

APPENDIX "A"

INTSC NO	LOCATION	CURRENT TYPE	SHARE (%)			
			County of Fresno	City of Fresno	City of Clovis	TOTAL
5	ALTA & MANNING	Traffic Control Signal	100	0	0	100
25	LAC JAC & MANNING	Traffic Control Signal	100	0	0	100
29	MANNING & ZEDIKER	Traffic Control Signal	100	0	0	100
30	MANNING & NEWMARK	Traffic Control Signal	100	0	0	100
40	MOUNTAIN VIEW & ZEDIKER	Traffic Control Signal	100	0	0	100
50	MENDOCINO & MOUNTAIN VIEW	Traffic Control Signal	100	0	0	100
55	ACADEMY & MOUNTAIN VIEW	Traffic Control Signal	100	0	0	100
58	PARLIER & SMYRNA	1-Way Stop Flashing Beacon	100	0	0	100
60	ACADEMY & MANNING	Traffic Control Signal	100	0	0	100
62	BETHEL & MANNING	Traffic Control Signal	100	0	0	100
65	ACADEMY & BELMONT	Traffic Control Signal	100	0	0	100
85	BETHEL & MOUNTAIN VIEW	Traffic Control Signal	100	0	0	100
90	GOLDEN STATE & MOUNTAIN VIEW	Traffic Control Signal	100	0	0	100
104	MANNING & MCCALL	Traffic Control Signal	100	0	0	100
106	MENDOCINO & PARLIER	All-Way Stop Flashing Beacon	100	0	0	100
125	JENSEN & MCCALL	Traffic Control Signal	100	0	0	100
** 141	CORTLAND & LOCAN	1-Way Stop/Future HAWK Beacon	50	50	0	100
143	SHIELDS & TEMPERANCE	Traffic Control Signal	25	75	0	100
145	CLINTON & TEMPERANCE	Traffic Control Signal	50	50	0	100
156	ARMSTRONG & LANE	Flashing Beacon	50	50	0	100
163	FOWLER & JENSEN	Traffic Control Signal	50	50	0	100
164	JENSEN & TEMPERANCE	Traffic Control Signal	100	0	0	100
166	BELMONT & FOWLER	Traffic Control Signal	25	75	0	100
170	CLINTON & FOWLER	Traffic Control Signal	50	50	0	100
** 195	MCCALL & SHAW	All-Way Stop/Future Traffic Control Signal	100	0	0	100
202	AMERICAN & CLOVIS	Traffic Control Signal	100	0	0	100
203	CLOVIS & GOLDEN STATE FRTG	Traffic Control Signal	100	0	0	100
204	GOLDEN STATE FRTG & GOLDN ST	Traffic Control Signal	100	0	0	100
206	CENTRAL & CLOVIS	Traffic Control Signal	100	0	0	100
207	CLOVIS & NORTH	Traffic Control Signal	100	0	0	100
210	CLOVIS & JENSEN	Traffic Control Signal	50	50	0	100
215	BUTLER & CLOVIS	Traffic Control Signal	100	0	0	100
216	CLOVIS & KINGS CANYON	Traffic Control Signal	50	50	0	100
218	FOWLER & KINGS CANYON	Traffic Control Signal	25	75	0	100
219	ARMSTRONG & KINGS CANYON	Traffic Control Signal	25	75	0	100
** 244	BELMONT & SUNNYSIDE	2-Way Stop/Future Traffic Control Signal	25	75	0	100

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* 245	ASHLAN & CLOVIS	Traffic Control Signal	100	0	0	100
* 251	GETTYSBURG & SIERRA VISTA / SUNNYSIDE	Traffic Control Signal	50	0	50	100
* 259	ASHLAN & MINNEWAWA	Traffic Control Signal	50	0	50	100
* 283	SHEPHERD & WILLOW	Traffic Control Signal	25	25	50	100
284	PERRIN & WILLOW	Traffic Control Signal	33	67	0	100
285	BEHYMER & WILLOW	Traffic Control Signal	50	50	0	100
288	INTERNATIONAL & WILLOW	Traffic Control Signal	50	50	0	100
307	HUNTINGTON & PEACH	Traffic Control Signal	25	75	0	100
308	PEACH & TULARE	Traffic Control Signal	25	75	0	100
309	HELM & TULARE	Traffic Control Signal	50	50	0	100
310	BELMONT & PEACH	Traffic Control Signal	75	25	0	100
311	MCKENZIE TRAIL & PEACH	Flashing Beacon	50	50	0	100
312	BELMONT & HELM	Traffic Control Signal	75	25	0	100
330	BELMONT & WILLOW	Traffic Control Signal	100	0	0	100
335	OLIVE & WILLOW	Traffic Control Signal	25	75	0	100
348	CLINTON & WINERY	Traffic Control Signal	12.5	87.5	0	100
350	CENTRAL & CHESTNUT	Traffic Control Signal	100	0	0	100
354	CENTRAL & GOLDEN STATE	Traffic Control Signal	100	0	0	100
** 355	AMERICAN & GOLDEN STATE	All-Way Stop/Future Traffic Control Signal	100	0	0	100
357	CHESTNUT & NORTH	Traffic Control Signal	100	0	0	100
358	JENSEN & PEACH	Traffic Control Signal	50	50	0	100
359	JENSEN & SUNNYSIDE	Traffic Control Signal	50	50	0	100
360	CHESTNUT & JENSEN	Traffic Control Signal	25	75	0	100
361	JENSEN & WILLOW	Traffic Control Signal	50	50	0	100
400	CHESTNUT & CLINTON	Traffic Control Signal	50	50	0	100
405	CHESTNUT & SHIELDS	Traffic Control Signal	50	50	0	100
416	ALLUVIAL & CHESTNUT	Traffic Control Signal	25	75	0	100
420	SHIELDS & SIERRA VISTA	Traffic Control Signal	12.5	87.5	0	100
425	JENSEN & MAPLE	Traffic Control Signal	50	50	0	100
457	MAPLE & WELDON	Flashing Beacon	50	50	0	100
460	CLINTON & MAPLE	Traffic Control Signal	75	25	0	100
462	CLINTON & SIERRA VISTA	Traffic Control Signal	50	50	0	100
530	CEDAR & JENSEN BY-PASS	Traffic Control Signal	50	50	0	100
531	CALWA SCHOOL & CEDAR	Traffic Control Signal	50	50	0	100
535	CEDAR & CHURCH	Traffic Control Signal	25	75	0	100
575	CEDAR & PRINCETON	Traffic Control Signal	25	75	0	100
650	CHURCH & ORANGE	Traffic Control Signal	75	25	0	100
715	CLINTON & MILLBROOK	Traffic Control Signal	50	50	0	100
717	CLINTON & NINTH	Traffic Control Signal	50	50	0	100
764	KINGS CANYON & TEMPERANCE	Traffic Control Signal	75	25	0	100

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769	KINGS CANYON & MINNEWAWA	Traffic Control Signal	50	50	0	100
903	MILLERTON & TABLE MOUNTAIN ENTRANCE	Traffic Control Signal	100	0	0	100
907	FRIANT & NORTH FORK	Traffic Control Signal	100	0	0	100
** 908	BRIGHTON CREST & MILLERTON	1-Way Stop/Future Traffic Control Signal	100	0	0	100
1449	LINCOLN & ELM/LOTUS	Traffic Control Signal	100	0	0	100
1450	ELM & NORTH	Traffic Control Signal	50	50	0	100
1452	ELM & LINCOLN	Traffic Control Signal	100	0	0	100
1620	ASHLAN & MAROA	Traffic Control Signal	50	50	0	100
1625	MAROA & SHAW	Traffic Control Signal	100	0	0	100
1630	BARSTOW & MAROA	Traffic Control Signal	25	75	0	100
1635	BULLARD & MAROA	Traffic Control Signal	25	75	0	100
1835	ASHLAN & PALM	Traffic Control Signal	100	0	0	100
1836	ASHLAN & THORNE	Traffic Control Signal	100	0	0	100
1840	GETTYSBURG & PALM	Traffic Control Signal	100	0	0	100
1845	PALM & SHAW	Traffic Control Signal	25	75	0	100
1847	PALM & SAN JOSE	Traffic Control Signal	25	75	0	100
1858	PALM & SIERRA	Traffic Control Signal	25	75	0	100
1900	ASHLAN & FRUIT	Traffic Control Signal	25	75	0	100
1910	BARSTOW & FRUIT	Traffic Control Signal	100	0	0	100
1911	BROWNING & FRUIT	Traffic Control Signal	100	0	0	100
1912	BULLARD & FRUIT	Traffic Control Signal	50	50	0	100
1913	FRUIT & SIERRA	Traffic Control Signal	75	25	0	100
1960	BARSTOW & WEST	Traffic Control Signal	25	75	0	100
1967	SIERRA & WEST	Traffic Control Signal	50	50	0	100
1994	MARKS & MCKINLEY	Traffic Control Signal	25	75	0	100
2016	BARSTOW & MARKS	Traffic Control Signal	25	75	0	100
** 2044	BLYTHE & SHIELDS	All-Way Stop/Future Traffic Control Signal	100	0	0	100
2046	BLYTHE & WELDON	Traffic Control Signal	25	75	0	100
2072	CORNELIA & DAKOTA	Traffic Control Signal	25	75	0	100
2083	GRANTLAND & MESA	Flashing Beacon	50	50	0	100
2110	HERNDON & VAN NESS EXTENSION	Traffic Control Signal	25	75	0	100
2125	DICKENSON & JENSEN	All-Way Stop Flashing Beacon	100	0	0	100

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NOTES:

* = Pending City of Clovis agreement.

** = Not an energized operational signal as of 9/17/2019.

SHARE PERCENTS:

For a 4-way intersection, 1 travel lane in each direction, to the nearest 25%.

For a 4-way intersection, 2 or more travel lanes in each direction, to the nearest 12.5%.

For a 3-way intersection, to the nearest 33%.

Traffic Signal Maintenance Agreement - Appendix B

CITY OF FRESNO, DEPARTMENT OF PUBLIC WORKS TRAFFIC SIGNAL AND STREET LIGHT DIVISION SERVICE PROVISION FOR THE COUNTY OF FRESNO

This list of services is provided for traffic signals that are located in County of Fresno jurisdiction. The City of Fresno will only maintain traffic signals that are built to City of Fresno Standards.

List of services:

- Preventative Maintenance Inspections (PMI's)
 - Type 1 Operational Check (General Traffic Signal Inspection - Annual)
 - Type 2 Operational Check (Conflict Monitor Inspection – Bi-Annual)
- Emergency 24-Hour Response
- Trouble Shooting, Equipment Testing, and Corresponding Repairs
- Review of Plans & Submittals
- Camera Installation/Maintenance
- Video Detection Installation/Maintenance
- Audible Pedestrian System Installation/Maintenance
- Emergency Vehicle Preemption Installations/Programming/Maintenance
- Rail Road Preemption Installations/Programming/Maintenance
- Bus Rapid Transit Installation/Programming/Maintenance
- Underground Service Alerts (USA's)
- Traffic Signal Construction Inspection
- Street Light Construction Inspection
- ITS Construction Inspection
- New Signal Activation
- Special Event Modifications
- 332 Cabinet Testing
- Flash Requests

Type 1 Annual Operational Check

Cabinet:

1. Replace filter (s).
2. Lubricate locks and hinges as needed.
3. Check fan and thermostat operation.
4. Check conduit sealant.
5. Check gaskets and seals, repair or lubricate as needed.
6. Remove graffiti, tape residue, signs, etc.
7. Spot painted as needed.
8. Inspect wiring and terminations for burnt terminals and/or damaged insulation.
9. Test GFCI receptacle prior to use.
10. Vacuum or blow out accumulated dirt / debris.

Controller:

1. Observe indicators for proper operation.
2. Verify that cards or modules are properly sealed.
3. Verify that connectors are secure.
4. Verify operation/timing per timing sheet.

Conflict Monitor:

1. Verify operation with watchdog trip.
2. Reset monitor.
3. Observe indicators for proper operation.
4. Inspect ribbon cable on "Plus" monitors for damage.
5. Verify that the program card is properly sealed.
6. Verify that connectors are secure.

Switch Packs:

1. Observe indicators for proper operation.
2. Verify that switches are properly sealed.

Flashers:

1. Observe indicators for proper operation.
2. Verify that switches are properly seated.
3. Check flash operation; Cabinet, Police & CMU.

Relays:

1. Check for burnt or overheated contacts.
2. Verify that relays are properly seated.

Clocks:

1. Check for correct time / DOW settings.
2. Manually verify output switch operation.

Preemption:

1. Simulate actuation, verify proper operation.

Coordination:

1. Observe that current plan is per TOD.
2. Check for correct time / DOW setting.

Signal Heads:

1. Inspect alignment and visibility.
2. Check for broken lenses.
3. Check for burned out lamps / LED's.
4. Check for missing / damaged visors and backplates.

Poles and Mastarms:

1. Check for missing / damaged hand hole covers.
2. Check anchor bolt hardware for tightness.
3. Check condition of grout.
4. Check plumb of pole.
5. Check for damage, dents, etc.
6. If painted, spot prime / paint as needed.
7. Remove graffiti, tape residue, signs, etc.

Pedestrian Push Buttons:

1. Check all buttons for proper operation.
2. Check signs for legibility.
3. Verify proper field operation.

Detector Loops:

1. Inspect roadway along loop perimeter for exposed wire / conduit, pot holes, missing sealant, etc.

Detector Amplifiers:

1. Verify that vehicles are being detected.
2. Verify appropriate call is registered in controller.

Pull Boxes:

1. Check boxes and lids for breakage.
2. Remove accumulated dirt and water.
3. Treat for insects, if needed.
4. Check for condition of grout.
5. Check for missing delineator posts.
6. Check duct seal.

Electrical Service:

1. Check lock for serviceability.
2. If pedestal, check meter window for clarity, spray with silicone.
3. Remove graffiti, tape residue, signs, etc.
4. Check duct seal.
5. Turn on and check safety lights.
6. If pole mounted:
 - a. Inspect conduit for damage.
 - b. Check ground connection for tightness.

Type 2 Bi-Annual Conflict Monitor Unit Test

Conflict Monitor: Testing as per CalTrans Model 210 Conflict Monitor Certification Report

1. Perform Diagnostic Test
2. System Timing Tests
3. Voltage Tests
4. Permissive Tests
5. Watchdog Tests
6. Logic GND Tests