

Works Order : SD 239205  
Work Number : 65520  
Engineer :   
Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Administration

### General Specifications

Customer Name	BEAR SCOTLAND	Customer Order No.	
Intersection/ General Description	NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN	Controller/ Serial Number	
Controller	<input checked="" type="radio"/> New <input type="radio"/> Modification	S.T.S. /EM Number	65520 Issue 1
Area Specifications/ Customer Drawings		Equipment Installation by	SIEMENS
Specification Section		Slot Cutting by	
Contract/Tender Ref:		Civil Works by	BEAR SCOTLAND
Quotation No.		Customer's Engineer	
Works Order No.	SD 239205	Telephone Number	

### Signal Company Use Only

Signal Engineer		(IF PROM Label as >) PROM Number	16260	PROM Variant	510
		Configuration Check Value	44 D2 91 33		
Controller Options					
Hardware	T800	Firmware Type and Issue	PB800 ISS 16	Other Options	KTD LO
ST950/ST900/ST750 Series Cabinet Options					
Cabinet/Rack		Kit Type Options	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>		
Cabinet/Rack Variant		Cuckoo Options		<input type="checkbox"/>	

Mains Supply	240	Volts	50	Hz				
Peak Lamp Current	3	Amps	Dimming Voltage	160	Answer Issue	0	Date Created	23/02/05
Average Lamp Power	1350	Watts	Low Inrush Transformer	<input type="checkbox"/>	Edit Issue	2		
Total Average Power	1425	Watts						
Power feed fuse rating: requires 30 Amp minimum for controller, 15 Amp minimum for pelican/lightly loaded controller								

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## Phases, Stages and Streams

Phases, Stages and Streams

Add/Delete/Insert Streams:

Streams	
<input checked="" type="radio"/>	Current Number of Streams <input type="text" value="1"/>

Phases	
<input type="radio"/>	Current Total Number of Phases <input type="text" value="6"/>
<input checked="" type="radio"/>	Number of Real Phases <input type="text" value="6"/>
<input type="radio"/>	Number of Dummy Phases <input type="text" value="0"/>

Stages	
<input type="radio"/>	Current Number of stages (inc. ALL-RED stages) <input type="text" value="5"/>

Switched Signs	
<input type="radio"/>	Number of Switched Signs <input type="text" value="0"/>

Action	
<input type="button" value="Add At"/>	<input type="button" value="Delete At"/>

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## Facilities/Modes Enabled and Mode Priority Levels

**Facilities**

<p>UTC</p> <input type="checkbox"/> Serial/Internal UTMC OTU <input type="checkbox"/> <input checked="" type="checkbox"/> Integral TC12 OTU <input type="checkbox"/> Serial MOVA	<input checked="" type="checkbox"/> Master Time Clock <input type="checkbox"/> Holiday Clock <input checked="" type="checkbox"/> FT To Current MAX <input type="checkbox"/> Linked Fixed Time	<input checked="" type="checkbox"/> Lamp Monitoring <input checked="" type="checkbox"/> RED Lamp Monitoring <input type="checkbox"/> Pelican/Puffin/Toucan <input type="checkbox"/> Standalone Manual	<input type="checkbox"/> Extend All Red <input type="checkbox"/> Speed Measurement <input type="checkbox"/> Ripple Change <input type="checkbox"/>	<input type="checkbox"/> Non-UK <input type="checkbox"/> Fail to Part Time <input type="checkbox"/> Fail To Hardware Flashing <input type="checkbox"/> <input type="checkbox"/> Download To Level 3
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Starting Intergreen

**Mode Priority**

	1	2	3	4	5	6	7	8	9	10	11	12	13
<input type="checkbox"/> Part Time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/> Emergency Vehicles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/> Hurry Call	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/> Priority Vehicle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Manual Control	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/> Manual Step On	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Selected FT or VA or CLF	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> UTC	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> CLF (Non-Base Time)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/> CLF (Base Time)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Vehicle Actuated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Fixed Time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

**Configuration Complexity**

Low   
  Medium   
  High   
  Maximum

standard.8DF

Default PROM data file

**Correspondence Monitoring to inc.**

Reds                       Ambers  
 Switched Signs         Ignore Reds and Ambers during

**Flash Rate (ms)**

   Off        On

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## Phases in Stages

Phases

	A	B	C	D	E	F
0						
1	■	■				
2		■			■	■
3			■			
4				■		

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## Stages in Streams

### Stages in Streams

	0	1	2	3	4	5	6	7
Phase or Stage to revert to in absence of demands/extensions	<input type="text" value="1"/>							
Startup Stage	<input type="text" value="1"/>							
Switch Off Stage								
Standalone Pedestrian	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: For a Stand-Alone Stream, the reversion must be to All Red stage or Traffic stage/phase to meet the relevant standard or specification.

### Stages

	0	1	2	3	4
0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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## Phase Type and Conditions

Phase Type and Conditions

Phases At P     

Phase	Title	Type	App. Type	Term. Type	Assoc. Phase
A	NORTH ANDERSON DRIVE (SOUTHBOUND)	0 - UK Traffic	0	0 - E	
B	NORTH ANDERSON DRIVE (NORTHBOUND)	0 - UK Traffic	0	0 - E	
C	ASHGROVE ROAD	0 - UK Traffic	0	0 - E	
D	PEDESTRIANS	1 - UK Far Side Pedestrian	0	0 - E	
E	NORTH ANDERSON DRIVE RIGHT TURN	2 - UK Green Arrow	0	2 - P	B
F	ASHGROVE ROAD LEFT TURN	2 - UK Green Arrow	0	1 - P	C

App Types: 0 = Always Appears, 1 = Appears if dem'd prior to interstage, 2 = If dem'd, 3 = If dem'd before end of window time

Term Types: 0 = Term's at end of stage, 1 = Term's when Assoc phase gains R.O.W., 2 = Term's when Assoc phase loses R.O.W.

The HW Fail Flash fields are for information only on all but ST900ELV Controllers. For other controllers, physical switches or links (etc.) select which aspects flash and these need to be set up manually.

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## Opposing and Conflicting Phases

Select Stream(s) To Configure

All  0

To Phase

	A	B	C	D	E	F
A			Co	Co	Co	Co
B			Co	Co	o	
C	Co	Co		Co	Co	o
D	Co	Co	Co		Co	Co
E	Co		Co	Co		o
F	Co	o		Co	o	

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## Phase Minimums, Maximums, Extensions, Ped Leaving Periods

Phase Minimums, Maximums, Extensions, Ped Leaving Periods

Phases A to P

Phase	Min Green	Min Ped Cir	Extensions	Maximums								Pre-timed	
				A	B	C	D	E	F	G	H		
A	7	0	1.6	40	36	30	20	0	0	0	0	0	<input type="checkbox"/>
B	7	0	1.6	40	36	30	20	0	0	0	0	0	<input type="checkbox"/>
C	7	0	1.6	20	16	16	12	0	0	0	0	0	<input type="checkbox"/>
D	9	3	0.0	0	0	0	0	0	0	0	0	0	<input type="checkbox"/>
E	4	0	1.6	16	12	12	12	0	0	0	0	0	<input type="checkbox"/>
F	4	0	1.6	16	12	12	12	0	0	0	0	0	<input type="checkbox"/>
													<input type="checkbox"/>
													<input type="checkbox"/>
													<input type="checkbox"/>
													<input type="checkbox"/>
													<input type="checkbox"/>
													<input type="checkbox"/>
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													<input type="checkbox"/>
													<input type="checkbox"/>
													<input type="checkbox"/>

Note: For Standalone Streams see Help for use of Max Sets.



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## Phase Intergreen Times

Selected Stream(s) To Configure

All
  0

Note: On a Stand Alone Pelican/Toucan/Puffin Stream the Intergreens between Pedestrian and Traffic Phases are controlled by the timings (PBT, PIT, CMX, CDY, CRD and PAR), therefore 0 should be entered for the appropriate intergreen times in grid below.

To Phase

	A	B	C	D	E	F
A			7	10	7	7
B			7	10		
C	7	7		10	7	
D	7	7	7		7	7
E	5		7	10		
F	5			10		

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## Intergreen Handset Limits

HIGH 199

Copy Intergreen Values

To Phase

	A	B	C	D	E	F
A			5	8	5	5
B			5	8		
C	5	5		8	5	
D	5	5	5		5	5
E	3		5	8		
F	3			8		

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## Phase Timing Handset Ranges

### Phase Timing Handset Ranges

Initialise Min Green Limits

Phase	Min. Green		Phase	Min. Green	
	Min.	Max.		Min.	Max.
A	3	255	Q		
B	3	255	R		
C	3	255	S		
D	3	255	T		
E	3	255	U		
F	3	255	V		
G			W		
H			X		
I			Y		
J			Z		
K			A2		
L			B2		
M			C2		
N			D2		
O			E2		
P			F2		

Max. Green  
 Min.  Max.

Vehicle Extension  
 Min.  Max.

Phase Delay  
 Min.  Max.

Starting I/G  
 Min.  Max.

Min Pedestrian Clearance (PBT)  
 Min.  Max.

Traffic Phase Leaving  
 Min.  Max.

Traffic Phase Red/Amber  
 Min.  Max.

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## VA Demand and Extend Definitions

-VA Demand and Extend Definitions

**Demands**

For Unlatched demands precede the name with a #.  
Conditioning MUST be used to specify unlatched demands.

A	MVDA	SLLA1	SLLA2		
B	MVDB	SLLB			
C	MVDC	SLLC			
D	PEDD				
E					
F					

Phases A to P     

**Extensions**

MVDA	SLLA1		
MVDB	SLLB		
MVDC	SLLC		
CCE			
CCF			

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## Phase Internal/Revertive Demands

Phase Internal/Revertive Demands

Start-up Vehicle Responsive Demands																					
A	<input checked="" type="checkbox"/>	B	<input checked="" type="checkbox"/>	C	<input checked="" type="checkbox"/>	D	<input checked="" type="checkbox"/>	E	<input checked="" type="checkbox"/>	F	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Demands Inserted When Leaving Manual and Fixed Time Modes																					
A	<input checked="" type="checkbox"/>	B	<input checked="" type="checkbox"/>	C	<input checked="" type="checkbox"/>	D	<input checked="" type="checkbox"/>	E	<input checked="" type="checkbox"/>	F	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Unlatched Demands that Start Max Timers																					
A	<input checked="" type="checkbox"/>	B	<input checked="" type="checkbox"/>	C	<input checked="" type="checkbox"/>	D	<input checked="" type="checkbox"/>	E	<input checked="" type="checkbox"/>	F	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Revertive Phase Demands															
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
Q	R	S	T	U	V	W	X	Y	Z	A2	B2	C2	D2	E2	F2

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## Stages - Prohibited, Alternative, Ignored Moves

Stages - Prohibited, Alternative, Ignored Moves

Sets <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Modes</th> <th style="width: 33%;">Restrictions Apply To:</th> <th style="width: 33%;">No Restrictions</th> </tr> </thead> <tbody> <tr><td></td><td><input checked="" type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> </tbody> </table>	Modes	Restrictions Apply To:	No Restrictions		<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Modes</th> <th style="width: 33%;">Restrictions Apply To:</th> <th style="width: 33%;">No Restrictions</th> </tr> </thead> <tbody> <tr><td>Manual</td><td><input checked="" type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> <tr><td></td><td><input type="radio"/></td><td><input type="radio"/></td></tr> </tbody> </table>	Modes	Restrictions Apply To:	No Restrictions	Manual	<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
Modes	Restrictions Apply To:	No Restrictions																																							
	<input checked="" type="radio"/>	<input type="radio"/>																																							
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Manual	<input checked="" type="radio"/>	<input type="radio"/>																																							
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	<input type="radio"/>	<input type="radio"/>																																							
	<input type="radio"/>	<input type="radio"/>																																							

To Stage

	0	1	2	3	4
0					
1					
2	P	P			P
3					
4					

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## Stages - Prohibited, Alternative, Ignored Moves

Stages - Prohibited, Alternative, Ignored Moves

Sets	Modes	Restrictions Apply To:	No Restrictions	Modes	Restrictions Apply To:	No Restrictions
<input type="radio"/> 1	Urban Traffic Control	<input checked="" type="radio"/>	<input type="radio"/>		<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/> 2	Cableless Linking	<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
<input type="radio"/> 3		<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
<input type="radio"/> 4		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
		<input checked="" type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>

To Stage

	0	1	2	3	4
0					
1	P				
2	P	P			P
3	P				
4	P				

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Stages - Prohibited, Alternative, Ignored Moves

Sets		Restrictions Apply To:	No Restrictions		Restrictions Apply To:	No Restrictions
<input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4	Modes	<input checked="" type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	Modes	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
	Vehicle Actuated					
	Fixed Time					

To Stage

	0	1	2	3	4
0					
1	P				
2	P	3			3
3	P				
4	P				



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## Stage Internal Demands/Pedestrian Window Times

-Stage Internal Demands/Pedestrian Window Times																	
<b>Start-up Vehicle Responsive Demands</b>																	
0	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Demands Inserted When Leaving Manual and Fixed Time Modes</b>																	
0	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Unlatched Demands that Start Maximum Timers</b>																	
0	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Window Times</b>																	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<b>Exceptional Stages</b>																	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Works Order : SD 239205  
 Plan Number : 65520  
 Engineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Phase Delays

Phase Delays

- Phase Delays 0-29     
  Phase Delays 30-59     
  Phase Delays 60-89     
  Phase Delays 90-119

No.	Delay Phase	On Change from Stage	To Stage	By (X) Seconds	No.	Delay Phase	On Change from Stage	To Stage	By (X) Seconds
0	E	0	2	2	15				0
1	F	0	2	2	16				0
2				0	17				0
3				0	18				0
4				0	19				0
5				0	20				0
6				0	21				0
7				0	22				0
8				0	23				0
9				0	24				0
10				0	25				0
11				0	26				0
12				0	27				0
13				0	28				0
14				0	29				0

orks Order : SD 239205  
 v Number : 65520  
 igrineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Fixed Time

-Fixed Time-

Stage Moves & Times (Not Fixed Time to Current Max)								
Current Stage	0	1	2	3	4	5	6	7
Next Stage								
Time								
Current Stage	8	9	10	11	12	13	14	15
Next Stage								
Time								
Current Stage	16	17	18	19	20	21	22	23
Next Stage								
Time								
Current Stage	24	25	26	27	28	29	30	31
Next Stage								
Time								

Phases Demanded and Extended under Fixed Time to Current Max.																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Demand	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extend	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Q	R	S	T	U	V	W	X	Y	Z	A2	B2	C2	D2	E2	F2
Demand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extend	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

orks Order : SD 239205  
v Number : 65520  
gineer :   
ersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## CLF - Demand Dependent Moves

Clear Grid Data

**Notes:**

If no data is entered for a stage then a demand for any phases in that stage will be considered. The data specified on this screen will also change the screen CLF - Demands to Consider with Demand Dependent Stage Moves.

Phases

	A	B	C	D	E	F
0						
1						
2					■	
3						
4				■		

orks Order : SD 239205  
vl Number : 65520  
ngineer :   
ersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## UTC General Data

UTC General Data

Type of UTC  
 106       316

Integral OTU Address

Number of Control Words

Number of Reply Words

Controller to respond to TC bit.

Introduction of UTC to be disabled by Priority and LRTM

Non UTC RTC synchronisation input name

RTC Synchronisation Times

Clock Synchronise Time (UTCTS input)

Day	Time
<input type="text" value="Time Only"/>	<input type="text" value="02:00:00"/>

Clock Confirm Time (UTC RT output)

Day	Time
<input type="text" value="Time Only"/>	<input type="text" value="02:00:00"/>

orks Order : SD 239205  
 vl Number : 65520  
 rngineer : XXXXXXXXXX  
 rsection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## UTC Control and Reply Data Format

—UTC Control and Reply Data Format—

	Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Bit 6	Bit 7	Bit 8
<b>Control Words</b>								
Word 1	F1	#F2	F3	#F4	D2	D4	DX	
Word 2								
Word 3								
Word 4								
<b>Reply Words</b>								
Word 1	G1	G2	G3	G4	DR2	DR4	DF	LF1
Word 2	LF2	RR	SCOOT1	SCOOT2	SCOOT3	SCOOT4	SCOOT5	
Word 3								
Word 4								
Word 5								
Word 6								
Word 7								
Word 8								
Word 9								
Word 10								
Word 11								
Word 12								
Word 13								
Word 14								

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 Engineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## UTC Phase Demand and Extend Definitions

UTC Demand and Extend Definitions

	Demands	Extensions								
	<p style="margin: 0;">For Unlatched demands, precede the name with a #. Conditioning MUST be used to specify unlatched demands.</p>	<input checked="" type="radio"/> Phases A to P <input type="radio"/>								
A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX			
DX										
DX										
B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX			
DX										
DX										
C	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX			
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D	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">D4</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	D4				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>				
D4										
E	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;">D2</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX	D2			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;">D2</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX	D2		
DX	D2									
DX	D2									
F	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DX</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>	DX			
DX										
DX										

orks Order : SD 239205  
 v Number : 65520  
 gineer : XXXXXXXXXX  
 tersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## UTC Stage and Mode Data Definitions

UTC Stage and Mode Data Definitions

Stage	Force Bit	Green Confirm Bit	Demand Confirm Bit	Stage	Force Bit	Green Confirm Bit	Demand Confirm Bit
0				16			
1	F1	G1		17			
2	#F2	G2	DR2	18			
3	F3	G3		19			
4	#F4	G4	DR4	20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			

**Mode Data Definitions**

Manual Mode Operative:  
 G1/G2     RR   

Manual Mode Selected:  
 G1/G2     RR   

No Lamp Power, or Lamps Off due to RLM or Part Time:  
 G1/G2       

Detector Fault:  
         DF

Normal NOT selected on the Manual Panel:  
 G1/G2     RR   

RR Button Selected:  
 G1/G2     RR   

If UTC Reply Confirms are required for a Controller Fault (CF) OR for separate MC and RR replies, Conditioning must be used.



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Plan Number : 65520  
Engineer :   
Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## UTC Demand Dependent Forces

Clear Grid Data

Notes:  
If no data is entered for a stage then a demand for any phases in that stage will be considered. The data specified on this screen will also change the screen CLF - Demands to Consider with Demand-Dependent Stage Moves.

Phases

	A	B	C	D	E	F
0						
1						
2					■	
3						
4				■		

orks Order : SD 239205  
 v Number : 65520  
 igrineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## MTC - Time Switch Parameters

MTC - Time Switch Parameters

	Type	Event		Type	Event
0	Alternate Max	MAXSETB	16	No Action	
1	Alternate Max	MAXSETC	17	No Action	
2	Alternate Max	MAXSETD	18	No Action	
3	No Action		19	No Action	
4	No Action		20	No Action	
5	No Action		21	No Action	
6	No Action		22	No Action	
7	No Action		23	No Action	
8	No Action		24	No Action	
9	No Action		25	No Action	
10	No Action		26	No Action	
11	No Action		27	No Action	
12	No Action		28	No Action	
13	No Action		29	No Action	
14	No Action		30	No Action	
15	No Action		31	No Action	

orks Order : SD 239205  
 v Number : 65520  
 gineer : ██████████  
 ersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## MTC - Time Switch Parameters Array

		Parameters																																					
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
Events	MAXSETB		■																																				
	MAXSETC			■																																			
	MAXSETD				■																																		
	Unused																																						
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works Order : SD 239205  
Plan Number : 65520  
Engineer : [REDACTED]  
Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## MTC - Day Type

### MTC - Day Type

No.	Mon	Tue	Wed	Thu	Fri	Sat	Sun
0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Engineer :   
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## LMU - General

### LMU - General

#### Lamp Monitoring - LMU Voltage

- 200-240        
 50-0-50, 100-120       230 CLS

#### Red Lamp Monitoring

Max Red Bulb Wattage

First Red Lamp Fault Speed

RLF2 Cancels RLM additional Intergreens

RLF2 Only Cleared by RFL = 1

RLF1 Only Cleared by RFL = 1

#### RLM additional Intergreen Handset Limits

Minimum

Maximum

#### Streams with Phase BlackOut on RLF2

0

orks Order : SD 239205  
 v Number : 65520  
 igrineer : XXXXXXXXXX  
 lersction : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## LMU - Sensors

-LMU - Sensors

-Onboard Sensors

Sensor Phase	Sensor Type	Bulb Watts	Sensor Phase	Sensor Type	Bulb Watts
1 \ A	As Seq.	40	17 \ Q		
2 \ B	As Seq.	40	18 \ R		
3 \ C	As Seq.	40	19 \ S		
4 \ D	As Seq.	40	20 \ T		
5 \ E	As Seq.	40	21 \ U		
6 \ F	As Seq.	40	22 \ V		
7 \ G	None	40	23 \ W		
8 \ H	None	40	24 \ X		
9 \ I			25 \ Y		
10 \ J			26 \ Z		
11 \ K			27 \ A2		
12 \ L			28 \ B2		
13 \ M			29 \ C2		
14 \ N			30 \ D2		
15 \ O			31 \ E2		
16 \ P			32 \ F2		

External Sensors

Sensor Pin	Drive	Sensor Type	Bulb Watts
33 \ b14		None	7
34 \ z16		None	7
35 \ z14		None	7
36 \ z12		None	7
37 \ b14			
38 \ z16			
39 \ z14			
40 \ z12			
41 \ b14			
42 \ z16			
43 \ z14			
44 \ z12			
45 \ b14			
46 \ z16			
47 \ z14			
48 \ z12			

Order Number : SD 239205  
Job Number : 65520  
Engineer : [REDACTED]  
Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## LMU Sensor Load Types

### LMU Sensor Load Types

Screen Select

1 of 1

Sensor	Phase	Sensor Type	LEDR+W	Load Type	LLF Profile
1	A	As Seq.			
2	B	As Seq.			
3	C	As Seq.			
4	D	As Seq.			
5	E	As Seq.			
6	F	As Seq.			

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## RLM Additional Intergreens

Phases Delayed

	A	B	C	D	E	F
A	■			2	2	
B		■		2		
C			■	2		
D				■		
E					■	
F						■



Works Order : SD 239205  
Job Number : 65520  
Engineer : [REDACTED]  
Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## RLM Phase Inhibits

Phases Inhibited/Black-Out

	A	B	C	D	E	F
A				■		
B				■		
C				■		
D						
E						
F						

orks Order : SD 239205  
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 gineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Manual Panel

Manual Panel

Stage Buttons and LEDs									
Button No.	Title	Called Stage for Stream							
		0	1	2	3	4	5	6	7
0	<input style="width: 100%;" type="text" value="ALL RED"/>	<input style="width: 30px;" type="text" value="0"/>							
1	<input style="width: 100%;" type="text" value="NORTH ANDERSON DRIVE"/>	<input style="width: 30px;" type="text" value="1"/>							
2	<input style="width: 100%;" type="text" value="NORTH ANDERSON DR + RIGHT TURN + LEFT TURN"/>	<input style="width: 30px;" type="text" value="2"/>							
3	<input style="width: 100%;" type="text" value="ASHGROVE ROAD"/>	<input style="width: 30px;" type="text" value="3"/>							
4	<input style="width: 100%;" type="text" value="PEDESTRIANS"/>	<input style="width: 30px;" type="text" value="4"/>							
5	<input style="width: 100%;" type="text"/>	<input style="width: 30px;" type="text"/>							
6	<input style="width: 100%;" type="text"/>	<input style="width: 30px;" type="text"/>							
7	<input style="width: 100%;" type="text"/>	<input style="width: 30px;" type="text"/>							

  

General LEDs					
	AUX 1	AUX 2	AUX 3	AUX 4 (Hurry Call)	AUX 5 (Higher Priority)
Conditioned	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

  

General Buttons				
	None	SW1	SW2	SW3
Momentary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dim Override	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
RR	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

  

Manual Signals On	
<input checked="" type="radio"/>	Immediate Signals On
<input type="radio"/>	As Start-Up

  

Manual Mode Enable		
<input checked="" type="radio"/>	Always	NOTE: For this to operate Special Conditioning is required.
<input type="radio"/>	When Handset Plugged in (Note 1)	
<input type="radio"/>	When 'MND' Command Entered	

  

Mode Select Switches Disabled		
<input type="checkbox"/>	VA	<input type="checkbox"/>
<input type="checkbox"/>	Fixed Time	<input type="checkbox"/>
<input type="checkbox"/>	CLF	

orks Order : SD 239205  
√ Number : 65520  
ngineer : ██████████  
ersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Special Conditioning

PT PHASED.SCRT0 THN

JN <0>

ND

NDTMA0=TACTD

OT (PHASED)=SCRT0 ;TACTILE E

ODE0 EQL<6>=MIL22 ;U.T.C. LIGHT AUX 1 LED

OT (LMPANY0)=LF1

OT (LMPARE0)=LF2 ;LAMP FAULT BITS

OT (NO6131B)=SCOOT1

OT (NO6131A)=SCOOT2

OT (NO6121T)=SCOOT3

OT (NO6121V)=SCOOT4

OT (NO6131C)=SCOOT5

Works Order : SD 239205  
 Job Number : 65520  
 Engineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Special Conditioning Timers

Special Conditioning Timers

Timers

0-31

No	Value	Min	Max	200ms	Description	No	Value	Min	Max	200ms	Description
3	0	0	255	<input type="checkbox"/>	TACTILE TIMMER	16		0	255	<input type="checkbox"/>	
1		0	255	<input type="checkbox"/>		17		0	255	<input type="checkbox"/>	
2		0	255	<input type="checkbox"/>		18		0	255	<input type="checkbox"/>	
3		0	255	<input type="checkbox"/>		19		0	255	<input type="checkbox"/>	
4		0	255	<input type="checkbox"/>		20		0	255	<input type="checkbox"/>	
5		0	255	<input type="checkbox"/>		21		0	255	<input type="checkbox"/>	
6		0	255	<input type="checkbox"/>		22		0	255	<input type="checkbox"/>	
7		0	255	<input type="checkbox"/>		23		0	255	<input type="checkbox"/>	
8		0	255	<input type="checkbox"/>		24		0	255	<input type="checkbox"/>	
9		0	255	<input type="checkbox"/>		25		0	255	<input type="checkbox"/>	
10		0	255	<input type="checkbox"/>		26		0	255	<input type="checkbox"/>	
11		0	255	<input type="checkbox"/>		27		0	255	<input type="checkbox"/>	
12		0	255	<input type="checkbox"/>		28		0	255	<input type="checkbox"/>	
13		0	255	<input type="checkbox"/>		29		0	255	<input type="checkbox"/>	
14		0	255	<input type="checkbox"/>		30		0	255	<input type="checkbox"/>	
15		0	255	<input type="checkbox"/>		31		0	255	<input type="checkbox"/>	

Works Order : SD 239205  
VI Number : 65520  
Engineer :   
Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Special Instructions

orks Order : SD 239205  
v Number : 65520  
ngineer [REDACTED]  
ersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Call Cancel

Call Cancel

Unit No.	Input Name	Call Delay	Cancel Delay	Phase Demanded (Unlatched Demand)
0	CCE	2	2	E
1	CCF	2	2	F
2		0	0	
3		0	0	
4		0	0	
5		0	0	
6		0	0	
7		0	0	

orks Order : SD 239205  
 v Number : 65520  
 igrineer : XXXXXXXXXX  
 tersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Inputs and Outputs

### Inputs and Outputs

Enable Signal Required  
 Check boxes

Port Number & Type

Port:

Inputs & Outputs

DET No	Bit No	Type I or O	Name	Req'd	BP	Inv	U/D	Misc	DFM	DFM Group	Ext time	Used By										Term Block	Terminal No	
												Phs	UTC	SDE	Pri	HC	CC	IG	UD	LRT				
<input type="radio"/>	0	I	MVDA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	1	
<input type="radio"/>	1	I	MVDB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	2
<input type="radio"/>	2	I	MVDC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	3
<input type="radio"/>	3	I	PEDD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	4
<input type="radio"/>	4	I	CCE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	1	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	5	
<input type="radio"/>	5	I	CCF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	1	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	6	
<input type="radio"/>	6	I	NO6131B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	7
<input type="radio"/>	7	I	NO6131A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBG	8

orks Order : SD 239205  
 vl Number : 65520  
 ngineer : XXXXXXXXXX  
 ersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Inputs and Outputs

**Inputs and Outputs**

Enable Signal Required  
 Check boxes

Port Number & Type

Port:

Inputs & Outputs

DET No	Bit No	Type I or O	Name	Req'd	BP	Inv	U/D	Misc	DFM	DFM Group	Ext time	Used By										Term Block	Terminal No		
												Phs	UTC	SDE	Pri	HC	CC	IG	UD	LRT					
<input type="radio"/>	8	0	I	NO6121T	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	1	
<input type="radio"/>	9	1	I	NO6121V	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	2
<input type="radio"/>	10	2	I	NO6131C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	3
<input type="radio"/>	11	3	I	SLLA1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	1	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	4
<input type="radio"/>	12	4	I	SLLA2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	1	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	5
<input type="radio"/>	13	5	I	SLLB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	1	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	6
<input type="radio"/>	14	6	I	SLLC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	1	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	7
<input type="radio"/>	15	7	I		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBH	8

Add
Delete
Move
Clear Used By



orks Order : SD 239205  
 vl Number : 65520  
 gineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## Inputs and Outputs

Inputs and Outputs

Enable Signal Required  
 Check boxes

Port Number & Type

Port:

11

Inputs & Outputs

DET No	Bit No	Type I or O	Name	Req'd	BP	Inv	U/D	Misc	DFM	DFM Group	Ext time	Used By										Term Block	Terminal No
												Phs	UTC	SDE	Pri	HC	CC	IG	UD	LRT			
<input type="radio"/> 88	0	O		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBX	1+3
<input type="radio"/> 89	1	O		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBX	4+6
<input type="radio"/> 90	2	O	TACTD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N		0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBX	7+9
<input type="radio"/> 91	3	O		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1TBX	10+12

ST800 - each output on Port 11 (CPU Output Port) has change over contacts. These are all wired to the terminal block. Thus the following combinations are available:

Bit 0 Terminals 1+2 NC 160 ohm, 1+3 NO 160 ohm    Bit 1 Terminals 4+5 NC 160ohm, 4+6 NO 160ohm  
 Bit 2 Terminals 7+8 NC 182 ohm, 7+9 NO 22 ohm    Bit 3 Terminals 10+11 NC 182ohm, 10+12 NO 22ohm

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## Aspect Drives

Aspect Drives

A-L   
  M-X   
  Y-F2

Phase Driver Card 1			
	Used For	Term Block	Term No
A - Red	Phase	1TBA	1
A - Amber	Phase	1TBA	2
A - Green	Phase	1TBA	3
B - Red	Phase	1TBA	4
B - Amber	Phase	1TBA	5
B - Green	Phase	1TBA	6
C - Red	Phase	1TBA	7
C - Amber	Phase	1TBA	8
C - Green	Phase	1TBA	9
D - Red	Phase	1TBA	10
D - Amber	Phase	1TBA	11
D - Green	Phase	1TBA	12

Phase Driver Card 1			
	Used For	Term Block	Term No
E - Red	Phase	1TBB	1
E - Amber	Phase	1TBB	2
E - Green	Phase	1TBB	3
F - Red	Phase	1TBB	4
F - Amber	Phase	1TBB	5
F - Green	Phase	1TBB	6
G - Red			
G - Amber			
G - Green			
H - Red			
H - Amber			
H - Green			

Phase Driver Card 2			
	Used For	Term Block	Term No
I - Red			
I - Amber			
I - Green			
J - Red			
J - Amber			
J - Green			
K - Red			
K - Amber			
K - Green			
L - Red			
L - Amber			
L - Green			

orks Order : SD 239205  
 v Number : 65520  
 gineer : XXXXXXXXXX  
 Intersection : NORTH ANDERSON DRIVE, ASHGROVE ROAD, ABERDEEN

## I/O - DFM Group Timings

### I/O - DFM Group Timings

Input Group	State	SETA	SETB	SETC	SETD
Group 0	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>
Group 1	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>
Group 2	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>
Group 3	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>
Group 4	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>
Group 5	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>
Group 6	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>
Group 7	Active (Mins)	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>	<input type="text" value="30"/>
	InActive (Hrs)	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>	<input type="text" value="18"/>

Note - 255 or blank disables DFM monitoring of that state (active or inactive) during that timeset (A to D)

State	Min	Max
Active (Mins)	<input type="text" value="0"/>	<input type="text" value="254"/>
InActive (Hrs)	<input type="text" value="0"/>	<input type="text" value="254"/>

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