2/16/2025 2025 02 16 LVM PLC code

Light status subprogram variable Light status subrogram variable Light status subprogram variable Light status subprogram variable Light status common commo



Read GS3 drive Elements using the cpu rs-232 port

2/16/2025

Count

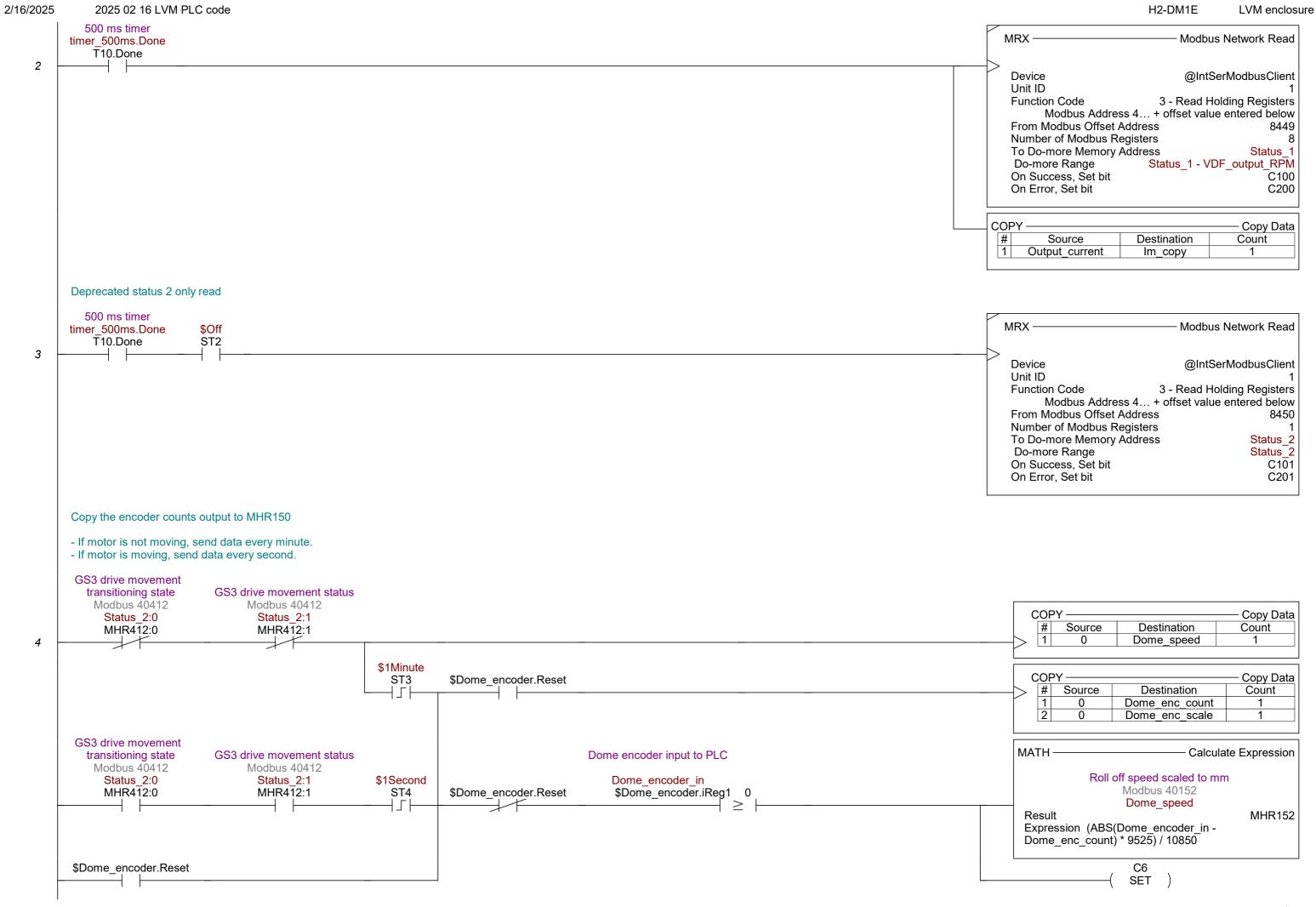
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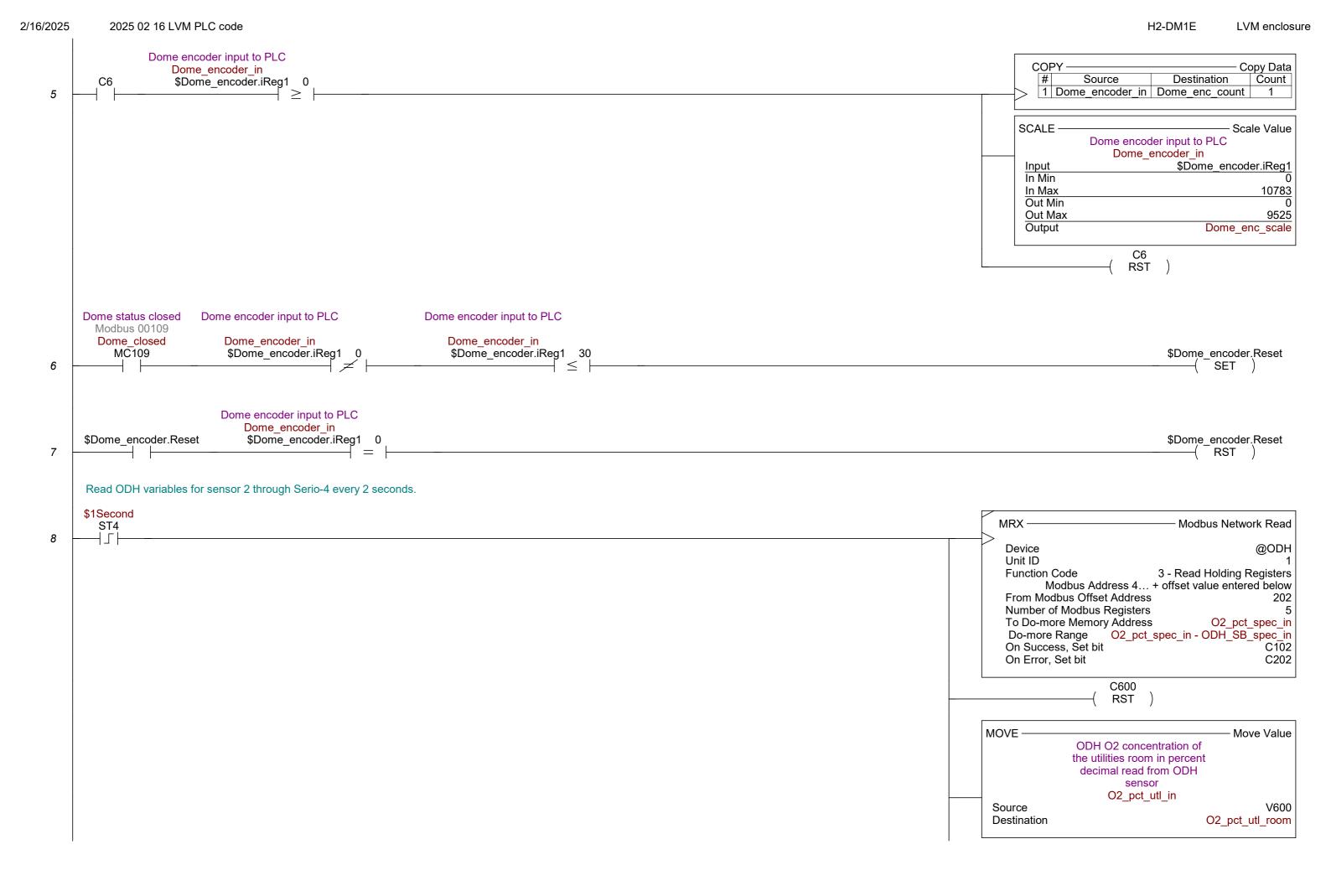
Out of Subroutine

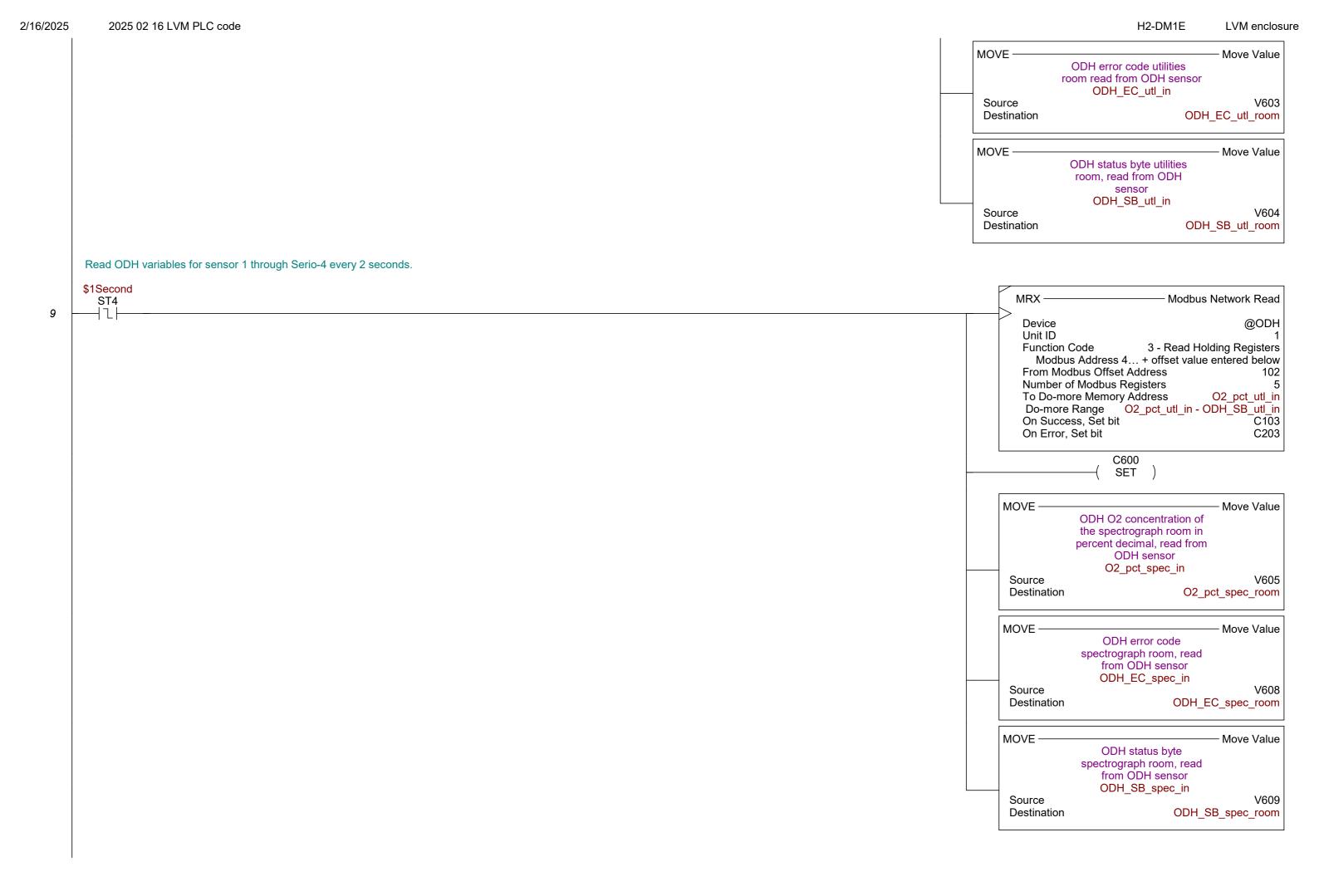
1 Light_status

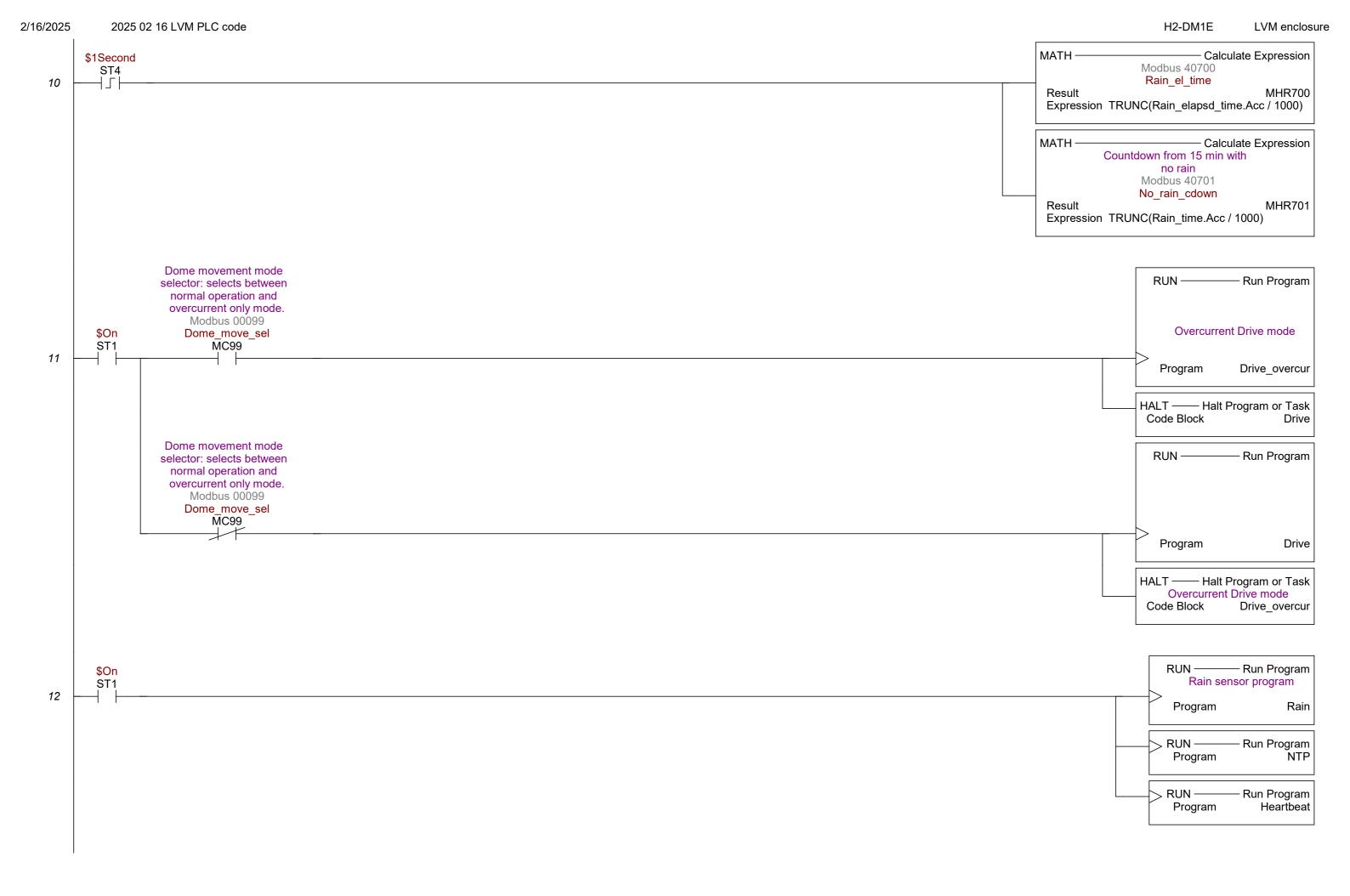
Into

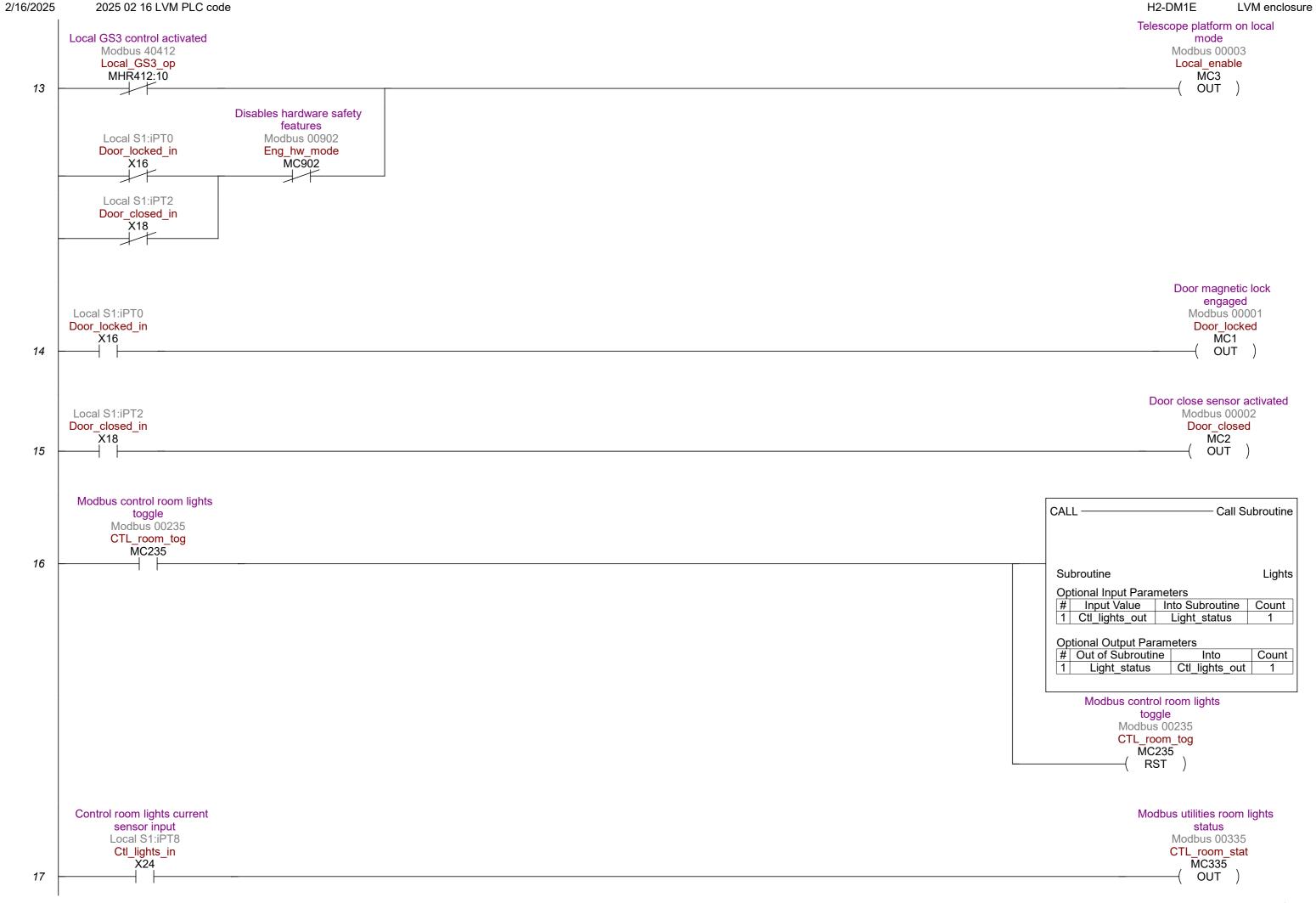
Plat_Rlight_out

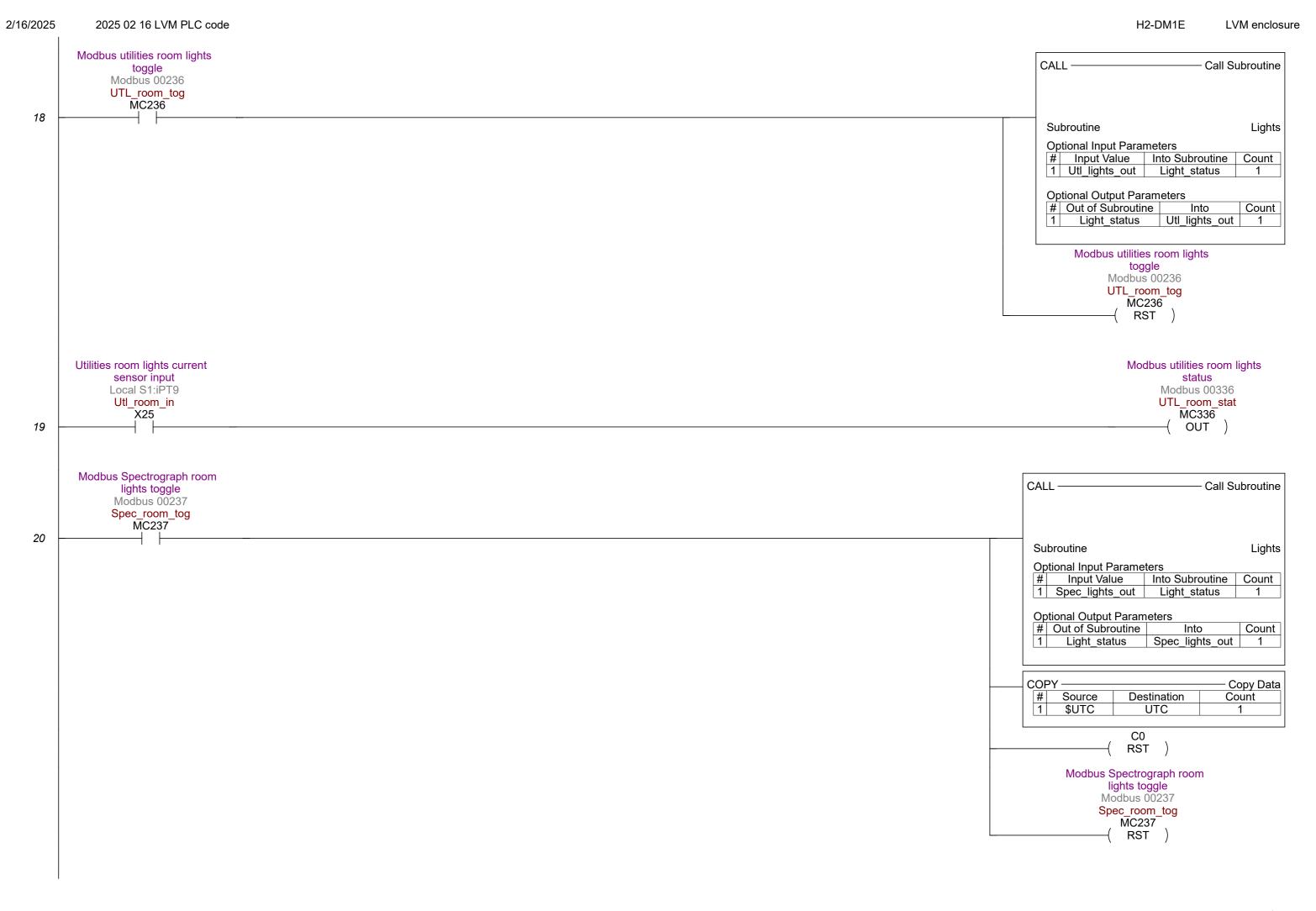


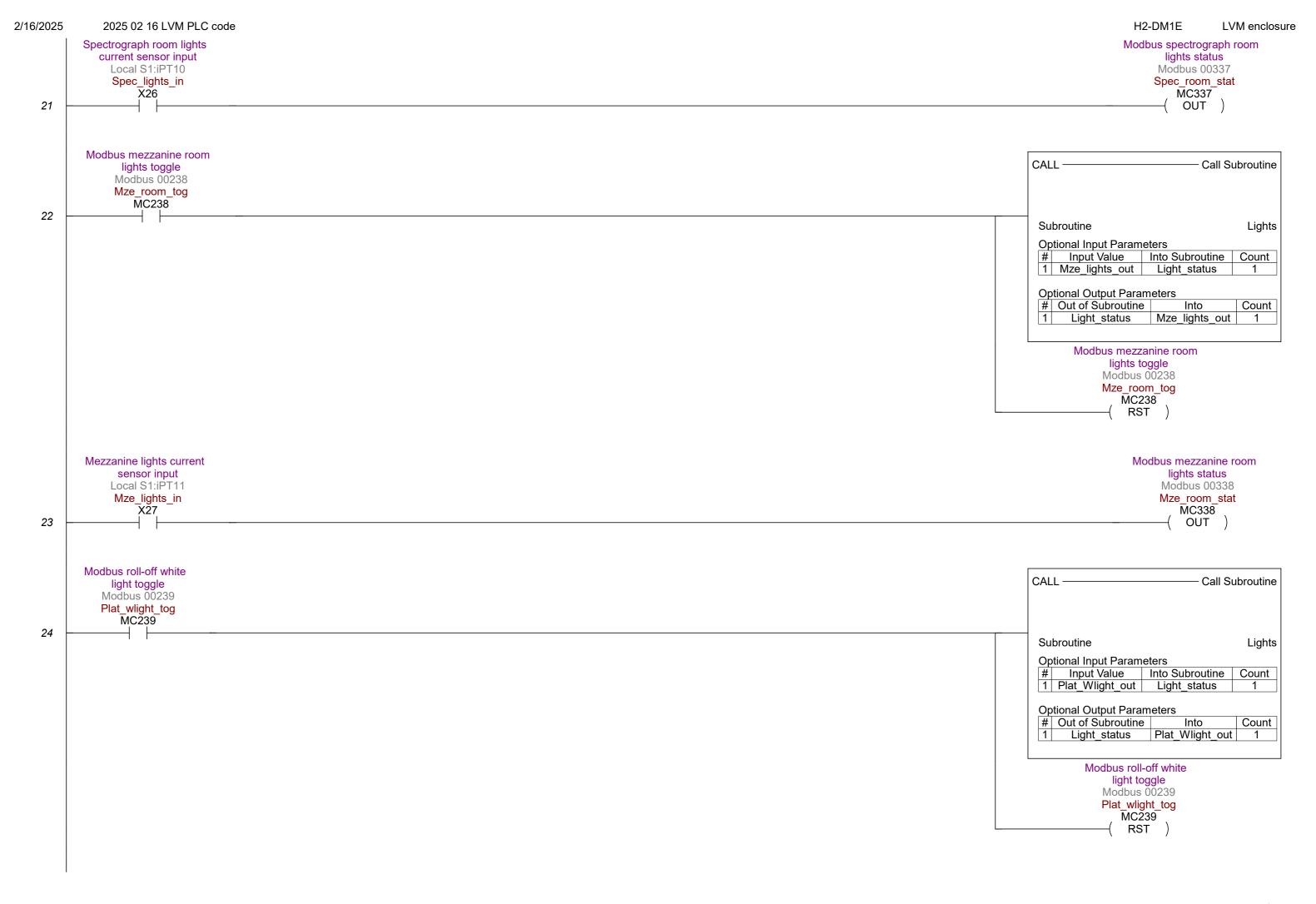


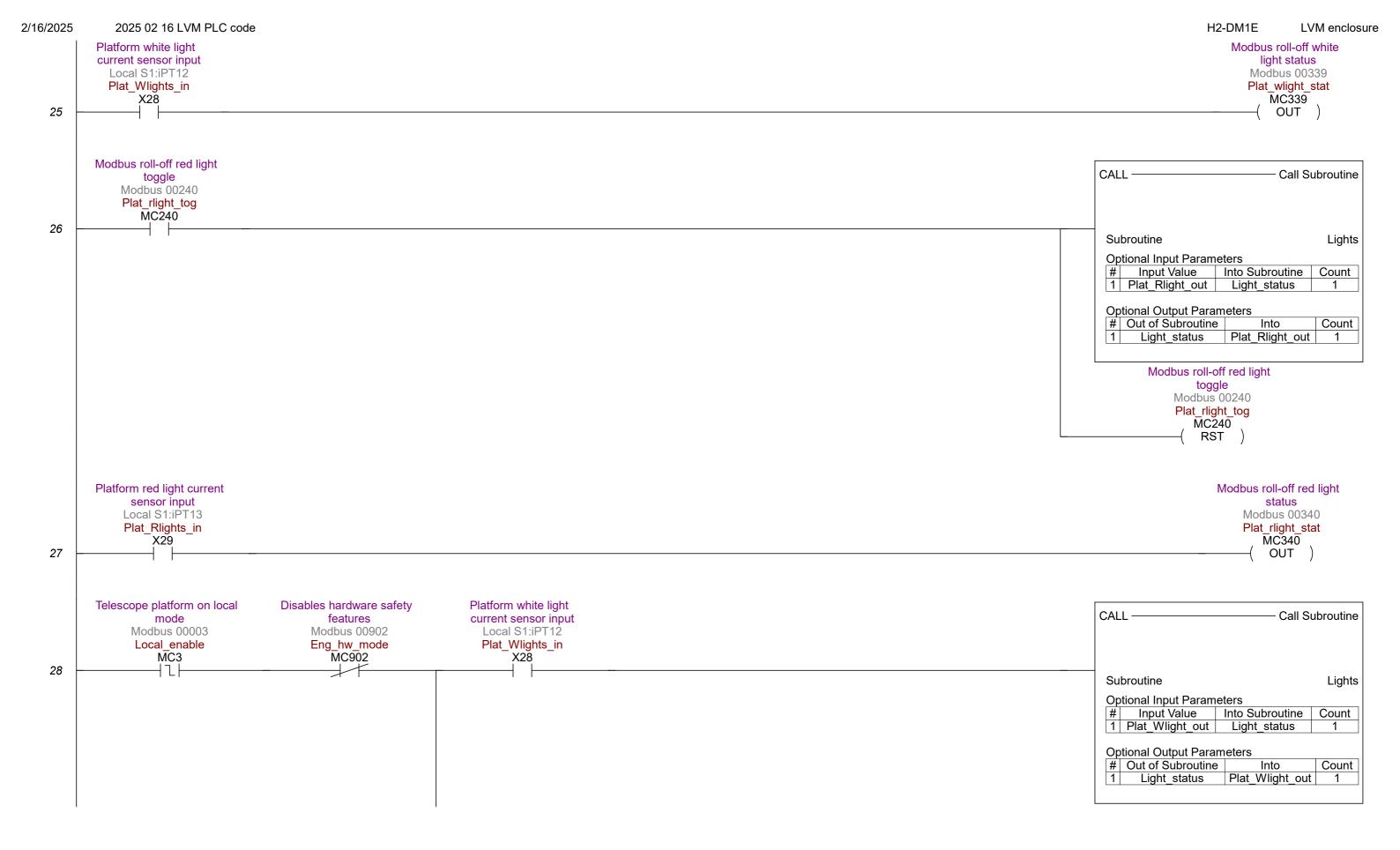


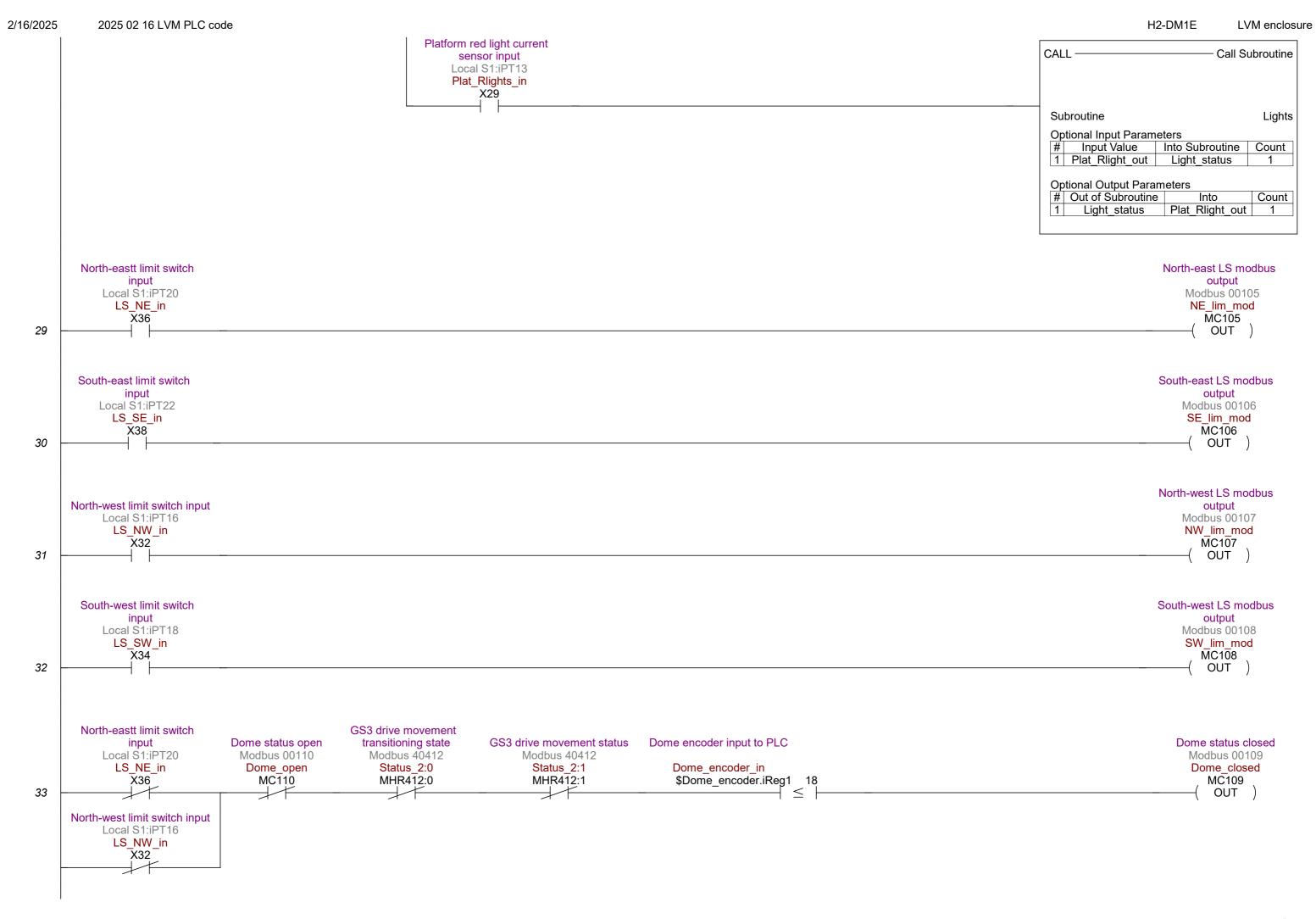












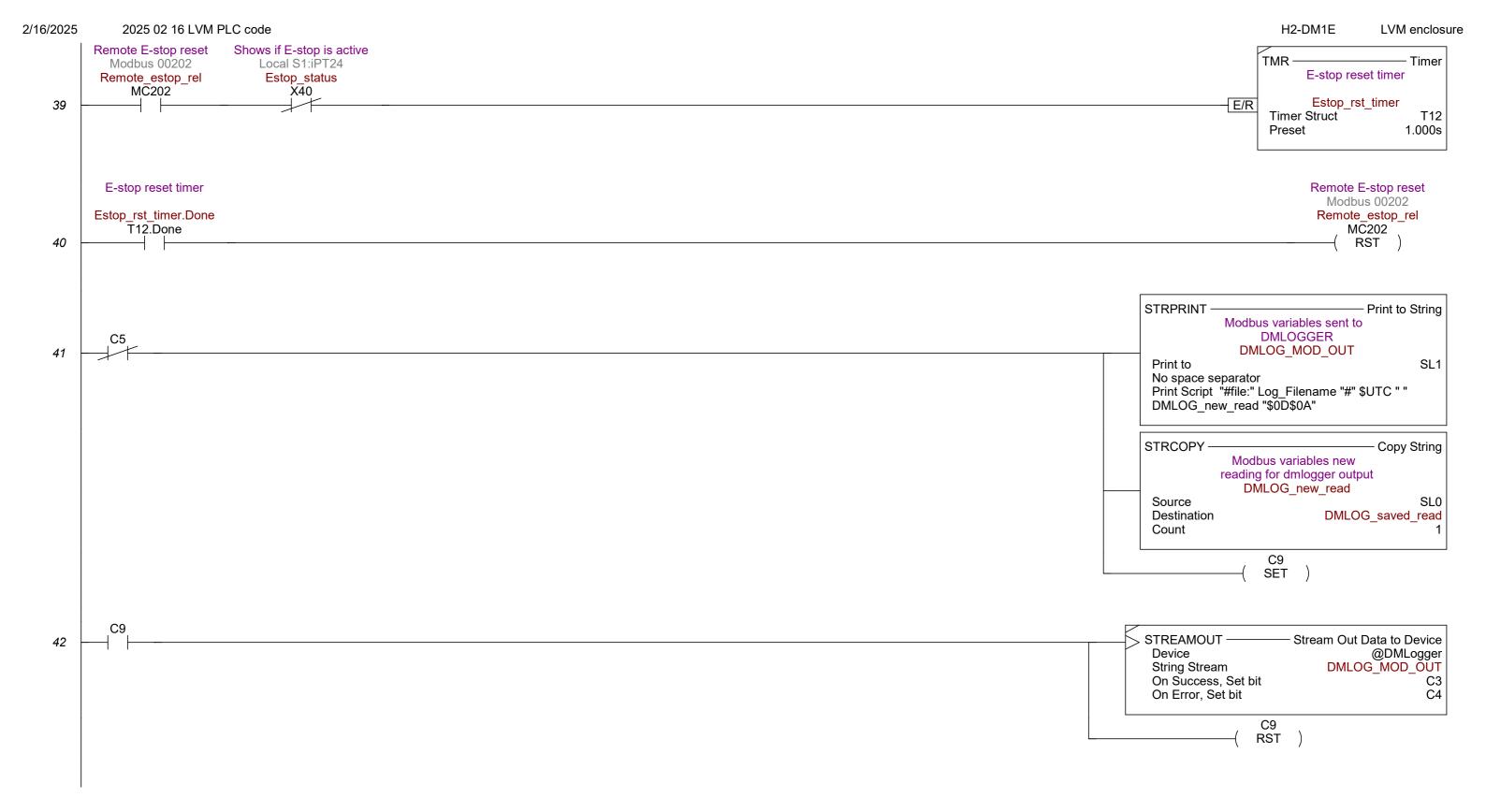
South-east limit switch GS3 drive movement Dome status closed transitioning state GS3 drive movement status Dome encoder input to PLC Dome status open Local S1:iPT22 Modbus 40412 Modbus 00109 Modbus 40412 Modbus 00110 LS SE in Dome closed Status 2:0 Status 2:1 Dome_open Dome encoder in MC109 MHR412:0 MHR412:1 \$Dome_encoder.iReg1 10750 MC110 X38 34 \geq OUT South-west limit switch input Local S1:iPT18 LS_SW_in X34 HVAC Flag to activate telescope platforms inyectors. Fans will be turned on, if signal is off. Fans should be turned off, if dome is open (not closed) or local enebeled. Flag to stop telescope Dome status closed platform fans Modbus 00109 Local S0:oPT8 Dome closed HVAC_flag MC109 Y8 35 OUT Telescope platform on local mode Modbus 00003 Local enable MC3 E-stop status, read on the Shows if E-stop is active secondary electrical panel Local S1:iPT24 Modbus 00200 Estop_status Estop_stat_mbus X40 MC200 36 OUT Remote E-stop Modbus 00201 Remote estop MC201 RST Remote E-stop PLC e-stop output Local S0:oPT14 Modbus 00201 PLC_Estop Remote_estop MC201 Y14 37 OUT Remote E-stop reset PLC reset e-stop output Modbus 00202 Local S0:oPT13 Remote_estop_rel PLC_Estop_releas MC202 Y13 OUT 38

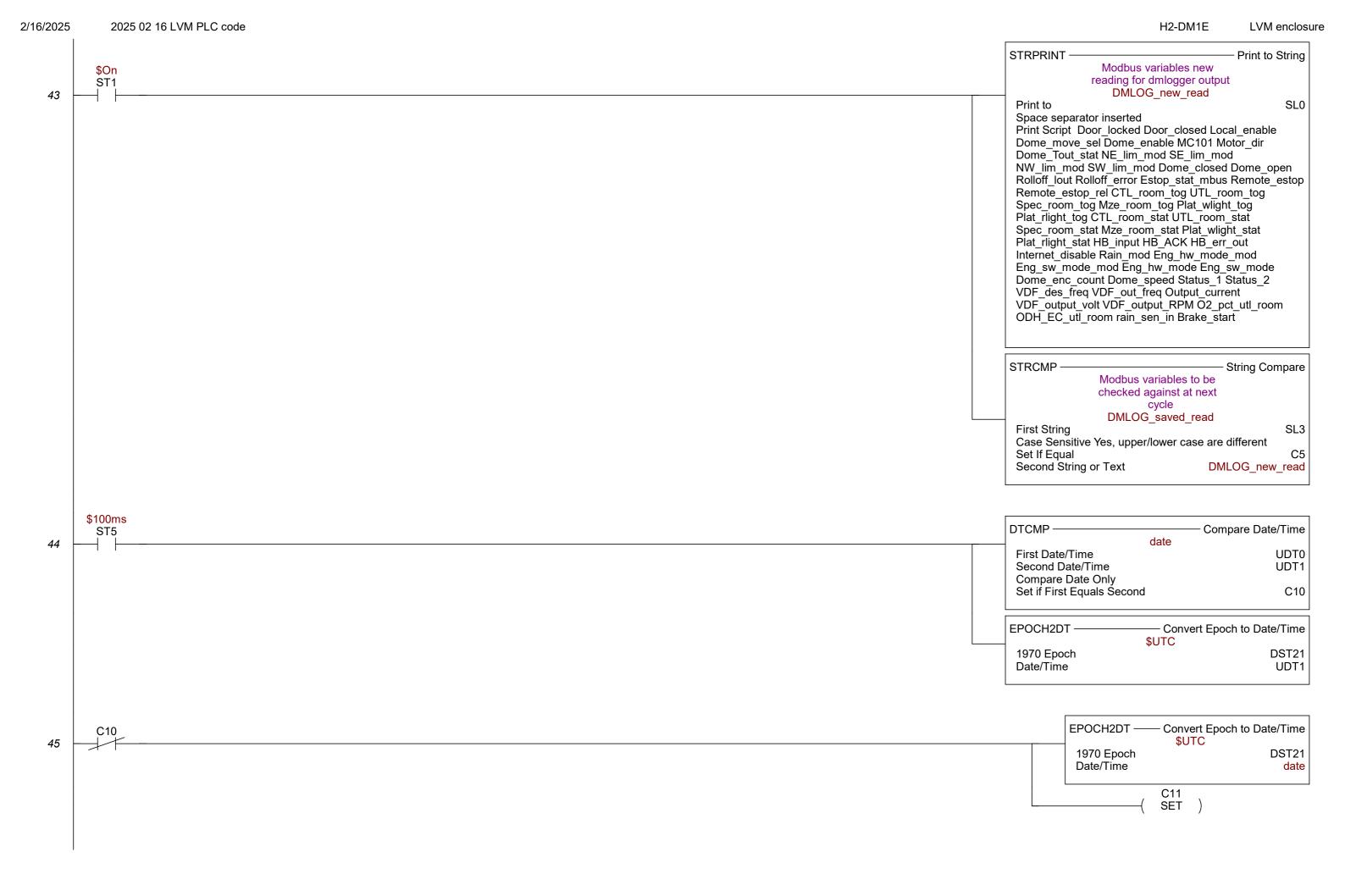
2/16/2025

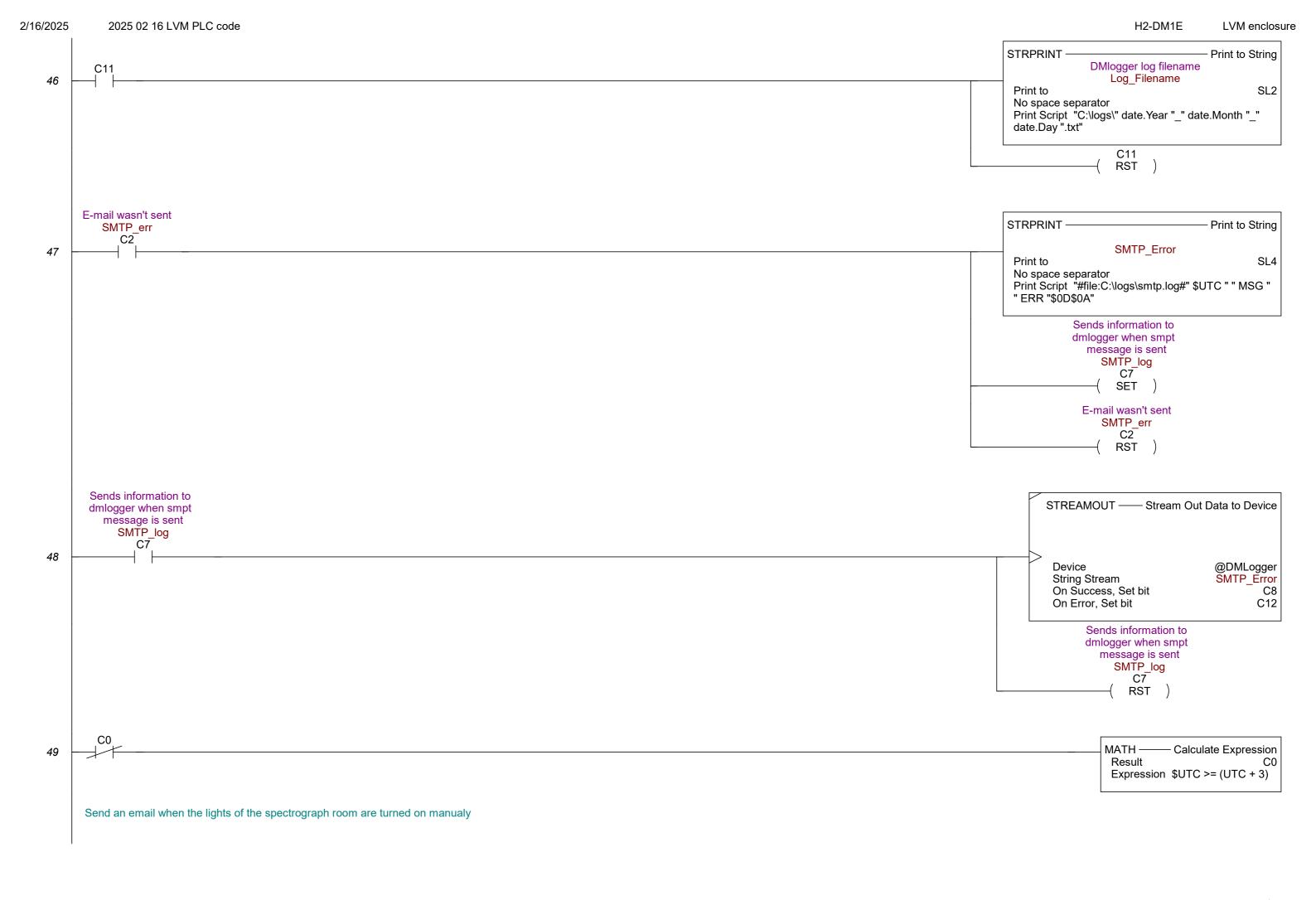
2025 02 16 LVM PLC code

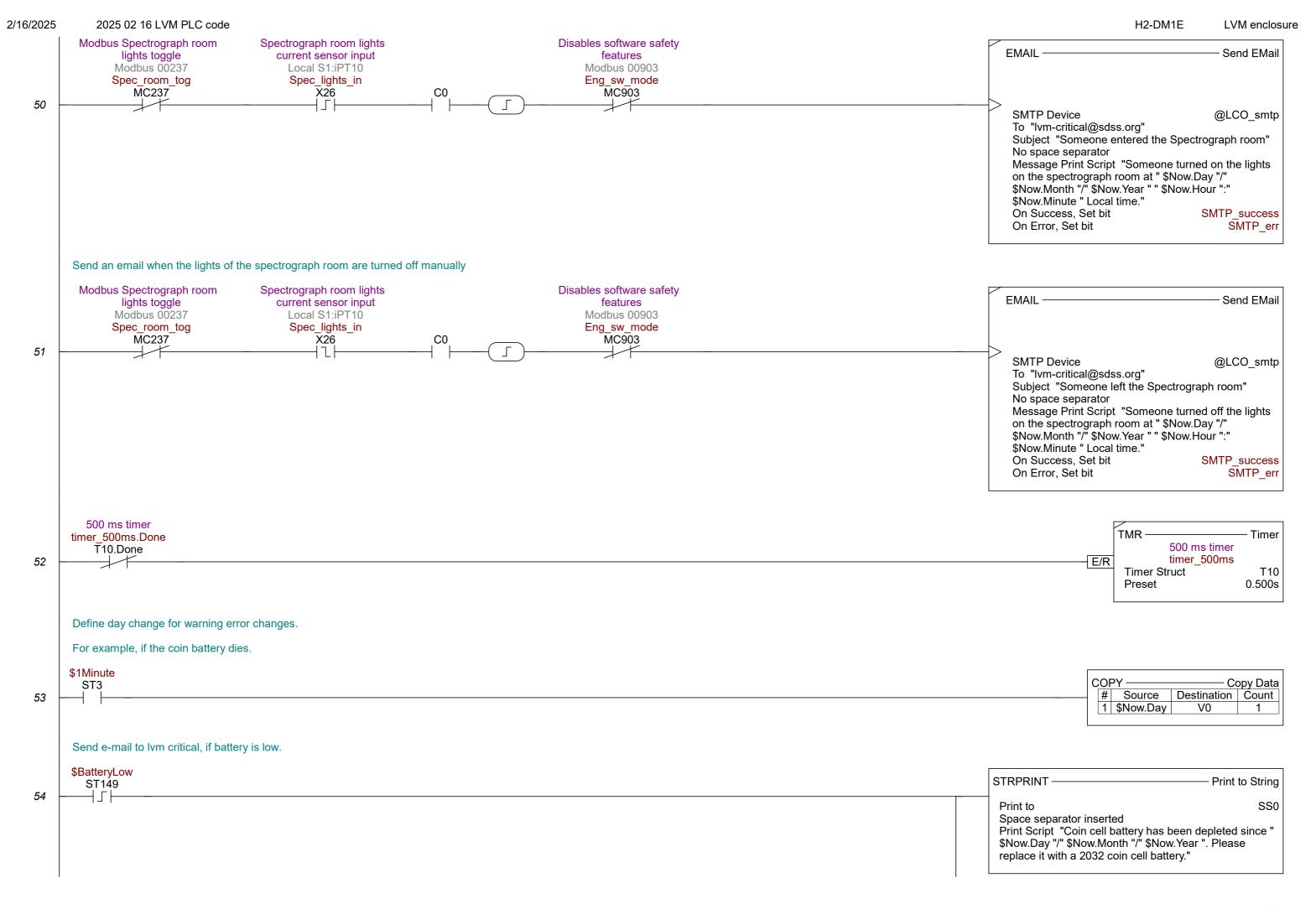
H2-DM1E

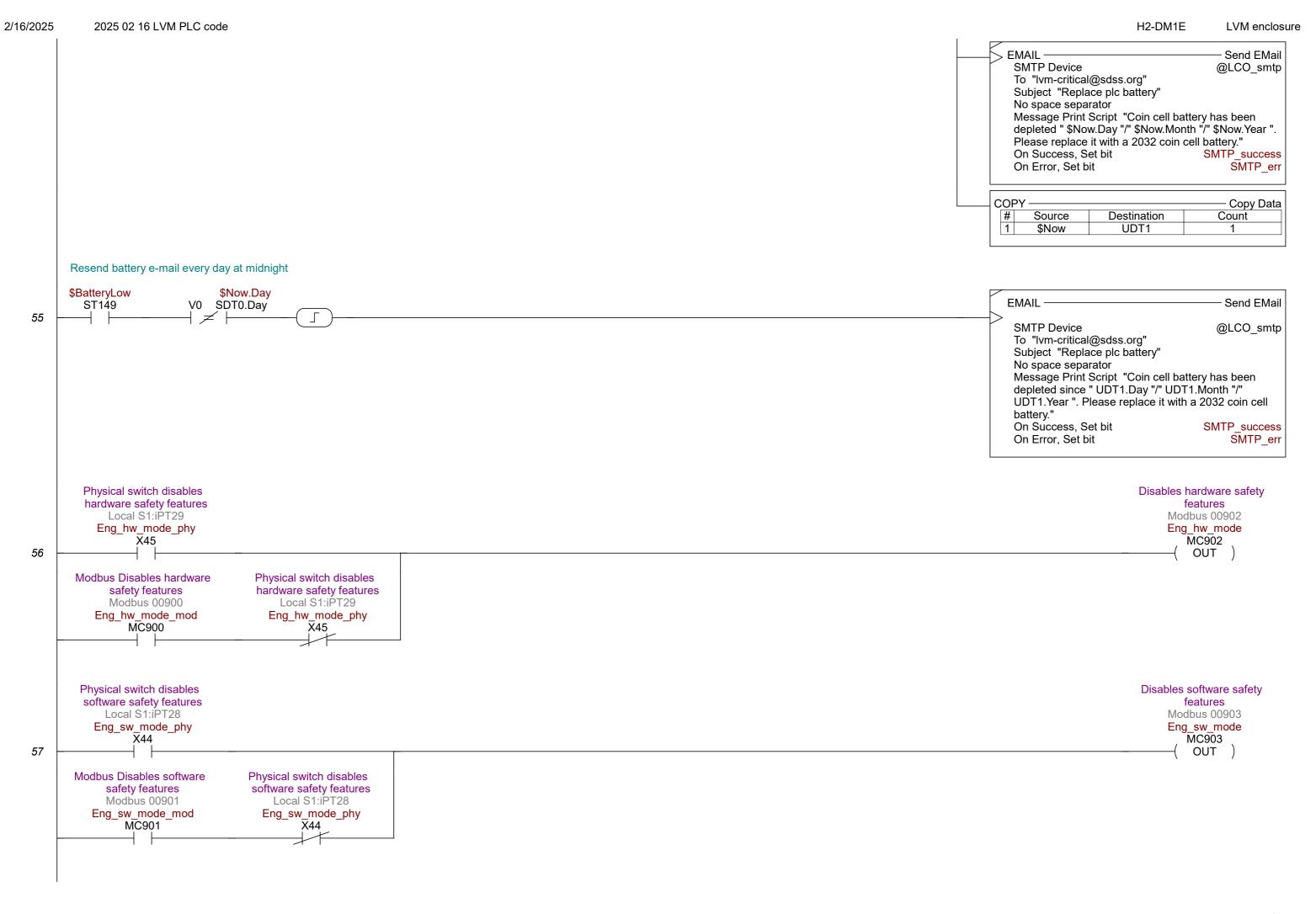
LVM enclosure











2/16/2025 2025 02 16 LVM PLC code LVM enclosure Max motor current for the VDF output current

Modbus 40415

Output_current

MHR415 D200

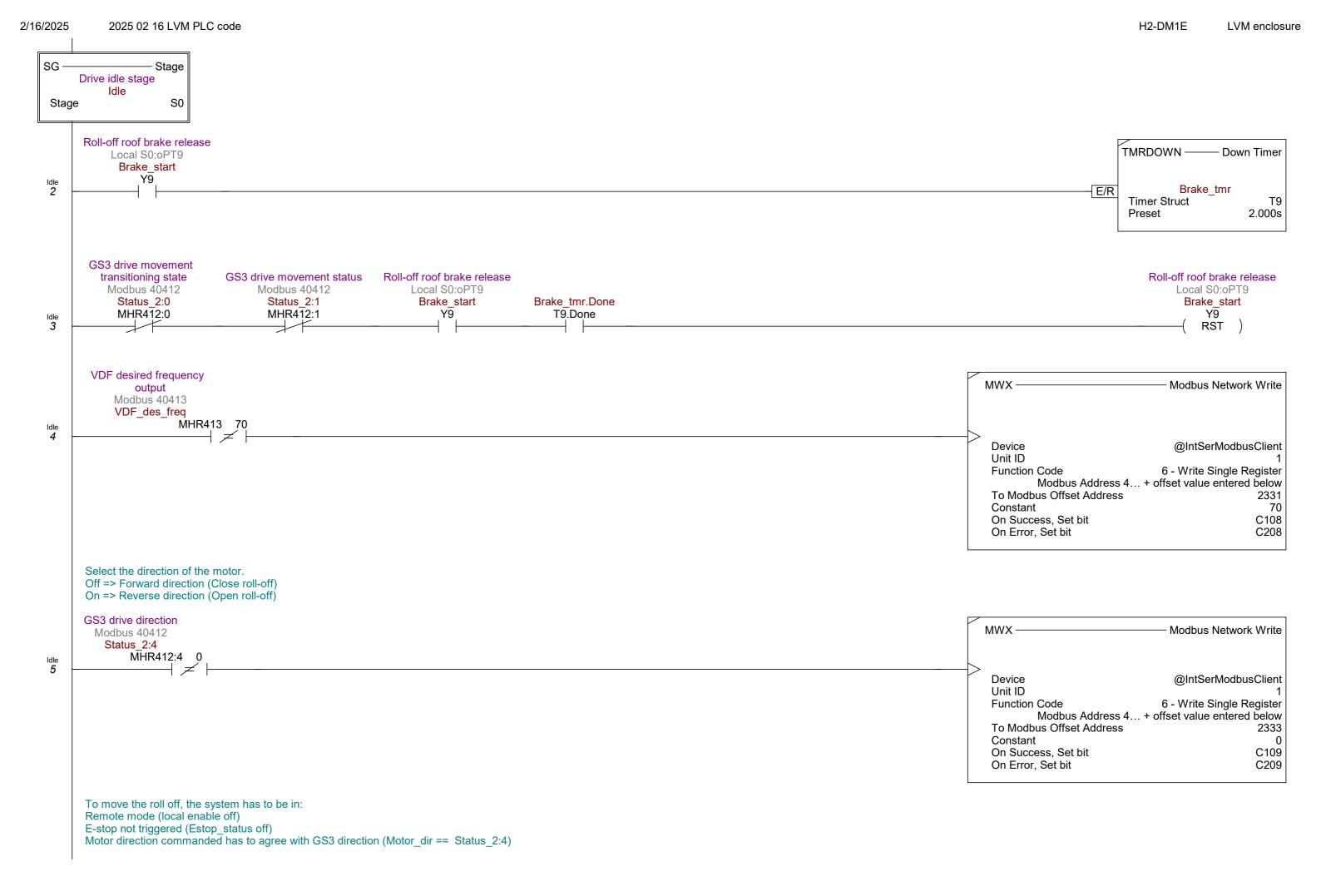
| > | las movement.
 COPY — Copy Data

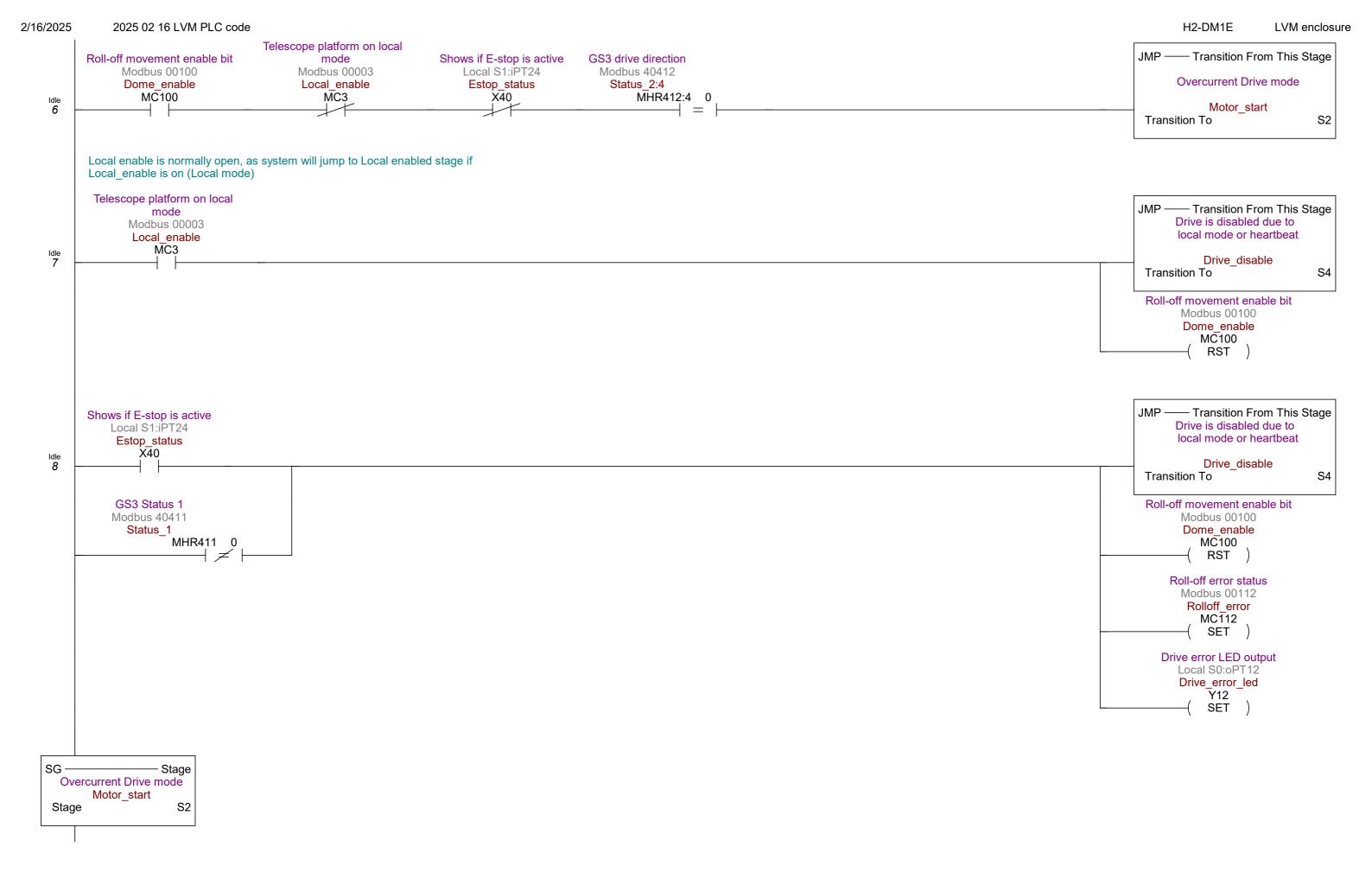
 #
 Source
 Destination
 Count

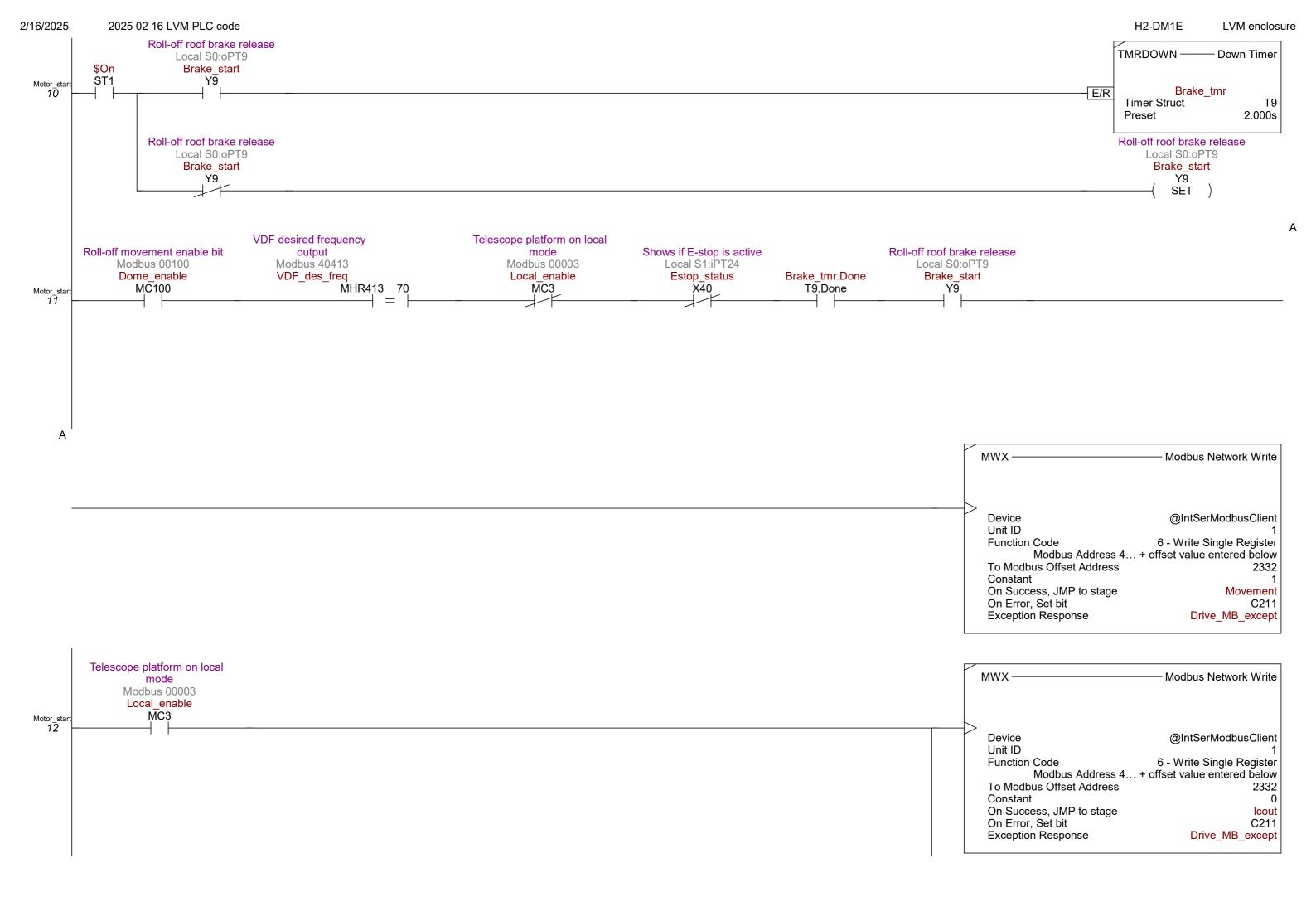
 1
 Output_current
 Max_VDF_Im
 1
 COPY -Max_VDF_Im 58 Roll-off movement enable bit Modbus 00100 COPY — Copy Data

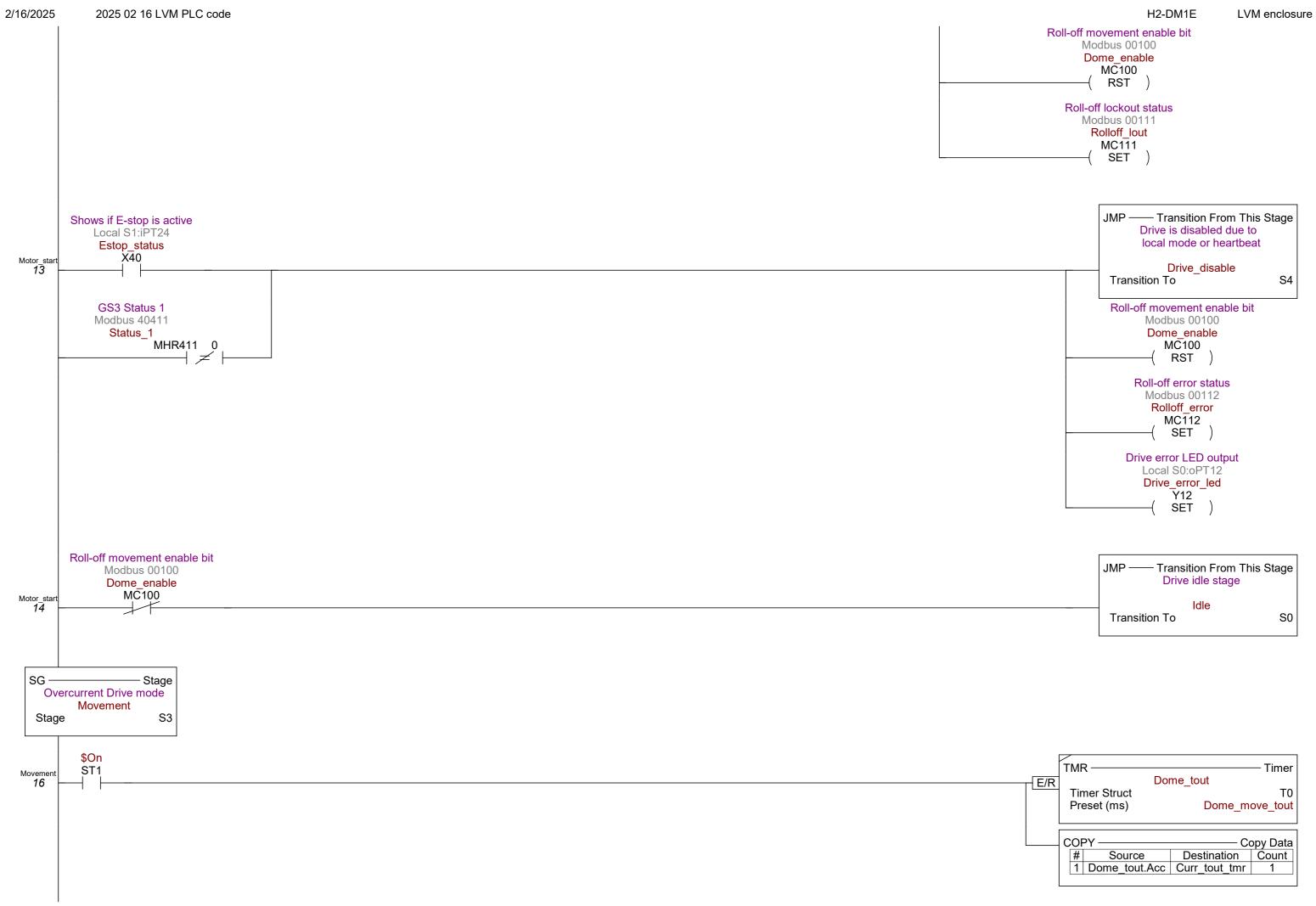
Source Destination Count
1 0 Max_VDF_Im 1 COPY -Dome_enable MC100 59 $I \subseteq I$ NOP) 60

H2-DM1E

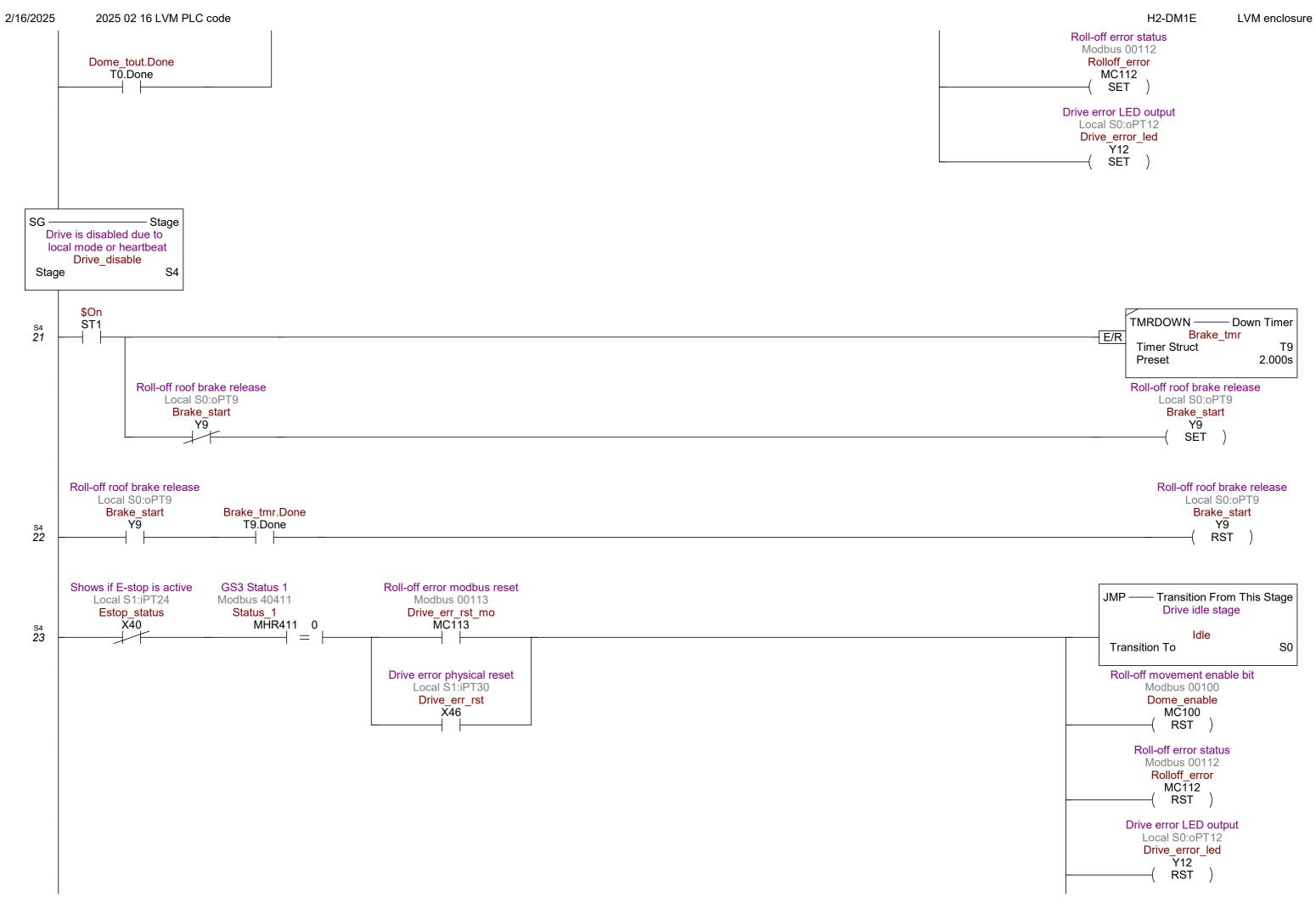


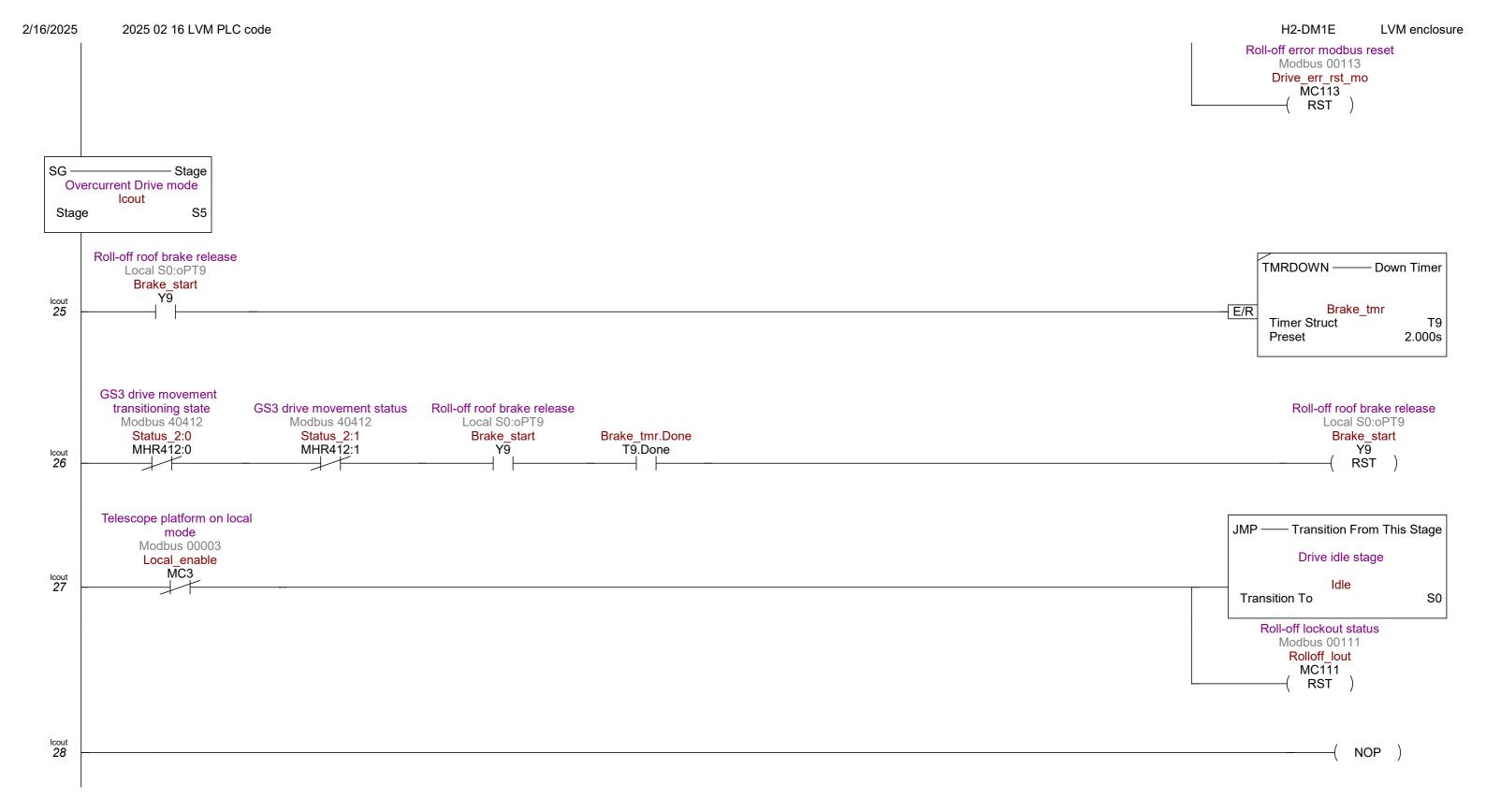


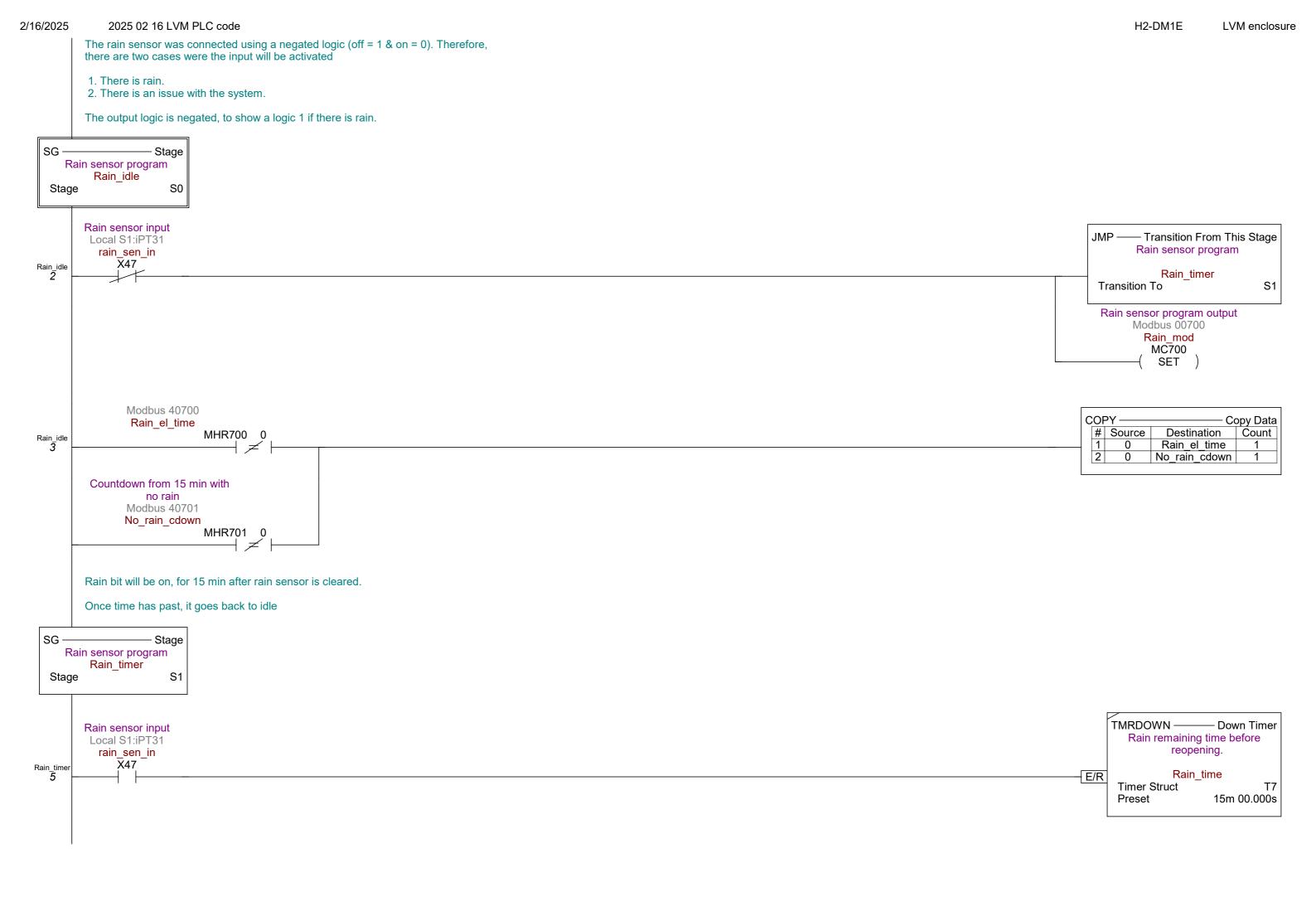




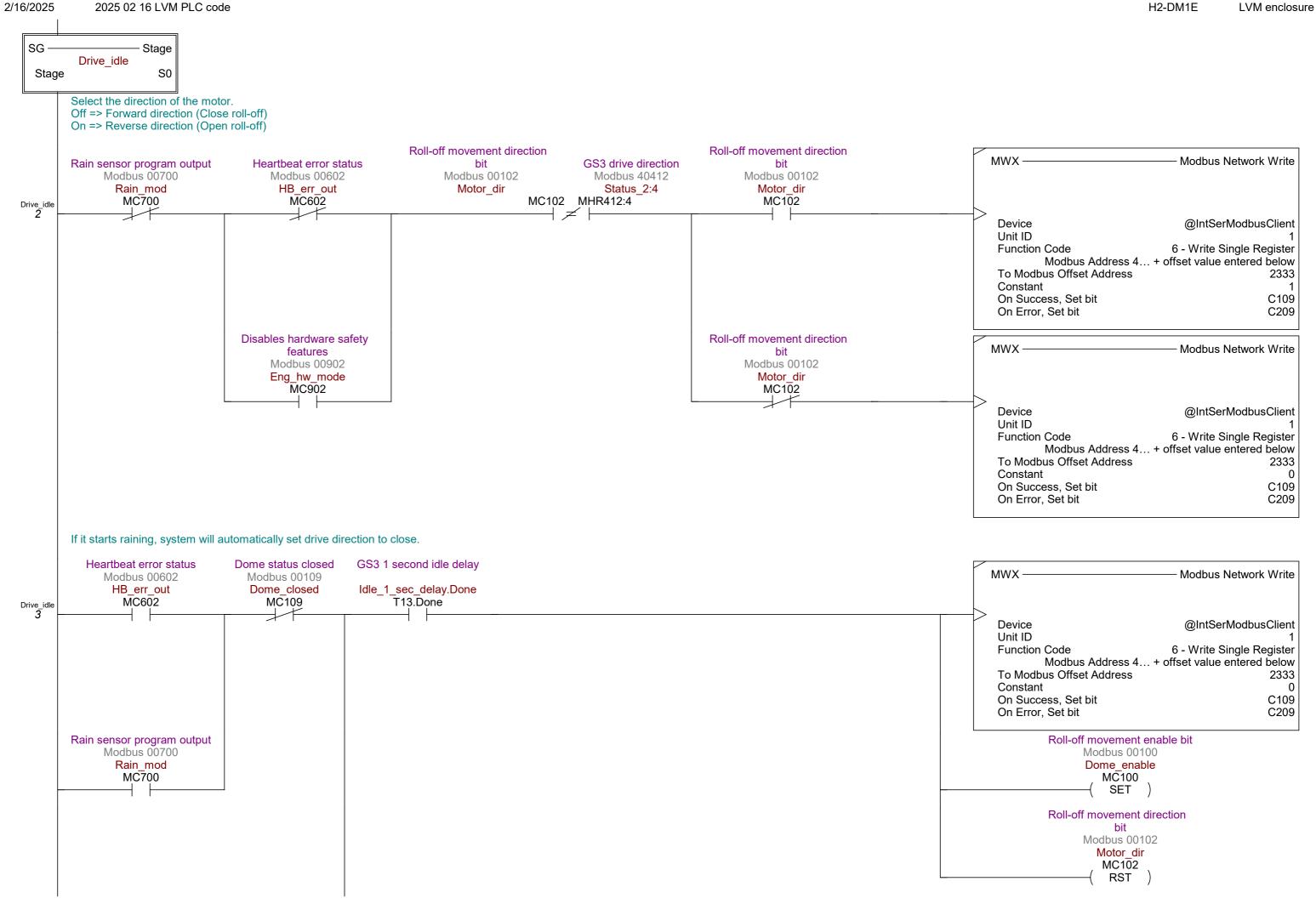
2/16/2025 2025 02 16 LVM PLC code H2-DM1E LVM enclosure GS3 drive movement transitioning state GS3 drive movement status Roll-off roof brake release Roll-off roof brake release Modbus 40412 Modbus 40412 Local S0:oPT9 Local S0:oPT9 Status 2:0 Status 2:1 Brake start Brake start MHR412:0 MHR412:1 Y9 Y9 RST 17 Set the parameters to stop the drive: - In case of current above 10 A (100) - In case of user command (MC 100) - Dome timeout (set to 2 min 25 sec) Disabled a lower value for overcurrent & timeout of 5 sec. If heartbeat is lost, wait to close, and jump to error state If local mode activated, stop dome and jump to error state. VDF output current GS3 Status 1 Shows if E-stop is active MWX: Modbus Network Write Modbus 40411 Local S1:iPT24 Modbus 40415 Dome tout.Done Output_current Status 1 Estop_status MHR415 120 T0.Done MHR411 0 X40 Movemer 18 \geq = Device @IntSerModbusClient Unit ID **Function Code** 6 - Write Single Register Modbus Address 4... + offset value entered below To Modbus Offset Address 2332 Constant On Success, JMP to stage Idle C212 On Error, Set bit **Exception Response** Drive_MB_except Roll-off movement enable bit Roll-off movement enable bit Modbus 00100 Modbus 00100 Dome enable Dome enable MC100 MC100 RST Telescope platform on local Roll-off roof brake release mode Modbus 00003 Local S0:oPT9 Local enable Brake_start MC3 Y9 SET GS3 Status 1 MWX Modbus Network Write Modbus 40411 Status 1 MHR411 0 Movemer 19 Device @IntSerModbusClient Unit ID 6 - Write Single Register **Function Code** Modbus Address 4... + offset value entered below To Modbus Offset Address 2332 Constant On Success, JMP to stage Drive disable On Error, Set bit C213 **Exception Response** Drive_MB_except Shows if E-stop is active Roll-off movement enable bit Local S1:iPT24 Modbus 00100 Estop status Dome enable X40 MC100 RST

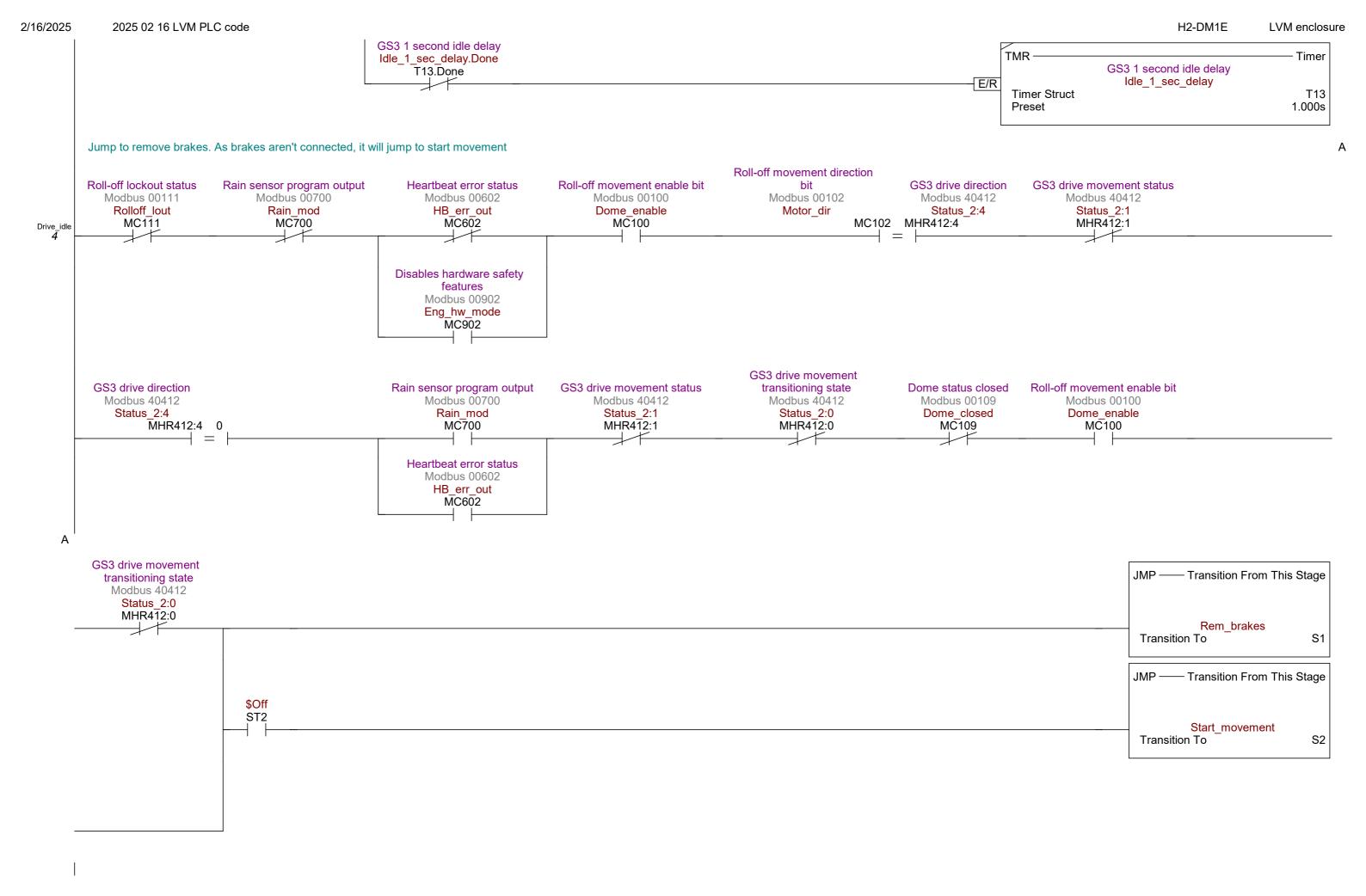


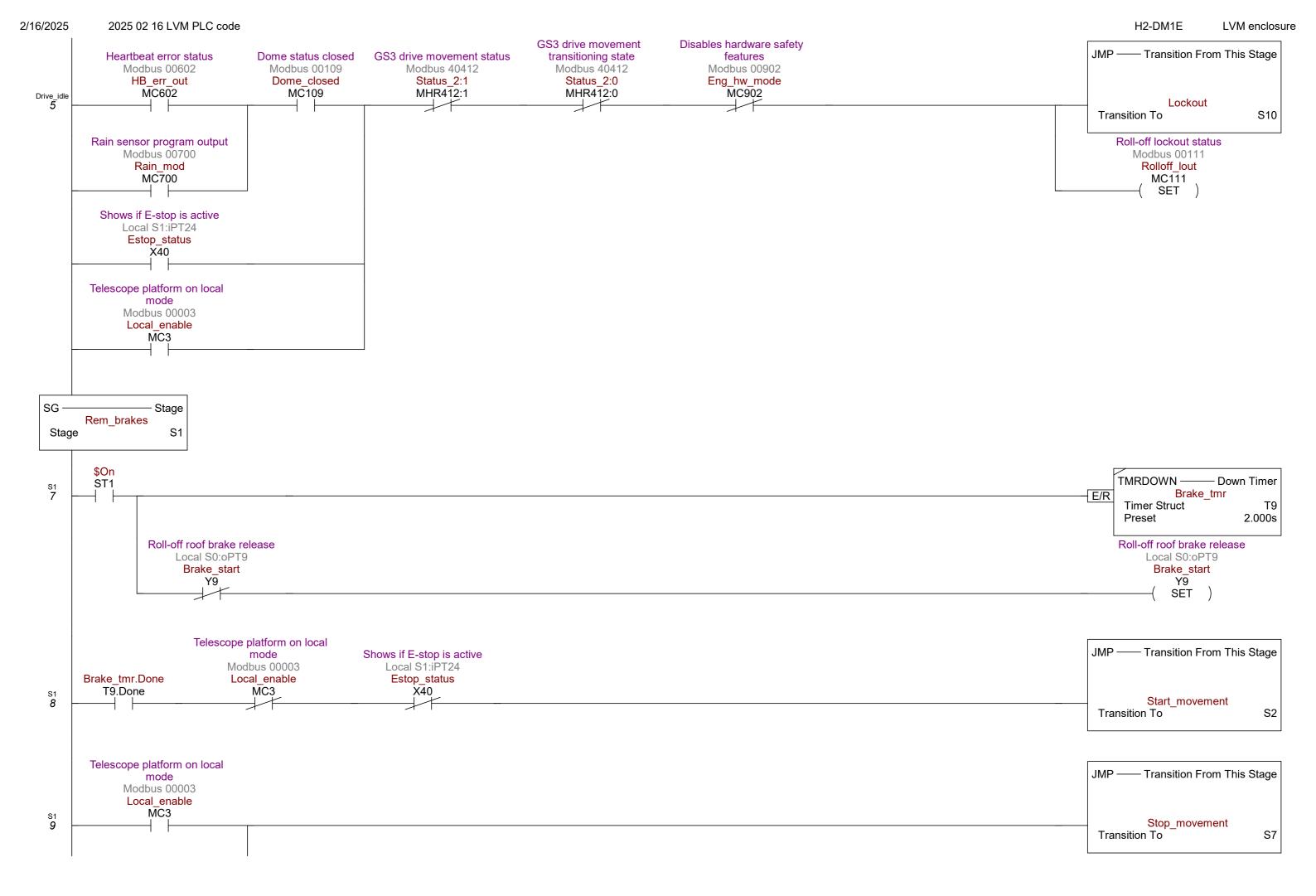


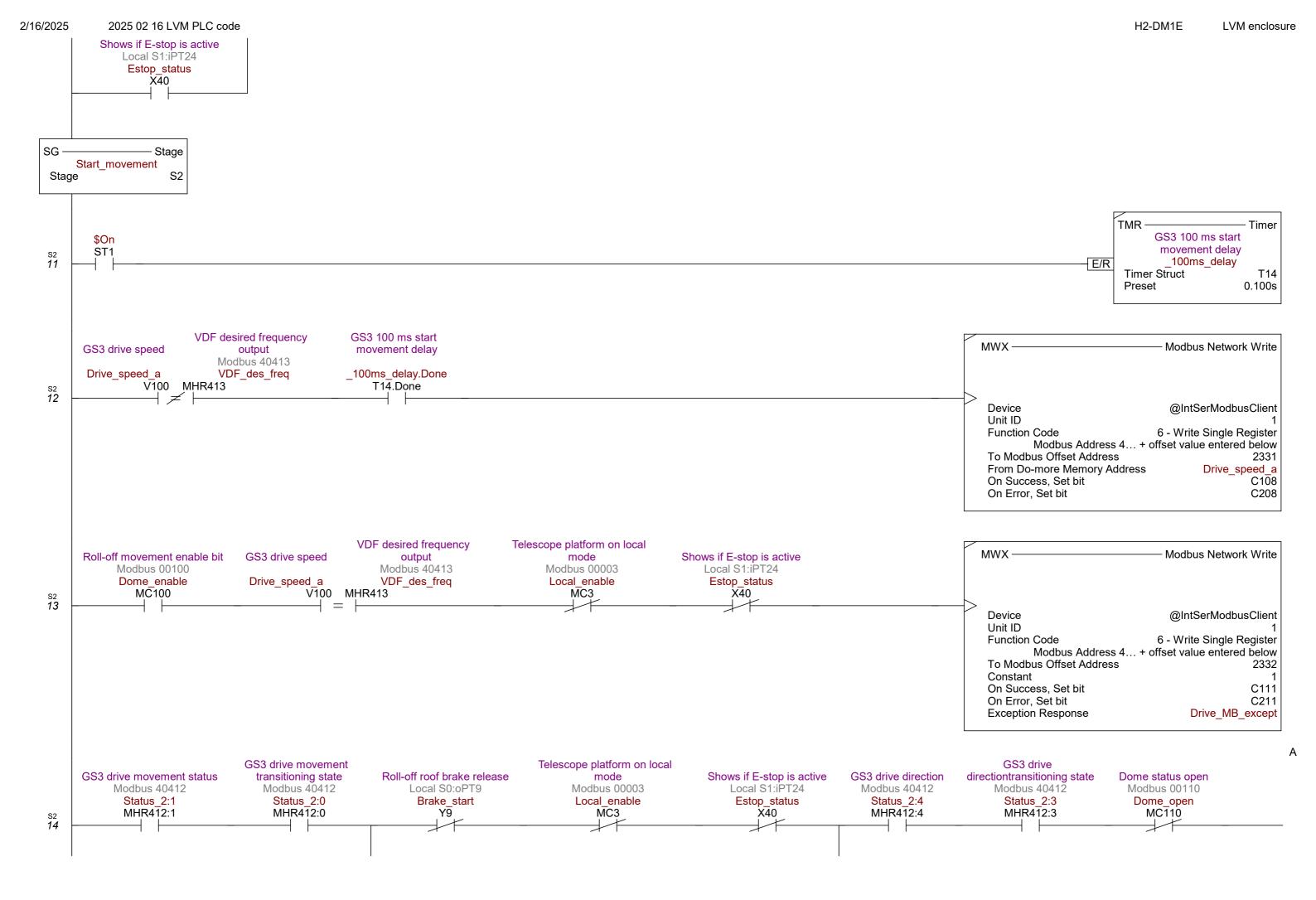


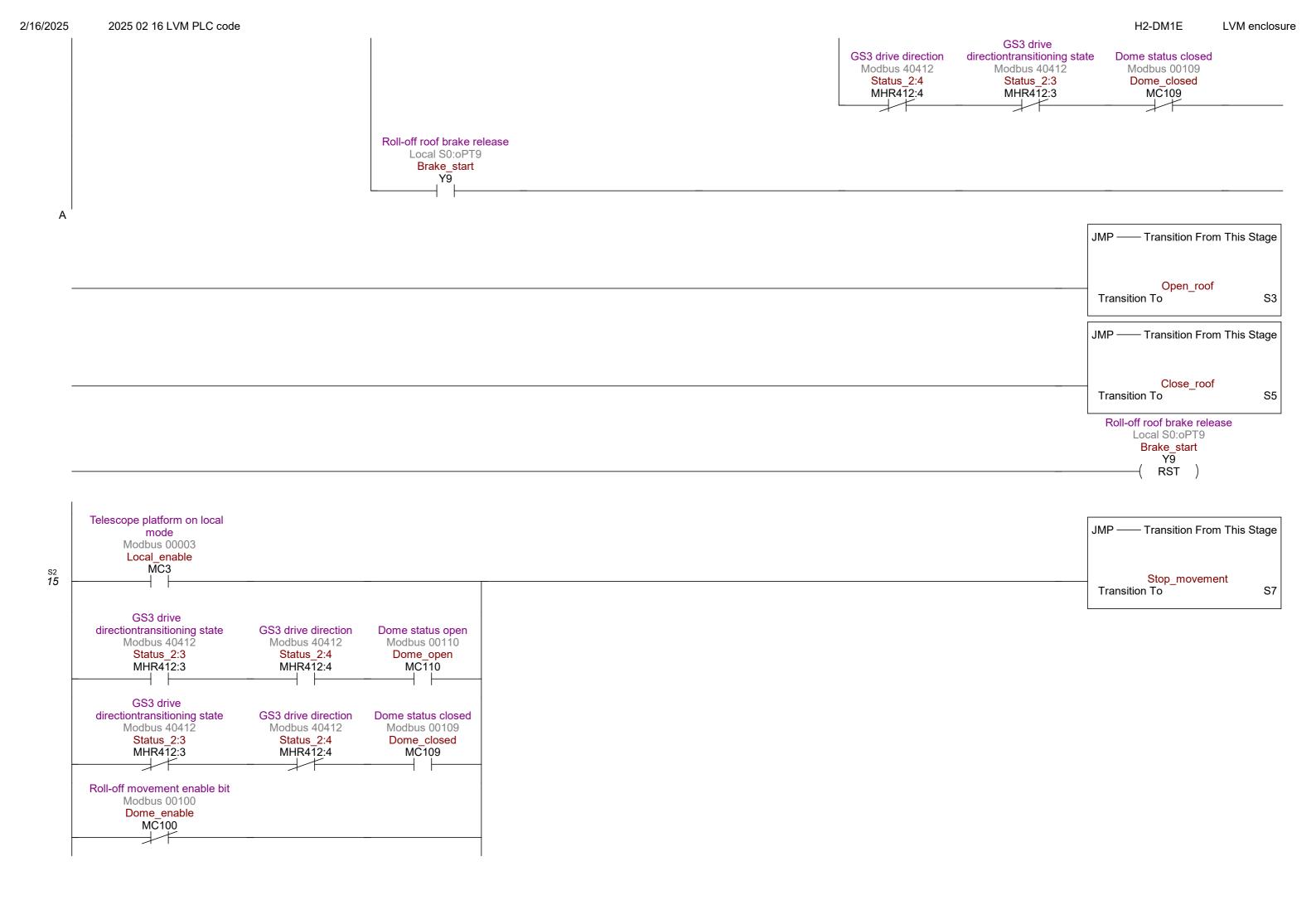


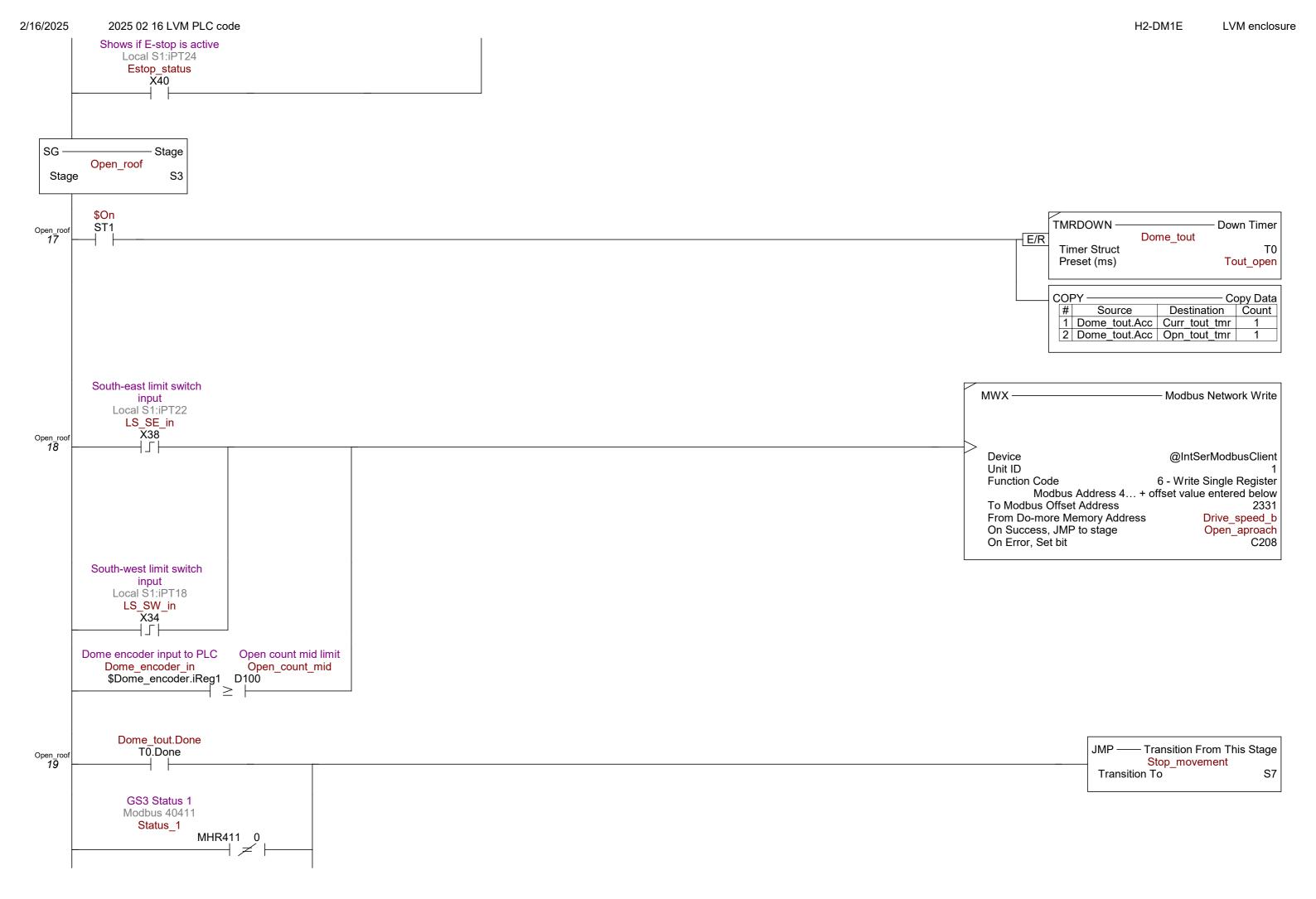


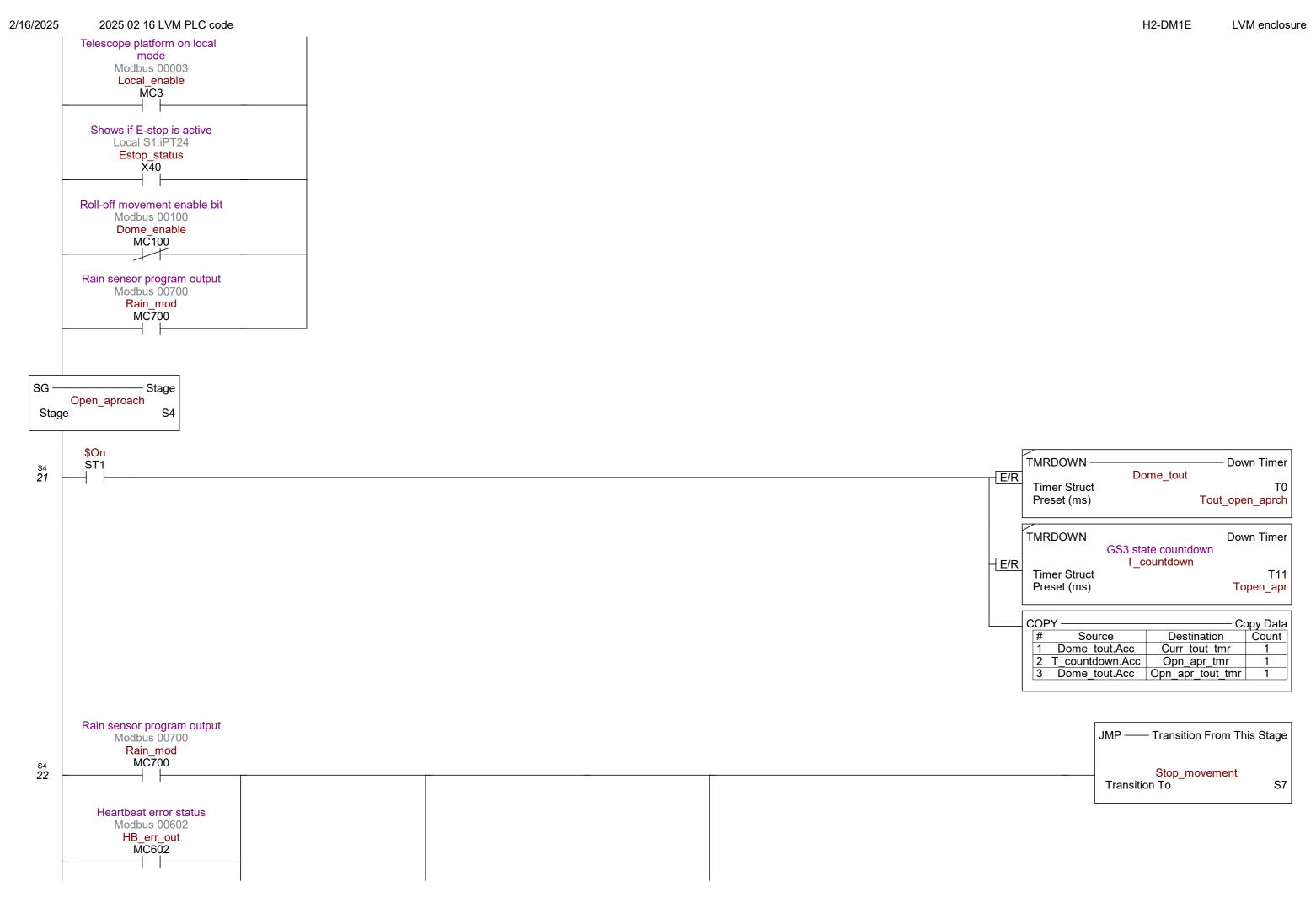


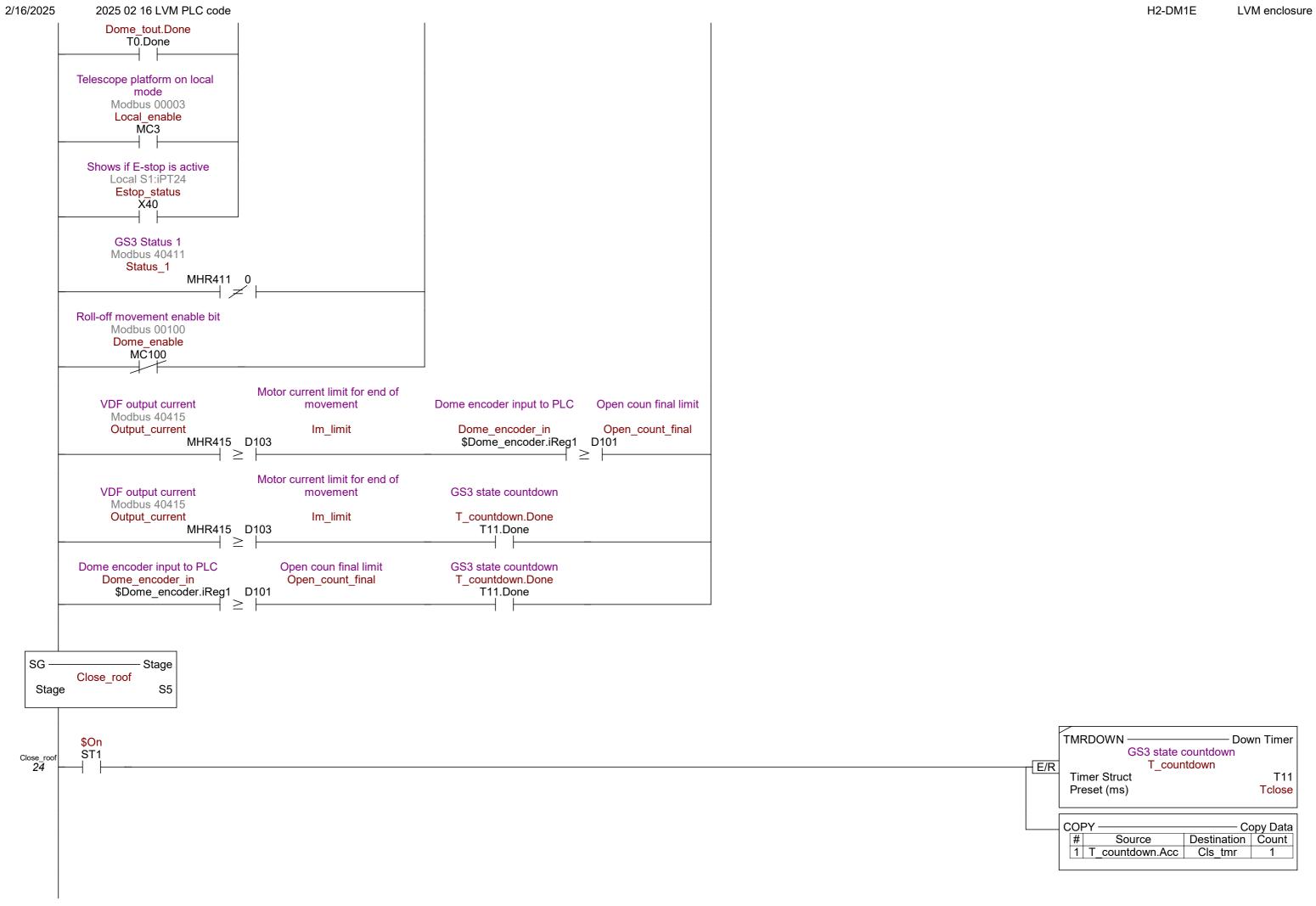


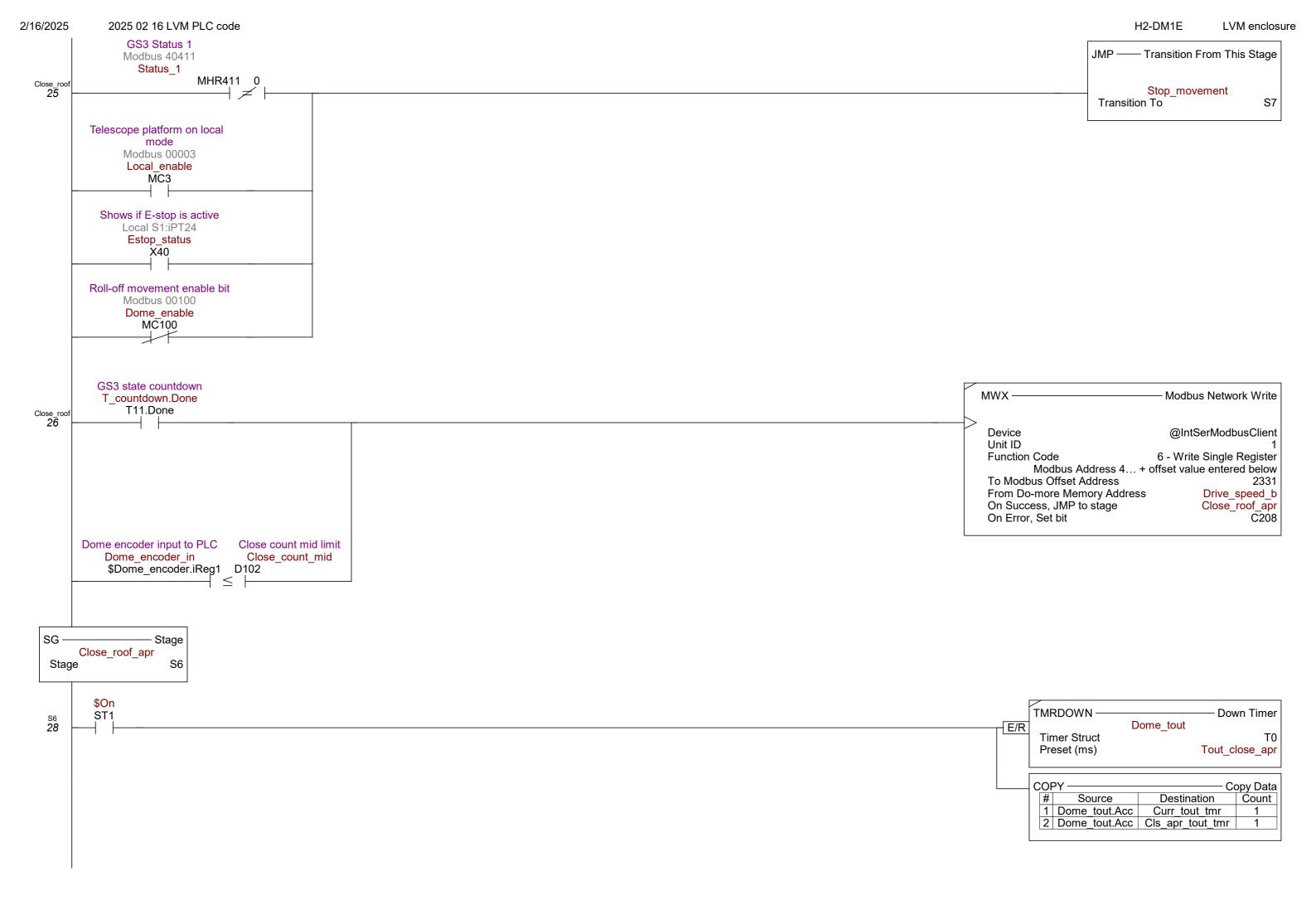


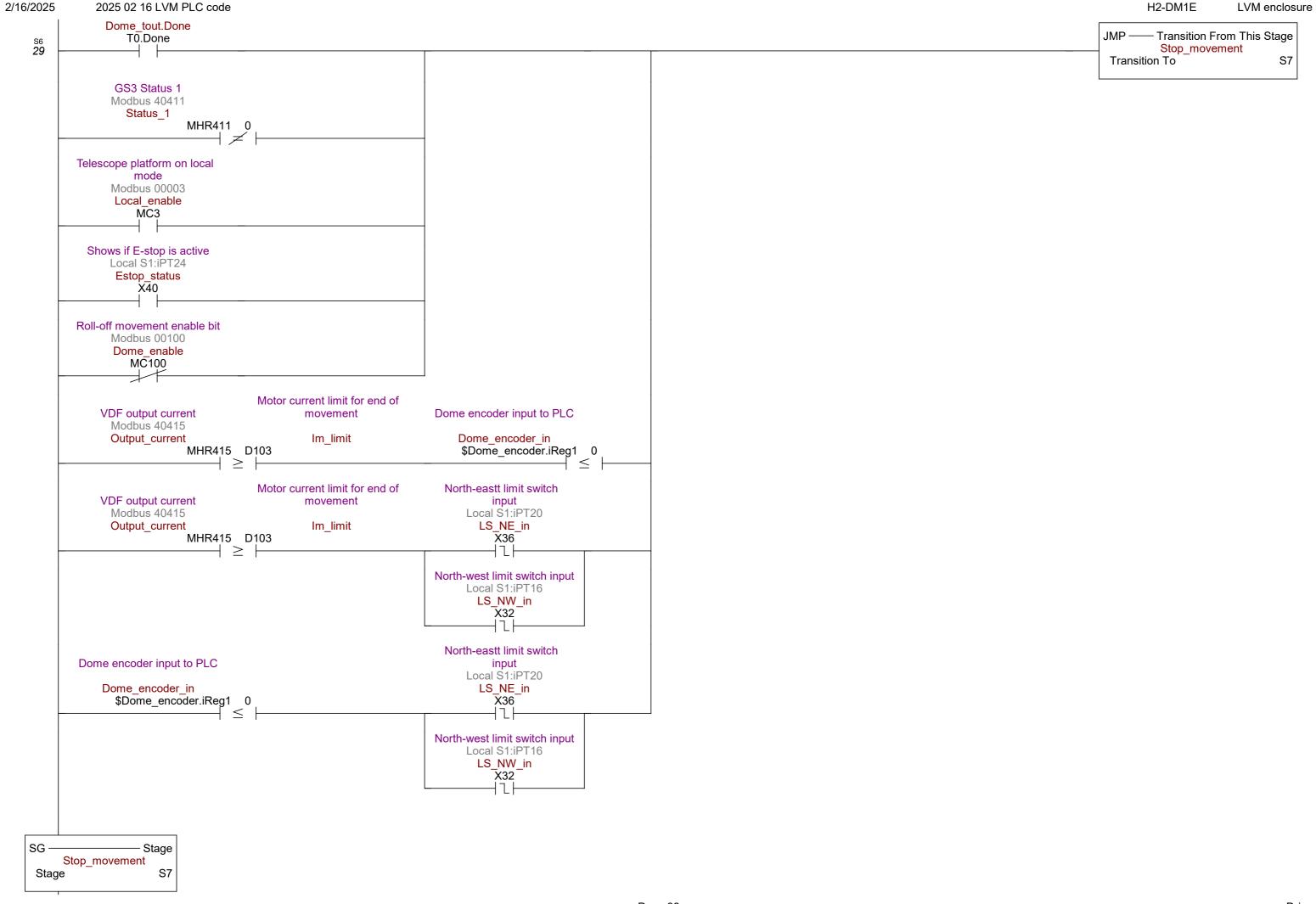


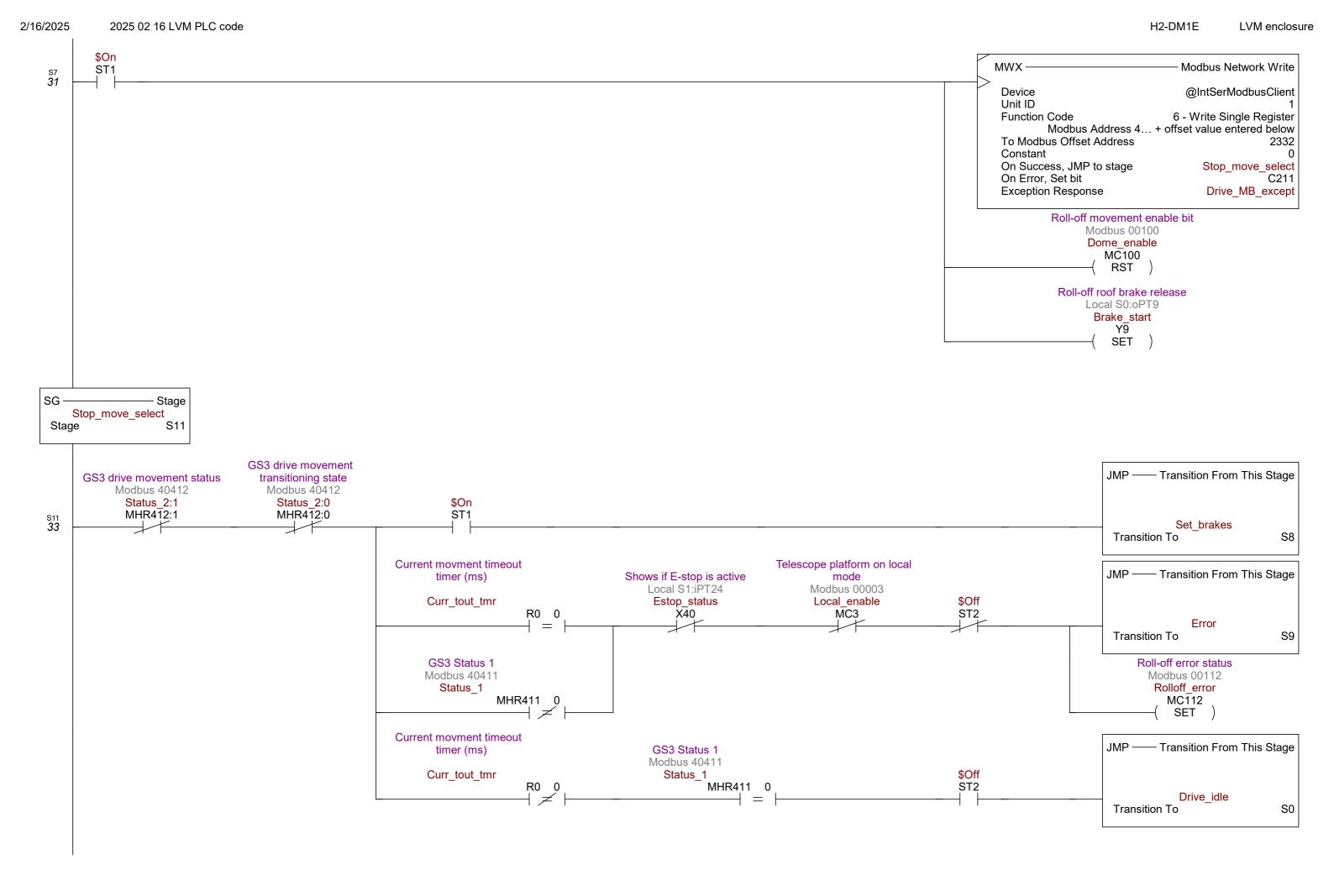


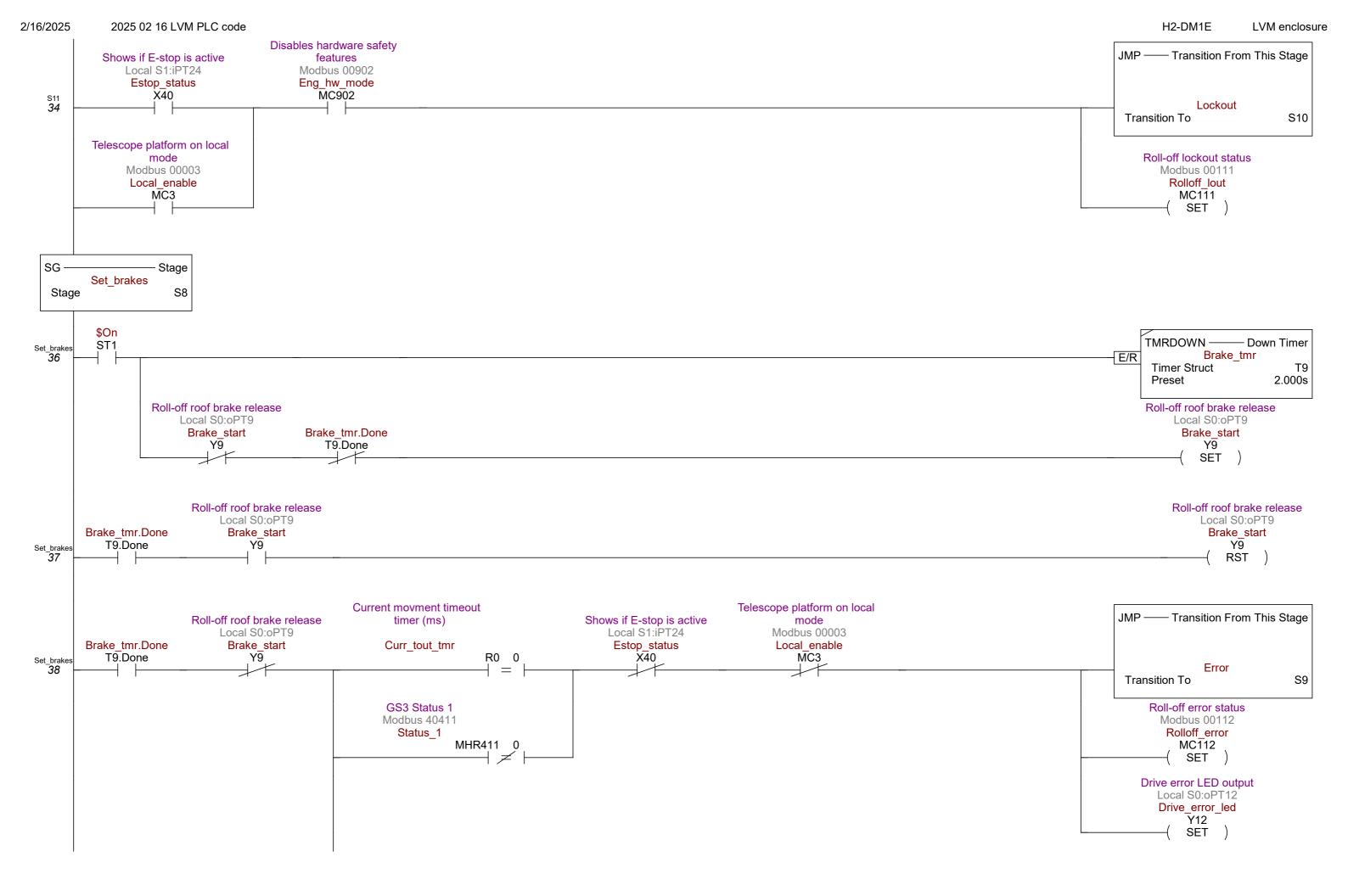


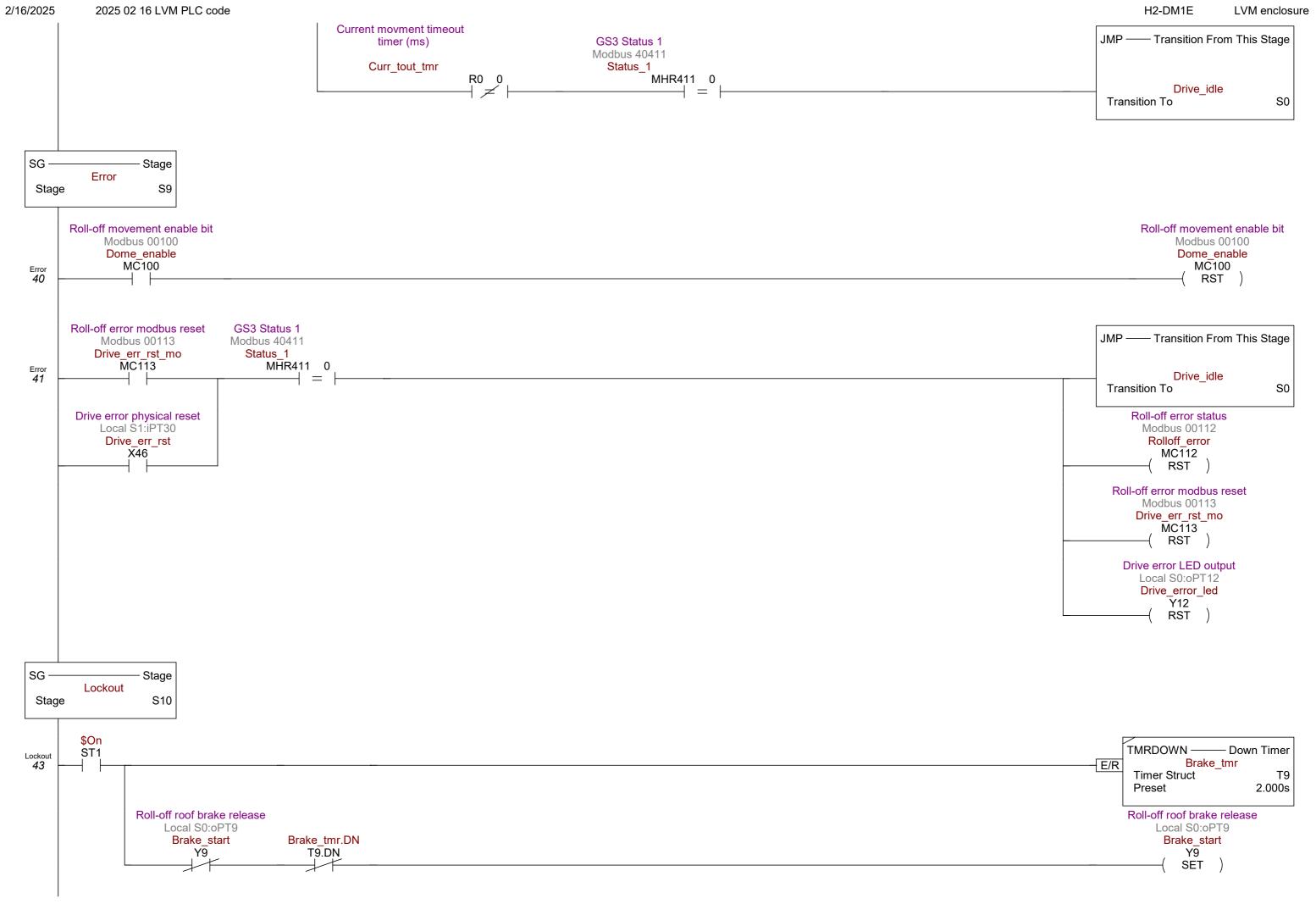




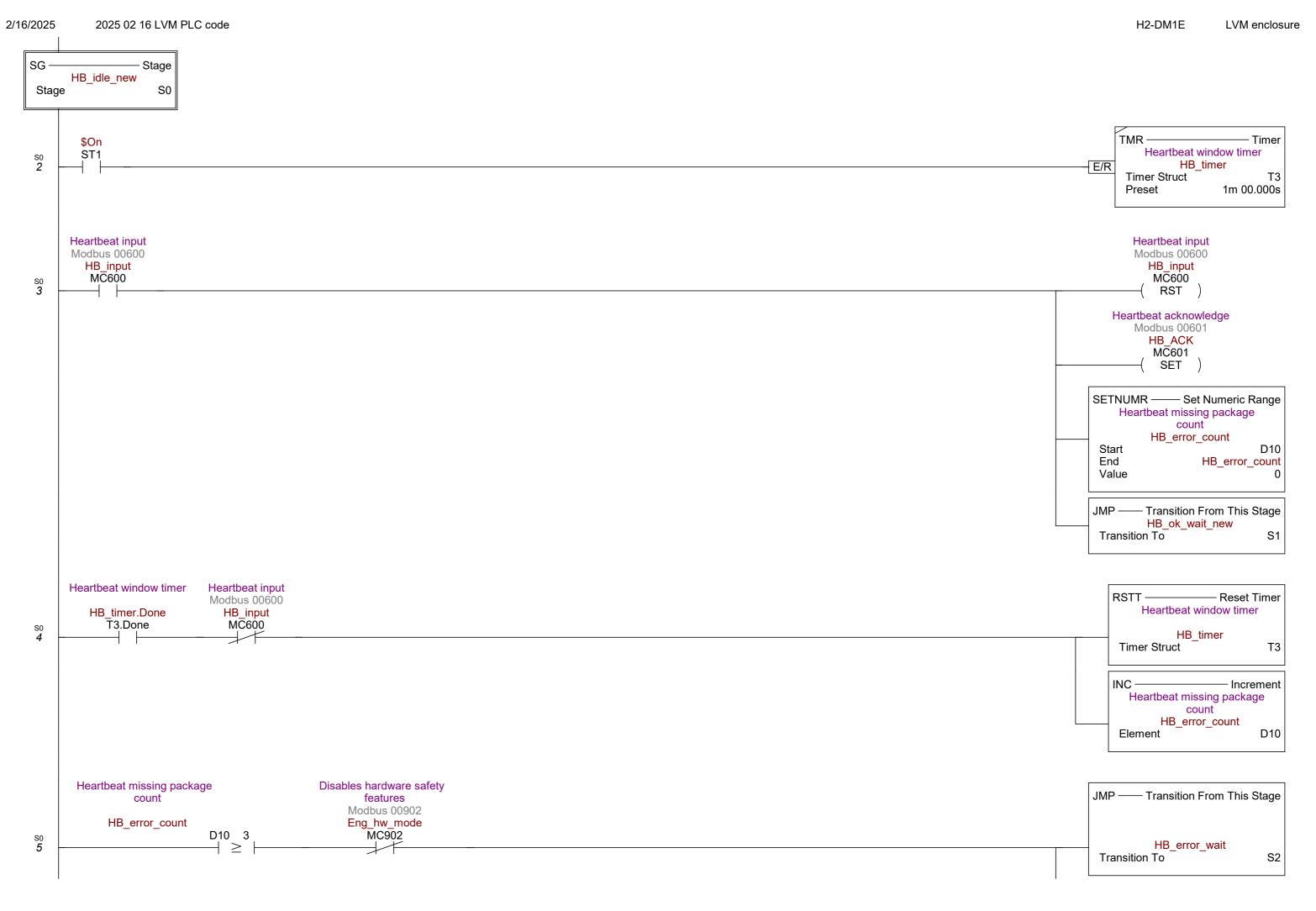


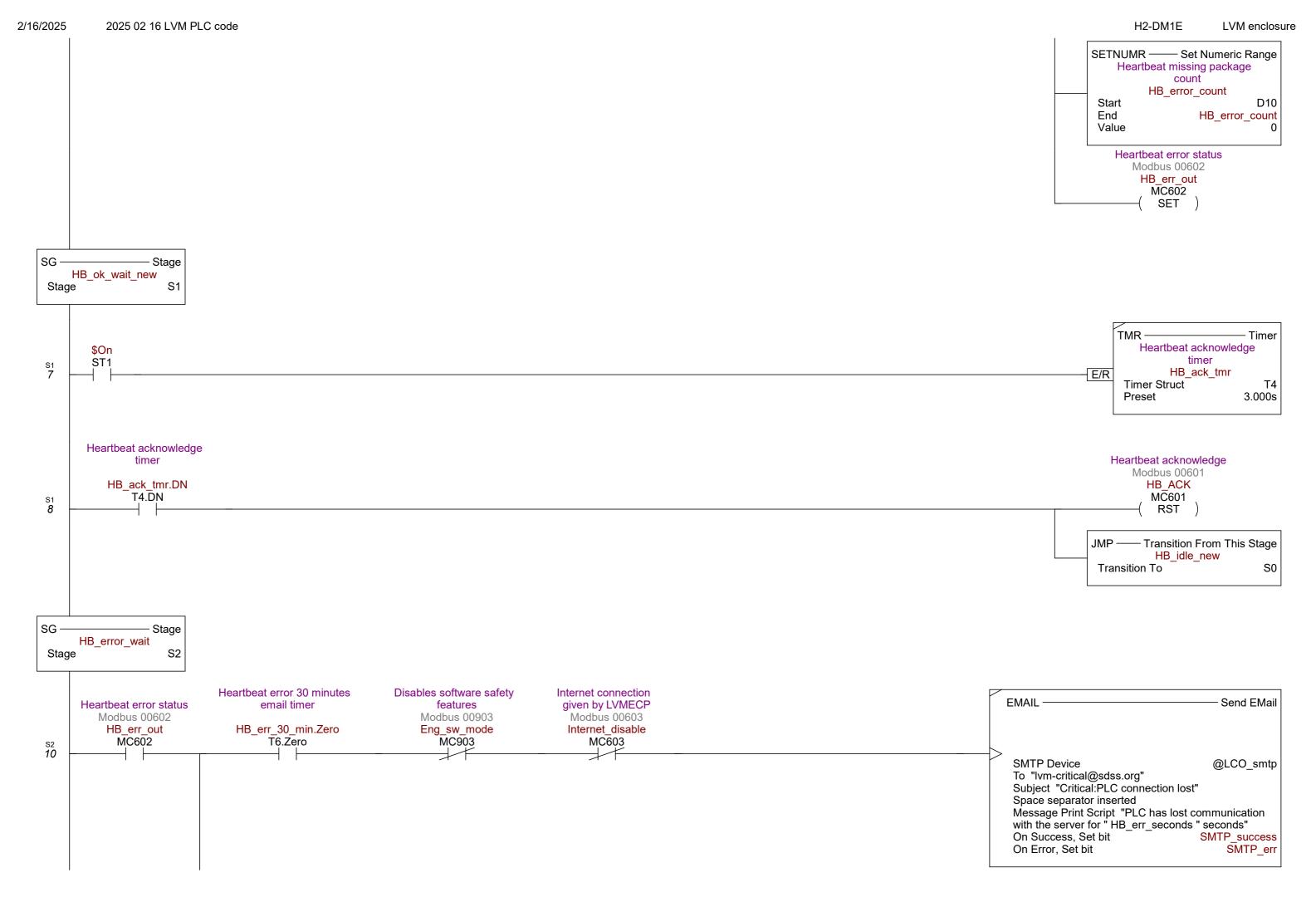


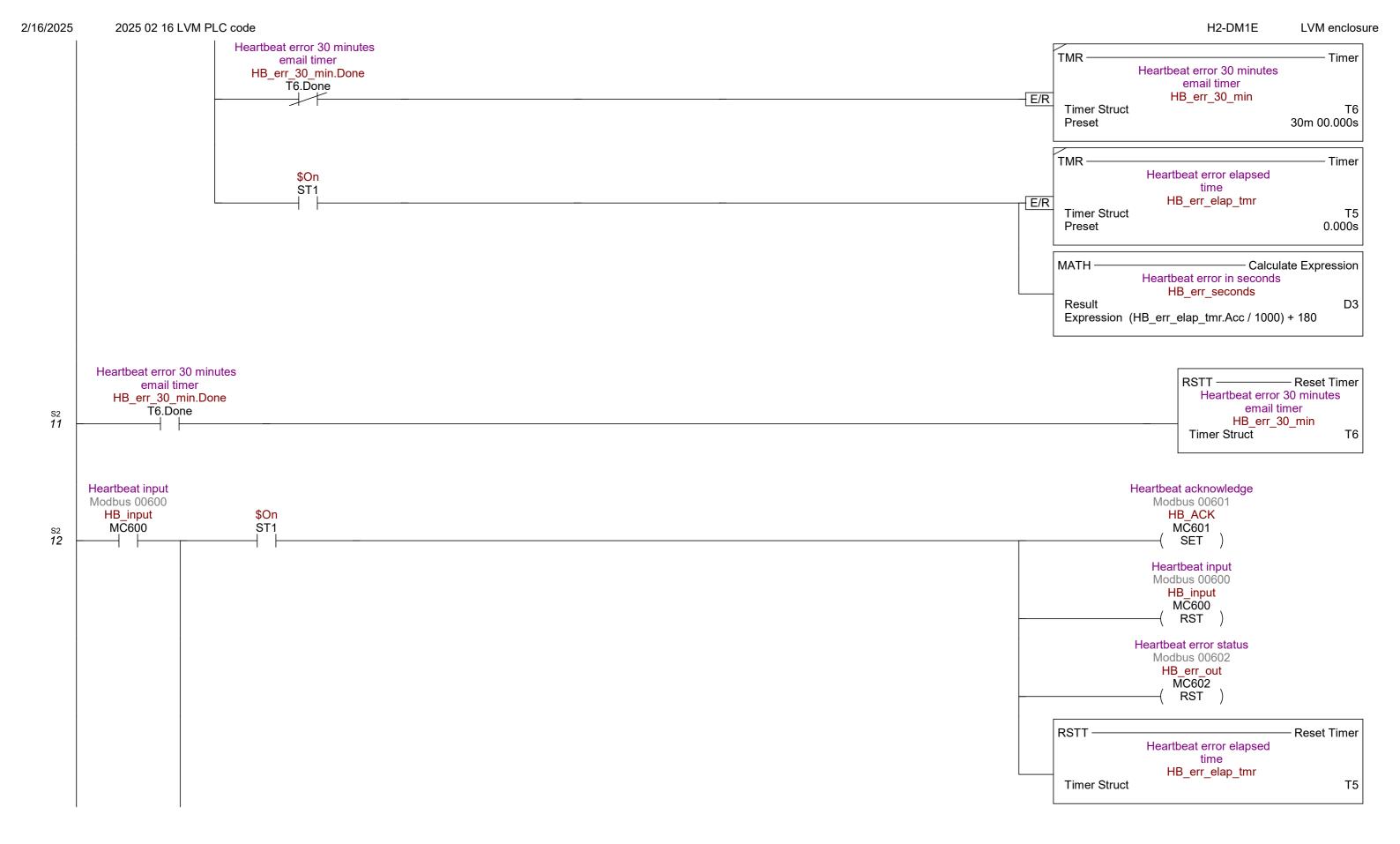


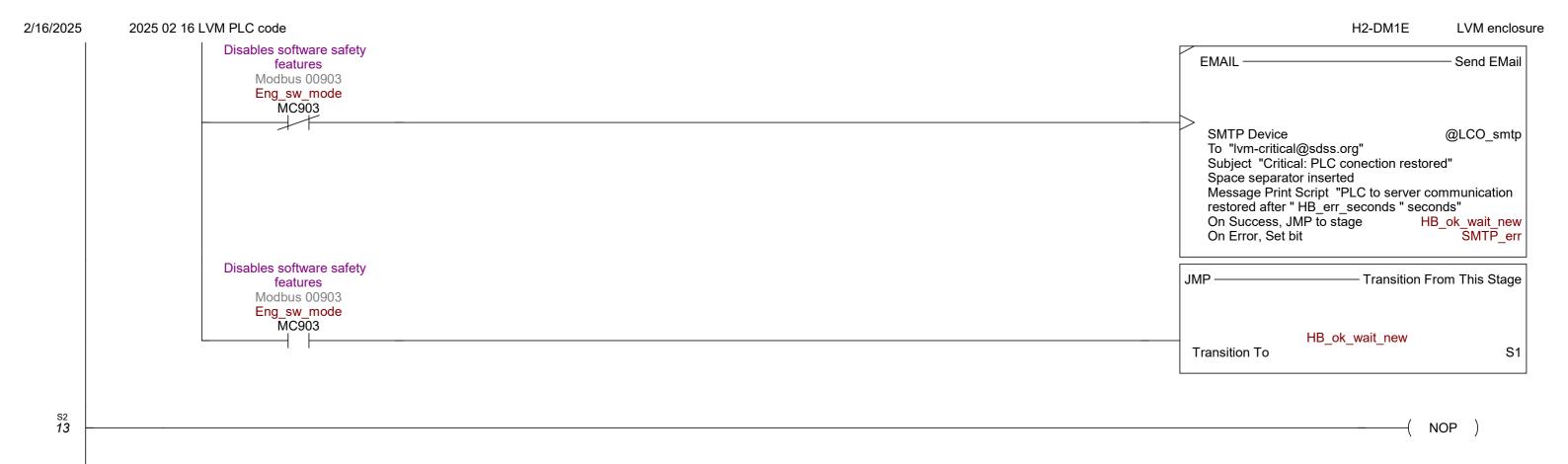


2/16/2025 2025 02 16 LVM PLC code H2-DM1E LVM enclosure Roll-off roof brake release Roll-off roof brake release Local S0:oPT9 Local S0:oPT9 Brake tmr.DN Brake_start Y9 Brake start T9.DN Y9 Lockout **44** RST Telescope platform on local JMP —— Transition From This Stage Heartbeat error status mode Shows if E-stop is active Rain sensor program output Modbus 00700 Modbus 00602 Modbus 00003 Local S1:iPT24 Rain_mod HB_err_out Local_enable Estop_status MC602 MC700 MC3 X40 Lockout Drive_idle 45 Transition To S0 Disables hardware safety features Roll-off lockout status Modbus 00902 Modbus 00111 Eng_hw_mode MC902 Rolloff lout MC111 -(RST) Roll-off movement enable bit Modbus 00100 Dome_enable MC100 RST) Roll-off movement enable bit Roll-off movement enable bit Modbus 00100 Modbus 00100 Dome enable Dome enable MC100 MC100 Lockout **46** RST Lockout 47 NOP









Page 46 Heartbeat

