Comment

This program is buffered for limit switch contact bounce.

The firemen at this time 8-1-18 did not want the dorm lights coming on

at night when they return from a run. Just app bay Its. Will need to run a signal over to other Smart relay

if / when they do want it.

9-12-18 Added AES SIGNAL on prgrm

1-16-19 rework cosmetics on progrm with no major changes

1-24-19 dwnlded new program to smart, reset all cntrs to zero, cnts read== ex fan hrs 76hr 14min,

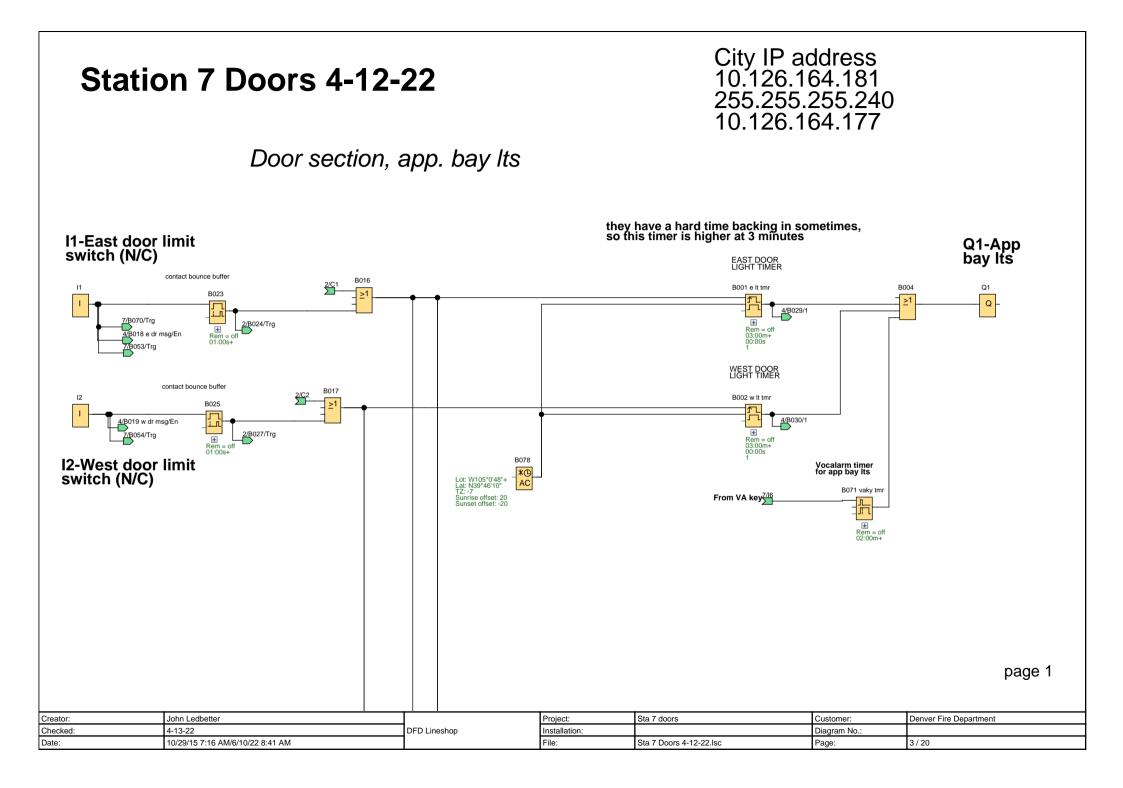
ex fan cnt 5465, e dr cnt 2966, wdr cnt 765, sw tmr cnt 0, sw on cnt 16 3-24-22 counts read AES OUT 43, FAN CRNT 36945, FAN ON C 36950, exfanhrs 477h 52m, exfancnt 36950, e dr cnt 19667,w dr cnt 4977, sw tm cn 0, sw on cn 47,

3-25-22 all counts to zero

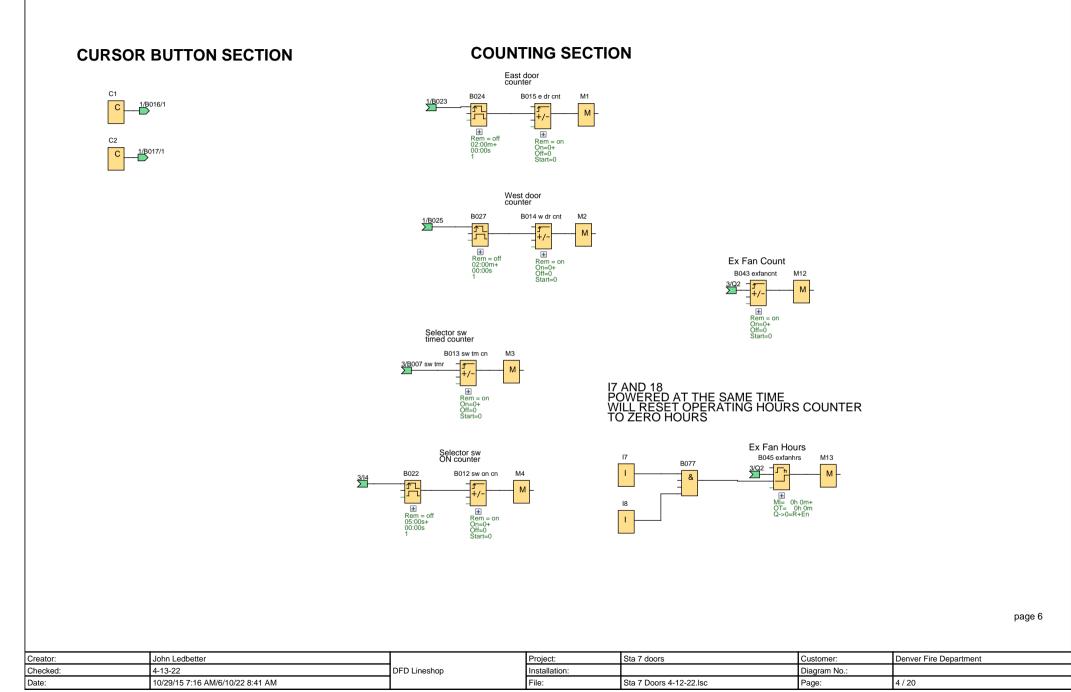
4-13-22 type FS-05 verified, connected to city network, online test good, all counts to zero,

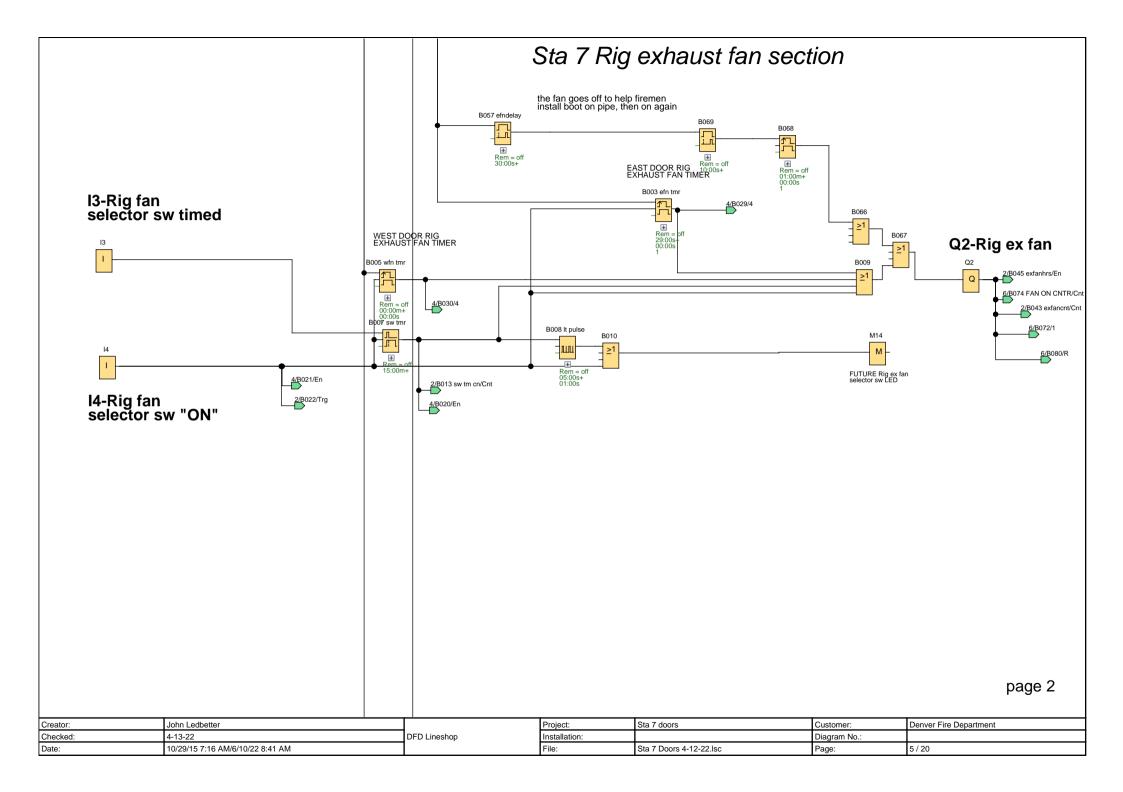
Creator:	John Ledbetter		Project:	Sta 7 doors	Customer:	Denver Fire Department
Checked:	4-13-22	DFD Lineshop	Installation:		Diagram No.:	
Date:	10/29/15 7:16 AM/6/10/22 8:41 AM		File:	Sta 7 Doors 4-12-22.lsc	Page:	1 / 20

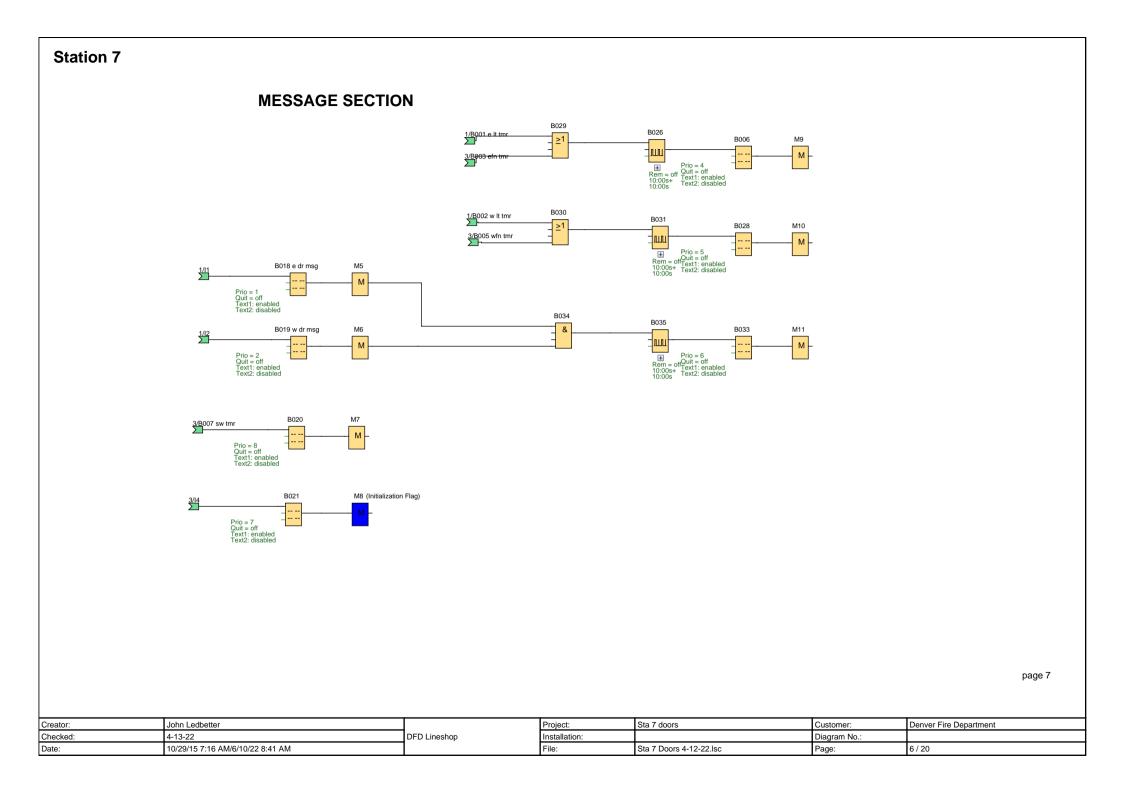
Module	Address						
IP Addre Subnet M Default g	ss 1 Mask: 2 gateway 1	0.126.164.181 255.255.255.240 10.126.164.177					
4	1			Destant			
eator: ecked:	John Ledbetter 4-13-22		DFD Lineshop	Project: Installation:	Sta 7 doors	Customer: Diagram No.:	Denver Fire Department
te:	10/20/15 7:14 4	M/6/10/22 8:41 AM	Di Di Linconop		Sta 7 Doors 4-12-22.lsc	Page:	2 / 20
	10/28/10 /.10 /			1 110.	010 1 20013 4-12-22.130	i aye.	2120

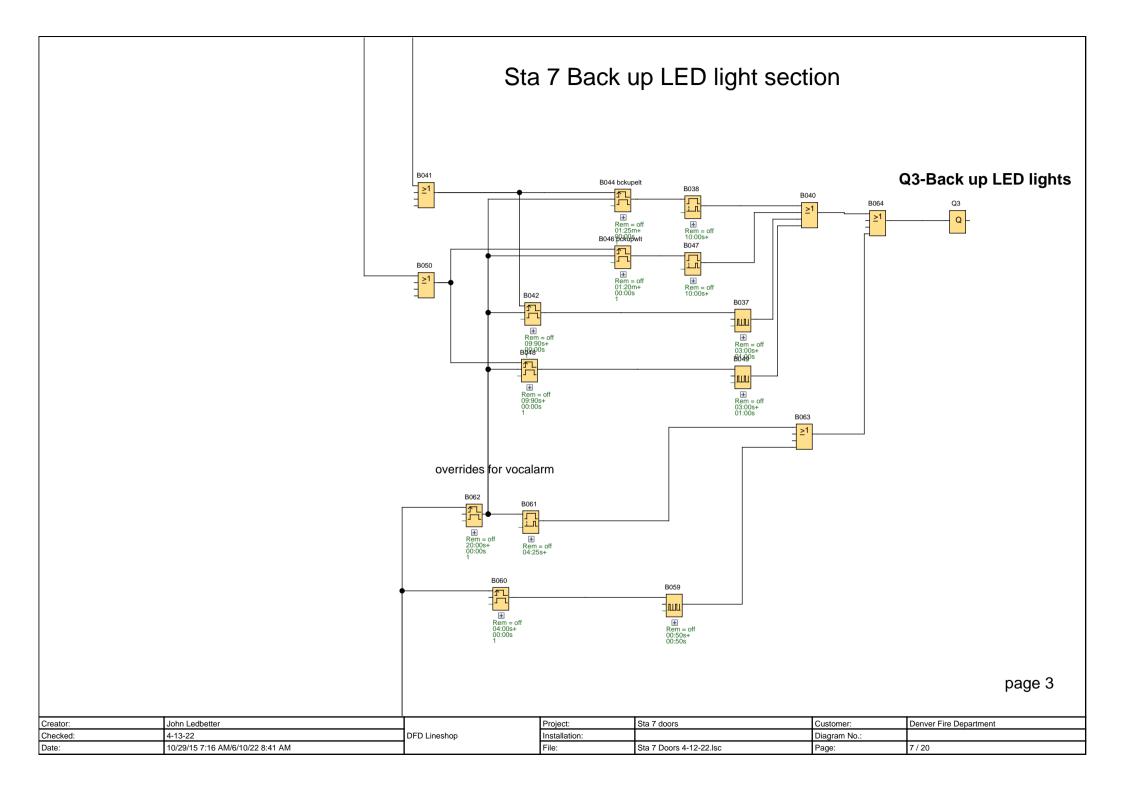


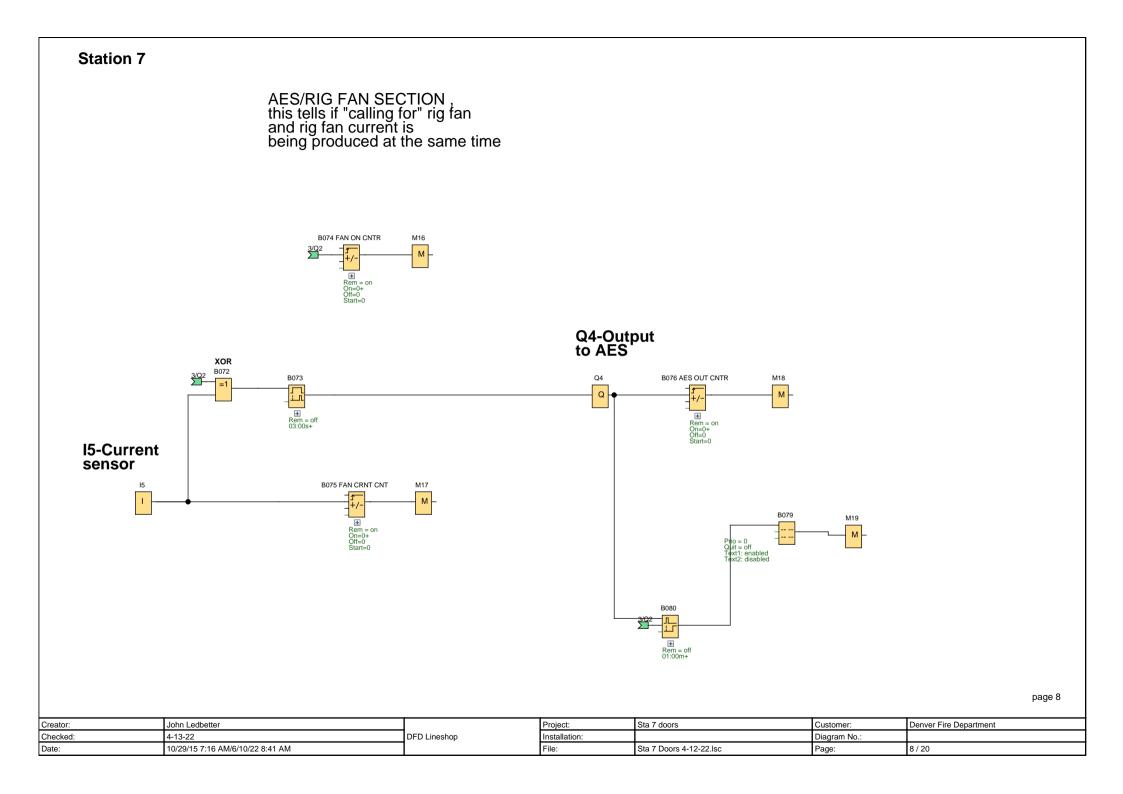
Station 7

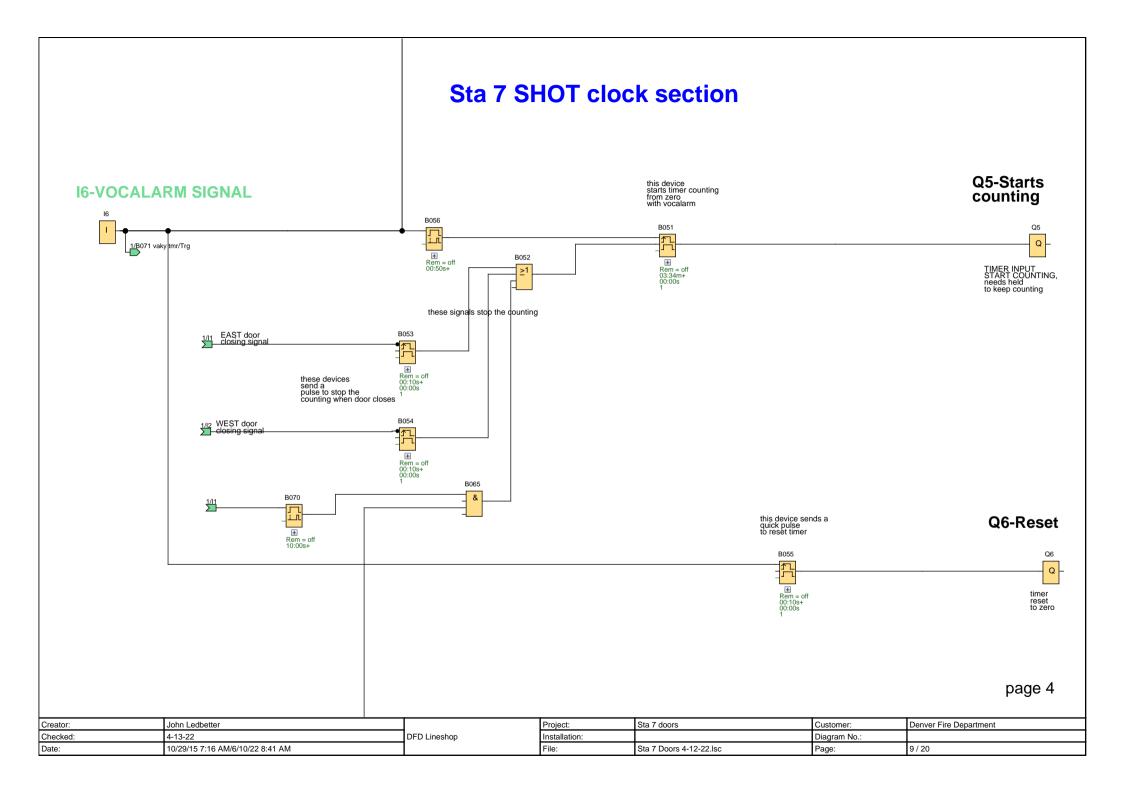


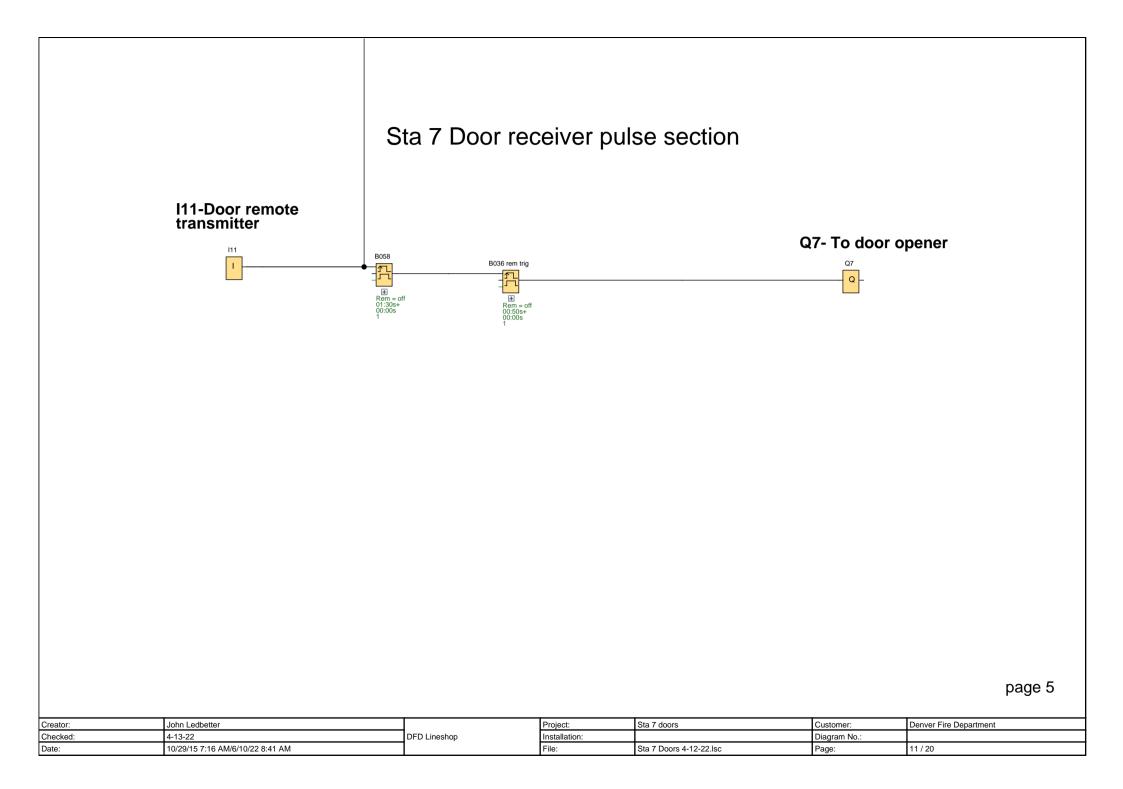




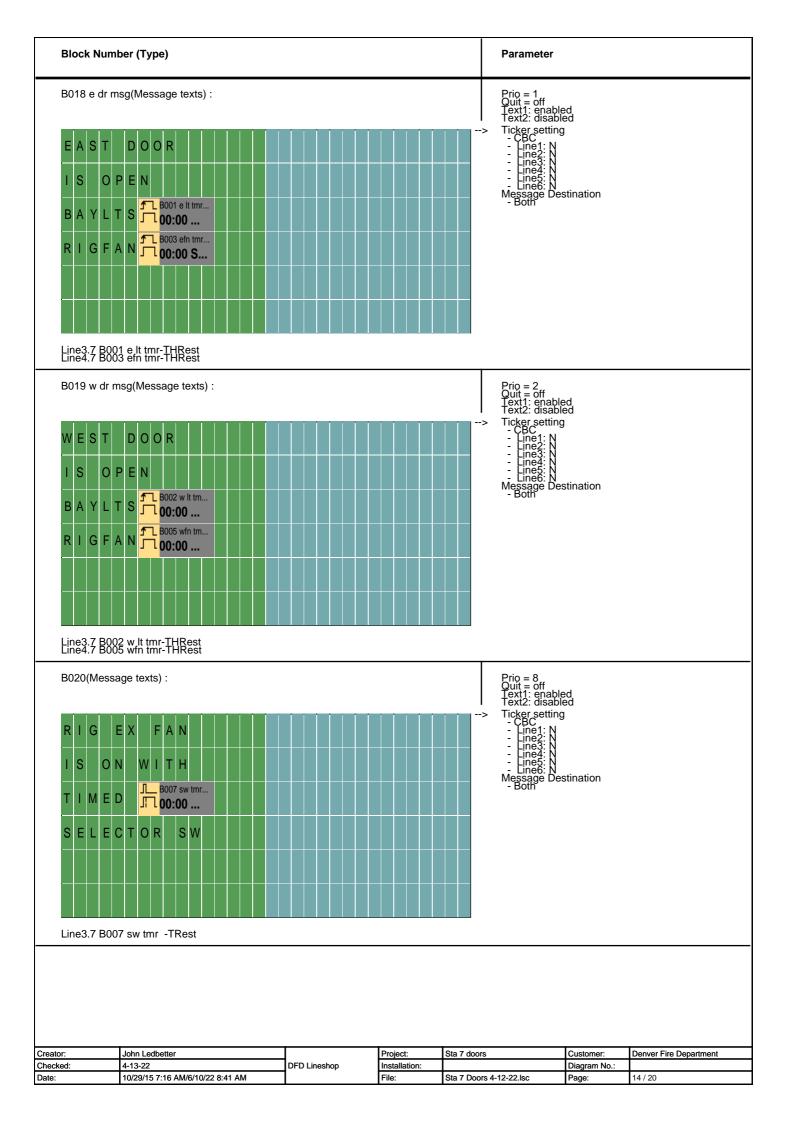








Block Num	Block Number (Type)					Parameter			
B001 e lt tmi EAST DOOF LIGHT TIME	(Edge-triggered interval time-delay R	relay) :			Rem = off 03:00m+ 00:00s 1				
B002 w.lt.tm WEST DOO LIGHT TIME	r/Edge-triggered interval time-delay R	/ relay) :			Rem = off 03:00m+ 00:00s 1				
B003 efn tm EAST DOOF EXHAUST F	B003 efn tmr(Edge-triggered interval time-delay relay) : EAST DOOR RIG EXHAUST FAN TIMER				Rem = off 29:00s+ 00:00s 1				
B005 wfn tm WEST DOO EXHAUST F	r(Edge-triggered interval time-delay R RIG AN TIMER	y relay) :			Rem = off 00:00m+ 00:00s 1				
1 B001 e lt tr 00:00	T S T I M E				Prio = 4 Quit = off Text1: enable Text2: disable Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line5: N - Line6: N Message Des - Both	d tination			
	1 e lt tmr-THRest 3 efn tmr-THRest								
B007 sw tmr	(Off-delay) :				Rem = off 15:00m+				
B008 lt pulse	e(Asynchronous pulse generator) :				Rem = off 05:00s+ 01:00s				
B012 sw on Selector sw ON counter	cn(Up/Down counter) :				Rem = on On=0+ Off=0 Start=0				
B013 sw tm Selector sw timed counte	cn(Up/Down counter) : er				Rem = on On=0+ Off=0 Start=0				
B014 w dr cr West door counter	nt(Up/Down counter) :				Rem = on On=0+ Off=0 Start=0				
B015 e dr cr East door counter	t(Up/Down counter) :				Rem = on On=0+ Off=0 Start=0				
Creator:	John Ledbetter		Project:	Sta 7 doors		Customer:	Denver Fire Department		
Checked: Date:	4-13-22 10/29/15 7:16 AM/6/10/22 8:41 AM	DFD Lineshop	Installation: File:	Sta 7 Doors	4-12-22.lsc	Diagram No.: Page:	13/20		



Block Number (Type)	Parameter
B021 (Message texts) :	Prio = 7 Quit = off Text1: enabled Text2: disabled > Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line3: N - Line6: N Message Destination - Both
B022(Edge-triggered interval time-delay relay) :	Rem = off 05:00s+ 00:00s 1
B023(On-delay) : contact bounce buffer	Rem = off 01:00s+
B024(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B025(On-delay) : contact bounce buffer	Rem = off 01:00s+
B026(Asynchronous pulse generator) :	Rem = off 10:00s+ 10:00s
B027(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B028(Message texts) :	Prio = 5 Quit = off Text1: enabled Text2: disabled
B A Y L I G H T S I I S I I S I I S I I S I I I S I	> Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line5: N - Line6: N Message Destination - Both
Line2.1 B002 w It tmr-THRest Line4.1 B005 wfn tmr-THRest	
B031(Asynchronous pulse generator) :	Rem = off 10:00s+ 10:00s
	Sta 7 doors Customer: Denver Fire Department
Checked: 4-13-22 DFD Lineshop Installation: Date: 10/29/15 7:16 AM/6/10/22 8:41 AM File: 5	Diagram No.: Sta 7 Doors 4-12-22.lsc Page: 15 / 20

	Block Number (Type)				Parameter			
B036 rem trig(Edge-triggered interval time-delay relay) :	B O T H D O O R S			->	Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line6: N			
Image: State of the s	B035(Asynchronous pulse generator) :				Rem = off 10:00s+ 10:00s			
B038(On-delay) : Rem = off B042(Edge-triggered interval time-delay relay) : Rem = off B042 edgacnt(Up/Down counter) : Rem = off B044 bckupelt(Edge-triggered interval time-delay relay) : Rem = off B044 bckupelt(Edge-triggered interval time-delay relay) : Rem = off B045 exfanhrs(Operating hours counter) : Rem = off B046 bckupwtt(Edge-triggered interval time-delay relay) : Rem = off B046 bckupwtt(Edge-triggered interval time-delay relay) : Rem = off B046 bckupwtt(Edge-triggered interval time-delay relay) : Rem = off B047(On-delay) : Rem = off B048(Edge-triggered interval time-delay relay) : Rem = off B048(Edge-triggered interval time-delay relay) : Rem = off B049(Asynchronous pulse generator) : Rem = off B049(Asynchronous pulse generator) : Rem = off B049(Edge-triggered interval time-delay relay) : Rem = off B049(Condelay relay relay) : Rem = off B049(Asynchronous pulse generator) : Rem = off B049(Condelay relay relay relay) : Rem = off B049(Condelay relay rela	B036 rem trig(Edge-triggered interval time-delay	relay) :			Rem = off 00:50s+ 00:00s 1			
TOUDS+ B042(Edge-triggered interval time-delay relay) : B043 extranont(Up/Down counter) :	B037(Asynchronous pulse generator) :				Rem = off 03:00s+ 01:00s			
1 1 B043 extancnt(Up/Down counter) : Bern = on Start=0 B044 bckupett(Edge-triggered interval time-delay relay) : Rem = off 000m+ 0000m+ 000m+ 000m+ 000m+ 000m+ 000m+ 0000m+ 000m+ 000m+ 000m+ 000m+ 0	B038(On-delay) :				Rem = off 10:00s+			
B044 bckupelt(Edge-triggered interval time-delay relay) :	B042(Edge-triggered interval time-delay relay) :				Rem = off 09:90s+ 00:00s 1			
B045 extanhrs(Operating hours counter): MI= 0h 0m+ G>0 Hours B046 bckupwlt(Edge-triggered interval time-delay relay): Rem = off 0:000s+ B047(On-delay): Rem = off 0:000s+ B048(Edge-triggered interval time-delay relay): Rem = off 0:000s+ B048(Edge-triggered interval time-delay relay): Rem = off 0:000s+ B048(Edge-triggered interval time-delay relay): Rem = off 0:000s+ B049(Asynchronous pulse generator): Rem = off 0:000s+ B051(Edge-triggered interval time-delay relay): Rem = off 0:000s+	B043 exfancnt(Up/Down counter) : Ex Fan Count				Rem = on On=0+ Off=0 Start=0			
U-SURKEN B046 bckupwlt(Edge-triggered interval time-delay relay) : Rem = off 00:008+ B047(On-delay) : Rem = off 10:008+ B048(Edge-triggered interval time-delay relay) : Rem = off 00:008+ B049(Asynchronous pulse generator) : Rem = off 00:008+ B051(Edge-triggered interval time-delay relay) : this device starts timer counting root Rem = off 00:008+ B051(Edge-triggered interval time-delay relay) : this device with vocalarm Rem = off 00:008+	B044 bckupelt(Edge-triggered interval time-delay	y relay) :			Rem = off 01:25m+ 00:00s 1			
Image: state	B045 exfanhrs(Operating hours counter) : Ex Fan Hours				MI= 0h 0m+ OT= 0h 0m Q->0=R+En			
10:00s4 B048(Edge-triggered interval time-delay relay) : Rem = off 03:00s4 00:00s B049(Asynchronous pulse generator) : Rem = off 03:00s4 01:00s B051(Edge-triggered interval time-delay relay) : B051(Edge-triggered interval time-delay relay) : B051(Edge-triggered interval time-delay relay) : Starts timer counting from 200 with vocalarm Creator: John Ledbetter DFD Lineshop Project: Sta 7 doors Customer: Derver Fire Department Installation:	B046 bckupwlt(Edge-triggered interval time-delay	y relay) :			Rem = off 01:20m+ 00:00s 1			
B049(Asynchronous pulse generator) : Rem = off B051(Edge-triggered interval time-delay relay) : Rem = off B051(Edge-triggered interval time-delay relay) : Rem = off Starts timer counting 00:00s from zero 00:00s with vocalarm 1 Creator: John Ledbetter DFD Lineshop Installation: DFD Lineshop Installation:	B047(On-delay) :				Rem = off 10:00s+			
B051(Edge-triggered interval time-delay relay) : this device starts timer counting from zero with vocalarm Rem = off 03:34m+ 00:00S Creator: John Ledbetter Creator: John Ledbetter Checked: 4-13-22 DFD Lineshop Installation:	B048(Edge-triggered interval time-delay relay) :				Rem = off 09:90s+ 00:00s 1			
Creator: John Ledbetter Checked: 4-13-22 DFD Lineshop Installation: Diagram No.: Diagram No.:	B049(Asynchronous pulse generator) :				Rem = off 03:00s+ 01:00s			
Checked: 4-13-22 DFD Lineshop Installation: Diagram No.:	B051(Edge-triggered interval time-delay relay) : this device starts timer counting from zero with vocalarm				Rem = off 03:34m+ 00:00s 1			
Checked: 4-13-22 DFD Lineshop Installation: Diagram No.:	Creator: John Ledbetter		Proiect:	Sta 7 doors		Customer:	Denver Fire Department	
	Checked: 4-13-22 E	DFD Lineshop	Installation:		12-22 60			

Block Number (Type)	Parameter
B053(Edge-triggered interval time-delay relay) : these devices send a pulse to stop the counting when door closes	Rem = off 00:10s+ 00:00s 1
B054(Edge-triggered interval time-delay relay) :	Rem = off 00:10s+ 00:00s 1
B055(Edge-triggered interval time-delay relay) : this device sends a quick pulse to reset timer	Rem = off 00:10s+ 00:00s
B056(On-delay) :	Rem = off 00:50s+
B057 efndelay(On-delay) :	Rem = off 30:00s+
B058(Edge-triggered interval time-delay relay) :	Rem = off 01:30s+ 00:00s
B059(Asynchronous pulse generator) :	Rem = off 00:50s+ 00:50s
B060(Edge-triggered interval time-delay relay) :	Rem = off 04:00s+ 00:00s 1
B061(On-delay) :	Rem = off 04:25s+
B062(Edge-triggered interval time-delay relay) :	Rem = off 20:00s+ 00:00s 1
B068(Edge-triggered interval time-delay relay) :	Rem = off 01:00m+ 00:00s 1
B069(On-delay) :	Rem = off 10:00s+
B070(On-delay) :	Rem = off 10:00s+
B071 vaky tmr(Off-delay) : Vocalarm timer for app bay its	Rem = off 02:00m+
B073(On-delay) :	Rem = off 03:00s+
B074 FAN ON CNTR(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B075 FAN CRNT CNT(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B076 AES OUT CNTR(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B078(Astronomical clock) :	Lot: W105°0'48"+ Lat: N39°46'10" TZ: -7 Sunrise offset: 20 Sunset offset: -20
r: John Ledbetter Project:	Sta 7 doors Customer: Denver Fire Department
ed: 4-13-22 DFD Lineshop Installation: 10/29/15 7:16 AM/6/10/22 8:41 AM File:	Diagram No.: Sta 7 Doors 4-12-22.lsc Page: 17 / 20

Block Number (Type)				Parameter		
B079(Message texts) :				Prio = 0 Quit = off Text1: enable Text2: disable Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line5: N - Line5: N Message Des - Both	d ed	
B080(Retentive on-delay) :				Rem = off 01:00m+		
1(Input) : 1-East door limit switch (N/C)						
I2(Input) : I2-West door limit switch (N/C)						
I3(Input) : I3-Rig fan selector sw timed						
I4(Input) : I4-Rig fan selector sw "ON"						
I5(Input) : I5-Current sensor						
l6(Input) : l6-VOCALARM SIGNAL						
11(nput) : 11-Door remote transmitter						
Q1(Qutput) : Q1-App bay its						
Q2(Qutput) : Q2-Rig ex fan						
Q3(Output) : Q3-Back up LED lights						
Q4(Output) : Q4-Output to AES						
Q5(Output) : TIMER INPUT START COUNTING, needs held to keep counting						
Q6(Output) : timer reset to zero						
Q7(Qutput) : Q7- To door opener						
ecked: 4-13-22	DFD Lineshop	Project: Installation:	Sta 7 doors		Customer: Diagram No.:	Denver Fire Department

Connection	I	Label					
C1							
C2							
1							
12							
13							
14							
15							
16							
17							
18							
l11							
M1							
M2							
M3							
M4							
M5							
M6							
M7							
M8		Initialization Flag					
M9							
M10							
M11							
M12							
M13							
M14							
M16							
M17							
M18							
M19							
Creator:	John L	edbetter		Project:	Sta 7 doors	Customer:	Denver Fire Department
Checked: Date:	4-13-22 10/29/1	2 5 7:16 AM/6/10/22 8:41 AM	DFD Lineshop	Installation: File:	Sta 7 Doors 4-12-22.lsc	Diagram No.: Page:	19 / 20

Connection	Label
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Q7	

Creator:	John Ledbetter		Project:	Sta 7 doors	Customer:	Denver Fire Department
Checked:	4-13-22	DFD Lineshop	Installation:		Diagram No.:	
Date:	10/29/15 7:16 AM/6/10/22 8:41 AM		File:	Sta 7 Doors 4-12-22.lsc	Page:	20 / 20