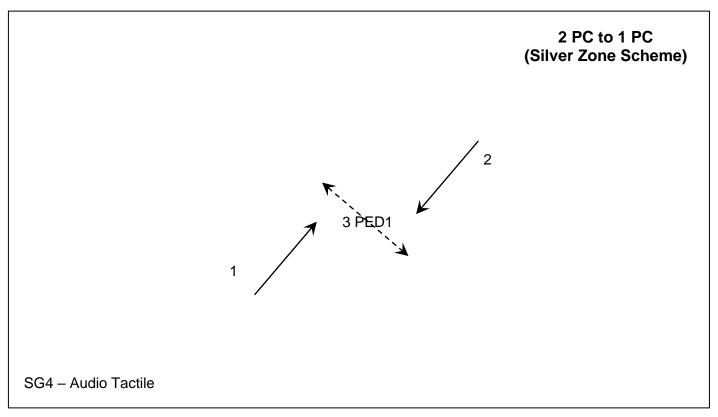
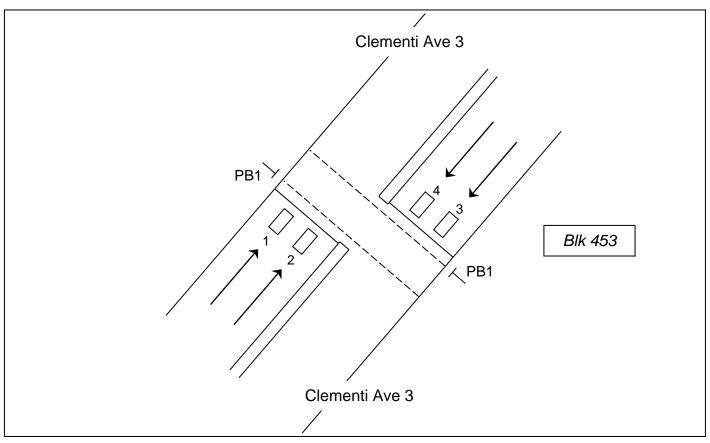
OPERATIONS SHEET

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

Prepared by: Chen Eng Heng Date: 28 / 04 / 2020 Signal ID: 2653

Checked by: <u>Chia Hee Lan</u> Approved by: <u>Simon Ho</u>





PHASING DIAGRAM

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

A В **3 PED1** C D

NOTES:

- 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 <u>PB1</u> 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: Clementi Ave 3 PC near Blk 453 Int. No: 4138

_				SE				CTOR AL		щ
DETECTOR /PUSH BUTTON NO	CALL PHASE	POCKING	NON LOCKING	SET VIG ON PHASE	EXTEND PHASE	SPECIAL	CALL & EXTEND	CALL ONLY	DISABLE	PLAN REFERENCE
1	Α	Α			Α		✓			
2	Α	Α			Α		✓			
3	Α	Α			Α		✓			
4	Α	Α			Α		✓			
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.

APPROACH TIMING

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

APPROACH	EXTENDING DETECTORS	SIGNAL GROUP	COMMENTS
A1	1, 2	1	
A2	3, 4	2	
A3			
A4			
B1			
B2			
B3			
B4			
C1			
C2			
C3			
C4			
D1			
D2			
D3			
D4			
E1			
E2			
E3			
E4			
F1			
F2			
F3			
F4			
G1			
G2			
G3			
G4			

NOTE: MAXIMUM NUMBER OF APPROACHES IS 16

INTERGREEN, PEDESTRIAN TIMES AND SPECIAL FUNCTIONS

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

PHASE	CLEARANCE	CLEARANCE	INTERGREEN				
PHASE	MOVEMENT	DISTANCE	AMBER	RED	TOTAL		
Α			3	3	6		
В			3		3		
С			3	3	6		
D			3		3		
Е							
F							
G							

PED NO.	PHASE	WA	CLEARANCE TIME		
	PHASE	DISTANCE (m)	GREEN TIME	1	2
1	B/D	15	6	19	
2					
3					
4					
5					
6					·
7					·

Pedestrian Walking Speed: _____ m/s (Sliver Zone Scheme)

SPECIAL FACILITIES

SIGNAL GROUP	HOUR	MINUTE	SECOND	FUNCTION	REMARKS
SG4	21	00	00	Audio Tactile "OFF"	Controlled by
364	7	7 00 00 Audio Tactile "ON"		Z+ Flag	

PRE-EMPTION

SIGNAL GROUP	PHASE	FUNCTION	REMARKS

CONTROLLER TIMESETTING

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

	PHASE	Α	В	С	D
	INTERVAL	1	2	3	4
RED/YELLOW	1				
LATE START	2				
MINIMUM GREEN	3	20	6	14	6
INCREMENT	4				
MAX. V. I. G.	5				
MAX. EXT. GREEN	6	32		0	
EARLY CUT-OFF	7				
AMBER	8	3	3	3	3
ALL RED	9	3		3	
SPECIAL ALL RED	10				
GAP 1	11	3			
GAP 2	12	3			
GAP 3	13				
GAP 4	14				
HEADWAY 1	15	0.6			
HEADWAY 2	16	0.6			
HEADWAY 3	17				
HEADWAY 4	18				
WASTE 1	19	7			
WASTE 2	20	7			
WASTE 3	21				
WASTE 4	22				
MAXIMUM 1	23				
MAXIMUM 2	24				
MAXIMUM 3	25				
MAXIMUM 4	26				

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

Range

0 - 5

ALT. NO	TIME
11	
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	
	INTERVAL	17	18	19	20	21	22	23	24	Rang
DELAY	1									0-2
WALK	2	6								0 – 4
CLEARANCE 1	3	19								0 – 4
CLEARANCE 2	4									0 – 1
PAC		7								

CO-ORDINATION DATA

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

SPECIAL FUNCTIONS

SIGNAL	FUNCTION				
Y- FLEXI	CONTINUOUS				
Y- MASTER	AUTO CALL PUSH BUTTON PED1				
Y+ FLEXI	AUTO CALL PUSH BUTTON PEDT				
Z- FLEXI	A PHASE ALTERNATE MAXIMUM EXTENSION GREEN (TSM11)				
Z- MASTER					
Z+ FLEXI	SET SG4 AUDIO TACTILE "ON"				
Z+ MASTER	SET 364 AUDIO TACTILE ON				
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	
Α	NO			Α	NO		
В	NO	Auto		В			
С	NO			С			
D	Yes to A	Auto		D			
Е				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)	ABCD
2 ()	

GLIDE INTERSECTION DATA

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

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.

necessarily used for Ma			e intersection is	ili si piaced on ili	ie. This data is not						
SLOT = =	4, 1, 2 E.g.	x, y, z. x = No of P	hases y = No of	Split Plans z = N	No of PEDs						
INT = 4138											
VC =	Date:		Dat	e:							
CS =	PP1 = 0,	0 ^A	PP1	=							
COM =	PP2 = 0,	0 ^A	PP2	2 =							
PK =	PP3 = 0,	0 ^A	PP3	PP3 =							
S# = 34	PP4 = 0,	0 ^A	PP ²	1 =							
LM = MF	Note: Alway	Note: Always LM = F initially									
RMN =											
DCL = 110		<u>Va</u>	riation Paran	neter (VP)							
VOLS = 1 − 4	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 =									
W1T = 22	P-)	W4T =	P-	- P+							
W2 =		W5 =									
W2T =	P- P+	W5T =	P-	- P+							
W3 =		W6 =									
W3T =	P- P+	W6T =	P-	- P+							

SPLIT PLANS

		1	2	3	4		5	6	7	8
	SF					SF				
	FEATURES					FEATURES				
Α	0 FG NG PD B	0 B								
В	FS C	28# C								
С	FG NG PD D	28# D								
D	A	28# A								
Е										
F										
G										

PLAN DATA

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

PLAN

('E' ENTER)

(– –		1	2	3	4	5	6	7	8	9	10
0	CL	-	_		-			-			
1	A										
2	В										
3	С										
4	D										
5	E										
6	F										
7	G										
8	R-										
9	R+										
10	Υ-	С	С		С	С	С	С			
11	Y+										
12	Z-	N	N		N	С	N	N			
13	Z+	С	С		С	N	N	С			
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
8	0	0	5
8	7	0	1
8	9	0	7
8	12	0	2
8	17	0	4
8	21	0	6
8	23	0	5
7	0	0	5
7	7	0	1
7	9	0	7

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

Pedestrian and Vehicle Signal Groups Interlock Table

Location: Clementi Ave 3 PC near Blk 453 Int. No: 4138

	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 1	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: Clementi Ave 3 PC near Blk 453 Int. No: 4138

('C16' ENTER)

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