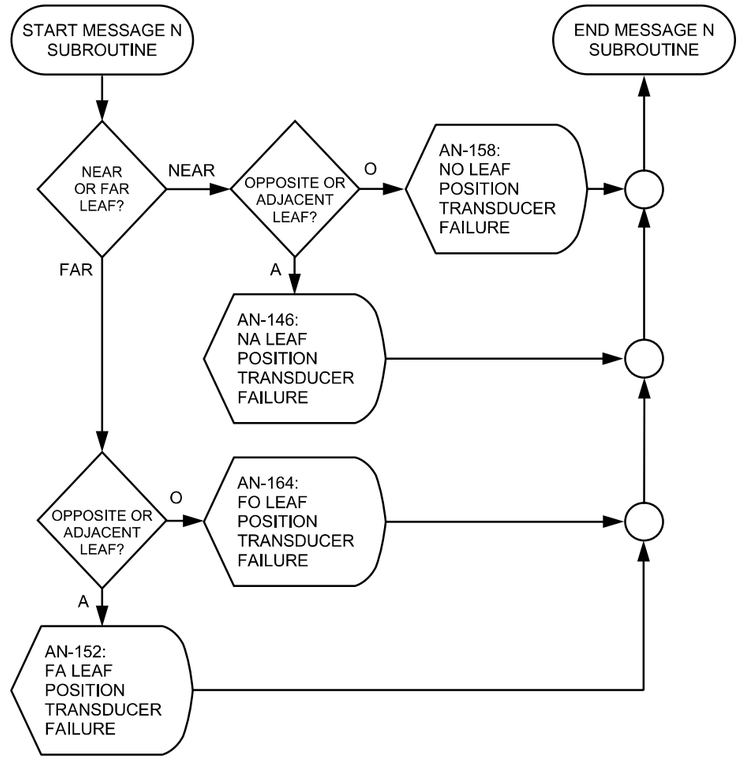
ALARMS THIS SHEET:

1. FULL CLOSED LIMIT SWITCH FAILURE (AN-142, AN-148, AN-154, AN-160)
2. NEAR CLOSED LIMIT SWITCH FAILURE (AN-143, AN-149, AN-155, AN-161)

LEAFS – 9 OF 9



MESSAGE M SUBROUTINE
(FULL SEATED LIMIT SWITCH FAILURE)

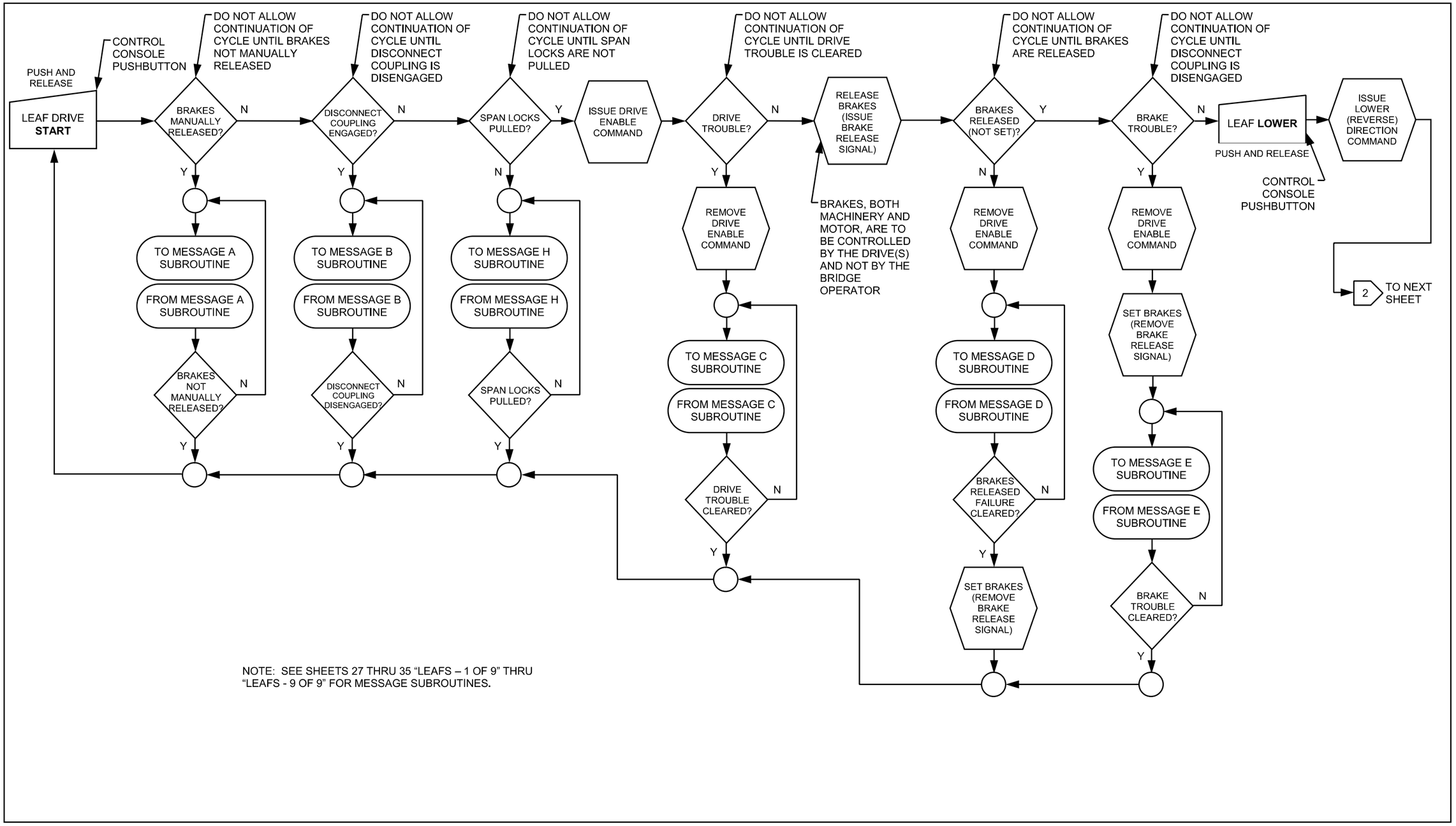


MESSAGE N SUBROUTINE
(POSITION TRANSDUCER FAILURE)

ALARMS THIS SHEET:

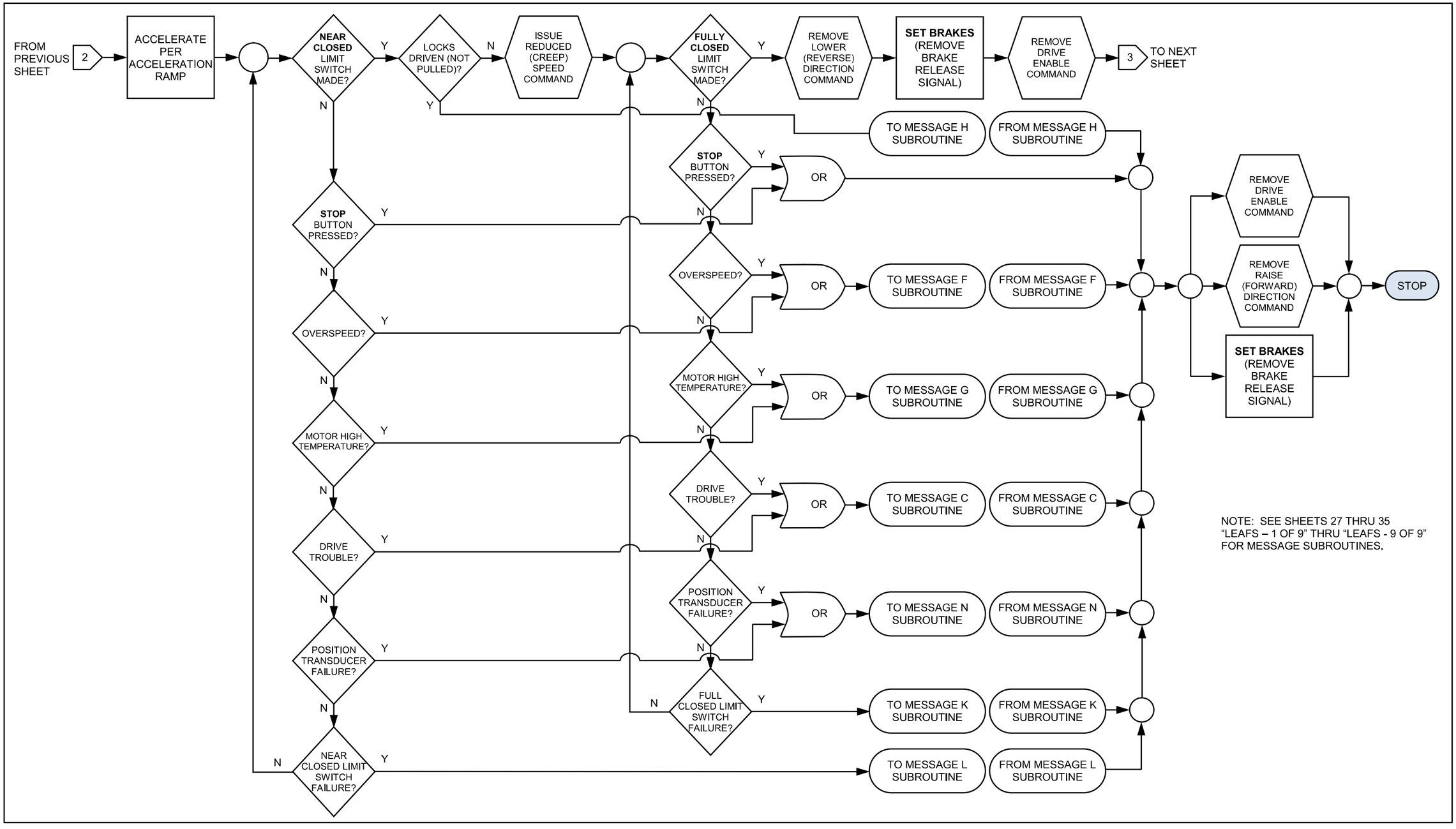
1. FULL SEATED LIMIT SWITCH FAILURE (AN-141, AN-147, AN-153, AN-159)
2. POSITION TRANSDUCER FAILURE (AN-146, AN-152, AN-158, AN-164)

LEAFS – CLOSING – 1 OF 2

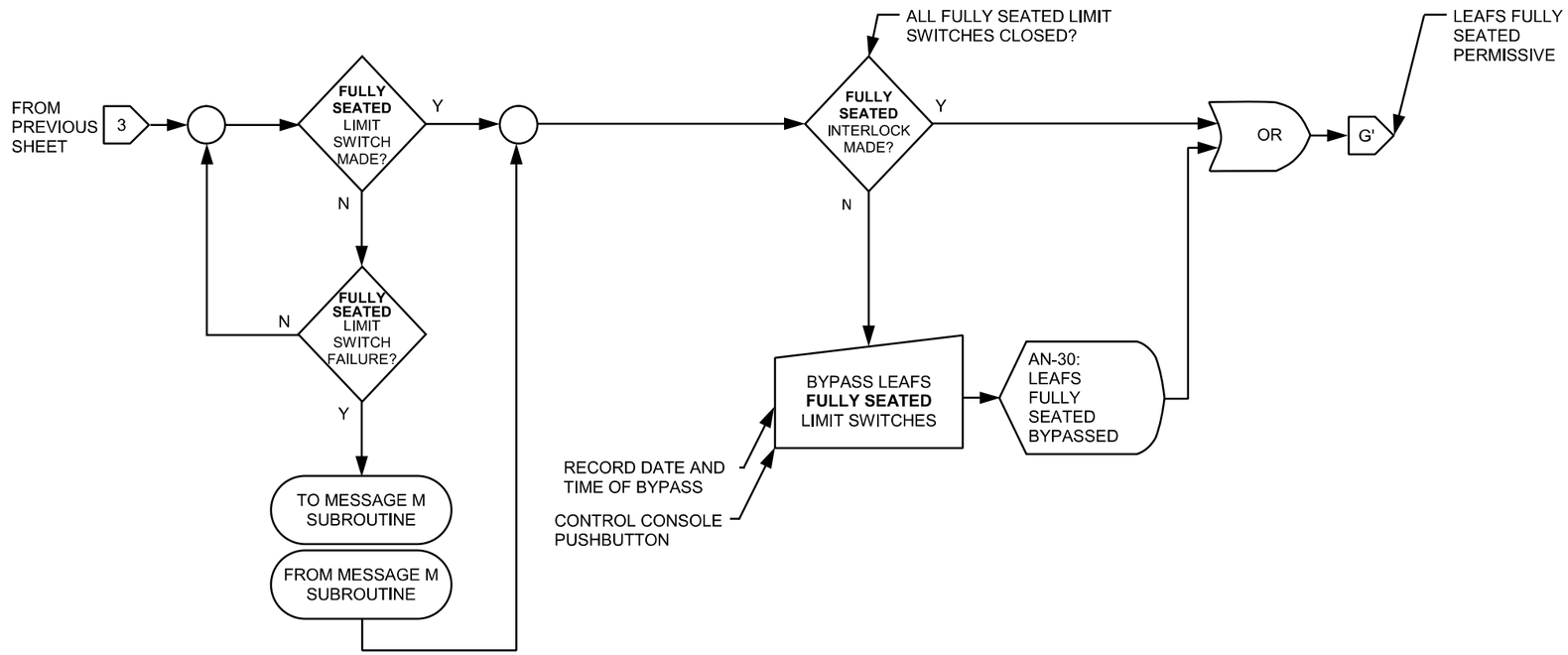


NOTE: SEE SHEETS 27 THRU 35 “LEAFS – 1 OF 9” THRU “LEAFS - 9 OF 9” FOR MESSAGE SUBROUTINES.

LEAFS – CLOSING – 2 OF 2



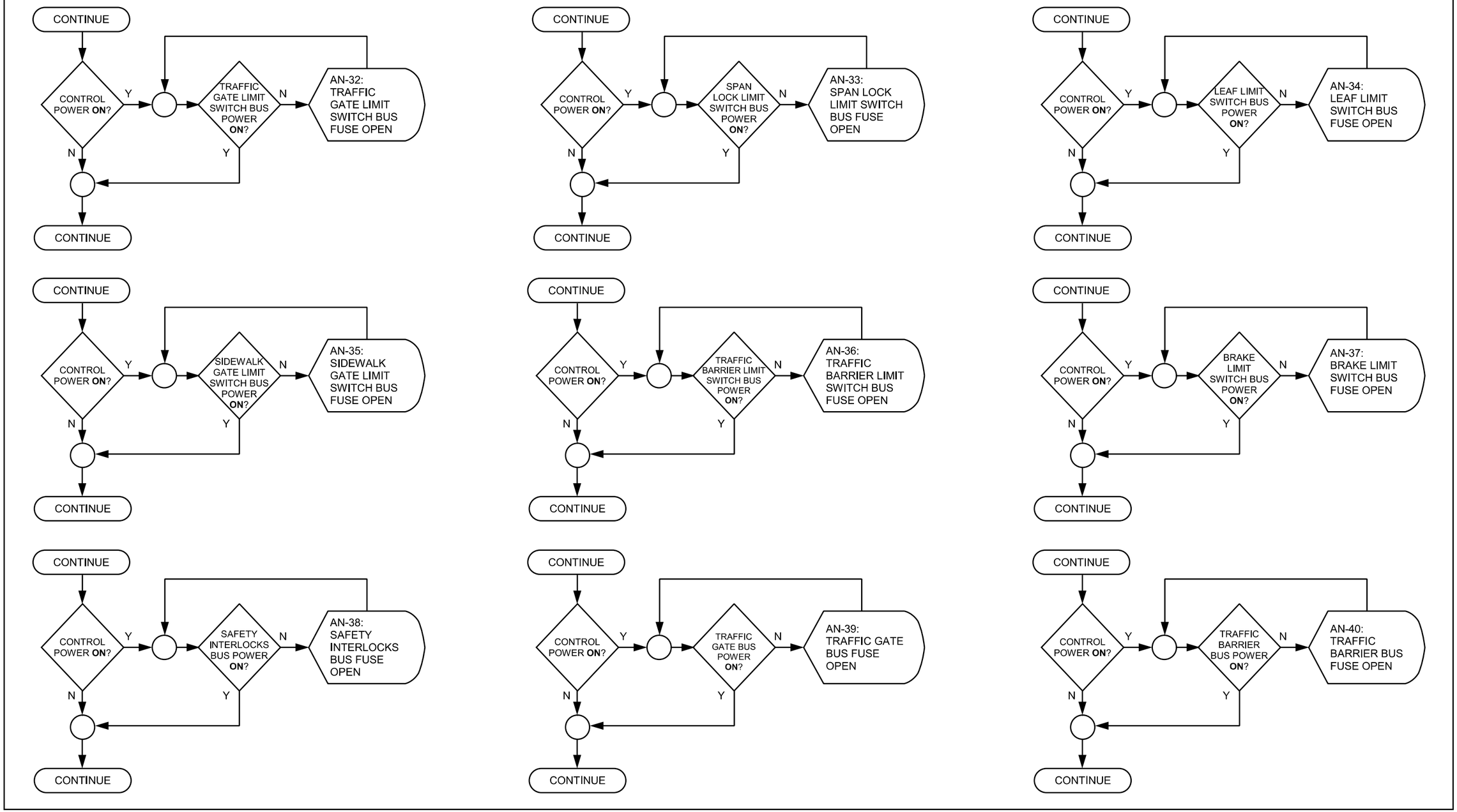
LEAFS – SEATED



ALARMS THIS SHEET:

1. LEAF(S) FULLY SEATED BYPASSED (AN-30)

MISCELLANEOUS – 1 OF 2



MISCELLANEOUS – 2 OF 2

