OPERATIONS SHEET

Location: Pasir Ris Dr 1 PC near Town Park   Int. No: 17304

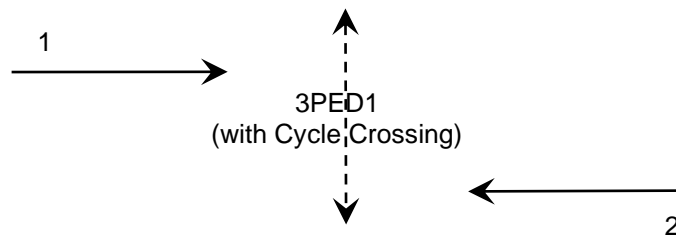Prepared by: Chen Eng Heng   Date: 19 / 09 / 2022   Signal ID: 1748

Checked by: Mohd Farhan

Approved by: Simon Ho

CR108's Stage 0A-Phase1

1. **Relocate PC**
2. **PED Distance = 18m**
3. **Walking Speed = 0.8 m/sec**
4. **Add Signal Group (3 to 4)**

1 →

3PED1
(with Cycle Crossing)

← 2

SG4 – Audio Tactile

Pasir Ris Town Park

Towards Loyang Ave →

PB1⊥

Pasir Ris Dr 1
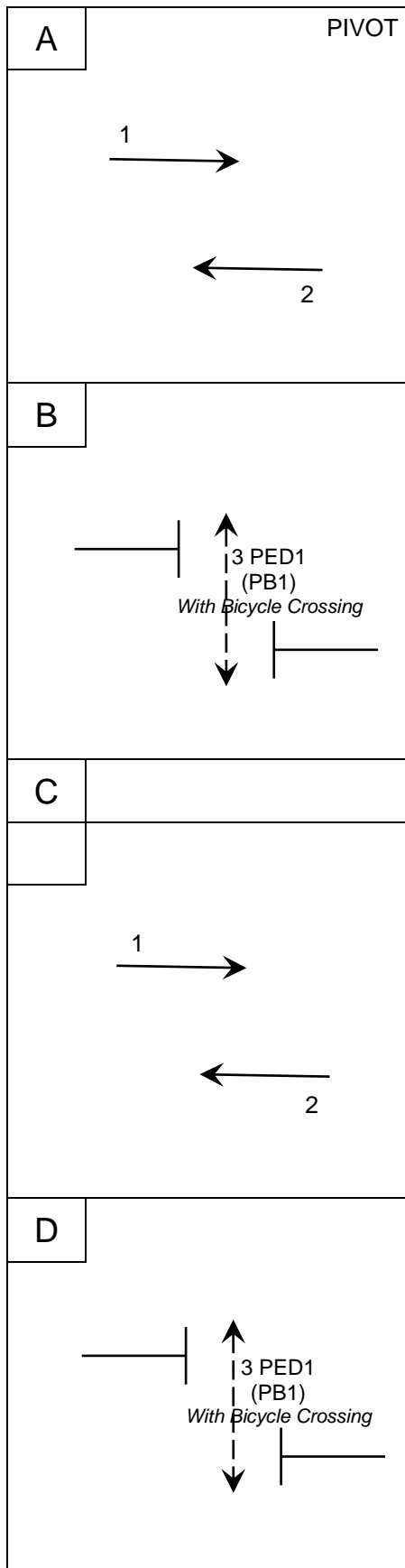
Pasir Ris Dr 1

⊤PB1

Blk 115

PHASING DIAGRAM

Location: <u>Pasir Ris Dr 1 PC near Town Park</u>   Int. No: <u>17304</u>

NOTES (1):-

- IF PHASE CHANGE SWITCH IS EQUAL OR MORE THAN TSM15, CONTROLLER IS TO SEND OUT MSS15 FLAG

- A & C PHASES ARE PLACED ON PERMANENT DEMAND IN ALL MODES.

- PED 1 IS INTRODUCED WHEN PUSH BUTTON __**PB1**__ IS ACTIVATED

- IN POLICE CONTROL MODE, RUN A AND B PHASE ONLY

- IN MASTERLINK MODE, IF Y- FLAG IS ON PED 1 IS AUTO CALLED

- IN FLEXILINK MODE, IF Y+ FLAG IS ON PED 1 IS AUTO CALLED

- DURING PED1'S WALK, CLEAR PUSH BUTTON 1'S DEMAND

- SG **4** AUDIO TACTILE IS CONTROLLED BY **Z+** FLAG

DETECTOR FUNCTION

Location: Pasir Ris Dr 1 PC near Town Park   Int. No: 17304

DETECTOR /PUSH BUTTON NO	CALL PHASE	LOCKING	NON LOCKING	SET VIG ON PHASE	EXTEND PHASE	SPECIAL	DETECTOR ALARMS / FAULT SIMULATION — CALL & EXTEND	CALL ONLY	DISABLE	PLAN REFERENCE
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15						PHASE CHANGE SWITCH			✔	
16						POLICE CONTROL SWITCH			✔	
PB1	**BD**	✔				PUSH BUTTON PED 1		✔		
PB2										
PB3										
PB4										
PB5										
PB6										
PB7										
PB8										

TICK IF DETECTOR
FAILURE CAUSES AN
ALARM ON DET. 16.

INTERGREEN, PEDESTRIAN TIMES AND SPECIAL FUNCTIONS

Location: Pasir Ris Dr 1 PC near Town Park   Int. No: 17304

PHASE	CLEARANCE MOVEMENT	CLEARANCE DISTANCE	INTERGREEN		
			AMBER	RED	TOTAL
A			3	3	6
B			3		3
C			3	3	6
D			3		3
E					
F					
G					

PED NO.	PHASE	WALK		CLEARANCE TIME	
		DISTANCE (m)	GREEN TIME	1	2
1	B / D	18	6	23	
2					
3					
4					
5					
6					
7					

Pedestrian Walking Speed: __0.8__ m/s

SPECIAL FACILITIES

SIGNAL GROUP	HOUR	MINUTE	SECOND	FUNCTION	REMARKS
SG4	21	0	0	Audio Tactile Off	Controlled by Z+ Flag
	7	0	0	Audio Tactile On	

PRE-EMPTION

SIGNAL GROUP	PHASE	FUNCTION	REMARKS

CONTROLLER TIMESETTING

Location: <u>Pasir Ris Dr 1 PC near Town Park</u>   Int. No: <u>17304</u>

	PHASE	A	B	C	D	Range
	INTERVAL	1	2	3	4	
RED/YELLOW	1					0 – 5
LATE START	2					0 – 20
MINIMUM GREEN	3	14	6	14	6	5 – 20
INCREMENT	4					0 – 5
MAX. V. I. G.	5					0 – 40
MAX. EXT. GREEN	6	37		0		0 – 150
EARLY CUT-OFF	7					0 – 20
AMBER	8	3	3	3	3	3 – 7
ALL RED	9	3		3		0 – 15
SPECIAL ALL RED	10					0 – 15
GAP 1	11					0 –10
GAP 2	12					0 –10
GAP 3	13					0 –10
GAP 4	14					0 –10
HEADWAY 1	15					0 – 5
HEADWAY 2	16					0 – 5
HEADWAY 3	17					0 – 5
HEADWAY 4	18					0 – 5
WASTE 1	19					0 – 50
WASTE 2	20					0 – 50
WASTE 3	21					0 – 50
WASTE 4	22					0 – 50
MAXIMUM 1	23					0 – 150
MAXIMUM 2	24					0 – 150
MAXIMUM 3	25					0 – 150
MAXIMUM 4	26					0 – 150

ALTERNATE TIME SETTING (RANGE 0-200) ('B' ENTER)

ALT. NO	TIME
11	27 Sec
12	
13	
14	
15	50 Sec
16	
17	
18	
19	
20	*5 Sec

Maximum V. A. Cycle Time: _____

☑   In Flexilink Operation,

   If Z– flag = C (255), A phase = TSM 11

☑   In Isolated Operation,
   A phase = Max. Ext. Green

	Pedestrian NO.	1	2	3	4	5	6	7	8	Range
	Interval	**17**	18	19	20	21	22	23	**24**	
Delay	1									0 - 20
Walk	2	6								0 - 40
Clearance 1	3	23								0 - 40
Clearance 2	4									0 - 10
DAC		7								

CO-ORDINATION DATA

Location: Pasir Ris Dr 1 PC near Town Park   Int. No: 17304

SPECIAL FUNCTIONS

SIGNAL	FUNCTION
Y− FLEXI	CONTINUOUS
Y− MASTER	AUTO CALL PUSH BUTTON PED1
Y+ FLEXI	
Z− FLEXI	A PHASE ALTERNATE MAXIMUM EXTENSION GREEN (TSM11)
Z− MASTER	
Z+ FLEXI	SET SG4 AUDIO TACTILE "ON"
Z+ MASTER	
R− FLEXI	
R+ FLEXI	
Q− FLEXI	
Q+ FLEXI	
Z1 MASTER	
Z MASTER	
Z MASTER	
Z MASTER	

LOOK AHEADS AND RELEASES

Phase Sequence 1				Phase Sequence 2		
PHASE	LOOK AHEAD	RELEASE		PHASE	LOOK AHEAD	RELEASE
A	NO			A	NO	
B	NO	Auto		B		
C	NO			C		
D	Yes to A	Auto		D		
E				E		
F				F		
G				G		

The following phases can be inhibited in Flexilink by omitting the call pulses in the plan data _____

NO	PHASE SEQUENCE
1 (No)	A B C D
2 ( )	

GLIDE INTERSECTION DATA

Location: <u>Pasir Ris Dr 1 PC near Town Park</u>　　　　　　　Int. No: <u>17304</u>

Note: The data shown on this page should be entered when the intersection is first placed on line. This data is not necessarily used for Master Link operation.

SLOT 59 (RC17) = 4, 1, 1	E.g. x, y, z. x = No of Phases y = No of Split Plans z = No of PEDs

INT = 17304		
VC = 5	**Date:**	**Date:**
CS =	PP1 = -36, -23 ^A	PP1 =
COM = Port 11 / 4	PP2 = 36, 23 ^A	PP2 =
PK =	PP3 = 36, 23 ^A	PP3 =
S# = 33	PP4 = -36, -23 ^A	PP4 =

LM = MF　　**Note:** Always LM = F initially

RMN =	
DCL = 106	**Variation Parameter (VP)**

VOLS =	VP1 =	VP8 =	VP15 =	VP22 =	VP29 =
VP# =	VP2 =	VP9 =	VP16 =	VP23 =	VP30 =
AT = 6	VP3 =	VP10 =	VP17 =	VP24 =	VP31 =
BT = 3	VP4 =	VP11 =	VP18 =	VP25 =	VP32 =
CT = 6	VP5 =	VP12 =	VP19 =	VP26 =	VP33 =
DT = 3	VP6 =	VP13 =	VP20 =	VP27 =	VP34 =
ET =	VP7 =	VP14 =	VP21 =	VP28 =	VP35 =

FT =	
GT =	
W1 = 0	W4 = 　　　　　　Must be in even numbers
W1T = 26 　 P–	W4T = 　 P– 　 P+ 　Max WT = 36
W2 =	W5 =
W2T = 　 P– 　 P+	W5T = 　 P– 　 P+
W3 =	W6 =
W3T = 　 P– 　 P+	W6T = 　 P– 　 P+

SPLIT PLANS

	FEATURES	SF	1	2	3	4		FEATURES	SF	5	6	7	8
A	0 PD NG FG B	0 B											
B	FS C	32# C											
C	0 PD NG FG B	26# D											
D	A	32# A											
E													
F													
G													

PLAN DATA

Location: <u>Pasir Ris Dr 1 PC near Town Park</u>　　　　　　　Int. No: <u>17304</u>

PLAN

('E' ENTER)

		1	2	3	4	5	6	7	8	9	10
0	CL										
1	A										
2	B										
3	C										
4	D										
5	E										
6	F										
7	G										
8	R−										
9	R+										
10	Y−	C	C		C	C	C	C			
11	Y+										
12	Z−	N	C		N	C	C	C			
13	Z+	C	C		C	N	N	C			
14	Q−										
15	Q+										
16	XSF (9-16)*										
17	XSF (1-8)*										

* A digit hexadecimal number which signifies which XSF bits are used; e.g. AO signifies bits 14 & 16 are set.

NOTE:　　　C = Continuous (255)　　　N = Not Used (254)

PLAN SCHEDULE

('F' ENTER)

CODE	HOUR	MINUTE	PLAN	CODE	HOUR	MINUTE	PLAN
8	0	0	5	7	12	0	4
8	**7**	**0**	**1**	7	15	0	2
8	9	0	7	7	**21**	**0**	**6**
8	12	0	2	7	23	0	5
8	17	0	4	1	0	0	5
8	**21**	**0**	**6**	1	**7**	**0**	**7**
8	23	0	5	1	9	0	7
7	0	0	5	1	14	0	2
7	**7**	**0**	**1**	1	**21**	**0**	**6**
7	9	0	7	1	23	0	5

Pedestrian and Vehicle Signal Groups Interlock Table

Location: Pasir Ris Dr 1 PC near Town Park   Int. No: 17304

	Phase A	Phase B	Phase C	Phase D	Phase E	Phase F	Phase G
SG 1	SGAR	RED	SGAR	RED			
SG 2	SGAR	RED	SGAR	RED			
SG 3	DON'T	WALK	DON'T	WALK			
SG 4	AUDIO TACTILE						
SG 5							
SG 6							
SG 7							
SG 8							
SG 9							
SG 10							
SG 11							
SG 12							
SG 13							
SG 14							
SG 15							
SG 16							

Legend:

GAR	Green, Amber, Red
GEAR	Green, Amber, Red (With ECO)
RED	Red
SGRN	Special Green
SOFF	Special Off
WALK	PED Walk, Clearance 1 and Clearance 2
SWALK	Special PED Walk, Clearance 1 and Clearance 2
DON'T	PED Red

Signal Groups Conflict Matrix

Location: Pasir Ris Dr 1 PC near Town Park   Int. No: 17304

('C16' ENTER)

SG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1			X													
2			X													
3	X	X														
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																