Ped Protection Dilemma

Yonny Yeung Real Time Operations Team



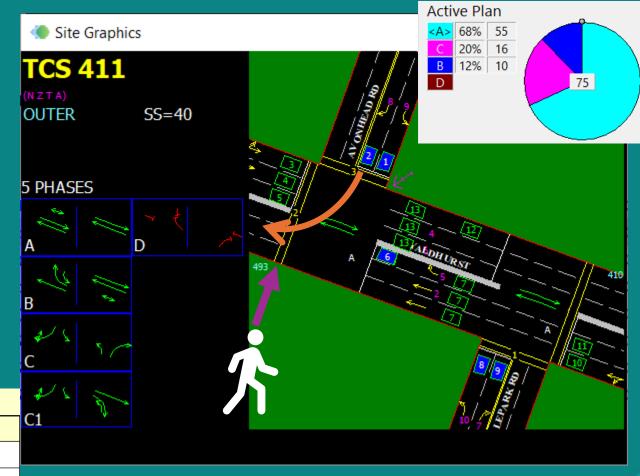
We have some long Ped Xings in the way of a vehicle turn movement

W2 runs in C ph and has LS & ped protection

Late Start Notes

| Phase | Description of Use | | | | | |
|-------|---|---------------|--|--|--|--|
| Α | Hold SG5 Red from B & hold Se | G6 Red from C | | | | |
| В | Hodl SG2 Red from A & hold SG4 Red from C | | | | | |
| С | Hold SG8 Red if P2 WK or CL | | | | | |

| Ped No | Crossing Distance | l (arn | Other Phases | Speed (m/s) | Walk Time | Clearance 1 Time | Clearance 2 Time | WALK + CL1/2 |
|-----------|----------------------|--------|-----------------|----------------|--------------|---------------------|---------------------|-----------------|
| 1 | 20 | Α | | 1.2 | 6 | 11 | 3.5 | 12 |
| 2 | 26 | С | | 1.2 | 6 | 17 | 3.0 | 14 |
| 3 | 22 | Α | | 1.2 | 6 | 13 | 3.5 | 12 |



| V | Vehicle Times | | | | | | | | | | |
|---|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| F | hase | ALT | LST | MIN | INC | MVG | MAX | ECG | AMB | RED | SRED |
| | Α | | 5 | 8 | | | 60 | | 4.5 | 1.0 | |
| | В | | 3 | 5 | | | 25 | | 4.5 | 1.0 | |
| | С | | 10 | 5 | | | 30 | | 4.0 | 1.0 | |
| | D | | | 5 | | | 10 | | 3.0 | 0.0 | |
| ╡ | | | | | | | | | | | |

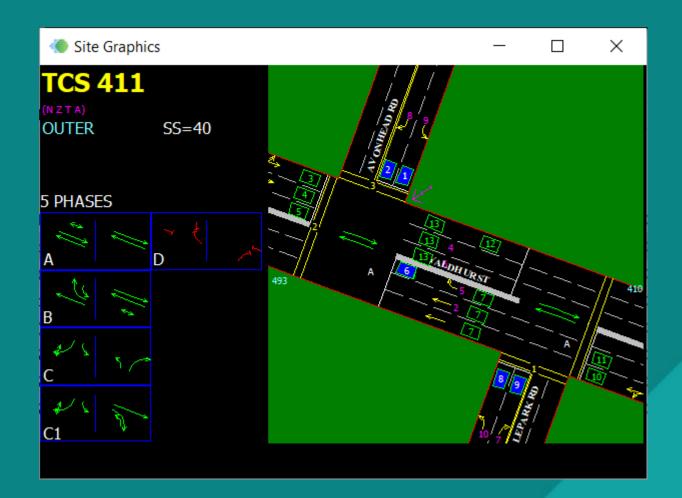


Three schools nearby

Getting complaints from drivers there is not enough time to RT from det 2 during school start and finish times

Also the stacking room WB is short

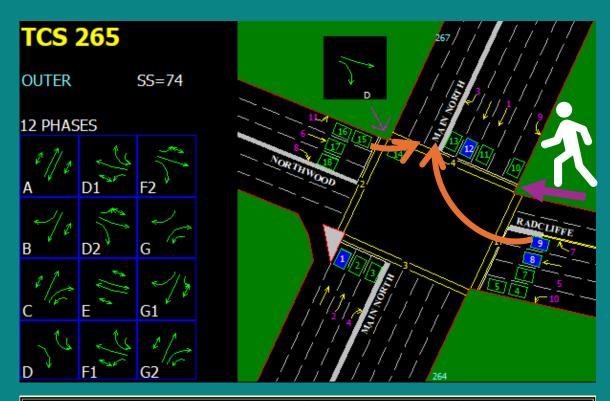
How do you manage these?







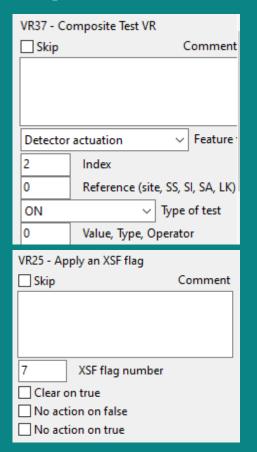
| Ped No | Crossing Distance | Main Grn Phase | Other Phases | Speed (m/s) | Walk Time | Clearance 1 Time | Clearance 2 Time | WALK + CL1/2 |
|-----------|----------------------|----------------------|-----------------|----------------|--------------|---------------------|---------------------|-----------------|
| 1 | 27 | Α | | 1.2 | 6 | 17 | 4.0 | 14 |
| 2 | 9 | D | | 1.2 | 6 | 3 | 3.0 | 7 |
| 3 | 9 | В | CD | 1.2 | 6 | 3 | 3.0 | 7 |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |

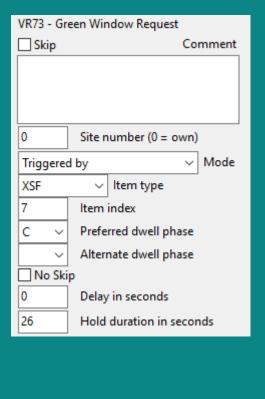


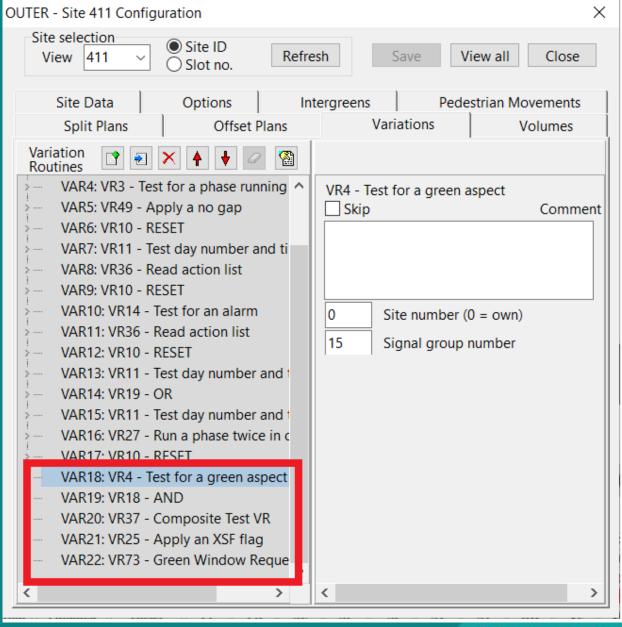
| Ped No | Crossing Distance | Main Grn Phase | Other Phases | Speed (m/s) | Walk Time | Clearance 1 Time | Clearance 2 Time | WALK + (CL1)/2 |
|-----------|----------------------|----------------------|-----------------|----------------|--------------|---------------------|---------------------|----------------|
| 1 | 20 | Α | BG1 | 1.2 | 6 | 10 | 4.5 | 11 |
| 2 | 22 | Α | CG2 | 1.2 | 6 | 12 | 4.5 | 12 |
| 3 | 25 | Е | D1F1 | 1.2 | 6 | 15 | 4.0 | 13 |
| 4 | 27 | Е | D2F2 | 1.2 | 6 | 17 | 4.0 | 14 |
| 5 | 20 | Α | | 1 | | 14 | P1 long pu | ısh CL1 |
| 6 | 22 | Α | | 1 | | 16 | P2 long pu | ısh CL1 |
| 7 | 25 | Е | | 1 | | 19 | P3 long pu | ısh CL1 |
| 8 | 27 | Е | | 1 | | 21.0 | P4 long pu | ısh CL1 |



We run a VR73 Green Window Request (Chris calls this Fire Station Green) to extend the Grn time for that C ph









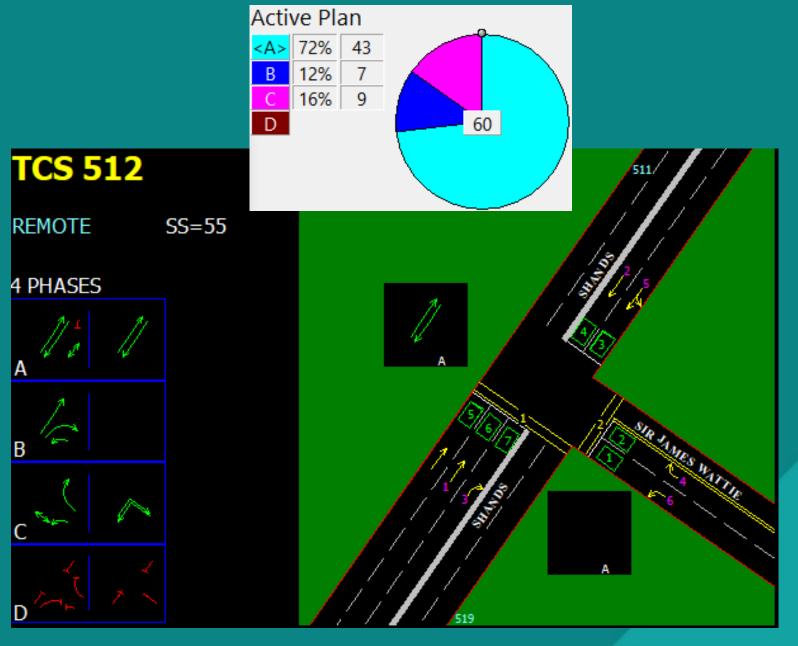
Count Routine



Our customer wanted something between Masterlink and Master Isolated

Master Iso runs CL <51, generally 1900-0600hrs

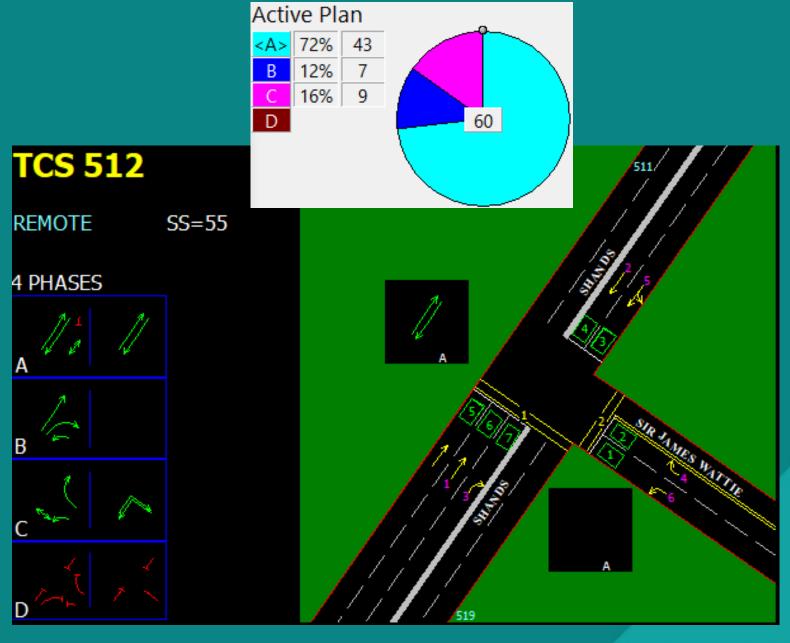
Masterlink CL 60-120



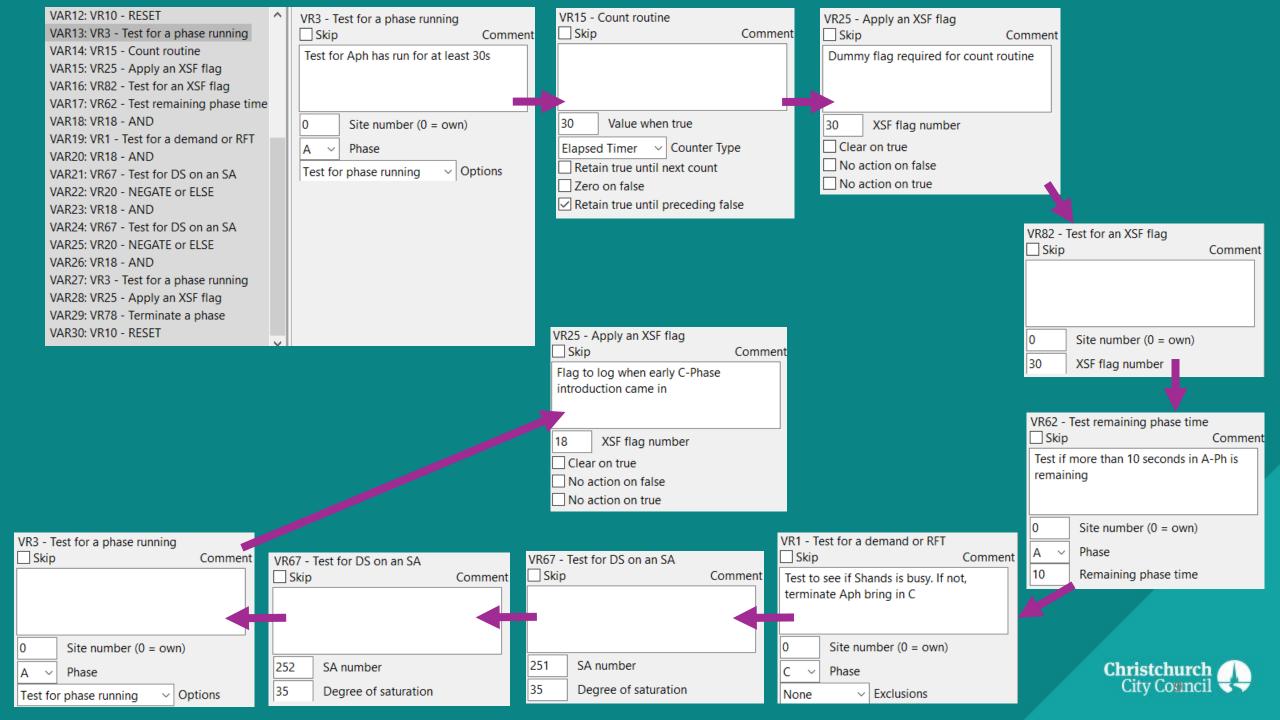


Essentially during the day, the side road has to wait for more than a minute to get out

How can we let these vehicles out while keeping corridor coordination?





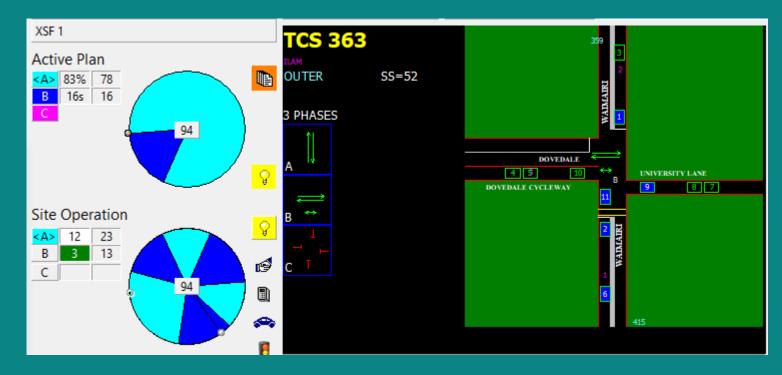


This also works well at midblocks

This side road in graphics isn't part of the site

Just managing the road vs MCR & Ped Xing here

Without the count routine, it goes off three times each CL, min Grn for vehicles



| VAR5: VR8 - Test for a cycle length VAR6: VR18 - AND | ^ | VR7 - Test for a Link Plan and/or a ma ☐ Skip Comment |
|---|---|---|
| VAR7: VR7 - Test for a Link Plan and/or a marriage VAR8: VR3 - Test for a phase running VAR9: VR15 - Count routine VAR10: VR25 - Apply an XSF flag VAR11: VR1 - Test for a demand or RFT VAR12: VR18 - AND VAR13: VR62 - Test remaining phase time VAR14: VR18 - AND VAR15: VR3 - Test for a phase running VAR16: VR82 - Test for an XSF flag VAR17: VR25 - Apply an XSF flag VAR18: VR78 - Terminate a phase | | 49 Subsystem number (0 = own 0 Link plan number Current vote Vote last cycle Vote 2 cycles ago Married |

| VR15 - Count routine | | | | | | |
|-------------------------------------|------------|---------|--|--|--|--|
| Skip | | Comment | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 45 | Value when | true | | | | |
| Elapsed Timer V Counter Type | | | | | | |
| Retain true until next count | | | | | | |
| Zero on false | | | | | | |
| ✓ Retain true until preceding false | | | | | | |
| | 100 | | | | | |



Ngā mihi Thank you

