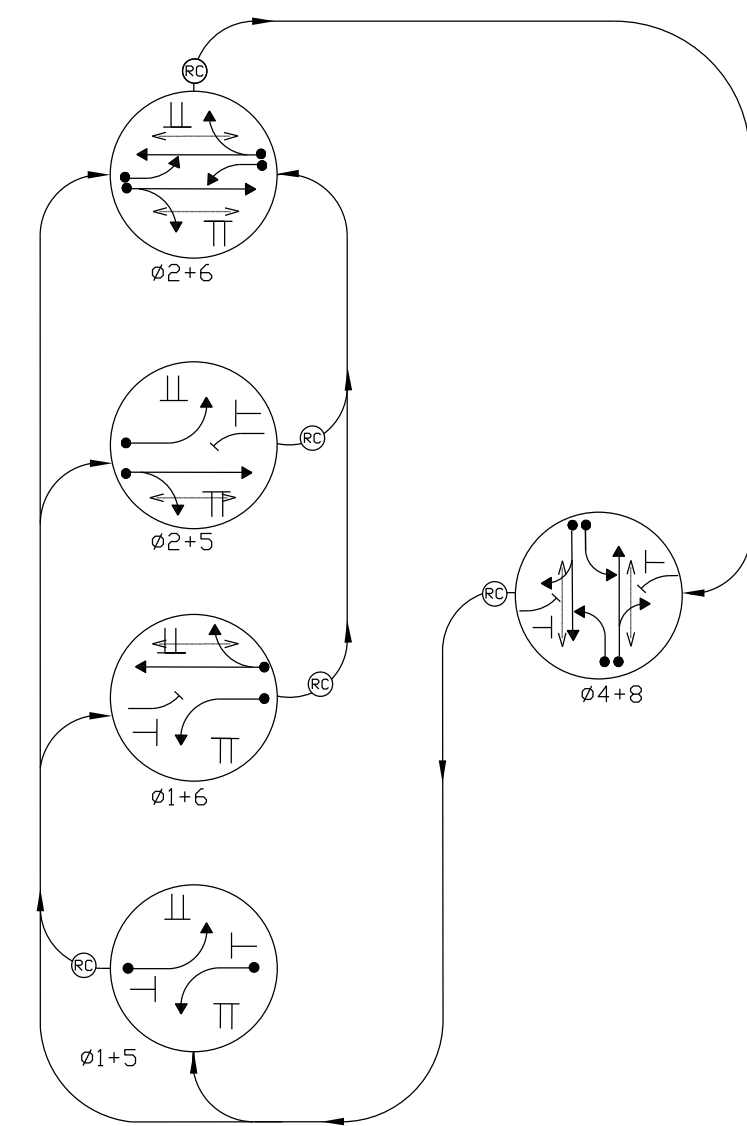


PHASING DIAGRAM

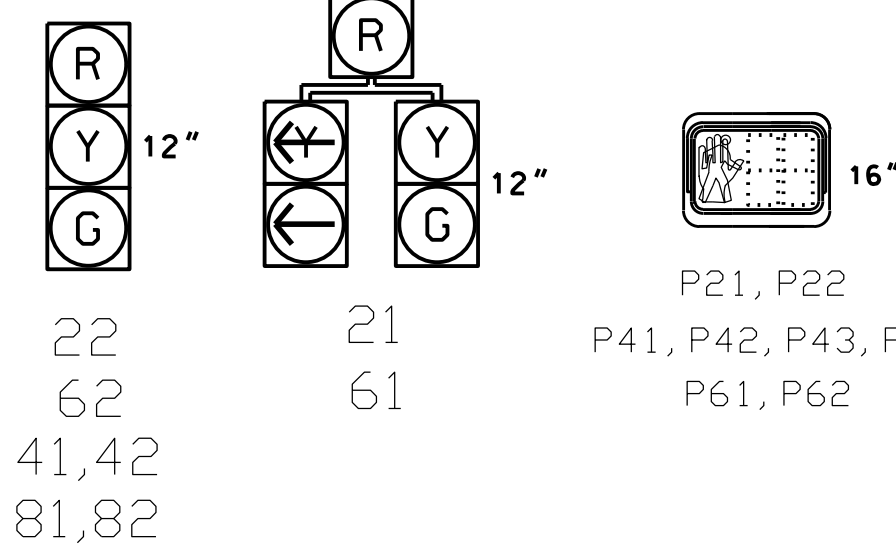


PHASING DIAGRAM
DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

| SIGNAL FACE | PHASE | | | | | FLASH |
|-------------|-------|------|------|------|------|-------|
| | Ø1+5 | Ø1+6 | Ø2+5 | Ø2+6 | Ø4+8 | |
| 21 | — | R | G | R | Y | |
| 22 | R | R | G | G | R | Y |
| 41 | R | R | R | R | G | R |
| 42 | R | R | R | R | G | R |
| 61 | — | G | R | G | R | Y |
| 62 | R | G | R | G | R | Y |
| 81 | R | R | R | R | G | R |
| 82 | R | R | R | R | G | R |
| P21,P22 | DW | DW | W | W | DW | DRK |
| P41,P42 | DW | DW | DW | DW | W | DRK |
| P43,P44 | DW | DW | DW | DW | W | DRK |
| P61,P62 | DW | W | DW | W | DW | DRK |

SIGNAL FACE I.D.
All Heads L.E.D.

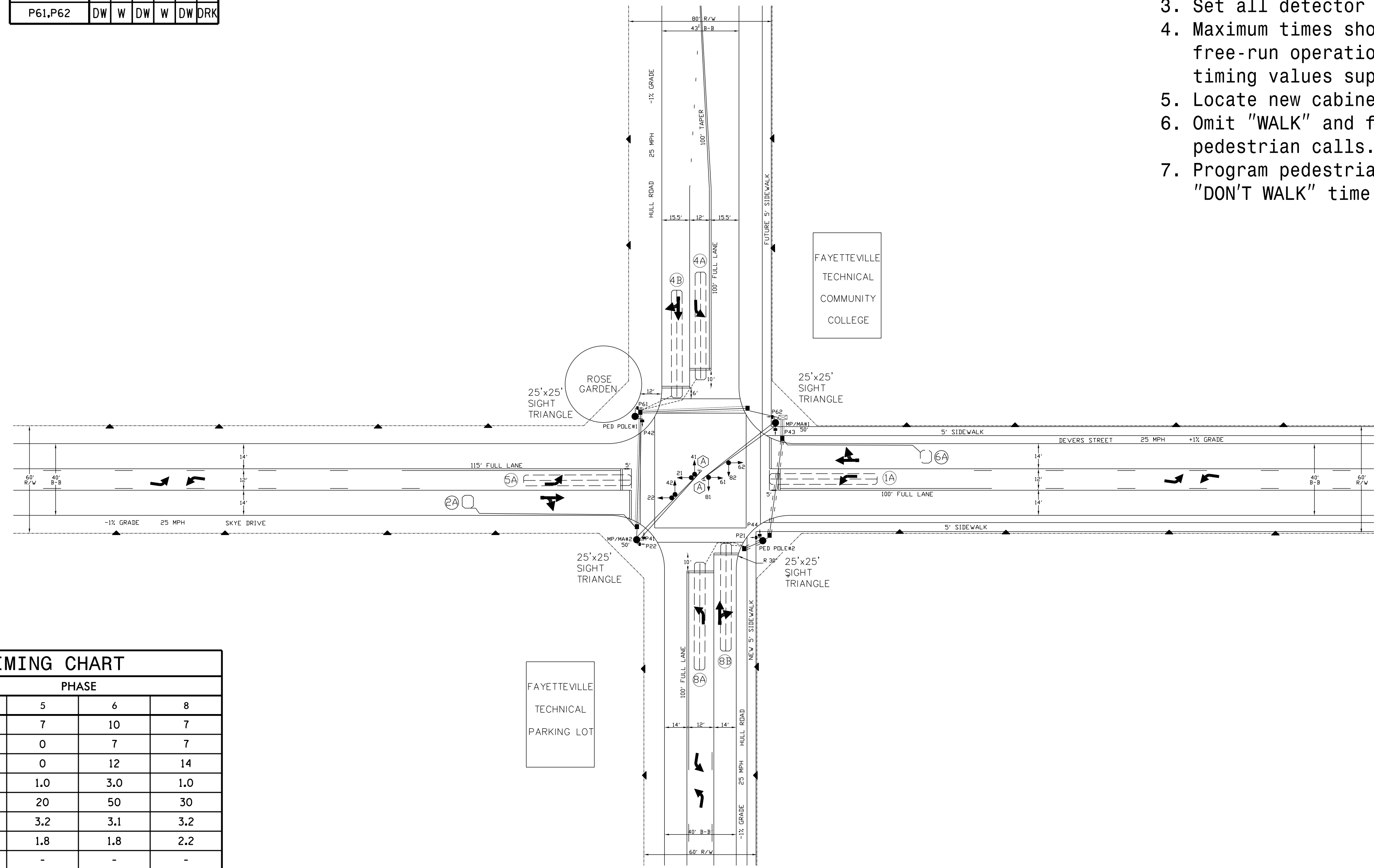


| ASC/3 DETECTOR INSTALLATION CHART | | | | | | | | | |
|-----------------------------------|-----------|----------------------------|-------|-------------|-------|-------------|------------|------|----------------------|
| DETECTOR | | | | PROGRAMMING | | | | | |
| LOOP | SIZE (FT) | DISTANCE FROM STOPBAR (FT) | TURNS | NEW LOOP | PHASE | EXTEND TIME | DELAY TIME | TYPE | SYSTEM LOOP NEW CARD |
| 1A | 6X60 | +5 | 2-4-2 | - | 1 | - | 15 | S | - Y |
| 2A | 6X6 | 70 | 4 | - | 6 | - | 3 | G | - Y |
| 4A | 6X60 | +5 | 2-4-2 | - | 4 | - | 3 | S | - Y |
| 4B | 6X60 | +5 | 2-4-2 | - | 4 | - | - | S | - Y |
| 5A | 6X60 | +5 | 2-4-2 | - | 5 | - | 15 | S | - Y |
| 6A | 6X6 | 70 | 4 | - | 2 | - | 3 | G | - Y |
| 8A | 6X60 | +5 | 2-4-2 | - | 8 | - | 3 | S | - Y |
| 8B | 6X60 | +5 | 2-4-2 | - | 8 | - | - | S | - Y |

5 PHASE PROTECTED-PERMITTED
FULLY ACTUATED
FAYETTEVILLE SIGNAL SYSTEM

NOTES

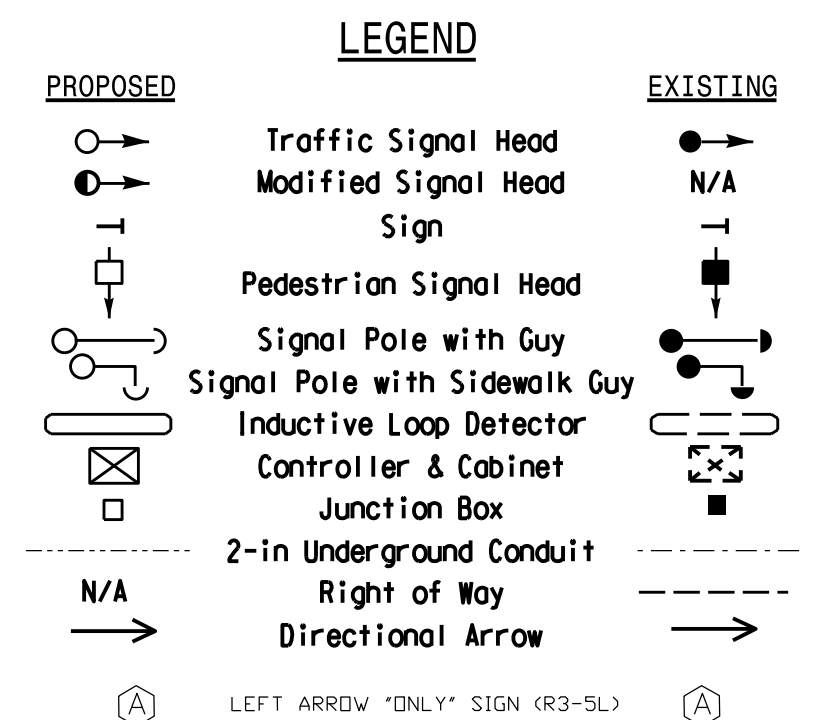
1. Refer to "Roadway Standard Drawings NCDOT" dated July 2012 and "Standard Specifications for Roads and Structures" dated July 2012.
2. Do not program signal for late night flashing operation unless directed by the Engineer.
3. Set all detector units to presence mode.
4. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
5. Locate new cabinet on existing foundation.
6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
7. Program pedestrian heads to countdown the flashing "DON'T WALK" time only.



ASC/3 TIMING CHART

| FEATURE | PHASE | | | | | |
|-------------------------|-------|-------------|-----|-----|-------------|-----|
| | 1 | 2 | 4 | 5 | 6 | 8 |
| Min Green * | 7 | 10 | 7 | 7 | 10 | 7 |
| Walk * | 0 | 7 | 7 | 0 | 7 | 7 |
| Ped Clear | 0 | 13 | 14 | 0 | 12 | 14 |
| Veh. Extension * | 1.0 | 3.0 | 1.0 | 1.0 | 3.0 | 1.0 |
| Max 1 * | 20 | 50 | 30 | 20 | 50 | 30 |
| Yellow | 3.1 | 3.2 | 3.2 | 3.2 | 3.1 | 3.2 |
| Red Clear | 1.8 | 1.8 | 2.2 | 1.8 | 1.8 | 2.2 |
| Actuations B4 Add * | - | - | - | - | - | - |
| Seconds / Actuation * | - | - | - | - | - | - |
| Max Initial * | - | - | - | - | - | - |
| Time Before Reduction * | - | - | - | - | - | - |
| Time To Reduce * | - | - | - | - | - | - |
| Minimum Gap | - | - | - | - | - | - |
| Locking Detector | - | X | - | - | X | - |
| Recall Position | - | VEH. RECALL | - | - | VEH. RECALL | - |
| Dual Entry | - | - | X | - | - | X |
| Simultaneous Gap | X | X | X | X | X | X |

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



Signal Upgrade

Prepared in the Offices of:
Hatch Mott MacDonald
PO Box 700
Fayetteville, NC 27526
www.hatchmott.com

| | | | | | |
|---------------------------------|--|--|--|---|--|
| | | <p>HULL ROAD AT DEVERS STREET-SKYE DRIVE</p> | | <p>SEAL NO. 18, CAROLINA PROFESSIONAL ENGINEERS SEAL 032711 RUSSELL W. THOMPSON</p> | |
| <p>PLAN DATE: NOVEMBER 2016</p> | | <p>REVIEWED BY: RWT</p> | | <p>DATE: 11/21/2016</p> | |
| <p>PREPARED BY: BLR</p> | | <p>REVIEWED BY:</p> | | <p>SIGNATURE: Russell W. Thompson</p> | |
| <p>REVISIONS</p> | | <p>INIT.</p> | | <p>DATE</p> | |
| <p>SIG. INVENTORY NO. C003</p> | | <p>SCALE 0 40</p> | | <p>DATE</p> | |

default \\NCF-DATA\Proj\360655_U-5742_Fay-Sig\Project\SIGNALS\100%FINAL SEALED PLANS\Revised 1172016\Devers.at-Hull.dgn
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