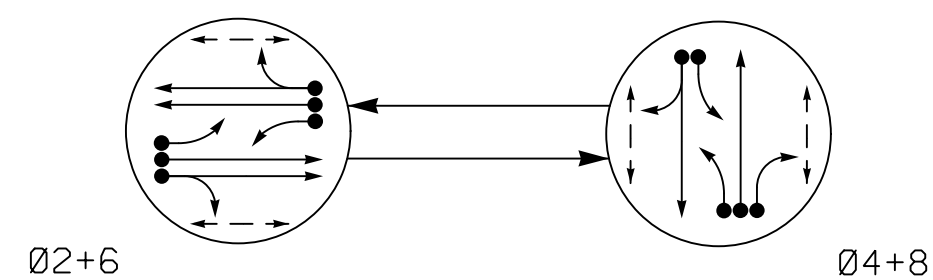


**PHASING DIAGRAM**



**PHASING DIAGRAM DETECTION LEGEND**

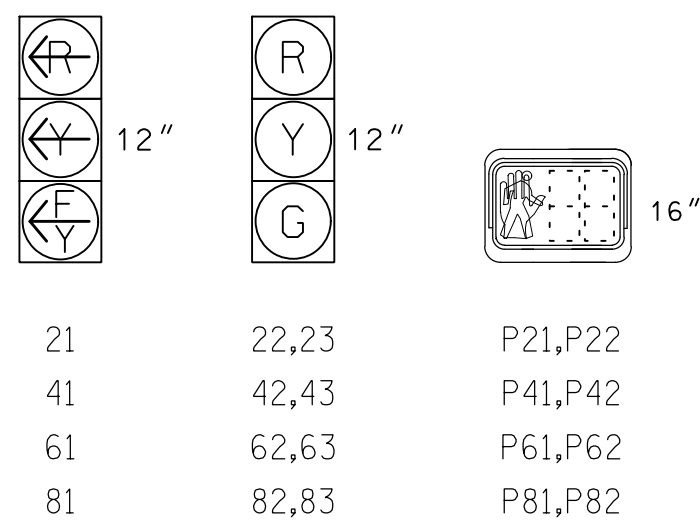
- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- ↔ PEDESTRIAN MOVEMENT

**TABLE OF OPERATION**

SIGNAL FACE	PHASE		
	02+6	04+8	FLASH
21	Y	Y	Y
22,23	G	R	Y
41	R	F	R
42,43	R	G	R
61	Y	Y	Y
62,63	G	R	Y
81	R	F	R
82,83	R	G	R
P21,P22	W	DW	DRK
P41,P42	DW	W	DRK
P61,P62	W	DW	DRK
P81,P82	DW	W	DRK

**SIGNAL FACE I.D.**

All Heads L.E.D.



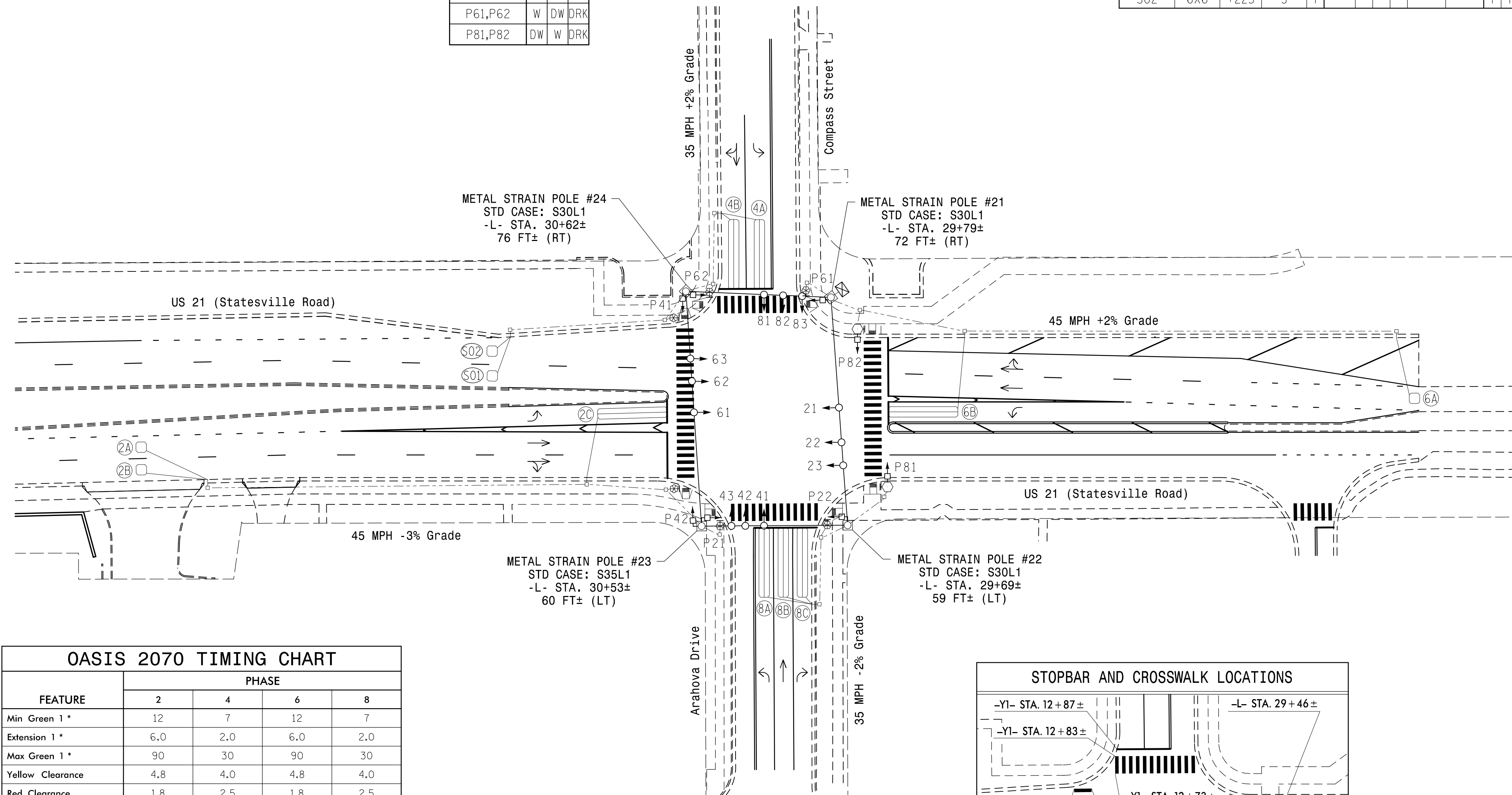
**OASIS 2070 LOOP & DETECTOR INSTALLATION CHART**

LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING				SYSTEM LOOP	NEW CARD	
					PHASE	CALLING	EXTENSION	FULL TIME DELAY			
2A	6X6	300	6	Y	2	Y	Y	-	-	-	Y
2B	6X6	300	6	Y	2	Y	Y	-	-	-	Y
2C	6X40	0	2-4-2	Y	2	Y	Y	-	-	3	Y
4A	6X40	0	2-4-2	Y	4	Y	Y	-	-	3	Y
4B	6X40	0	2-4-2	Y	4	Y	Y	-	-	10	Y
6A	6X6	300	4	Y	6	Y	Y	-	-	-	Y
6B	6X40	0	2-4-2	Y	6	Y	Y	-	-	3	Y
8A	6X40	0	2-4-2	Y	8	Y	Y	-	-	3	Y
8B	6X40	0	2-4-2	Y	8	Y	Y	-	-	-	Y
8C	6X40	0	2-4-2	Y	8	Y	Y	-	-	15	Y
S01	6X6	+225	3	Y	-	-	-	-	-	-	Y
S02	6X6	+225	3	Y	-	-	-	-	-	-	Y

**2 Phase Fully Actuated (Gilead Road Closed Loop System)**

**NOTES**

- Refer to "Roadway Standard Drawings NCDOT" dated January 2018, "Standard Specifications for Roads and Structures" dated January 2018.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- All pedestrian pushbuttons shall be located in the field by the Division Traffic Engineer before installation.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- Closed loop system data: Controller Asset #2266.



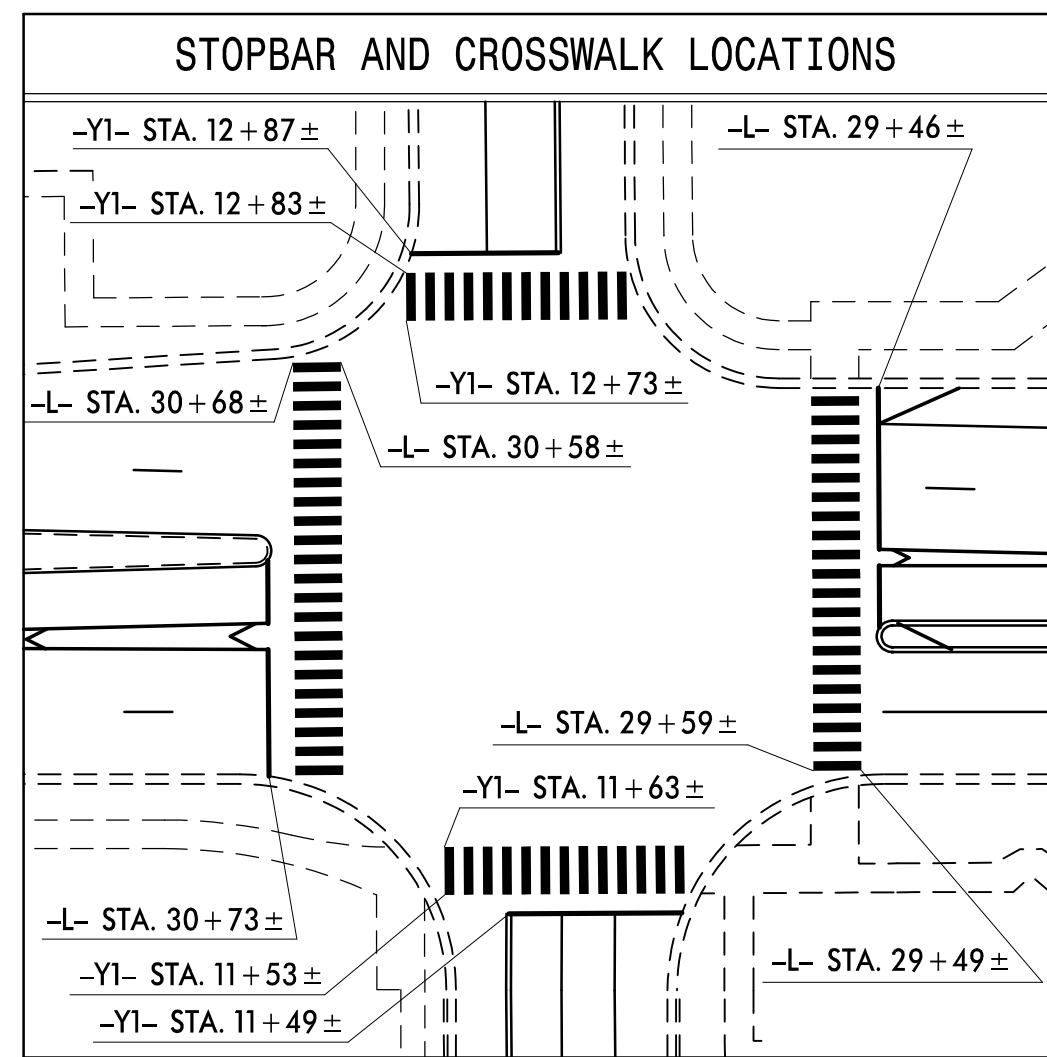
**LEGEND**

- | PROPOSED                   | EXISTING |
|----------------------------|----------|
| ○ Traffic Signal Head      | ● N/A    |
| ● Modified Signal Head     | — N/A    |
| — Sign                     | — N/A    |
| □ Pedestrian Signal Head   | □ N/A    |
| □ Pushbutton & Sign        | □ N/A    |
| □ Inductive Loop Detector  | □ N/A    |
| □ Controller & Cabinet     | □ N/A    |
| □ Junction Box             | □ N/A    |
| □ 2-in Underground Conduit | □ N/A    |
| — Right of Way             | — N/A    |
| → Directional Arrow        | → N/A    |
| ⊙ Metal Strain Pole        | ⊙ N/A    |
| ⊙ Type I Pushbutton Post   | ⊙ N/A    |
| ○ Type II Signal Pedestal  | ○ N/A    |

**OASIS 2070 TIMING CHART**

FEATURE	PHASE			
	2	4	6	8
Min Green 1 *	12	7	12	7
Extension 1 *	6.0	2.0	6.0	2.0
Max Green 1 *	90	30	90	30
Yellow Clearance	4.8	4.0	4.8	4.0
Red Clearance	1.8	2.5	1.8	2.5
Red Revert	2.0	2.0	2.0	2.0
Walk 1 *	7	7	7	7
Don't Walk 1	13	24	12	21
Seconds Per Actuation *	1.5	-	1.5	-
Max Variable Initial *	34	-	34	-
Time Before Reduction *	15	-	15	-
Time To Reduce *	30	-	30	-
Minimum Gap	3.0	-	3.0	-
Recall Mode	MIN RECALL	-	MIN RECALL	-
Vehicle Call Memory	YELLOW	-	YELLOW	-
Dual Entry	-	ON	-	ON
Simultaneous Gap	ON	ON	ON	ON

\* 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.



**STV 100 Years**  
 STV Engineers, Inc.  
 900 West Trade St., Suite 715  
 Charlotte, NC 28202  
 (704) 372-1885  
 NC License Number F-0991

**NEW INSTALLATION**

US 21 (Statesville Road) at Arahova Drive/Compass Street

Division 10 Wecklenburg Huntersville

PLAN DATE: November 2017 REVIEWED BY: R. Mattern

PREPARED BY: J. Trueblood REVIEWED BY: J. Carroll

750 N. Greenfield Pkwy, Garner, NC 27529

SCALE: 1" = 40'

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030005 JUSTIN T. CARROLL

DocuSigned by: Justin S. Carroll 4/18/2018

SIGNATURE DATE

SIG. INVENTORY NO. 10-2266