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Introduction

Project Background

Howe Avenue is a multimodal corridor in Sacramento, California, serving as a major connection across the American River and classified as an arterial in the city's transportation network. Howe Avenue is identified as a part of the High Injury Network in the City of Sacramento's Vison Zero Action Plan¹ (2018), which means that the corridor experiences a high volume of fatal and serious injury crashes for persons walking, biking, rolling and driving on Howe Avenue.

The Connecting Howe Avenue Safety & Mobility Plan (Plan), funded through a Caltrans Sustainable Transportation Planning Grant, supports Sacramento's commitment to equitable engagement by involving local communities in identifying their transportation needs. The plan aims to improve safety and mobility for all road users by evaluating current conditions and proposing improvements to eliminate barriers, improve access, and address community priorities. The project limits are along Howe Avenue from Fair Oaks Boulevard to the Sacramento Regional Transit (SacRT) Power Inn Light Rail Station just south of Folsom Boulevard.

Policy Framework and Setting

In 2019, the City of Sacramento adopted a Complete Streets Policy² which confirms the City's commitment to Complete Streets to ensure that future transportation projects support a safer, accessible, and connected multi-modal transportation network.

On February 27, 2024, the City adopted the Sacramento 2040 General Plan and Climate Action & Adaptation Plan. The General Plan lists several goals, policies, and implementation measures for the City. The Mobility element of the 2040 General Plan outlines several policies that are related to the Howe Avenue Safety & Mobility Plan.

The following policies relate to Howe Avenue:

• M-1.1. The City shall maintain a street classification system that considers the role of streets as corridors for movement but prioritizes a context-sensitive Complete

¹ City of Sacramento. (2018). *Vision Zero action plan*. https://www.cityofsacramento.gov/content/dam/portal/pw/Transportation/VisionZero/Vision-Zero-Action-Plan-Adopted-August-2018.pdf

² City of Sacramento, Department of Transportation. (2019). Approving environmental review of and adopting a complete streets policy (Report No. R2019-0460). City of Sacramento. https://www.cityofsacramento.gov/content/dam/portal/pw/Transportation/Transportation-Planning/R2019-0460-Approving-Environmental-Review-of-and-Adopting-a-Complete-Streets-Policy.pdf

- Streets concept that enables connected, comfortable, and convenient travel for those walking, rolling, and taking transit.
- M-1.2. The City shall prioritize mobility, comfort, health, safety, and convenience for those walking, followed by those bicycling and riding transit, ahead of design and operations for those driving.
- M-1.4. In planning, designing, and managing the transportation system, the City shall prioritize person throughput to shift trips to more efficient travel modes and upgrade the performance of limited street space.
- M-1.5. The City shall maintain street design and operations standards that prioritize comfort and travel time for walking, bicycling, and transit, while managing vehicle speeds and traffic volumes, updating them as best practices evolve.
- M-1.6. Wherever feasible, the City shall design buildings, the public realm, streets, and pedestrian access to integrate transit into existing neighborhoods and proposed developments and destinations such as schools, employment centers, commercial centers, major attractions, and public walking spaces to improve access for users by transit.
- M-1.8. When designing projects, the City shall prioritize designs that strengthen the protection of people bicycling such as improvements that increase visibility of bicyclists, increase bikeway widths, raise bikeways, design safer intersection crossings and turns, and separate bikeways from driving traffic wherever feasible.
- M-1.9. The City shall ensure that the transportation system is planned and implemented with an equitable process to achieve equitable outcomes and investments so that all neighborhoods one day will have similar levels of transportation infrastructure such as sidewalks, marked low stress crossings, and bikeways.
- M.1.11. The City shall strive to increase bicycling and walking citywide so that it can meet its equity, reduced vehicle miles traveled, and sustainability goals.
- M-1.12. Through the development approval process and public and private investments, the City shall foster additional walking and bicycling connections to light rail stations and strengthen existing connections to enhance first/last mile connectivity and make it easier to travel between the station and surrounding neighborhoods and destinations. As feasible, connections should include pedestrian-level streetlighting and tree-shading.
- M-1.13. The City shall design streets to prioritize walking by including design elements such as the following:
 - Grid networks that provide high levels of connectivity;
 - Closely spaced intersections;
 - Frequent and low-stress crossings;
 - Wide, unobstructed walkable sidewalks;
 - Separation from vehicle traffic;

- Street trees that provide shading; and
- Minimal curb cuts.
- M-1.14. The City shall work to complete the network of tree-shaded sidewalks throughout the city, to the greatest extent feasible by building new sidewalks and crossings, especially within the high-injury network, in disadvantaged communities, near high-ridership transit stops, and near important destinations, such as schools, parks, and commercial areas. Walking facilities should incorporate shade trees.
- M-1.15. The City shall require new subdivisions, new multi-unit dwelling developments, and new developments along commercial corridors to include welllit, tree-shaded walkways where feasible, that provide direct links to the public realm or adjacent public destinations such as transit stops and stations, schools, parks and shopping centers.
- M-1.16. The City shall remove barriers to walking, where feasible, and work with utility companies to remove barriers to allow people of all abilities to move with comfort and convenience throughout the city, including through the following:
 - Provisions of curb ramps, crosswalks, and overpasses;
 - Relocation of infrastructure of street furniture that impedes travel pathways;
 - Reducing or consolidating driveways and curb cuts;
 - Providing long and short-term bicycle and scooter parking to minimize sidewalk obstructions; and
 - Creation of additional walking entrances to important destinations like schools, parks, and commercial areas.
- M-1.17. The City shall plan and seek funding for a continuous, low-stress bikeway network consisting of bicycling-friendly facilities that connect neighborhoods with destinations and activity centers throughout the city.
- M-1.18. When designing projects, the City shall prioritize designs that strengthen the protection of people bicycling such as improvements that increase visibility of bicyclists, increase bikeway widths, raise bikeways, design safer intersection crossings and turns, and separate bikeways from driving traffic wherever feasible.
- M-1.19. When designing projects, the City shall prioritize designs that encourage walking and improve walking safety best practice designs and considerations for efficiencies in walking.
- M-1.20. The City shall collaborate with the Sacramento Regional Transit District (SacRT) to facilitate the implementation of high-frequency transit service on a network of interconnected corridors with characteristics that best support high-frequency transit service and those characteristics that meet City goals, managing corridor operations to provide for adequate transit vehicle speed and reliability.
- M-1.25. The City shall support "first-mile, last-mile solutions" such as e-bikes/e-scooters as well as multimodal transportation services, public realm improvements (e.g., bicycle parking infrastructure), and other innovations in the areas around

- transit stations and major bus stops (transit stops) to maximize multimodal connectivity and access for transit riders.
- M-1.26. The City shall encourage the Sacramento Regional Transit District (SacRT) to implement bus shelter design that encourages transit use, informed by ADA-compliance, bus stop placement, and passenger safety best practices. Where feasible, the City should collaborate with SacRT on bus stop designs for major corridor improvement projects.

Within the 2040 General Plan is the Arden Arcade Community Plan, which identifies policies specific to the Arden Arcade neighborhood, including Howe Avenue. There are no policies provided in the Arden Arcade Community Plan section that are specific to Howe Avenue or the Howe Avenue Safety & Mobility Plan that supplement the citywide General Plan policies.

Literature Review

The City has developed several planning studies that overlap or are relevant to planning efforts on the Howe Avenue study corridor. This section provides a brief literature review of several key plans and policies by the City of Sacramento, focusing on their relevance to Howe Avenue.

Sacramento County Fair Oaks Boulevard Complete Streets Master Plan (2017)

The Fair Oaks Boulevard Complete Streets Master Plan was developed by the Sacramento County Department of Transportation (SacDOT) to envision a complete streets corridor on Fair Oaks Boulevard from Howe Avenue to Munroe Street. The Plan notes that there are no bicycle facilities on Fair Oaks Boulevard from Howe Avenue to Munroe Street. The Plan also describes the Fair Oaks Boulevard and Howe Avenue intersections as a conflict point for people walking and biking and that the intersection is uncomfortable to cross.

Vision Zero Action Plan (2018)

In January 2017, the City adopted a goal to eliminate traffic fatalities and serious injuries³. Howe Avenue is identified in the City of Sacramento Vision Zero Action Plan as a

³ City of Sacramento. (2017). *Adopted Resolution No. 2017-0032: Vision Zero*. Retrieved from https://www.cityofsacramento.gov/content/dam/portal/pw/Transportation/VisionZero/Adopted-Reso-2017-0032-Vision-Zero.pdf.

High Injury Corridor. The Sacramento Vision Zero Action Plan aims to support the City's General Plan in maintaining safety and health of its residents and visitors.

The Vision Zero Action Plan analyzes crash trends and patterns across the city, providing both short- and long-term strategies to improve transportation safety. By implementing these measures, the plan aims to eliminate fatal and severe injury crashes. In the Vision Zero Plan, Howe Avenue was associated with the following crash profiles: Unsafe speed on non-local streets, alcohol involved, 35+ mph streets, 30+ mph - bicycle involved, and driver making left or right turn - bicycle involved.

Regular updates incorporate new traffic data and measure progress toward achieving this critical safety goal.

Transportation Priorities Plan (2022)

In November 2022, the City adopted the Transportation Priorities Plan (TPP), a comprehensive framework for identifying and funding critical transportation projects. The TPP outlines priority areas, funding sources, and the city's most pressing transportation needs, providing a clear roadmap for future improvements.

Among its identified projects, the TPP designates several initiatives on Howe Avenue as medium priority, including bridge replacement, streetscape enhancements, and improved bike lane connectivity to adjacent corridors.

Climate Action & Adaptation Plan (2024)

On February 27, 2024, the City adopted the Climate Action and Adaptation Plan (CAAP), which details strategies to reduce greenhouse gas (GHG) emissions by 2030. Building on the framework established by the City's 2012 Climate Action Plan, the CAAP underscores active transportation—such as walking, cycling, and other sustainable travel modes—as a cornerstone of its efforts to achieve these ambitious goals. By prioritizing investments in active transportation and enhancing connectivity to public transit hubs like the Power Inn Light Rail Transit (LRT) Station, the plan aims to decrease reliance on single-occupancy vehicles, thereby reducing GHG emissions and improving residents' quality of life.

2040 General Plan - Environmental Justice Element (2024)

The Sacramento 2040 General Plan includes an Environmental Justice Element, which identifies disadvantaged communities (DACs) and outlines specific actions the City will take to improve residents' quality of life. The Environmental Justice Element establishes six key goals: ensuring clean air and water, increasing food access, providing safe housing, fostering civic engagement, addressing inequities by empowering disadvantaged communities, and building neighborhood resilience.

DAC designation is based on various factors, including pollution levels, income, and access to food resources. Areas near Howe Avenue, west of College Town Road, and south of Folsom Boulevard are identified as disadvantaged communities under this framework.

Streets for People: Sacramento's Active Transportation Plan (Draft 2024 to 2025)

Streets for People: Sacramento's Active Transportation Plan (S4P), currently in draft form, seeks to transform how residents navigate the city by enhancing infrastructure for walking, biking, and other active modes of travel. Serving as a comprehensive guide for city staff, local agencies, public officials, residents, and developers, the S4P plan aims to create a balanced and interconnected transportation system that supports diverse travel modes while fostering active lifestyles. A central focus of the plan is to prioritize infrastructure improvements in historically underserved communities, ensuring equitable access to safe and sustainable transportation options.

The Draft S4P focuses on improving walking and bicycling infrastructure through two primary networks: a citywide active transportation network and the Neighborhood Connections network. While portions of Howe Avenue are identified for improvements in the Draft Streets for People Plan, it is not identified on the Neighborhood Connections network. However, several adjacent corridors to Howe Avenue are identified on the Neighborhood Connections network including University Avenue, Swarthmore Drive/University Park Drive, and Scripps Drive which include potential traffic calming and other improvement projects.

Description of Howe Avenue

This section provides a physical description of Howe Avenue and the surrounding community's socio-economic characteristics.

Socioeconomic Characteristics

The Sacramento Area Council of Governments (SACOG) defines Environmental Justice (EJ) areas at the census block group level, focusing on concentrations of low-income residents, high minority populations, persons with disabilities, low educational attainment, housing cost burdened households, or areas highlighted by CalEnviroScreen 3.0.

Based on SACOG's definition, areas adjacent to the study corridor are classified as EJ communities⁴. Notably, neighborhoods near the U.S. Route 50 overpass and Sacramento State University fall within these designations. These areas are also recognized as Senate Bill (SB) 535 Disadvantaged Communities in the City of Sacramento's 2040 General Plan. Howe Avenue, in particular, experiences high pollution burden scores, especially near U.S. Route 50 and Folsom Boulevard. The United States Environmental Protection Agency (EPA) Climate and Economic Justice Screening Tool (CEJST) identifies sections of Howe Avenue between U.S. Route 50 and Folsom Boulevard as exceeding thresholds for poverty and low high school educational attainment⁵⁶.

The socioeconomic characteristics of the Howe Avenue corridor reflect a diverse community. According to the American Community Survey (ACS) 5-Year Estimates, approximately 15,000 residents live in the four census tracts surrounding the project area⁷. The average median household income across these tracts is \$85,195, exceeding the citywide median of \$78,954. However, there is significant variation:

- Three tracts reported median incomes ranging from \$86,012 to \$122,871.
- One tract, encompassing communities near Sacramento State and the American River, reported a much lower median household income of \$35,3338.
- Poverty rates in these tracts vary widely, ranging from 3.9% to 42.7%, compared to the citywide average of 14.8%⁹.

While the median household income in the area exceeds the citywide median, there is notable variation. One census tract near Sacramento State reports a much lower median income (\$35,333), likely due to the high student population. Environmental justice communities and lower-income residents often depend on public transit and non-motorized travel. The corridor serves older adults, persons with disabilities, linguistically isolated households, and single-parent families, all of whom rely on a mix of transportation modes, including walking, biking, and transit.

⁴ SACOG. (n.d.). *Environmental justice areas*. SACOG Open Data Portal. Retrieved January 9, 2025, from https://www.sacog.org/data/environmental-justice-areas

⁵ City of Sacramento. (2024). 2040 General Plan: Map EJ-3: Census tracts with highest pollution burden score. Retrieved from https://www.cityofsacramento.org/community-development/planning/long-range/general-plan/2040-general-plan

⁶ Council on Environmental Quality. (2024). *Climate & Economic Justice Screening Tool* (Version 2.0). GeoPlatform. Retrieved January 9, 2025, from https://screeningtool.geoplatform.gov/en/#3/33.47/-97.5

⁷ U.S. Census Bureau. (2024). American Community Survey 5-Year Estimates Subject Tables (Table S0101). Retrieved from https://data.census.gov/table?tid=ACSST5Y2023.S0101

⁸ U.S. Census Bureau. (2024). American Community Survey 5-Year Estimates Subject Tables (Table S0901). Retrieved from https://data.census.gov/table?tid=ACSST5Y2023.S0901

⁹ U.S. Census Bureau. (2024). American Community Survey 5-Year Estimates Subject Tables (Table S1701). Retrieved from https://data.census.gov/table?tid=ACSST5Y2023.S1701 ACS 5-Year Estimates, Table S1701

Physical Characteristics

Howe Avenue is a north-south arterial corridor connecting the Arden-Arcade community and California State University Sacramento to the regional transportation network. It links major roadways, including Interstate 80 (I-80), U.S. Route 50, and California State Route 16. South of I-80 and Folsom Boulevard, Howe Avenue is a designated Surface Transportation Assistance Act (STAA) truck route. The corridor consists of four to six travel lanes and features a raised, landscaped center median for most of its length, except at the Howe Avenue Bridge, which is made up of separated roadway structures for each direction of travel.

The study corridor includes seven major signalized intersections at:

- · Fair Oaks Boulevard
- University Avenue
- · American River Drive
- Swarthmore Drive/University Park Drive
- College Town Drive/U.S. 50 westbound off-ramp
- The U.S. 50 eastbound off-ramp
- Folsom Boulevard

The right-of-way (ROW) varies from 90 to 115 feet, narrowing to approximately 30 to 35 feet on the Howe Avenue Bridge. Lane widths are approximately 11 feet through the length of the study corridor; and narrow to approximately 10 to 10.5 feet at the Howe Avenue Bridge. Per the City's standards, the minimum lane width for travel lanes is 11 feet unless the City Traffic Engineer deems appropriate otherwise¹⁰.

Traffic Speeds and Lane Configurations:

Traffic speeds and lane configurations vary along the corridor:

- From Fair Oaks Boulevard to American River Drive and College Town Drive to Folsom Boulevard, the speed limit is 40 mph, with three lanes in each direction.
- Between American River Drive and College Town Drive, the speed limit increases to 50 mph, maintaining three lanes per direction except on the Howe Avenue Bridge, which narrows to two lanes per direction.
- All signalized intersections and approaches have dedicated left turn pockets where there is a valid left turn, except for northbound Howe Avenue at College Town Drive.
- No on-street parking is allowed along Howe Avenue.

¹⁰ City of Sacramento, Section 15 - Street Design Standards

According to a speed survey provided by the City of Sacramento, 85th percentile speeds on Howe Avenue are as follows:

- 43.6 mph between Cadillac Drive and American River Drive (posted 40 mph speed limit).
- 52.4 mph from American River Drive to U.S. 50 (posted 40-50 mph speed limit).
- 41.5 mph from U.S. 50 to Folsom Boulevard (posted 40 mph speed limit).

Bicycle Infrastructure:

Howe Avenue has bike lanes south of University Avenue, each approximately five feet wide. These lanes connect to the broader bicycle network via the American River Parkway shared-use path and painted bike lanes on American River Drive, University Avenue, and La Riviera Drive.

While Howe Avenue is shown with Class II bicycle facilities (bike lanes) on the City of Sacramento Bike Map, field observations indicate that the approximately five-foot wide shoulder lacks the standard painted markings and signage that would distinguish it as a dedicated bicycle lane. There is a southbound facing sign on the northbound side of the road instructing people biking to dismount and walk their bicycle on the northern approach to the Howe Avenue Bridge (**Figure 1**).

Based on the Federal Highway Administration (FHWA) Bikeway Selection Guide, the existing bike lanes do not provide adequate protection for cyclists on this corridor. The guide recommends greater separation between vehicles and cyclists when roadways have speeds of 35 mph or higher and traffic volumes exceeding 6,000 vehicles per day. Given that Howe Avenue has a posted speed limit of 50 mph and carries up to 30,000 vehicles per day, the current bikeway does not align with FHWA's guidance for recommended bicycle infrastructure.

The City of Sacramento's bicycle facility selection guidance similarly recommends a separated bikeway for roadways with posted speeds exceeding 45 mph and average daily traffic over 20,000 vehicles per day. With Howe Avenue's posted speeds and observed traffic volumes ranging from 46,000 to 59,000, the existing bike lanes do not provide the level of separation from vehicle traffic recommended by either FHWA or City design standards.



Figure 1: Bike Facilities and Dismount Signage at Howe Avenue Bridge

Sidewalks:

Most of the study corridor has sidewalks, but gaps exist in the network. On the west side of Howe Avenue, missing sidewalk segments and their approximate lengths are:

- American River Drive to the Swarthmore Drive: 1,400 feet;
- Swarthmore Drive to the University Avenue overcrossing: 940 feet;
- University Avenue overcrossing to the Howe Avenue Bridge: 240 feet.

On the east side of Howe Avenue, a sidewalk gap extends from the La Riviera overcrossing to Folsom Boulevard, a distance of approximately 2,640 feet. No signage alerts people walking southbound on the east side of Howe Avenue that they must walk on the shoulder after crossing the bridge.

Where sidewalks are present, they are approximately five to six feet in width but narrow to approximately 4.5 feet near the University Avenue overcrossing and the Howe Avenue Bridge. In some locations, informal asphalt paths connect sidewalk gaps (**Figure 2**).



Figure 2: Informal Pathway between Sidewalk Gap on East Side of Howe Avenue at Howe Avenue Bridge

Marked Crosswalks:

All study intersections are equipped with pedestrian signals, push buttons, and marked crosswalks. Curb ramps are present at all crossing locations; however, detectable warning surfaces and landing areas are missing at the following intersections:

- American River Drive
- Swarthmore Drive
- College Town Drive
- · Folsom Boulevard

Crossings are not provided on the south legs at the American River Drive and Swarthmore Drive/University Park Drive intersections due to a lack of sidewalks on the west side of Howe Avenue.

At the College Town Drive/WB US 50 Off-ramp and EB US 50 Off-ramp intersections, crosswalks are only available on the west legs due to the lack of sidewalks on the east side of Howe Avenue.

At the US 50 interchange, the westbound US 50 on-ramp (**Figure 3**) includes painted crosswalks and curb ramps with detectable warning surfaces. However, no pedestrian signals or traffic control devices are in place to stop vehicles for those wishing to cross. As a result, those walking must rely on drivers yielding to them. Additionally, no warning signs or other measures alert drivers to potential people crossing. Any modifications to crosswalks at the US 50 on- or off-ramps would require coordination with Caltrans.



Figure 3: Striped Crosswalk Across Westbound US 50 On-Ramp

Transit Access:

The SacRT Power Inn Light Rail Station, connecting to the Gold Line, is located south of the study corridor on the east side of the street, just south of Folsom Boulevard, where Howe Avenue transitions to Power Inn Road (**Figure 5**). The Gold Line runs primarily east-west, connecting downtown Sacramento to the city of Folsom. Its route passes through multiple neighborhoods in Sacramento (downtown Sacramento, Richmond Grove, Newton Booth, Midtown, Alhambra Triangle, East Sacramento, Elmhurst, Tahoe Park, Tahoe Park East, Ramona Village, College Town, and College Glen), portions of unincorporated Sacramento County, Rancho Cordova, and Gold River.

Within the study area, SacRT Bus Route 26 operates along Howe Avenue with bus stops at Swarthmore Drive and American River Drive (see **Figure 4**). It connects Watt Avenue & Elverta Road in the north to the University/65th Street Light Rail Station in the south.

Service Schedule for Route 26:

- Weekdays: Service runs from approximately 6:00 a.m. to 11:00 p.m.
- Saturdays: Service runs from approximately 8:00 a.m. to 10:45 p.m.
- Sundays: Service runs from approximately 8:00 a.m. to 9:15 p.m.

The frequency of service varies throughout the day, with buses typically running every 30 minutes during peak hours and every 60 minutes after 7:00 p.m.

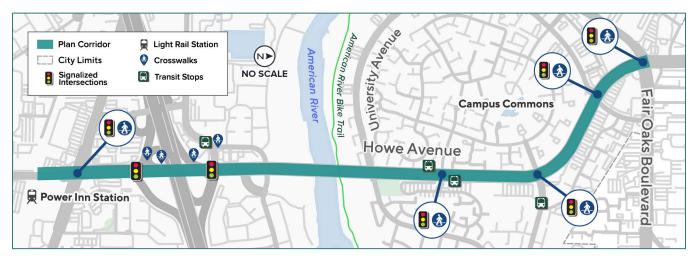


Figure 4: Howe Avenue Bus Stops, Form of Traffic Control and Crosswalks

Corridor Summary and Study Area Segments

Table 1 summarizes the existing conditions and key characteristics of each road segment within the corridor. For this study, the corridor is divided into northern, middle, and southern segments based on similar physical and operational characteristics, as shown in **Figure 5**.

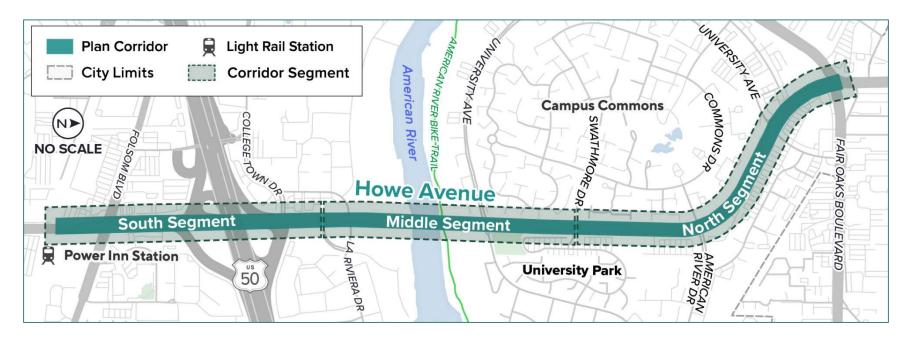


Figure 5. Howe Avenue Roadway Segments

Table 1. Summary of Existing Characteristics of Howe Avenue Segments

	North Segment	Middle Segment	South Segment	
Characteristic	(Figure 3)	(Figure 4)	(Figure 5)	
Boundaries	Fair Oaks Boulevard to Swarthmore Drive/University Park Drive	From Swarthmore Drive/University Park Drive to La Riviera Access Road	La Riviera Access Road to Power Inn Light Rail Station	
Length (Approx)	4,200 ft	3,175 ft	3,175 ft	
Number of Lanes (Per Direction)	Three	Two to Three	Three	
Lane Width	11 ft	10-12 ft	12 ft	
AADT ¹¹ 46,000 (At Fair Oaks Ave)		no data	59,000 (At WB US 50 ramps)	
Posted Speed	40 MPH - Fair Oaks to American River Drive			
Limit	50 MPH – American River Dr to Swarthmore Drive/University Park Drive	50 MPH	40 MPH	
Observed	43.6 – Cadillac Drive to American River Drive	52.4 – American River Drive to US	44.5. 110.50 ; 5.1. 5 ;	
Speed ¹²	52.4 - American River Drive to US 50	50	41.5 – US 50 to Folsom Boulevard	
Lighting	Street Lighting	Street and Pedestrian-Scale Lighting	Street and Pedestrian-Scale Lighting	

¹¹ 2017 traffic counts provided for North Segment and South Segment, https://data.cityofsacramento.org/datasets/SacCity::traffic-counts/about

¹² Based on recent speed survey's conducted by the City of Sacramento.

Characteristic	North Segment (Figure 3)	Middle Segment (Figure 4)	South Segment (Figure 5)		
Adjacent Land Uses	Standard Single-Family, Single-Family Alternative, General Commercial, Limited Commercial, Office Building, and Multi-Family	Single-Family Alternative, Standard Single Family, Multi-Family, and Office Building	Multi-Family, General Commercial, and Heavy Industrial		
Notable Locations	AIMS Urgent Care, Safeway, Starbucks, University Park, American River Commons, Rio Del Oro Sports Club	Rivercrest Apartments, College Garden Apartments, University River Village, Food Mart, Laguna Creek Sports Club	Comfort Inn & Suites Sacramento, Sacramento County Small Claims, Carol Miller Justice Center, Chevron		
Major Cross- Streets Within Road Segment	Fair Oaks Boulevard, University Avenue, American River Drive, Swarthmore Drive/University Park Drive	None	College Town Drive, Folsom Boulevard		
Median Types	Raised median	Raised median	Raised median		
Existing Bicycle Facilities	Bike lane at the northbound (NB) approaches of Howe Avenue/ American River Drive intersection and Howe Avenue/Swarthmore Drive/University Park Drive intersection	Bike lanes on northbound (NB) and southbound (SB) lanes along Howe Avenue Bridge from University Avenue to American River	Bike lanes northbound (NB) and southbound (SB) lanes from U.S. Route 50 overpass to U.S. Route 50 on-ramp		
		No sidewalk along SB lane from American River Drive to Howe Avenue bridge/University Avenue overpass	No sidewalk along NB segment from U.S. Route 50 overpass to		
Sidewalks	Sidewalks present	No sidewalk for NB and SB segments adjacent to University Park Dog Park	Folsom Boulevard Existing sidewalks adjacent to SB lanes lack buffers from travel lanes		
		Existing sidewalks lack buffers from travel lanes			

Characteristic	North Segment	Middle Segment	South Segment
	(Figure 3)	(Figure 4)	(Figure 5)
Bus Service Routes and Shelter Locations	No bus route serves the North Segment. No bus shelters are present.	The Middle Segment is served by Route 26. Bus shelters exist at the following locations: • Howe Avenue & Swarthmore Drive (NB) • Howe Avenue & Swarthmore Drive (SB)	No bus route serves the South Segment. No bus shelters are present.

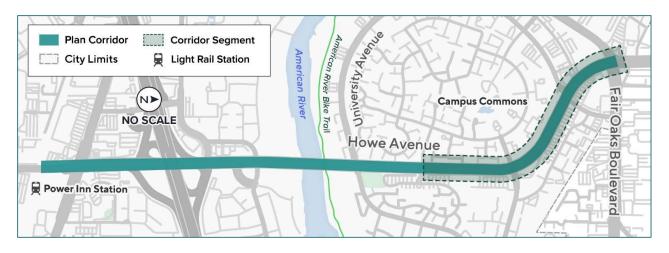


Figure 6. Howe Avenue North Segment Location Map



Figure 7. Site Photo of North Segment Roadway

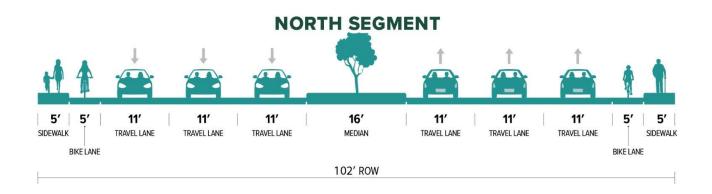


Figure 8. North Segment: Howe Avenue (Fair Oaks Boulevard to Swarthmore Drive/University Park Drive)

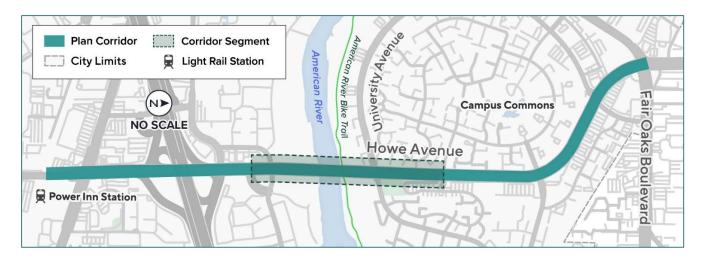


Figure 9. Howe Avenue Middle Segment Location



Figure 10. Site Photo of Middle Segment Operations

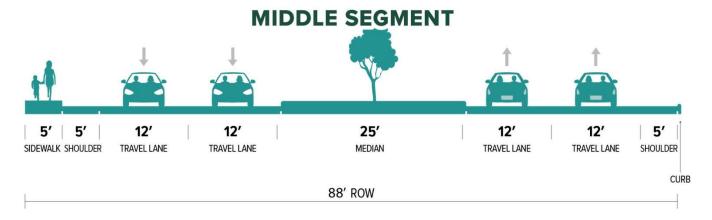


Figure 11. Middle Segment: Howe Avenue (Swarthmore Drive to La Riviera Access Road)

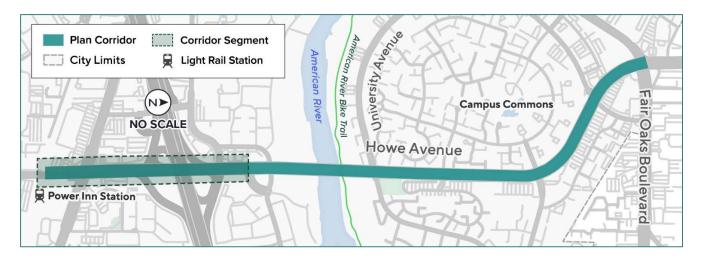


Figure 12. Howe Avenue South Segment Location

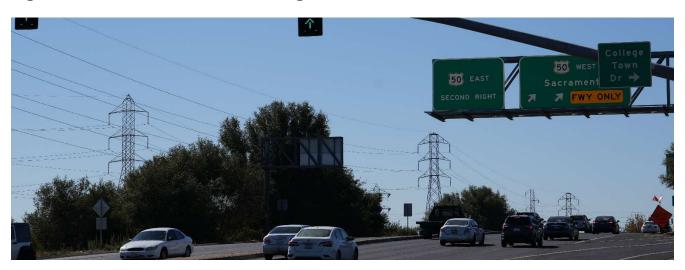


Figure 13. Site Photo of South Segment Operations

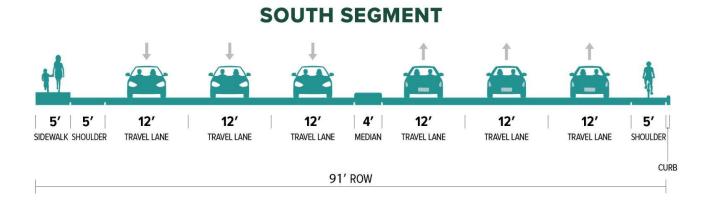


Figure 14. South Segment: Howe Avenue - La Riviera Access Road to Power Inn Station

Existing Conditions Multimodal Analysis

This section provides an analysis of existing conditions along Howe Avenue, focusing on multimodal transportation, traffic operations, safety, and congestion metrics. It presents data on traffic volumes, crash factors, level of traffic stress, transit ridership, and travel time reliability for the study corridor.

Traffic Volumes at Study Intersections

As part of the traffic operations analysis, three out of seven intersections on the corridor were evaluated based on where the City has data collection hardware installed:

- Howe Avenue at Fair Oaks Boulevard
- Howe Avenue at University Avenue
- Howe Avenue at Folsom Boulevard

Volumes were collected during weekday morning (7:00 to 9:00 a.m.) and evening (4:00 to 6:00 p.m.) peak hours from October 14 to October 18, 2024. Peak hours were observed at 7:45 a.m. and 4:30 p.m. for the Fair Oaks Boulevard intersection, and at 8:00 a.m. and 4:15 p.m. for the University Avenue and Folsom Boulevard intersections. Existing peak hour traffic volumes and form of traffic control are illustrated in **Figure 15**. Traffic volumes are in **Appendix A**.

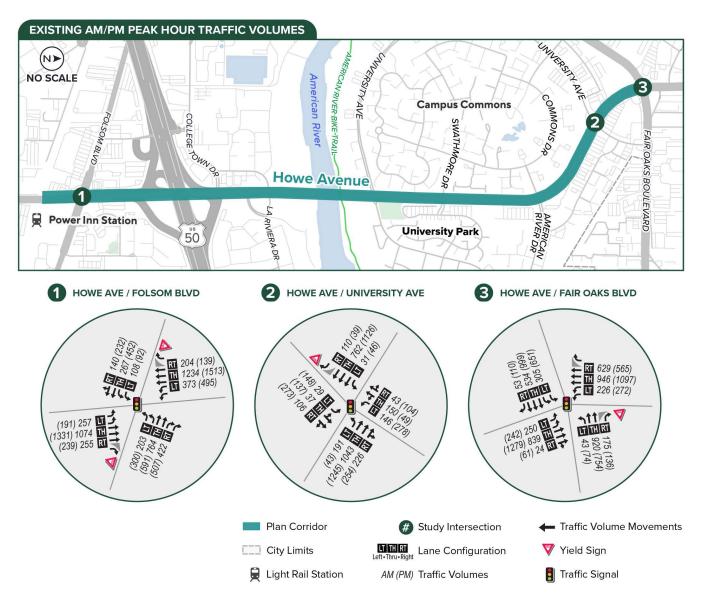


Figure 15: Existing Peak Hour Traffic Volumes and Form of Traffic Control

Transit Data Summary

Weekday passenger boarding data were provided by SacRT for the four bus stops along or near Howe Avenue and at the Power Inn LRT Station. The data covers the period from January to August 2024. SacRT Bus Route 26 operates along Howe Avenue with 30-minute headways, shifting to 60-minute headways after 7 p.m.

Overall Ridership Trends

Figure 16 shows the average daily transit ridership trends across all stops by month from January through August. Ridership declined from 438 in January to 251 in February, then

stabilized between March and June, fluctuating between 275 and 291 riders. In the later months, ridership increased, reaching 312 in July and 340 in August.

Ridership by Stop

Figure 17 shows average weekday ridership by individual stops along Howe Avenue:

- Power Inn Station (WB): 160 passengers (highest ridership).
- Power Inn Station (EB): 119 passengers.
- College Towne Dr & La Riviera: 20 passengers.
- American River Dr & La Riviera: 6 passengers.
- Howe Ave & Swarthmore Dr/Northrop Dr: 2 passengers.
- Howe Ave & Swarthmore Dr: 1 passenger.

The data indicates that ridership is heavily concentrated at the Power Inn Station stops, a key transfer point in the transit network, which together account for the majority of weekday passenger activity. Transit data are provided in **Appendix B**.



Figure 16. Average Daily Transit Ridership for All Stops on Howe Avenue By Month (Source: SacRT Stop Ridership Data)

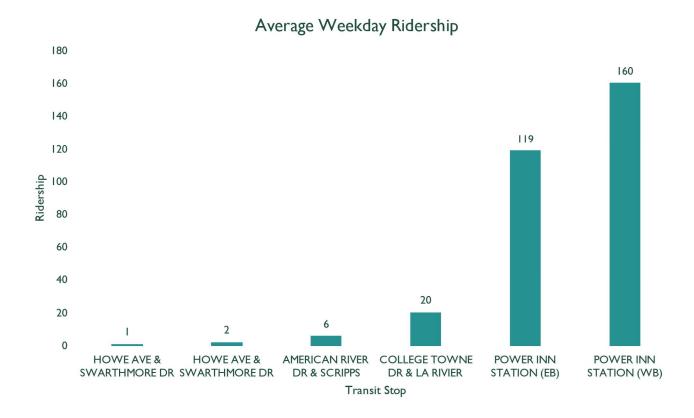


Figure 17. Average Weekday Ridership by Stop on Howe Avenue (Source: SacRT Stop Ridership Data)

Level of Traffic Stress/All Ages and Abilities Walking and Biking Analysis

The following sections describe the methodology used to evaluate conditions along the corridor for non-motorized road users and the results of this analysis.

Bicycle LTS

Bicycle LTS analysis was calculated using the methodologies described in the *Mineta Transportation Institutes Report 11-19 Low Stress Bicycling and Network Connectivity* (2012). Bicycle LTS scores measure the stress level of a roadway segment based on criteria such as:

- · Street width (number of lanes);
- · Speed limit or prevailing speed;
- The presence and width of bike lanes;
- · Signals; and
- The presence and width of parking lanes (if applicable).

Bicycle LTS scores range from one to four, with one representing the most comfortable conditions for riders and four representing the least comfortable. An LTS score of one indicates that the roadway stress level is tolerable for most riders, including children and less experienced people bicycling. Conversely, an LTS score of four signifies conditions better suited to highly skilled people bicycling, as shown in **Figure 18**. The criteria used to determine the Bicycle LTS along the corridor are summarized in **Table 2**.

Applying this methodology, Howe Avenue receives an **LTS score of four** throughout the study limits, primarily due to street width and the existing speed limits (**Figure 19**). This assessment is consistent with the existing roadway configuration, which provides a Class II bike facility rather than protected bicycle facilities.

Existing conditions on the corridor, including posted speed limits up to 50 mph and traffic volumes up to 59,000 vehicles per day, create a high-stress environment for people biking on Howe Avenue. The lack of dedicated, protected infrastructure is consistent with the high LTS score.

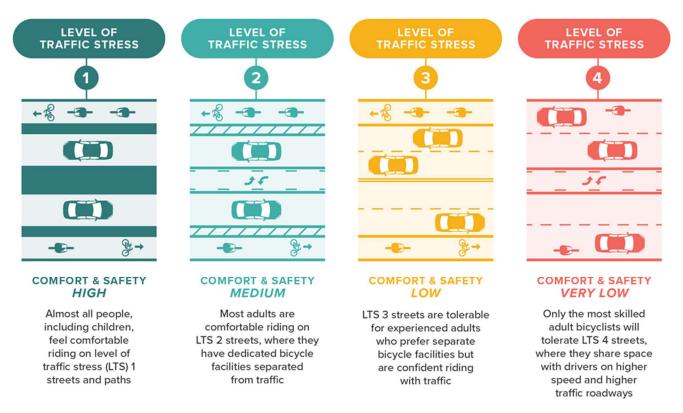


Figure 18. Bike Level of Traffic Stress Scores

Table 2. Bicycle Level of Traffic Stress Criteria

SEGMENT	POSTED (OBSERVED) SPEED (MPH)	BIKE LANE	PARKING LANE	# OF TRAVEL LANES	LTS SCORE
NORTH SEGMENT FAIR OAKS BOULEVARD TO SWARTHMORE DRIVE/UNIVERSITY PARK DRIVE	40 (43.6): Fair Oaks Blvd to American River Dr 50 (52.4): American River Dr to Swarthmore Dr/University Park Dr	Yes: University Ave to American River Dr (NB) No: American River Dr to Swarthmore Dr	No	3	4
MIDDLE SEGMENT SWARTHMORE DRIVE/UNIVERSITY PARK DRIVE TO LA RIVIERA ACCESS ROAD	50 (52.4)	No	No	3	4
SOUTH SEGMENT LA RIVIERA ACCESS ROAD TO POWER INN STATION	40 (41.5)	No	No	3	4

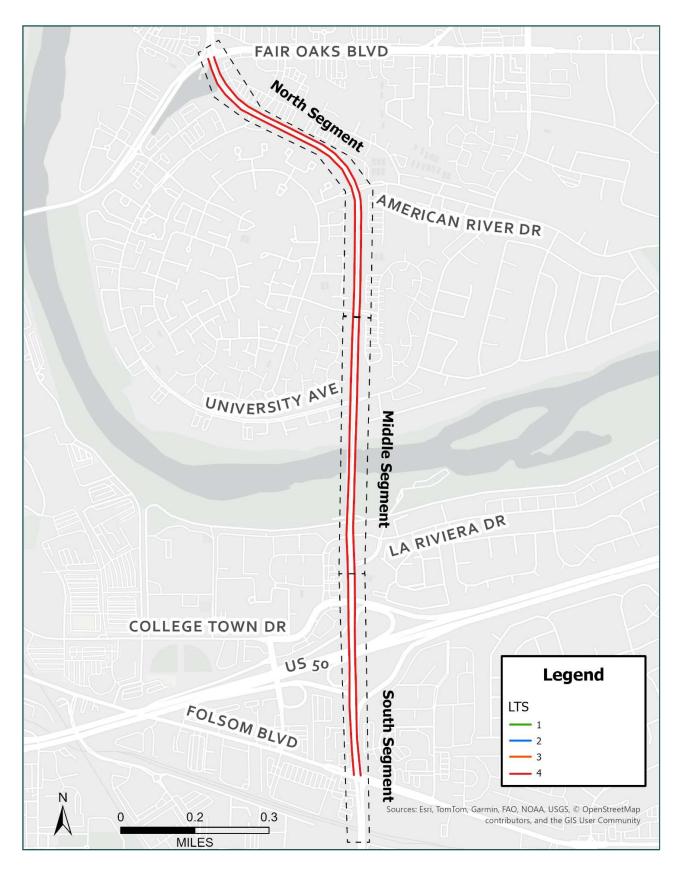


Figure 19. Bicycle Segment LTS

Walking LTS

The walking level of traffic stress (LTS) analysis was conducted using the *Oregon Department of Transportation (ODOT) Level of Traffic Stress Analysis Procedures* (2020). Similar to the bicycle LTS methodology, walking LTS also uses several criteria to develop a LTS score of one to four based on factors such as the presence of sidewalks, crosswalks, median refuges, traffic volume, and posted speed limits as shown in **Figure 20**.

Similar to bicycling LTS results, Howe Avenue receives an LTS score of 4 for all segments. uncomfortable and stressful for most people walking or rolling as illustrated in **Figure 21**.

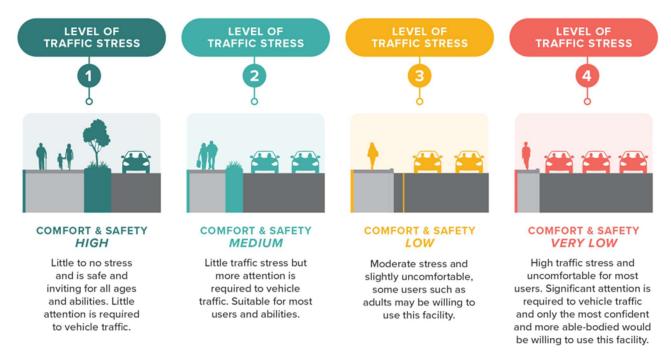


Figure 20. Walking Level of Traffic Stress

Table 3. Walking Level of Traffic Stress Criteria

SEGMENT	STREE T WIDTH	BUFFE R TYPE	SIDEWALK WIDTH	SIDEWAL K CONDITI ON	SPEED LIMIT	LTS SCOR E
NORTH SEGMENT: FAIR OAKS BOULEVARD TO SWARTHMORE DRIVE/UNIVERS ITY PARK DRIVE	3	None	5 feet No sidewalk is present along southbound travel lanes from American River Drive to Swarthmore Drive/Univers ity Park Drive.	Good, no obvious cracks in concrete or uneven pavement.	40 mph	4
MIDDLE SEGMENT: SWARTHMORE DRIVE/UNIVERS ITY PARK DRIVE TO LA RIVIERA DRIVE OVERPASS	2	None	5 feet No sidewalks exist along the southbound travel lanes from Swarthmore Drive to University Avenue overpass, University overpass to	Fair	50 mph	4

¹³ Lanes per direction

¹⁴ Posted speed limit or prevailing speed

SEGMENT	STREE T WIDTH	BUFFE R TYPE	SIDEWALK WIDTH	SIDEWAL K CONDITI ON	SPEED LIMIT	LTS SCOR E
			Howe Avenue bridge.			
			No sidewalks exist along the northbound travel lanes from Howe Avenue bridge to La Riviera Drive overpass.			
SOUTH SEGMENT: LA RIVIERA DRIVE OVERPASS TO POWER INN LRT STATION	3	None	5 feet	Good, no obvious cracks in concrete or uneven pavement.	40 mph	4

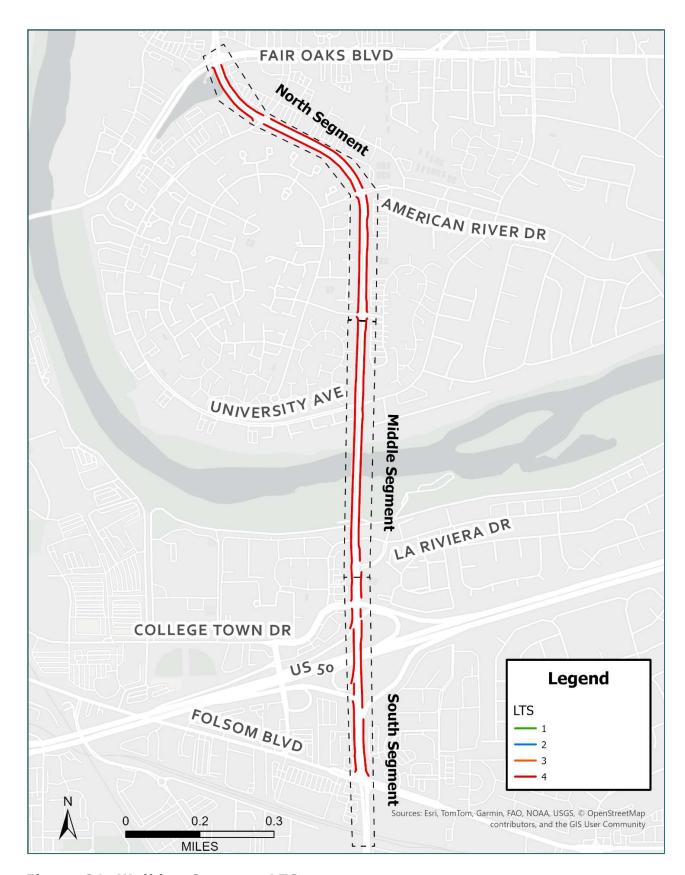


Figure 21. Walking Segment LTS

Crash Analysis Summary

DKS collected injury crash data obtained from Transportation Injury Mapping System (TIMS) and Statewide Integrated Traffic Records System (SWITRS) within a six-year period (2018 to 2023) to conduct a safety analysis within the corridor. The data consisted of injury crashes on Howe Avenue from Fair Oaks Boulevard to Folsom Boulevard. **Table 4** presents the annual crash counts and severity levels. **Figure 22** provides a visual representation of all crashes within the corridor, while **Figure 23** focuses specifically on crashes where a person is killed or severely injured (KSI).

During this period, the corridor experienced 201 crashes, with 18 crashes resulting in fatalities or serious injuries. The primary contributing factors identified were unsafe speed, issues related to traffic signals, and improper turning maneuvers.

Table 5 summarizes crash data by segment, revealing that the North Segment experienced the highest number of total crashes (77, 38%) and KSI crashes (nine, 50%). The South Segment followed with 70 crashes (35%) and six KSI crashes (33%). The Middle Segment had the fewest crashes, with 54 crashes (27%) and three KSI crashes (17%). Notably, no crashes involving people walking or biking occurred in the Middle Segment.

Across all segments, bicycle-involved crashes totaled two, with one crash each in the North and South Segments. There were three crashes involving people walking, including two in the North Segment and one in the South Segment. The two crashes involving someone biking and one crash involving someone walking occurred at major intersections - American River Drive, Folsom Boulevard, and College Town Drive. Two of the crashes were a result of failure to yield right-of-way and one by an unsafe turn. One bicycle crash resulted in serious injuries, while the remaining collisions involving someone walking or biking resulted in minor injuries. One of the crashes involving someone walking involved a hit-and-run driver who struck two people. All crashes happened during busier evening hours between 6:30 to 9:00 p.m.

Table 4: Crashes by Severity

SEVERITY	2018	2019	2020	2021	2022	2023	TOTAL
FATAL INJURY	1	1	0	0	0	0	2
SEVERE INJURY	3	2	3	4	2	2	16
MINOR INJURY	9	1	6	14	6	16	52
POSSIBLE INJURY	20	22	14	25	23	27	131
TOTAL	33	26	23	43	31	45	201

Source: Transportation Injury Mapping System (TIMS), Safe Transportation Research and Education Center, University of California, Berkeley.

Table 5: Crashes by Segment

CRASH SEGMENT	CRASHES	KSI CRASHES	CRASHES INVOLVING PEOPLE BIKING	CRASHES INVOLVING PEOPLE WALKING
NORTH SEGMENT	77	9	1	2
MIDDLE SEGMENT	54	3	0	0
SOUTH SEGMENT	70	6	1	1
TOTAL	201	18	2	3

Source: Transportation Injury Mapping System (TIMS), Safe Transportation Research and Education Center, University of California, Berkeley.

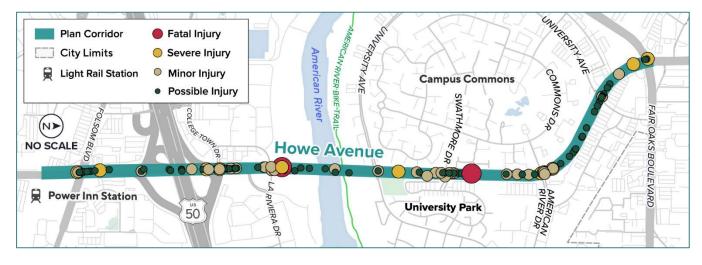


Figure 22: Howe Avenue Crash Map (ALL CRASHES) Source: Transportation Injury Mapping System (TIMS)

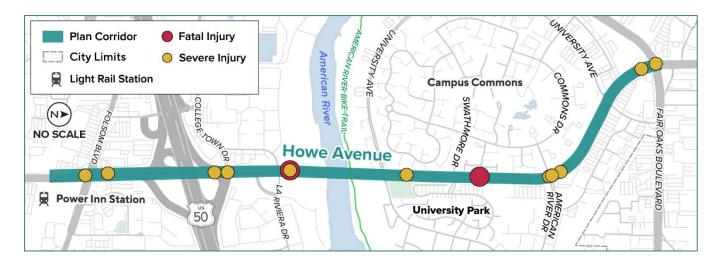


Figure 23: Howe Avenue Crash Map (KSI Crashes) Source: Transportation Injury Mapping System (TIMS)

Crash Type Summary

Figure 24 illustrates the distribution of crashes by type¹⁵ during the analysis period.

Among the 201 total crashes, rear-end collisions were the most common, accounting for 101 crashes (50%). Broadside crashes followed as the second most frequent type, with 46 crashes (22%). Both crash types are prevalent at intersections, where 151 crashes (75% of the total) occurred.

Rear-end crashes were particularly concentrated near the intersection of Howe Avenue and American River Drive. Additionally, several "hit object" crashes that resulted in fatalities or serious injuries (KSI crashes) occurred in the same area.

Of the 101 rear-end crashes, 51% involved vehicles traveling northbound on Howe Avenue, approaching major intersections¹⁶. The remaining rear-end crashes were divided between southbound vehicles and those entering from side streets.

¹⁵ Note: One of the crashes identified as the type "Vehicle/Pedestrian" was not marked as involving a pedestrian, resulting in the disagreement between Table 4 and Figure 17. Lacking a way to determine which is correct, the data is presented as provided.

¹⁶ Analysis of 89 rear-end crashes along Howe Avenue shows that 45 (51%) occurred in the northbound direction, 35 (39%) in the southbound direction, and 9 (10%) were eastbound on intersecting streets.

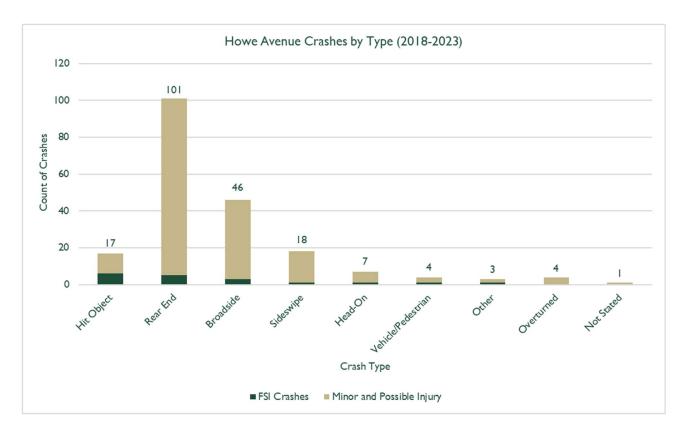


Figure 24: Howe Avenue Crashes by Type (Source: Transportation Injury Mapping System (TIMS))

Primary Crash Factor Summary

Figure 25 categorizes crashes by primary crash factor (PCF) based on reporting officer assessments. Among the 201 crashes analyzed, 104 (52%) were attributed to unsafe speeds¹⁷, making it the leading cause of crashes on the corridor. Violations related to traffic signals and signs¹⁸ were the next most frequent PCF, contributing to 29 crashes (14%), followed by improper turning, which accounted for 28 crashes (14%).

Of the 18 KSI crashes, seven (39%) involved unsafe speeds, while four (22%) were related to driving under the influence. None of the DUI-related crashes involved people walking or biking but one crash resulted in a non-KSI crash involving a person on a motorcycle.

¹⁷ In California Highway Patrol (CHP) crash reports, "unsafe speed" typically means driving at a speed that was dangerous for the prevailing conditions, even if it was at or below the posted speed limit.

¹⁸ In CHP crash reports, "traffic signals and signs" as a crash cause typically indicates that a violation or disregard of traffic control devices contributed to the collision.

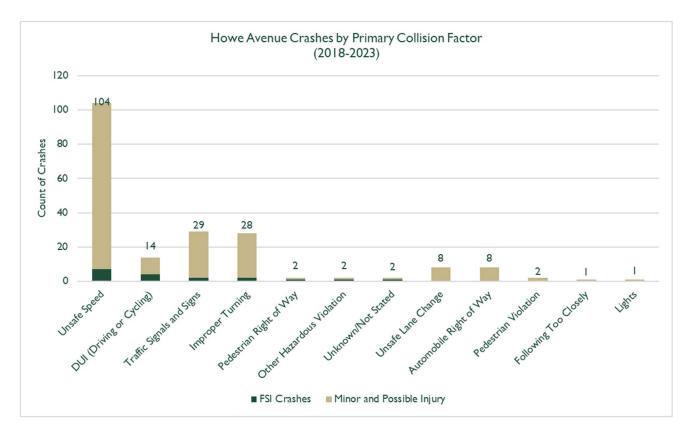


Figure 25: Howe Avenue Crashes by Primary Crash Factor Howe Avenue Crashes by Type (Source: Transportation Injury Mapping System (TIMS)

Crash Trends by Location

The most frequently occurring primary collision factors and crash types reported for crashes along the study corridor, along with the associated locations, are provided in **Figure 26**.

Rear-end collisions were the most common crash type during the study period, accounting for over 50% of all reported incidents along the Howe Avenue corridor. Broadside collisions ranked second in frequency. Signal and sign violations were among the most frequently cited contributing factors, particularly at intersections such as Howe Avenue at University Avenue, American River Drive, and Folsom Boulevard. The locations with the highest collision frequencies and their crash characteristics are summarized below:

 Howe Avenue & American River Drive: This intersection experienced the highest number of crashes from 2018 to 2023 with 37 crashes. Broadside collisions were the most frequent, with traffic signal and sign violations identified as the leading primary collision factor.

- Howe Avenue & College Town Drive: This location recorded the second-highest number of crashes (29), primarily broadside and rear-end collisions associated with unsafe speed.
- Howe Avenue & Folsom Boulevard: A total of 22 crashes were reported, primarily rear-end and broadside collisions related to unsafe speed and improper turning, respectively.
- Howe Avenue and Swarthmore Drive: 17 crashes reported at this intersection, also primarily rear-end collisions related to unsafe speed.

Although unsafe speed was the most frequently identified primary collision factor, these crashes occurred throughout the corridor rather than being concentrated on specific segments. Crash data from 2018 to 2023 indicates that collisions of various types and contributing factors were generally dispersed along the corridor¹⁹.

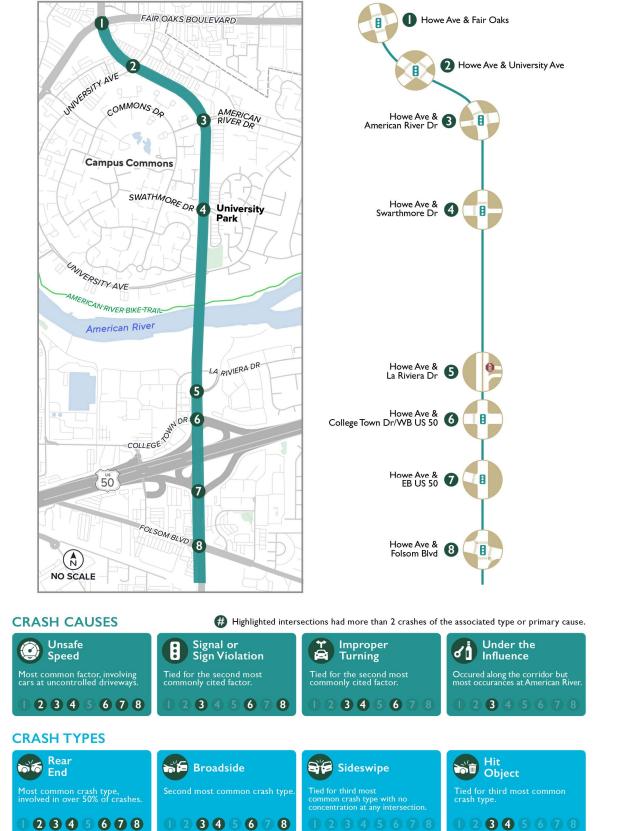


Figure 26: Crash Trends by Location

Traffic Operations Analysis

The following sections describe the methodology used to analyze and evaluate the traffic conditions at the study intersections and the results of this analysis.

Analysis Methodology

The study intersections were analyzed using Synchro 12, a traffic analysis software. A model of existing conditions was developed using the existing roadway geometry, traffic signal timing plans, and intersection turn movement volumes for the weekday morning and evening peak periods. In accordance with city guidelines, the peak hour factor (PHF) was set to 1.0.

Intersection geometry was determined through aerial imagery and field assessments. The most recent signal timing information was provided by the City of Sacramento. Signal Timing Worksheets are provided in **Appendix C**.

Key performance metrics for this analysis include average vehicle delay, intersection Level of Service (LOS)²⁰, and 95th percentile queue.

The delay and LOS analysis follows the methodology outlined in the Highway Capacity Manual (HCM) methodology published by the Transportation Research Board (TRB). This methodology assigns LOS grades (A to F) based on average vehicle control delay, where LOS A represents free-flow conditions and LOS F indicates severe congestion. **Table 6** documents the LOS criteria for signalized intersections.

The 95th percentile queueing reported by Synchro refers to the queue length (in vehicles) that has only a 5% chance of being exceeded during the analysis period. Most drivers will typically experience shorter queues than these estimates.

Queue lengths are analyzed to assess potential safety impacts, including blocked side street or driveway access (a moderate concern) and queue spill-back into upstream intersections (a significant concern). Queue overflows are calculated as the number of vehicles exceeding available storage, assuming 25 feet per vehicle and rounding up.

²⁰ A Level of Service (LOS) analysis refers to the quantifiable assessment of traffic under various scenarios.

Table 6: Level of Service Criteria Definitions

Level of Service	Description	signalized Intersection (Delay in Seconds)
Α	Operations with very low delay occurring with favorable progression and/or short cycle lengths.	≤10.0
В	Operations with very low delay occurring with good progression and/or short cycle lengths.	>10.0 to 20.0
С	Operations with very average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	>20.0 to 35.0
D	Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, and high volume-to-capacity (V/C) ratios. Many vehicles stop and individual cycle failures are noticeable.	>35.0 to 55.0
E	Operations with high delay values indicating poor progression, long cycle lengths, and V/C ratios. Individual cycle failures are frequent occurrences.	>55.0 to 80.0
F	Operations with delays unacceptable to most drivers occurring due to over-saturation, poor progression, or very long cycle lengths.	>80.0

Source: Highway Capacity Manual, 7th Edition

Analysis Results

Existing Vehicular Level of Service

The three study intersections—Fair Oaks Boulevard, University Avenue, and Folsom Boulevard—were analyzed for average control delay and Level of Service (LOS) during the a.m. and p.m. peak hours based on available traffic volume data. The observed delays ranged from 29 to 45 seconds per vehicle, with all intersections operating at LOS D or better. LOS D represents the lowest level of service observed, while the others performed at LOS C or higher.

Table 7 summarizes the existing peak-hour intersection performance, including control delay and LOS. Supporting Synchro reports—covering lane configurations, traffic volumes, signal timings, queue lengths, and delay/LOS analyses—are provided in **Appendix D**.

Table 7: Existing Conditions Operational Analysis Results

	A.M. PEAK HOUR		P.M. PEAK HOUR	
INTERSECTION	DELAY (SECONDS)	LOS	DELAY (SECONDS)	LOS
1. HOWE AVENUE / FAIR OAKS BOULEVARD*	36.2	D	44.4	D
2. HOWE AVENUE / UNIVERSITY AVENUE	36.2	D	35.6	D
3. HOWE AVENUE / FOLSOM BOULEVARD	29.6	С	36.7	D

^{*}Delay and LOS calculated using HCM 2000 methodology for this intersection, because of complex signal phasing not included in the HCM 7th Edition methodology.

Source: DKS Associates, December 2024.

95th Percentile Queueing

Table 8 provides an overview of the 95th percentile queueing results at all study intersections compared to available storage lengths. Deficiencies are summarized as follows:

- **Howe Avenue and Fair Oaks Boulevard:** The southbound right-turn queue exceeds available storage length (270 ft) during both periods.
- **Howe Avenue and University Avenue:** Queues for several movements exceed available storage lengths during both peak hours:
 - **A.M. Peak:** The northbound left turn queue exceeds the available storage (230 ft)
 - P.M. Peak: The southbound left turn queue does not exceed available storage length, however, analysis indicates that southbound demand is constrained by the upstream signal (at Fair Oaks Boulevard). If future changes to signal timing allowed more traffic through Fair Oaks, queues at University Avenue would be longer. Eastbound and westbound left-turn movements exceed available storage lengths in the p.m. peak, with the eastbound queue at 175 feet (exceeding 90 ft available storage) and the westbound queue at 190 feet (exceeding the 140 ft available storage).
- Howe Avenue/Power Inn Road and Folsom Boulevard: The northbound left queue in the a.m. peak exceeds available storage length (155 ft).

Table 8: 95TH Percentile Queuing Results at Study Intersections

			95TH PCTLE QUEUE (FT)		
INTERSECTION	TURNING MOVEMENT	STORAGE (FT)	A.M. PEAK HOUR	P.M. PEAK HOUR	
	NBL	260	150	155	
	SBL	205	125	160	
1. HOWE AVENUE / FAIR OAKS BOULEVARD	EBL	530	165	325	
	WBL	300	70	110	
	SBR	270	525	280	
	NBL	230	280(#)	75	
2. HOWE AVENUE / UNIVERSITY AVENUE	SBL	100	45(m)	65(m)	
	EBL	90	45	175	
	WBL	140	135	190	
	NBL	155	165	135	
3. HOWE AVENUE /	SBL	720	215	300	
FOLSOM BOULEVARD	EBL	230	80	75	
apol D represents OFth persentile queueing plant	WBL	225	135	200	

^a**BOLD** represents 95th percentile queueing above the available storage length.

Values rounded up to the nearest multiple of five.

Source: DKS Associates, December 2024.

^{(#) 95&}lt;sup>th</sup> percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

⁽m) Volume for 95^{th} percentile queue is metered by upstream signal.

Travel Time Reliability and Congestion

Traffic operations along a corridor are typically evaluated using two key metrics: **congestion** and **travel time reliability**

Congestion refers to significantly slower travel times during peak periods compared to free-flow or ideal travel conditions. **Travel time reliability** measures the consistency of travel times, reflecting how predictable a trip's duration is when taken at the same time each day.

Common factors that contribute to unreliable travel times include:

- Normal fluctuations in travel demand
- Physical bottlenecks
- Special events
- Traffic crashes
- · Inclement weather
- Traffic control devices
- Work or construction activities

Measuring Congestion and Travel Time Reliability

Congestion is measured using the **Travel Time Index (TTI)**, which is calculated as the ratio of a corridor's travel time at a specific time of day to its free-flow travel time.

Travel time reliability is quantified using the **Buffer Time Index (BTI)**, which represents the additional time a traveler must budget to ensure on-time arrival. It is determined by the difference between the average travel time and the 95th percentile travel time, normalized to free-flow conditions.

The relationship between the Travel Time Index (TTI), the 95th Percentile Travel Time Index, and the Buffer Time Index (BTI) is illustrated in **Figure 27**.

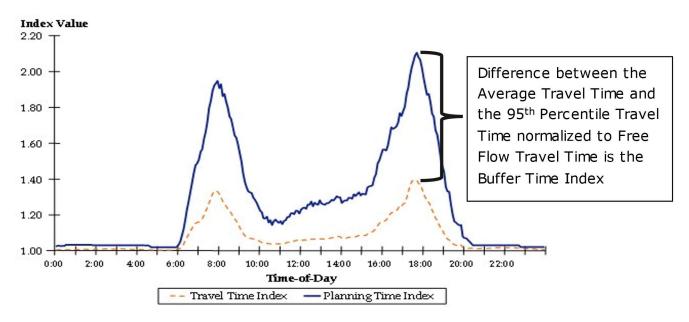


Figure 27. Relationship between Average Travel Time and 95th Percentile Travel Time²¹

City of Sacramento's Policies on Congestion

According to the City of Sacramento General Plan, some levels of corridor congestion are considered acceptable. Instead of prioritizing congestion reduction, transportation improvements aim to enhance mobility for all users and ensure a reliable travel experience. This means that while peak-hour travel delays may persist, travelers can plan their trips with greater confidence in arrival times.

Data Collection and Analysis

To evaluate travel time reliability and congestion along Howe Avenue, average speed data were obtained from the Federal Highway Administration's (FHWA) National Performance Management Research Data Set (NPMRDS). In this data set, congestion is defined as peak-hour speeds that are 60% or less of free-flow speeds.

For consistency, data was filtered to reflect annual average weekday conditions, focusing on typical a.m. and p.m. peak periods (Tuesday through Thursday). Analyses were conducted separately for passenger vehicles and heavy-duty trucks, as well as for both combined.

The most congested continuous 60-minute intervals were identified as the peak periods for each vehicle type. Free-flow speed (FFS) was determined by analyzing the highest recorded vehicle speeds during off-peak hours (12:00 a.m. to 3:00 a.m.). Congestion

²¹ Source: Traffic Congestion and Reliability: Linking Solutions to Problems, FHWA, 2004

and reliability thresholds, as defined in the *Highway Capacity Manual, 7th Edition*, are summarized in **Table 9**.

Travel time reliability and congestion metrics were analyzed for passenger vehicles, trucks, and combined traffic during the a.m. peak hour (8:00 to 9:00 a.m.) and p.m. peak hour (4:00 to 5:00 p.m.). Figure 28 through Figure 33 illustrate that, despite persistent congestion, the corridor demonstrates minimal variability in travel times. This suggests that while congestion levels are consistently high, travel time reliability remains stable across all vehicle types and peak periods.

Table 9. Congestion and Reliability Performance Measures

	RELIABLE	MODERATELY RELIABLE	UNRELIABLE
BUFFER TIME INDEX	BTI < 1.25	BTI 1.25-< 1.5	BTI >= 1.5
UNCONGESTED >= 60% OF FREE FLOW SPEED	Predictable and efficient	Not always predictable, usually efficient	Unpredictable, not often congested
CONGESTED <60% OF FREE FLOW SPEED	Predictable and inefficient	Not always predictable, usually inefficient	Unpredictable, not often congestion

Source: Highway Capacity Manual, 7th Edition.

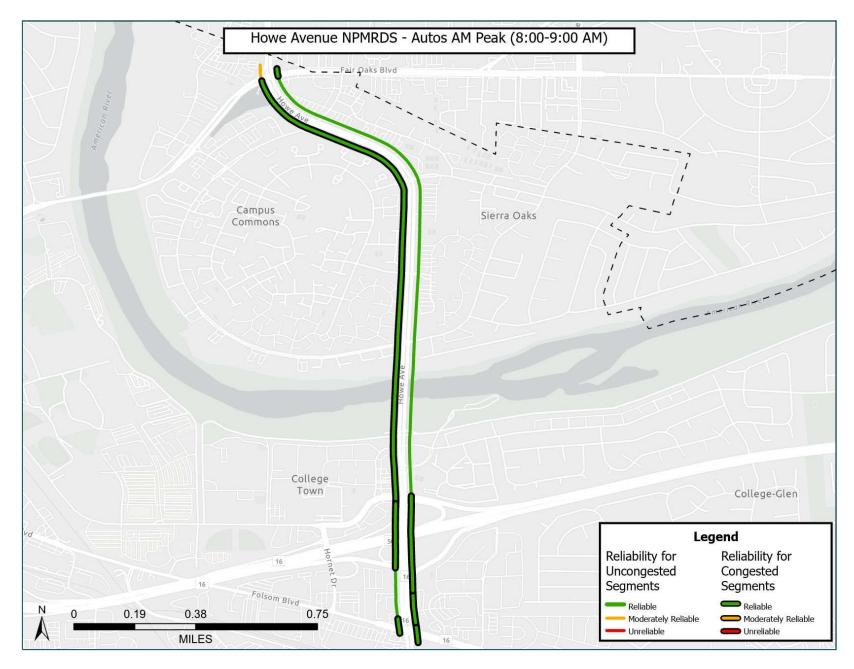


Figure 28. Autos A.M. Peak Hour Travel Time and Congestion

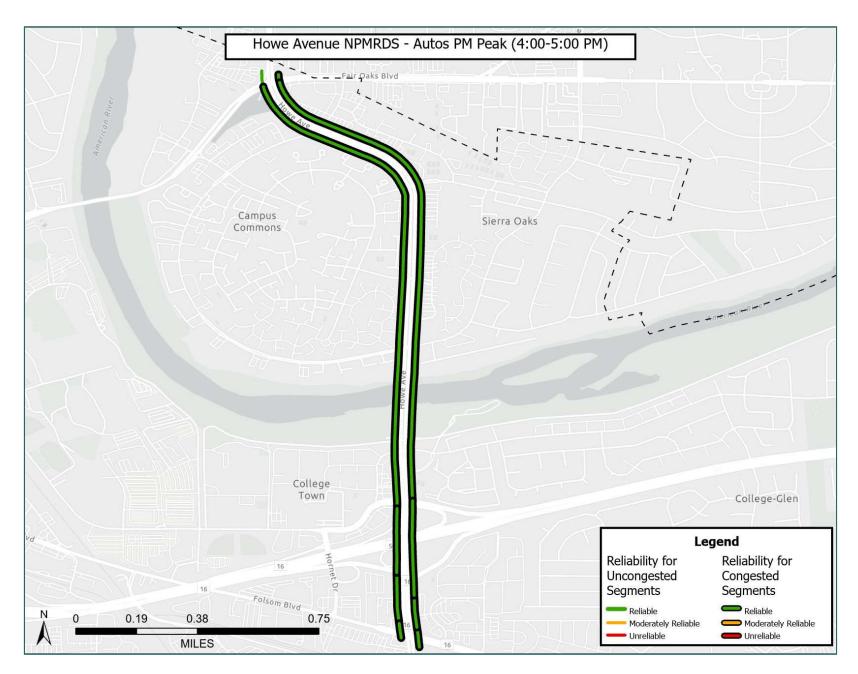


Figure 29. Autos P.M. Peak Hour Reliability and Congestion

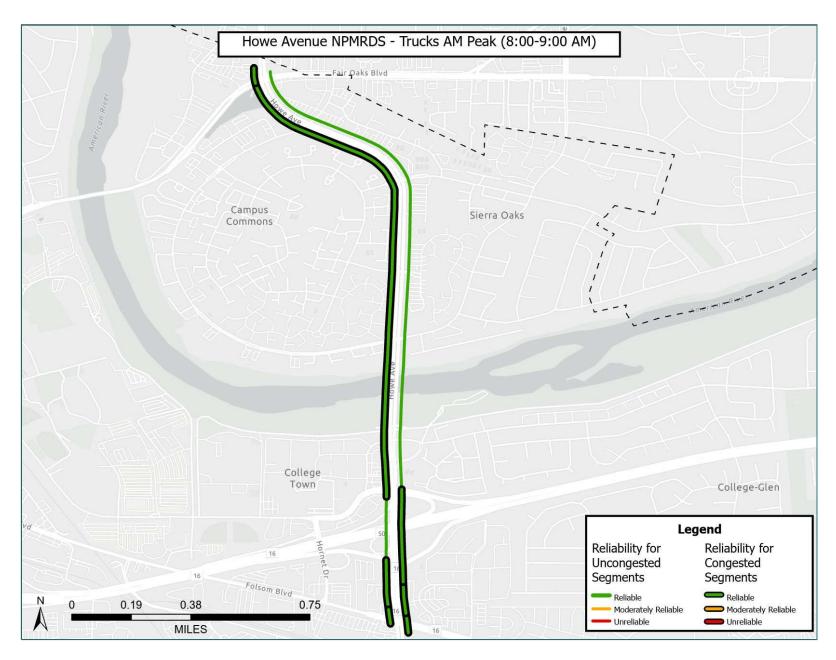


Figure 30. Trucks A.M. Peak Hour Reliability and Congestion

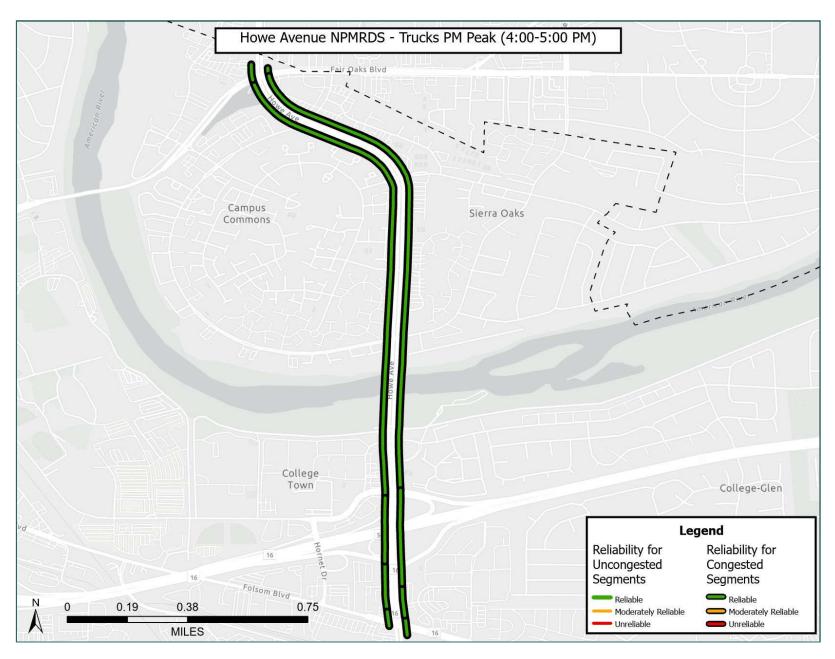


Figure 31. Trucks P.M. Peak Hour Reliability and Congestion

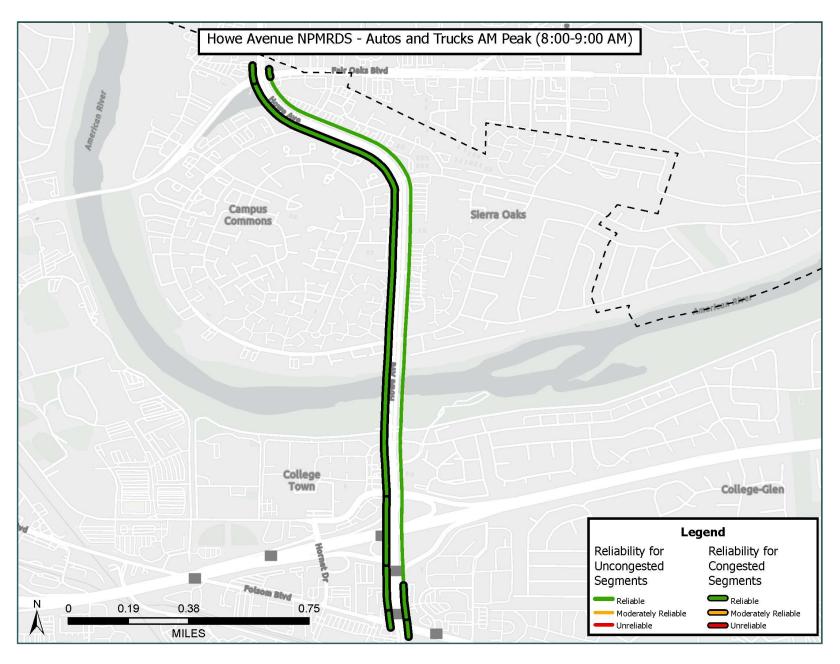


Figure 32. Autos and Trucks A.M. Peak Hour Reliability and Congestion

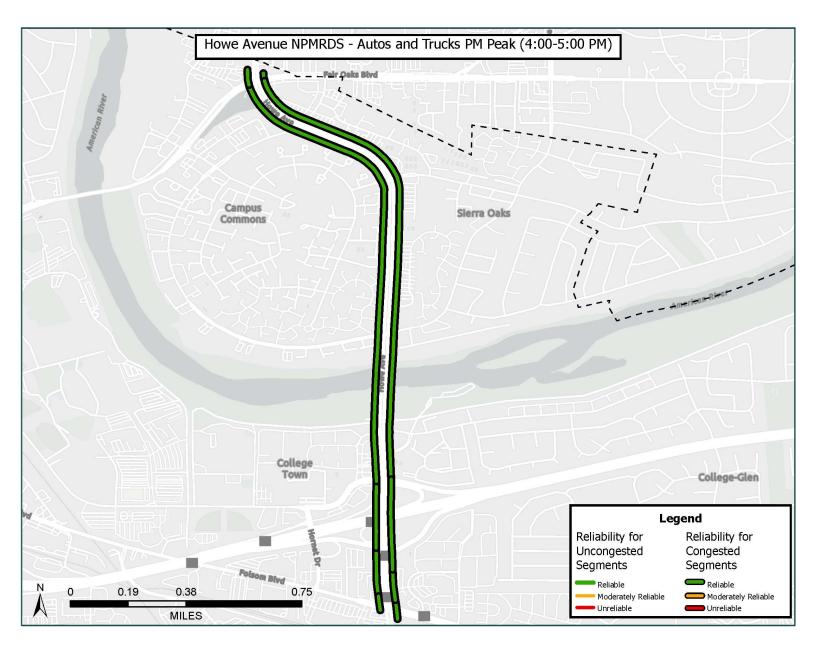


Figure 33. Autos and Trucks P.M. Peak Hour Reliability and Congestion

Public Engagement Summary

This section outlines public engagement events, engagement media methods, and public feedback results for the Connecting Howe Avenue Safety & Mobility Plan, including an overview of in-person and virtual meetings, methods for collecting community input, and a summary of feedback through surveys and interactive maps.

Public Engagement Events

In Person Event

On Wednesday, November 20, 2024, the project team hosted an in-person engagement event to engage community members on the Connecting Howe Avenue Safety & Mobility Plan. The event was held from 6:30 to 8:00 p.m. at the Scottish Rite Masonic Center (6151 H St, Sacramento, CA 95819).

To promote awareness of the public workshop and virtual meeting, a flyer



was circulated on the City of Sacramento website, pop-up events, and social media outlets to promote the upcoming events. The event flyer consisted of meeting information, project background, links, and a QR code to route views to the project website, survey, and comment map.

The workshop began with a presentation outlining the project's purpose, goals, and need. Following the presentation, attendees were encouraged to participate by completing a community survey or contributing feedback via an interactive map on Social Pinpoint. The project team set up four comment boards dedicated to different transportation modes—walking, biking, driving, and transit- to solicit feedback.

Approximately eight to ten attendees participated in the event, engaging with the project team. Attendees shared feedback about concerns along Howe Avenue and suggested potential improvements. Materials from events are provided in **Appendix E**.

Virtual Meeting

On Monday, December 2, 2024, the project team held a virtual community meeting to engage community members and gather public input. This event, conducted via Zoom

from 6:30 p.m. to 7:30 p.m., served as an alternative option for those who may not be able to attend in-person events.

The workshop began with a brief presentation outlining the project's purpose, need, and goals. Participants were encouraged to share their comments, questions, and concerns with project staff during the session. Additionally, attendees received information about the project website, where they could complete a survey and/or explore the interactive map at their convenience.

Approximately 10 community members attended the meeting and provided input and feedback on existing conditions on Howe Avenue.

On Wednesday, December 11, 2024, City staff presented at a standing Folsom Boulevard Coalition meeting, similar to the workshop mentioned above.

Project Website

The Connecting Howe Avenue Safety & Mobility Plan has a dedicated page²² on the City of Sacramento's website. As shown in **Figure 34**, the project webpage provides details including the project background, corridor extents, schedule, and methods for public input. The webpage offers two primary ways for community engagement: a survey and an interactive Social Pinpoint map for public comments (**Figure 35**).

The community survey was available both online and at the in-person workshop, where it was offered in English and Spanish (**Figure 36**).

²² City of Sacramento. (n.d.). *Connecting Howe Avenue*. Public Works Department. Retrieved January 9, 2025, from https://www.cityofsacramento.gov/public-works/transportation/current_transportation_efforts/connecting-howe-avenue

Schedule **Connecting Howe Avenue** Summer - Fall 2024: Existing conditions analysis Fall-Winter 2024/2025: Community engagement including virtual open house and pop-ups Fall 2024 - Spring 2025: Alternatives analysis Fair Oaks Boulevard Project overview Winter 2025: Community engagement including community survey, virtual open house and focus groups Spring 2025-Fall 2025: Draft plan development and community engagement Howe Avenue between Fair Oaks Blvd and the Power Inn light Winter 2025: Final Plan rail station south of Folsom Blvd is a critical corridor serving Sacramento State, students, businesses and residents. 0 0 0 However, it is one of the top 10 corridors in Sacramento with the highest number of transportation related severe injuries and fatalities. The City of Sacramento was awarded a competitive planning DEC FEB MAR APR MAY JUN JUL AUG SEP OCT NOV grant to review data, work with communities to develop a Share your input plan to address safety and mobility on the corridor. There will be a variety of opportunities for you to get involved and provide your input, including community pop-ins where The goal of the plan is to identify a data driven, community we will meet with the community where they are, as well as supported plan for a future Howe Avenue that will improve in-person and virtual workshops. safety and mobility. Having a Council adopted plan ensures In-Person Workshop Wednesday, November 20, 2024 the City is eligible for competitive grant funding for any next 6:30-8:00pm phases such as Preliminary Engineering Design, Scottish Rite Masonic Center 6151 H Street, Sacramento Environmental Clearance, Final Design and Construction. Plan Corridor City Limits Virtual Workshop We're just getting started! See our schedule below and ways Monday, December 2, 2024 Connecting Howe Ave Plan Corridor 6:30-7:30pm to be engaged in the effort. Registration link 🗹 * Registration required **Online Survey** Take the online survey <a> to share your thoughts on Schedule **Interactive Comment Map** Summer - Fall 2024: Existing conditions analysis You can also share your comments on our online map . Fall-Winter 2024/2025: Community engagement including virtual open house and pop-ups Fall 2024 - Spring 2025: Alternatives analysis How can I stay engaged? Public involvement is a major component of the planning process. Winter 2025: Community engagement including community survey, virtual open house and focus groups Spring 2025-Fall 2025: Draft plan development and community engagement **News Alerts** Submit a Comment Winter 2025: Final Plan Sign up for Connect Howe Ave News Alerts Submit your comments for Connecting Howe Ave

Figure 34. Connecting Howe Avenue Safety & Mobility Plan Project Web Page

We need your input! Open Provide your input! Use the interactive map to provide comments about locations in the study area. 30 contributions so far Follow these instructions to use the map: Q Enter an address 0 . To add a comment > Select the 'Add Marker' button in the lower right corner of the map and + click the specific location where you want to leave your comment. Fill out the details of the input form _ as required and select the 'Submit' button. ٠ Northrop Ave O Add Marker Ħ Sierra Blvd · To view the map legend and/or turn map layer Laurel Dr on/off > Select the icon in the upper left corner of the map that looks like a stack of papers. The display box will show the maps layers. Click next to the circle to the right of each layer label to toggle that layer on/off. Latham Dr • To select an a different base map > Select the icon in the upper left corner of the map that looks like an unfolded map. The display box will show several base map options to choose from. (50) \mathfrak{M} Ma • To view additional map instructions > Select the 2nd Ave Brighton question mark icon just above the map in the upper left corner. The display box will include more Add Marker Broadway Perkins instruction information.

Figure 35. Interactive Comment Map

Community Survey
Please take the following brief survey. Your input is extremely valuable, and it will help the project team select the preferred future options and potential physical changes to Howe Avenue.
What is your zip code?
How often do you typically travel on Howe Avenue?
O Daily
Some Days (e.g., work commute, shopping, and errands)
○ Weekly
Every Couple of Weeks
○ Monthly
Rarely
How do you typically travel on Howe Avenue? Select all that apply.
Driving in a Personal Vehicle
Riding in a Personal Vehicle (being driven by someone)
Public Transit
Paratransit
Walking/Rolling
Bicycling (including using e-bikes)
Scooting
Ride-Sharing (Uber, Lyft), Taxi
Other (please specify)
For the next questions, please rate your interest in each potential change to Howe Avenue on a scale from 1 (least interested) to 5 (most interested).
Improved public transit stop conditions and access
1 = least interested, 5 = most interested
○ 1
O 2
O 3

Figure 36. Community Survey



Public Engagement Results

Since the launch of the project webpage in September, 2024, through December 2024, the Connecting Howe Avenue Safety & Mobility Plan Social Pinpoint Platform has received 179 views, over 70 interactive map comments, and more than 100 community survey responses. The following sections summarize public feedback collected through the Social Pinpoint interactive map and project survey.

Social Pinpoint Results

The interactive map allowed visitors to provide feedback across six categories: walking, bicycling, driving, transit, general safety, and other concerns. Due to the volume of responses, the results have been organized by primary intersections.

Figure 37 presents a cartogram illustrating public comments by transportation mode across intersections on Howe Avenue. The vertical axis shows the number of comments, while the horizontal axis highlights specific intersections and locations along the corridor. The area near University Park Drive received the most feedback, with 14 to 16 comments focusing on various issues. Walking and bicycling concerns were consistent throughout the corridor, while transit-related comments were concentrated near Swarthmore Drive.

Overall, the primary concerns identified were related to driving, bicycling, safety, and walking and rolling (see **Figure 38**). Key themes from the social pinpoint comments and public survey are summarized as follows:

Major Safety Priorities

- Excessive vehicle speeds
- High-risk crosswalks at major intersections
- Unsafe merging areas and unclear lane markings
- Poor visibility at intersections and crosswalks

Missing Connections

- Incomplete sidewalk network
- Gaps in bike lanes and trails
- Poor access to transit stations
- Disconnected multi-use paths near La Riviera and Folsom Blvd

Problem Intersections & Areas

- Fair Oaks/Howe: Difficult turns, safety risks for people walking, and challenges with business access.
- Howe/American River: Crash-prone area with frequent red light running.
- Swarthmore Drive: Dangerous merging and speeding concerns.

• Power Inn LRT Station: An isolated feel and poor connectivity.

Community Impact

- People driving short distances instead of walking/biking due to safety concerns
- Difficulty accessing local businesses and amenities
- Navigation challenges during peak hours
- Concerns about neighborhood quality of life (noise, traffic)

The overarching message from this community feedback is that current road conditions prioritize vehicle throughput at the expense of safety and accessibility for other modes of travel, particularly affecting local community access to nearby destinations. A full summary of comments is provided in **Appendix F**.

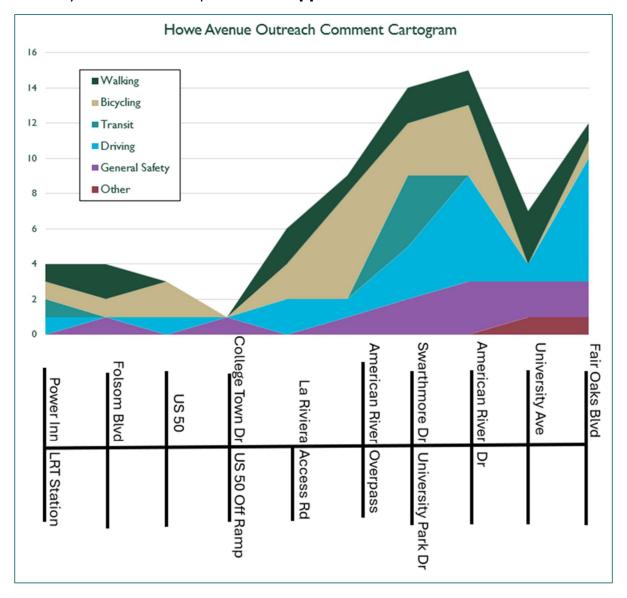


Figure 37. Comment Type by Intersection (Social Pinpoint and Survey)

SOCIAL PINPOINT COMMENT BY TYPE

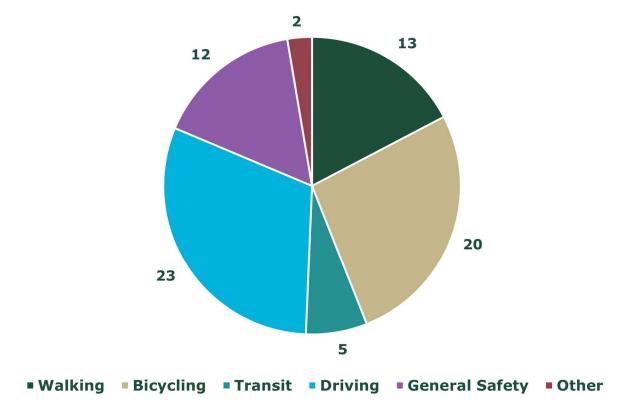


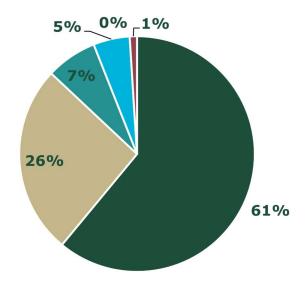
Figure 38. Social Pinpoint Comment by Type

Project Survey Results

The project webpage featured an interactive comment map, and a community survey designed to understand user interactions with the corridor and identify desired improvements. As illustrated in **Figure 39** and **Figure 40**, over 80% of respondents reported using Howe Avenue daily or occasionally, with the majority traveling by car.

The survey presented potential corridor enhancements, asking participants to rank their interest in each option on a scale from least to most interested. Results, highlighted in **Figure 41** to **Figure 43**, indicate strong community interest in improving biking, walking, and driving conditions along Howe Avenue.

RESPONSE TO: HOW OFTEN DO YOU TYPICALLY TRAVEL ON HOWE AVENUE?



■ Daily ■ Some Days ■ Weekly ■ Every Couple of Weeks ■ Monthly ■ Rarely

Figure 39. Community Survey - Question 2: How Often do you Typically Travel on Howe Avenue?

RESPONSE TO: HOW DO YOU TYPICALLY TRAVEL ON HOWE AVENUE? SELECT ALL THAT APPLY.

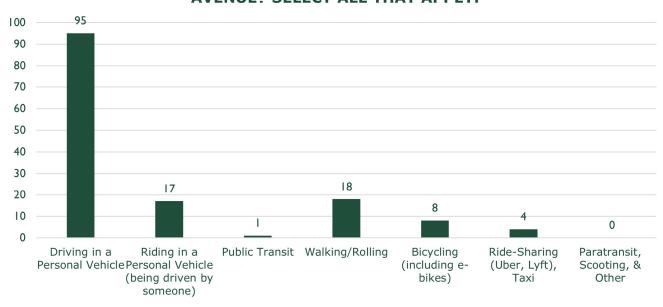


Figure 40. Community Survey - Question 3: HOW DO YOU TYPICALLY TRAVEL ON HOWE AVENUE?

RESPONSE TO: INTEREST IN IMPROVED WALKING CONDITIONS SUCH AS WIDER SIDEWALKS AND STREET TREES.

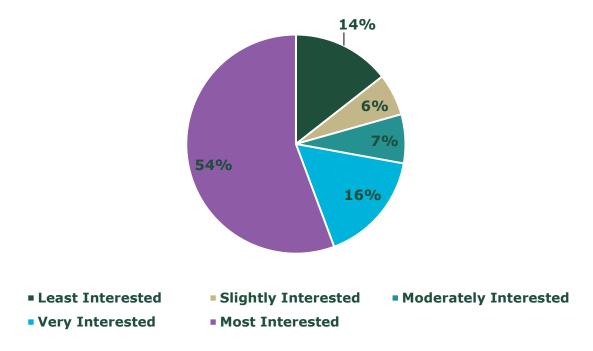


Figure 41. Community Survey - Interest in Improved Walking Conditions

RESPONSE TO: INTEREST IN IMPROVED WALKING AND BICYCLING CROSSING OF HOWE AVENUE

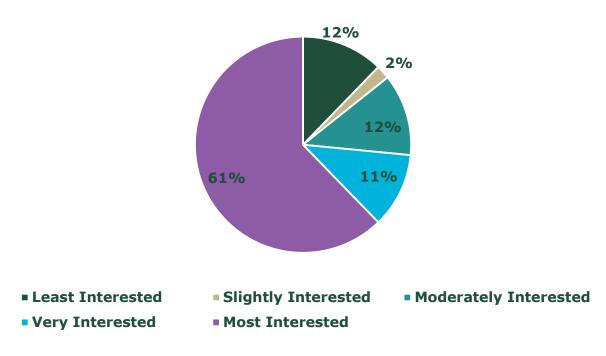


Figure 42. Community Survey - Interest in Walking and Bicycling Crossings

RESPONSE TO: INTEREST IN IMPROVED DRIVING SAFETY

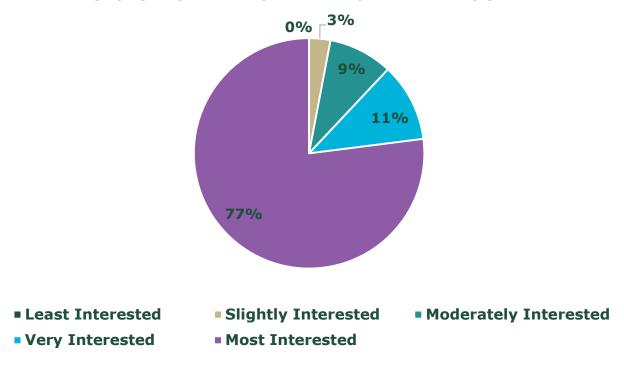


Figure 43. Community Survey - Interest in Improving Driver Safety

Existing Transportation Challenges and Constraints

This section outlines key issues with multimodal infrastructure along Howe Avenue identified as part of the existing conditions analysis and community engagement efforts. **Figure 44** illustrates the existing infrastructure along Howe Avenue and identifies bike lanes and sidewalk gaps.

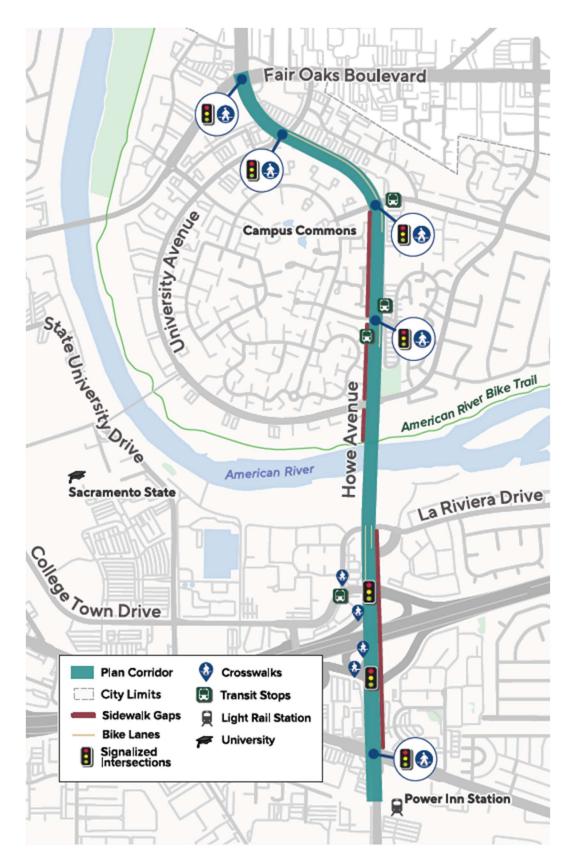


Figure 44. Infrastructure Gaps and Constraints

Infrastructure for Walking/Rolling

Existing sidewalks are generally five to six feet wide, but segments narrow to less than five feet near the Howe Avenue Bridge.

Gaps in the sidewalk network are present on both sides of Howe Avenue:

- · West side of Howe Avenue:
 - From American River Drive to Swarthmore Drive.
 - From Swarthmore Drive to the University Avenue overcrossing.
 - From the University Avenue overcrossing to the Howe Avenue Bridge.
- · East side of Howe Avenue:
 - From the La Riviera overcrossing to Folsom Boulevard.

All study intersections are equipped with pedestrian signals, push buttons, and marked crossings. Curb ramps are installed at all crossing locations; however, some intersections lack detectable warning surfaces and landing areas. These include:

- American River Drive
- Swarthmore Drive
- College Town Drive
- Folsom Boulevard

Crossings are not provided for the southern approach for intersections at the cross-streets of American River Drive and Swarthmore Drive/University Park Drive due to a lack of sidewalks on the west side of Howe Avenue.

The walking Level of Traffic Stress (LTS) score is four, reflecting uncomfortable and stressful conditions for most people walking or rolling, including those using mobility aids.

Community engagement efforts identified the following walking infrastructure concerns and priorities on Howe Avenue:

- Traffic safety concerns at major intersections, particularly poor visibility at crosswalks and intersections such as Fair Oaks/Howe, which pose significant dangers to people walking or rolling.
- Incomplete sidewalk networks and disconnected walking paths, notably near La Riviera and Folsom Boulevard.
- Safety concerns discourage walking and biking, contributing to increased short-distance car trips.

Infrastructure for Biking

Bike lanes are present along Howe Avenue and are approximately five feet in width. These bike lanes connect to the broader bicycle network via the American River Parkway shareduse path, as well as painted bike lanes on American River Drive, University Avenue, and La Riviera Drive.

Given Howe Avenue's posted speeds of 40 to 50 mph and traffic volumes of up to 59,000 vehicles per day, the current Class II bicycle lanes do not align with FHWA or City of Sacramento guidance for recommended bicycle infrastructure on roadways with these characteristics.

The bicycle LTS score is four, reflecting high stress conditions for people biking on Howe Avenue.

Community engagement efforts identified several concerns related to bicycling from participants:

- Missing connections in the bicycle network, including connections to the American River Trail
- Confusion on merging zones and lane markings for people bicycling
- Hesitancy and concern over biking on Howe Avenue due to high vehicle travel speeds.
- Strong interest in improving biking conditions on Howe Avenue.

Transit Infrastructure

There are only two bus stops directly on the corridor, and both are equipped with shelters at Howe Avenue and Swarthmore Drive. SacRT Bus Route 26 operates along Howe Avenue with approximately 30-minute headways slowing to 60-minute headways after 7 p.m. Additionally at the south end point of the study corridor, south of Folsom Boulevard, is the **SacRT Power Inn Light Rail Station** which connects to the SacRT Gold Line.

There are several SacRT routes such as routes 82, 87, 210, 211, and 255 that operate adjacent to Howe Avenue. While these routes do not operate on Howe Avenue, people using these bus routes may travel on Howe Avenue to reach these stops. These adjacent routes operate with 15–60-minute headways on weekdays and 45–60 minute headways on weekends. Lines 210, 211, and 255 have limited schedules, serving schools on weekdays only. SacRT lines 82, 87, 210, 211, and 255 are poorly connected due to missing sidewalks near Fair Oaks Boulevard.

Weekday ridership data collected from January to August 2024 shows an average of 310 riders across all stops. Route 26 bus stops averaged three riders per stop per weekday, while the eastbound and westbound Power Inn LRT averaged 140 riders per weekday.

Community engagement efforts noted **poor access to transit stations** as a key challenge. Transit-related comments were concentrated near Swarthmore Drive. The community survey indicated interest in improving the walking and biking infrastructure along Howe Avenue and improving access to transit.

In 2023, SacRT developed the *Design Guidelines for Bus and Light Rail Facilities*, which outlines design and amenity considerations to improve accessibility and safety at transit stops. The design guidelines state that transit infrastructure is expected to provide access for people with disabilities, and include lighting, shelter, seating, and trash bins.

Safety

A total of 201 crashes occurred on Howe Avenue between 2018 and 2023. 18 crashes resulted in persons being killed or suffering severe injuries (KSI).. The North Segment of Howe Avenue experienced the highest number of total crashes (77) and KSI crashes (9). The South Segment had 70 total crashes and 6 KSI crashes, while the Middle Segment had 54 total crashes and 3 KSI crashes. 151 crashes (75% of the total) occurred at intersections.

There were two bicycle-involved crashes, one each in the North and South Segments. There were three crashes involving people walking, two in the North Segment and one in the South Segment. All three crashes involved improper turning or failure to yield at intersections as the primary crash factor.

Rear-end collisions were the most frequent crash type, accounting for 101 (50%) of crashes, with a concentration at the intersection of American River Drive. Broadside crashes were the second most common, totaling 46 (23%).

Unsafe speed was the primary factor in 104 crashes (52%). Improper turning was a factor in 28 crashes (14%). Of the 18 KSI crashes, 7 (39%) involved unsafe speeds and 4 (22%) were related to driving under the influence (DUI).

The intersection of Howe Avenue and American River Drive is a location with a high rate of rear-end collisions and also where several "hit object" crashes resulting in KSI crashes occurred.

Community engagement revealed concerns about excessive vehicle speeds. Community members reported that they drive short distances instead of walking/biking due to safety concerns. The community survey indicated a strong interest in improving driving safety, and crossings for people walking or biking.

Right of Way

The ROW width along Howe Avenue varies across its three segments. From curb to curb, the ROW ranges from 90 to 115 feet involving the following components:

- The ROW narrows to 30 to 35 feet on the Howe Avenue Bridge.
- Lane widths are approximately 11-12 feet through the length of the study corridor but narrow to approximately 10 to 10.5 feet on portions of the Howe Avenue Bridge.

• Sidewalks along the study corridor are 5 feet but are the responsibility of the fronting property owner²³.

Additional consideration for ROW will need to be given to the Howe Avenue bridge due to reduced roadway width and the structure providing a constrained roadway width. Where the corridor is two lanes per direction, design alternatives can use existing roadway space to improve infrastructure for people walking or biking such as widening sidewalks or implementing Class I or Class IV facilities.

²³ Sacramento City Code, Section 12.32.020

APPENDIX



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APPENDIX A: TRAFFIC VOLUMES

APPENDIX B: TRANSIT DATA

APPENDIX C: SIGNAL TIMING WORKSHEETS

APPENDIX D: SYNCHRO REPORTS

APPENDIX E: PUBLIC WORKSHOP MATERIALS

APPENDIX F: PUBLIC COMMENT

APPENDIX A: TRAFFIC	VOLUMES	

Summary Bin Size 15 minutes

Aggregatior Median
Time Zone America/Los_Angeles Start Time 10/14/2024 0:00 End Time 10/18/2024 23:59 Location Howe Ave & Fair Oaks Blvd Latitude an 38.57413508,-121.41541391

Lights

Lights Entry	North					[East					South	1					West						
Direction Start Time	Southbound	Thru	Left	U-Turn	Pada CW	Peds CCW F	Westbound	ru loft	U-Turn	Peds	CW Dodo		bound Thru	Loft	U-Turn	Peds C	W Peds CC	Eastbo		Left	U-Turn	Peds CV	V Peds Co	CW/
0:00:00	nigiit	7	28		0 0	0	Right Thi 1	ru Left 7	1	0	0 Peus	CCW Right 0	0	Left 32	3	0	0	0 Nigiii	Thru 0	11	13	0	0	0
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1:15:00 1:30:00		3	11 18	_	0 0	0	2 1	3	1	0	0	0	0	16 14	3 1	0	0	0	0	3 5	5 6	0	0	0
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4:45:00 5:00:00		7 8	53 34	4	0 0	0	4 2	16 17	3 2	0	0	0	2 0	26 29	3 5	0	0	0	0	11 10	5 7	0 1	0	0
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5:30:00		16	106	6	1 0 0 0	0	4 5	25 47	2	0	0	0	2 5	43	5	0	0	0	0	10	9	1	0	0
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8:45:00		151	176		5 0	0	41	189	10	0	0	0	11	205	53	0	0	0	17	135	89	3	0	0
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11:30:00					3 0 8	0	41	148	22 20	1	0	0	12	176 237	56	0	0	0	21 20	158 147	90	9	0	0 0
11:45:00 12:00:00	•	120 98			8 0 6 0	0	46 60	152 140	20 25	1 0	0 0	0 0	14 15	237	51 57	0 0	0 0	0	28	187	118 148	11 9	0	0
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14:00:00					5 0	0	54	145	33	2	0	0	13	233	49	0	0	0	15	168	114	3	0	0
14:15:00 14:30:00					6 0 5 0	0	48 60	152 169	26 30	0 1	0 0	0 0	14 13	220 210	55 49	0 0	0 0	0	22 23	171 179	108 113	4 6	0	0 0
14:45:00		89			4 0	0	61	175	26	1	0	0	10	282	46	0	0	0	23	200	148	5	0	0
15:00:00 15:15:00					6 0 5 0	0	54 51	154 180	25 23	0 1	0	0	13 14	288 291	49 57	0	0	0	26 25	218 242	175 150	4 3	0	0
15:30:00			249		5 0	0	50	189	25	1	0	0	11	305	55	0	0	0	17	189	121	5	0	0
15:45:00 16:00:00		144 137			3 0 5 0	0	45 42	184 191	18 23	2 2	0 0	0	11 15	300 301	63 64	0	0	0	23 22	201 204	133 151	6 5	0	0
16:15:00					3 0	0	31	184	17	1	0	0	14	312	55	0	0	0	24	244	175	5	0	0
16:30:00 16:45:00		136 149			8 0 4 0	0	29 18	180 192	18 17	0 1	0	0	12 20	307 313	55 56	0	0	0	29 32	285 231	176 131	6 9	0	0
17:00:00					7 0	0	33	192	21	0	0	0	16	326	63	1	0	0	28	254	148	8	0	0
17:15:00				00	7 0	0	55	189	17	0	0	0	13	329	67	0	0	0	21	229	160	9	0	0
17:30:00 17:45:00		148 115			4 0 2 0	0	42 46	188 183	12 18	0 1	0	0	12 12	314 302	53 50	0	0	0	15 17	208 211	143 145	10 6	0	0
18:00:00	;	104	216	45	5 0	0	46	164	16	0	0	0	11	232	51	0	0	0	17	193	139	11	0	0
18:15:00 18:30:00	:	114 82			2 0 3	0	41 46	135 134	14 17	0 1	0	0	10 11	205 200	58 48	0	0	0	15 13	151 129	115 86	6 7	0	0
18:45:00					3 0	0	32	112	20	1	0	0	11	150	42	0	0	0	9	120	94	5	0	0
19:00:00		64			1 0	0	19	87	15	0	0	0	12 7	158 147	34	1 0	0	0	11 7	123	91	4	0	0
19:15:00 19:30:00					4 0 3 0	0	17 15	80 86	24 19	0 1	0	0	8	108	29 31	0	0 0	0	4	104 98	81 69	3 2	0	0
19:45:00					2 0	0	14	67	11	0	0	0	8	112	24	0	0	0	5	92	63	3	0	0
20:00:00 20:15:00					2 0 6	0	17 15	64 66	16 8	0 0	0	0	7 6	100 116	23 23	0	0	0	5 4	89 72	62 55	0 2	0	0
20:30:00		44	134	27	3 0	0	18	58	18	0	0	0	8	101	20	0	0	0	3	65	68	2	0	0
20:45:00 21:00:00		44 38			5 0 3 0	0	8 10	51 56	9 9	1 0	0	0	5 8	107 98	25 23	0	0	0	3 4	79 60	63 50	2	0	0
21:15:00		42			2 0	0	10	54	11	1	0	0	6	98 87	23	0	0	0	1	45	45	2	0	0
21:30:00		43			5 0	0	11	48	8	0	0	0	5	90	14	0	0	0	3	43	47	2	0	0
21:45:00 22:00:00		38 36			3 0 2	0	9 12	48 34	7 8	0	0 0	0 0	3 3	78 79	16 16	0 0	0 0	0	2 1	36 34	31 33	1 1	0	0 0
22:15:00		26	75	17	2 0	0	10	33	5	0	0	0	4	55	10	0	0	0	0	31	25	1	0	0
22:30:00 22:45:00		24 22	50 52		3 0 1 0	0	5 5	25 19	6 3	0	0	0	3 2	48 56	8 6	0	0	0	1 1	17 17	27 19	0	0	0
23:00:00		18	54	7	2 0	0	4	14	3	0	0	0	2	46	7	0	0	0	0	17	22	1	0	0
23:15:00 23:30:00		18 13	38 35		2 0 0	0	3	11 10	3 2	0	0	0	1 2	41 40	7 6	0	0	0	1	20 13	15 13	1	0	0 0
23:30:00 23:45:00		13 14	35 30		1 0	0	3	10 13	2	0	0	0	3	40 40	5	0	0	0	0	13 15	13 13	0	0	0



Vision Data Automator

User Input:

Location: Comm Manager I.P. Bin Interval: Start Date: Demo 172.31.56.92 15 10/14/2024

Completed:

Last Imported: 10/26/24 1:36 PM

Com	ım Manager:
id	421800935
model	Comm Manager
name	PowerInn & Folsom-How
firmwareVersion	3.0.0.279
serialNumber	D53426

Car	mera 1	Cam	era 2	Cam	nera 3	Cam	iera 4
id	471365346	id	471343709	id	471365148	id	471353458
model	Vision	model	Vision	model	Vision	model	Vision
name	Power Inn & Folsom-Hov	<i>i</i> name	Power Inn & Folsom-Hov	name	Power Inn & Folsom-Hov	name	Power Inn & Folsom-Hov
firmwareVersion	3.0.0.279	firmwareVersion	3.0.0.279	firmwareVersion	3.0.0.279	firmwareVersion	3.0.0.279
serialNumber	066755	serialNumber	066747	serialNumber	066753	serialNumber	066758

	Cam1	Cam2	Cam3	Cam4	Total					
700	315	59	364	250	988	4505	4846	0.94		
715	366	100	438	339	1242	4657				
730	394	113	435	192	1134	4702				
745		119	388			4780				
800	420	119			1140	4846				
815	433	141	352	361	1286					
830	368	120	323	401	1212					
845	388	135	305	381	1208					
400	464	164	398			5640	5712	0.98		
415										
430		207	376			5698				
445						5598				
500		182				5474				
515		199	363	329	1372					
530		187	341							
545	470	224	321	289	1303					

		Northbound			Southbound		Eastbo	ound	Westboun	d	
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBR	WBL	WBT	WBR
AM	257	1074	4	373	1234	0	108	141	203	764	422
PM	191	1331	. 6	495	1513	1	92	232	300	592	507
	SBL	SBR	SBT	EBL	EBR	EBT	NBR	NBL	WBR	WBT	WBL
	373	C	1234	108	141	267	4	257	422	764	203
	495	1	1513	92	232	452	6	191	507	592	300

Summary Bin Size 15 minutes

Aggregatior Median Time Zone America/Los_Angeles

Start Time ####### End Time ########

Location Howe Ave & University Ave

Latitude an 38.57209163,-121.41325959

Lights

Lights Entry	North						East						South						West						
Direction Start Time	Southbound	d Thru	Left	U-Turn	Peds CW	Peds CCV	Westbou	ınd Thru	Left	U-Turn	Peds CW	Peds CCW	Northbour Right	nd Thru	Left	U-Turn	Peds CW	Peds CCV	Eastbou	nd Thru	Left	U-Turn	Peds CW	Peds CC	w
0:00:00	0	27		0	0	0	0	0	1	2 (0 0	0	2	2	32	1	0) ()	1	0	0	0 ()	0
0:15:00 0:30:00		23 25		-	-			0		3 (0	1		26 22	_	0 () (0	0	0	0 (0
0:45:00 1:00:00		19 16		-						1 (1		19 15		0 (-	3	0	-	0 (0
1:15:00		15			-					0			0		15		0 (3	0		0 (0
1:30:00 1:45:00		18 16		-						0 (1		14 13		0 (2	0	-	0 (0
2:00:00	0	9		0	-	0	0	1	0	1 (0 0	0	C)	9	0	0 () ()	0	0	0	0 ()	0
2:15:00 2:30:00		10 13		-						0 (2		10 12		0 (-	0	0		0 (0
2:45:00	0	13		-		0	0		-	0 (0	1	L	8	0	0		-	0	0	_	0 (0
3:00:00 3:15:00		10 13		-					-	3 (-	1		9 8		0 (-	0	0	-	0 (0
3:30:00		16		-	-					1 (-	1		14		0 (0	0	-	0 (0
3:45:00 4:00:00		19 15		-				_		0 (0	1	_	10 11		0 (-	0 1	0	-	0 (0
4:15:00 4:30:00		33 62		-						2 (0	1		16 14		0 (1	0	-	0 (0
4:45:00		54								3 (3		28		0 (1	0		0 (0
5:00:00 5:15:00		37 44		-						2 (3		34 27		0 (2	0	-	0 (0
5:30:00	0	101		-					2	3 (3	3	49		0 ()	3	1	-	0 (0
5:45:00 6:00:00		105 95		-						8 (7 (7		67 76		0 (5 5	2		0 (0
6:15:00		113		_						8 (7 (-	12 17		83		0 (-	4 7	1		0 (0
6:30:00 6:45:00		156 136		_	-			_	-	0 (-	21				0 (9	3		0 (0
7:00:00 7:15:00		139 137		_						.8 (12 (29 29				0 (14 13	4 5	2	0 (0
7:30:00	0	215		4		0	0	7	18 2	7 (0 0	0	20) 2	225 2	27	0 () () :	22	6	6	0 ()	0
7:45:00 8:00:00		228 207		_						.0 (8 (29 54				0 (24 34	10 8		0 (0
8:15:00		183								5 (-	60				0 (10	-	0 (0
8:30:00 8:45:00		195 158		-						8 (4 (54 56				0 (29 23	8 11	_	0 (0
9:00:00 9:15:00		149 136			_					60 (66 52				0 (11 14	_	0 (0
9:30:00		144							24 3				45	5 2			0 (0 (0
9:45:00 10:00:00		155 159		_						18 (1 16 (1		0	65 63				0 (0 (0
10:15:00	0	151		_			0 1	18 :	16 4	3 (0	46	6 2	218 2	27	0 () :	28	16	17	0		0
10:30:00 10:45:00		144 173		8 7						1 (1)		0	54 67				0 () (18 15	0 (0
11:00:00 11:15:00		171 178		_						.8 (.8 (0 0		58 64				0 (0 (0
11:30:00				8							0 0		66				0 (0 (0
11:45:00 12:00:00		183 190		_							0 0 0		74 55				0 (0 (0
12:15:00	0	192	. 1	1	•		0 2	20 3	36 6		0 0		65	5 2	229 2	22	0 () ;	30	29	27	0 ()	0
12:30:00 12:45:00		204 199								i3 (i2 (-	61 71				0 (0 (0
13:00:00	0	216	1	0				21 3	35 7	2 (55	5 2	234 2	25	0 () ;	36	30	14	0 (0
13:15:00 13:30:00		220 217		_						i5 (i9 (58 53				0 (0 (0
13:45:00 14:00:00		212 221								'0 ('1 (64 57				0 (0 (0
14:15:00	0	230		8		0	0 1	19 :	19 6	1 (0 0	0	53	3 2	265	14	0 ()) ;	35	21	11	0 ()	0
14:30:00 14:45:00		236 256		_	-					2 (8			60 53				0 (0 (0
15:00:00		250			_					60		-	59				0 (0 (0
15:15:00 15:30:00		277 265		_						i5 (0	56 54				0 (0 (0
15:45:00 16:00:00		263 259								66		0	58 51				0 (0 (0
16:15:00	1	287		_			0 2	23 :	16 6	1 (0	55	5 3			0 () (60	25	24	0	-	0
16:30:00 16:45:00		276 270		7 8						i9 ('2 (0	65 74				0 () (40 27	0 ()	0
17:00:00		278			_					6 (-	60				0 (0 (0
17:15:00 17:30:00		290 282		7						.9 (.5 (0	62 62				0 (0 (0
17:45:00 18:00:00		247 241		_						2 (7 (-	57 41		322 243		0 (23 19		0 (0
18:15:00	0	230		6			0	9	9 5	4 (41	l 2	256		0 () :	25	14		0 ()	0
18:30:00 18:45:00		220 215		_						15 (15 (37 33		211 191		0 (28 20	10 8	-	0 (0
19:00:00		180			-			9	9 5	1 (-	35	5 1	176		0 () :	17	7	-	0 (0
19:15:00 19:30:00		171 170		-						.9 (.9 (0	25 19		156 114		0 (17 13	9 5	4	0 (0
19:45:00 20:00:00		157 147								5 (8		-	18 15		123 110		0 (10 10	4	•	0 (0
20:15:00		148								2 (21		123		0 (9	4	-	0 (0
20:30:00 20:45:00		141 122								12 (1 17 (1		-	18 19		107 115		0 (9 7	4 3	_	0 0		0
21:00:00	0	105		4	1	0	0	5	5 2	6 (0 0	0	12	2 1	112	3	0 () ()	8	3	1	0)	0
21:15:00 21:30:00		98 94			-					.6 (14 11		102 95		0 (6 6	2	_	0 (0
21:45:00	0	91		_				3	2 1	.1		-	9	9	84		0 (-	7	1	_	0 (0
22:00:00 22:15:00		89 87		_						.0 (12 7		79 60		0 (-	7 6	2	_	0 (0
22:30:00 22:45:00		51 51		0 3	-		0 0			2 (0	4		56 54		0 () (-	4	1	1	0 (0
23:00:00	0	51			0	0	0	0	2	7	0 0	0	3	3	51	2	0 () ()	2	1	0	0 ()	0
23:15:00 23:30:00		41 36		1 1						8 (7 (0	7		42 42		0 () (•	4 3	0	0	0 (0
23:45:00				1	0	0			0	4 (0 0	0	2		42		0) (3	0	1	0 (0

APPENDIX B: TRANSIT DATA

DAY_OF_WEEK	UNIQUE_STOP_NUMBER	STOP_NAME	ROUTE ON	OFF	TOTAL	L	AT	LONG	MONTH
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	11	7	18	38.555114	-121.411040	JAN
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.565075	-121.409228	JAN
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	1	2	38.565797	-121.408840	JAN
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	4	5	9	38.569573	-121.408263	JAN
WEEKDAY	09915	POWER INN LRT & POWER IN	26	0	0	0	38.546280	-121.407750	JAN
WEEKDAY	09915	POWER INN LRT & POWER INN RD	26	154	162	316	38.547001	-121.407632	JAN
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	11	9	20	38.555114	-121.411039	FEB
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	2	38.565073	-121.409228	FEB
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	0	1	38.566632	-121.408715	FEB
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	0	2	2	38.569481	-121.407216	FEB
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	13	11	24	38.554896	-121.411148	MAR
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	1	0	2	38.564642	-121.409199	MAR
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	0	4	4	38.566230	-121.408882	MAR
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	4	4	8	38.569651	-121.407565	MAR
WEEKDAY	09915	POWER INN LRT & POWER IN	26	0	0	0	38.547310	-121.408500	MAR
WEEKDAY	09915	POWER INN LRT & POWER INN RD	26	47	51	98	38.547042	-121.407618	MAR
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	13	8	21	38.554888	-121.411179	APR
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.564605	-121.409205	APR
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	0	2	2	38.566198	-121.408889	APR
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	5	8	38.569688	-121.407904	APR
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	17	11	28	38.554879	-121.411182	MAY
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	2	4	38.564616	-121.409204	MAY
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	2	4	38.566180	-121.408892	MAY
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	6	9	38.569678	-121.407904	MAY
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	18	11	29	38.554886	-121.411186	JUN
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	2	4	38.564630	-121.409201	JUN
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	2	3	4	38.566127	-121.408889	JUN
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	4	7	10	38.569682	-121.407965	JUN
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	27	16	42	38.554881	-121.411199	AUG
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.564589	-121.409202	AUG
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	2	3	38.566196	-121.408893	AUG
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	5	7	38.569684	-121.407890	AUG
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	27	15	42	38.554914	-121.411156	AUG
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	4	2	5	38.564552	-121.409209	AUG
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	2	2	3	38.566201	-121.408891	AUG
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	8	11	38.569686	-121.407850	AUG
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	27	16	42	38.554881	-121.411199	JUL
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.564589	-121.409202	JUL
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	2	3	38.566196	-121.408893	JUL
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	5	7	38.569684	-121.407890	JUL

APPENDIX C: SIGNAL TIMING WORKSHEETS	

ECONOLITE ASC/2

TRAFFIC SIGNAL CONTROLLER PROGRAM CHART

N/S	Howe	Avenue	······································	<u>E/W</u>	College To	own/WB 50)
Intersect	ion #: 27	0	System:		IP A	.ddress:	
Dev	vice ID:	,	Channel:			Drop #:	
	⊞ ⊠		ø6		Howe Avenue	US-50 Ran	np
	551	OLB				_	
		Ø6 PED			4	- - ø8	
					<i>y</i>	-	
	Ø7	 			F	-	
. [ege Town Drive			ø2			
		 	Ø2 Ø6 OLE	Ø7 ₹	Ø8 ◄	Ņ	

PHASE TIMING

Approved by:

Date Implemented: 5-29-19

Controller Timi	ng [ata							Ke	y: (F1)-	2-1
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Min Green		9				9	13	12				
Bike Green												
CndSrv MinGrn												
Walk						7						
Ped Clr						20						
Veh Ext		3.0				3.0	2.0	2.0				
Veh Ext 2												
Max Ext												
Max1		S0				50	40	40				
Max2												
Max3												
Det Max												
Yellow		5.0				5.0	3.9	3.9				
Red Cir		0.7				0.7	1.5	1.0				
Red Rvt		2.0				2.0	2.0	2.0				
Act B4 Init												
Sec/Actuation												~~~~~
Max Initial												
Time B4 Reduct												
Cars Wt												
Time To Reduce												
Min Gap												

Controller Opti	on [Data	1						Ke	y: (F1)-	2-9
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Guar Passage												
NonActuated I												
NonActuated II												
Dual Entry		2				6						
Cond Service												
Cond Reservice												
Rest in Walk												
Flashing Walk												
Five Section Left		5-2:				7-4:				1-6:		
Turn Heads		3-8:			11	-10:			9	-12:		
Dual Entry			0	N	Back	cup P	rotec	tion	Grp :		0	FF
Cond Service Ena	ble		0	FF	Back	up P	rotec	tion	Grp 2	2	01	FF
Cond Service Det X	Swit	ch	0	FF	Back	up P	rotec	tion	Grp 3	3	0	FF
Ped Clr Protect			0	N	Sim	ul Ga	p Gr	ъ1			OI	FF
Spec Pre OVL Flas	sh		0	FF	Sim	Simul Gap Grp 2					OI	FF
Lock Det in Red			0	FF	Sim	ul Ga	ıp Gr	ъ 3			OI	FF
Reserved			0	FF	unit	Back	ир Т	ime			OI	FF
Reserved			0	FF	unit	Red	Reve	ert			OI	FF

Contro	llar	Pocali	Data
Contro	ner.	Kecal	Data

Minimum Recall

Flash Thru Ld Switch

Cycle Thru Phases

Spare

Controller Recall Data Key										y: (F1)-	2-4
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Locking Memory												
Vehicle Recall												
Ped Recall												
Recall to Max												
Soft Recall		2				6						
Don't Rest Here												
Ped Dark N/Call												

Controller Start/Flash Data Key: (F1)-2-										2-6		
Phase	1	2	3	4	5	6	7	8	9	10	11	12
ø's Startup		2				6						
Entry Rem Flash		2				6						
Exit Rem Flash		2				6						
Rem Flash Yello												
Flsh Together ø		2	,	4		6	·	8	۲	10	,	12
Flsh Tgther OV	A:		B:	4	C:	4	D:					
Startup Intvl Rng	1	Y	ello	w								
Startup Intvl Rng	2	Υ	ello	w								
Power Start All R	ed	6	sec									
Power Start Flash)											
Remote Flash	ı Op	tior	ıs					-				
Out of Flash Yello	w	Y	es	- 1.3								
Out of Flash All R	ed	N	ю									

Yes

No

No

No

CONFIGURATION

Controller Sequence

1 2 3

5 6 7

2 | 3

1

Priority

Ring 1

Ring 2

CG Barrier

					Key	y: (I	F1)-	1-1
4	5	6	7	8	9	10	11	12
4	9	10	0	0	0	0	Q	0
8	11	12	0	0	0	0	0	.0

Phases in Use	<u> </u>								Ke	y: (F1)-	1-2
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Phases in Use	Þ	2				6	7	8	r	b.	r	·
Exclusive Ped	r					ı	,	,		ı.		e

SDLC	Options									Key:	(F1)-	1-4
BIU	Number	1	2	3	4	5	6	7	8			
Ter	m & Facil											
Dete	ector Rack											
Тур	e 2 Runs as	Туре	⊇ 1	τ								
	MMU Disa	ble		Х								
Di	iagnostic Eı	nable)	r			1.1.					
Pe	er to Peer E	Enabl	е	ı				4.1	47			
		F	Peer	to P	eer A	۱ddr	esse	S				
1)	255 2)	2.	55	3)	25	i 5	4)	25	5	5)	255	
6)	255 7)	2!	55	8)	25	5	9)	25	5	10)	255	

NEW CONTROLLER SHOULD BE DEFAULTED BEFORE INSTALLATION To Default Controller: (F1)-8-2 Select All Press ENTER (F1)-8-1-3 Select All Press ENTER

Ped Timing Carryover

Key:	Key: (F1)-2-3					
Phase	Carryover					
1	0					
2	0					
3	O					
4	0					
5	0					
6	0					
7	O					
8	0					
9	0					
10	0					
11	0					
12	0					

Port 2 Key: (F1)-1-5

Port 2 Protocol	TERMNL
Port 2 Enable	NO
Data Rate (bps)	9600
Data, Parity, Stop	8, N, 1
NTCIP Address	0
NTCIP Grp Address	0
NTCIP Resp Delay	0
NTCIP Sgl Flg Enal	NO
NTCIP BackUp Tim	0
NTCIP Drop-Out Time	0
Port2 Drop-Out Tim	0
NTCIP RTS Timing	NO
NTCIP RTS to CTS Dlay	0
NTCIP RTS TurnOff Dla	0
NTCIP Early RTS	NO

Key: (F1)-1-6 Port 3

Port 3 Protocol	TELEM
Port 3 Enable	YES
Port 3 millisec Timing	NO
Port 3 RTS to CTS Delay	0
Port 3 RTS TurnOff Delay	0
Duplex -Half or Full	FULL
Modem Data Rate (bps)	1200
Data, Parity, Stop	8, N, 1
Telemetry Address	1
System Detector 9-16 Add	
Telemtry Response Delay	1
NTCIP Address	0
NTCIP Grp Address	0
NTCIP Resp Delay	0
NTCIP Single Flag Enable	NO
NTCIP BackUp Time	0
Port 3 Drop-Out Time	0
NTCIP Early RTS	NO

Key: (F1)-1-8 **Options**

	50.
Supervisor Access Code	0
Data Change Acces Code	0
Key Click Enable	NO
Backlight Enable	YES
Request Download	NO

CITY OF SACRAMENTO OVERLAP TABLES

Key:	(F1)	-2-2
------	------	------

OVLP	The state of the s			Ove	lap	Cons	ists	of Pl	nase	S		
Phase	1	2	3	4	5	6	7	8	9	10	11	12
1	Х		4	4		,			ı	,	4	
· 2	,	Х		٠,		,	,	,	,	,	,	
3			Х	-		٠	·		ı			
4	٠	٠	6	Х		4	٠	٠	c	٠.	ı	,
5		4	٠	۵.	Х		ı	4		4		
6	9	,	7		*	Х	•	*	۲		4	
7	e	۵	4		¢	٠	Х	c	4	¢		J
8	٠.	e e	e	ε	c c	4	4	Х	4	٠		
9	u		٤		ı	4	4		Х			
10	٠	,		ę	,			0	٠,	Х		
11	٠	٠	1	a		4		c		c	Х	
12	0	4	4	٤.		,			v			Х

Ped Overlap Assignments

Key: (F1)-2-5

OVLP	20. EG2-25	0.000.000.000.000	(C)SS-GN TRRESS	Over	lap (Cons	ists	of Ph	iase:	S	Z cezo Agia	4
Phase	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12				. 1								

Controller Overlap Data

Key: (F1)-2-5

OverLap A	1	2	3	4	5	6	7	8	9	10	11	12
Standard												
Protected												
Permitted												
Enable Lag												
Enable Lead												
Spare												
Advance Gre	en T	imer										
Lag / Lead Gre	en Ti	mer										
Lag / Lead Yellov	ν Tim	er										
Lag / Lead Re	ed Ti	mer										

OverLap B	1	2	3	4	5	6	7	8	9	10	11	12
Standard							7					
Protected							7					
Permitted												
Enable Lag												
Enable Lead												
Spare		,										
Advance Gre	en T	imer										
Lag / Lead Gre	en Ti	imer										
Lag / Lead Yello	w Tim	er		3	.9							
Lag / Lead Re	ed Ti	mer										

OverLap C	1	2	3	4	5	6	7	8	9	10	11	12
Standard												
Protected												
Permitted												
Enable Lag												
Enable Lead												
Spare		- COMPANION DE LA COMPANION DE										
Advance Gre	en T	imer										
Lag / Lead Gre	en Ti	mer										
Lag / Lead Yellov	พ Tim	er										-
Lag / Lead Re	ed Ti	mer										

OverLap D	1	2	3	4	5	6	7	8	9	10	11	12
Standard												
Protected												
Permitted												
Enable Lag												
Enable Lead												
Spare												
Advance Gre	en T	imer										
Lag / Lead Gre	en Ti	mer				4						
Lag / Lead Yello	w Tim	er										
Lag / Lead Re	ed Ti	mer										

COORDINATION PATTERN TABLES

Cod	ord	ina	tio	1 P	atte	rn	Dat	a

Key: (F1)-3-4

Coordinatio	אוור	alle	111 L	ala					- Maria Wisson	1/6	y: (L T /-	J-4
PLAN FORM	IAT												
Cycle Length			120		Plar	1		1					
Offset			99						7				
SPLITS:	1)			2)	3	8	3)			4)			
DV DUACE	5)			6)	3	8	7)	1	.9	8)	5	3	
BY PHASE	9)			10)			11)			12)			
Veh Permissi	ve		[1]				[2]						
Veh Perm 2 [Disp												ij.
Phase Reserv	ice												
Split Extension	n/R	ing	[1]				[2]						
Splt Demand	Patt	ern	[1]		***********		[2]						
Xartery Patte	ern												
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phase	s		2				6						
Veh Recall													
Veh Max Rec	all												
Ped Recall													
Phase Omit													
Spare													
Alt Sequer	ice	A:	ı	B:		C:	t.	D:	Х	E:		F:	

PLAN FORM	ΑТ		******	******						A			
Cycle Length			130		Plar	ì		2					
Offset			99										
SPLITS:	1)			2)	8	2	3)			4)			
BY PHASE	S)			6)	8	2	7)	2	5	8)	2	3	
DIPHASE	9)			10)			11)			12)			
Veh Permissi	ve		[1]		10		[2]		10				
Veh Perm 2 [Disp								-				
Phase Reserv	/ice												
Split Extension	on/R	ing	[1]				[2]						
Splt Demand	Pat	tern	[1]				[2]						
Xartery Patte	ern												
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phase	s		2				6						
Veh Recall													
Veh Max Rec	all												
Ped Recall													
Phase Omit													
Spare													
Alt Sequen	ce	A:	4	B:	ε	C:	٠	D:	r	E:	τ	F:	

PLAN FORIV	IAT												
Cycle Length			130		Plar	1		3					
Offset			111									164	
SPLITS:	1)			2)	S	2	3)			4)			
BY PHASE	S)			6)	S	2	7)	3	0	8)	4	8	
DI PHASE	9)			10)			11)			12)			
Veh Permissi	ve		[1]				[2]						
Veh Perm 2 [Disp												
Phase Reserv	/ice												
Split Extension	n/R	ing	[1]				[2]						
Splt Demand	Patt	ern	[1]				[2]						
Xartery Patte	ern												
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phase	S		2				6						
Veh Recall													
Veh Max Rec	all												
Ped Recall													
Phase Omit													
Spare													
Alt Sequen	ce												

PLAN FORM	IAT												
Cycle Length					Plar	ì		4					
Offset													
SPLITS:	1)			2)			3)			4)			
BY PHASE	S)			6)			7)			8)			
DI PHASE	9)			10)			11)			12)			
Veh Permissi	ve		[1]				[2]						
Veh Perm 2 I	Disp												
Phase Reserv	/ice		•										
Split Extension	on/R	ing	[1]				[2]						
Splt Demand	Pat	ern	[1]				[2]						
Xartery Patte	ern												
PHASE		1	2	3	4	S	6	7	8	9	10	11	12
Coord Phase	S												
Veh Recall													
Veh Max Red	all												
Ped Recall													
Phase Omit													
Spare													
Alt Sequen	ce	A:		B:	7	C:	7	D:	ť	E:	r	F:	,

Alt Sequence:

A=switch Ø1 & Ø2

B=switch Ø3 & Ø4 D=switch Ø7 & Ø8

C=switch Ø5 & Ø6

E=switch Ø9 & Ø10 F=switch Ø11 & Ø12

COORDINATION/TIME OF DAY DATA

Coordinator Options

Key: (F1)-3-1

Split Units	SE	C	Actı	uate	d Co	ord (Ø	Х
Offset Units	SE	C	Actı	uate	d Re	st In	Wal	
Interconnect Format	PLA	N	Inhi	bit N	/lax			Х
Interconnect Source	NI	С	Max	(2 S	elect	;		
Resync Count	0		Mul	tisyr	nc			
Transition	SMO	OTH	Floa	t Fo	rce C	Off		
Dwell Period	0	sec	Α	В	С	D	Ε	F
Free Alterna	te Sequ	ence	4				,	

Coord Manual and Split Demand

Key: (F1)-3-2

Manual Enable	0	OFF Manual Pattern				efections in a						
5plit Demand		Demand 1			Demand 2							
Demand Call Time			0		Q.							
Demand Cycle Cou	nt	0			0							
Demand ø	1	2	3	4	5	6	7	8	9	10	11	12
Demand 1 ø's	,	,		,		,	,			,	6	
Demand 2 ø's	-	,	·	b	٠		,	,				

Coord Auto Permissive Min Green

Phase	Perm Min Grn	к	ey:	(F1)-	3-3
1	0	sec			
2	0	sec			
3	0	sec			
4	0	sec			
5	0 -	sec			di.
6	0	sec			
7	0	sec			
8	0	sec			
9	0	sec			
10	0	sec			
11	0	sec			
12	0	sec	-		

Clock/ Calendar Data

Key: (F1)-5-1

,				<u> </u>			
DATE SET:	0/0/00	Eı	nter	Date	/Time		
TIME SET:	0:00:00	Then Press Enter					
Manual NIC	Prgrm Step	Ą).				
Manual TOD	Prgrm Step	()				
Sync Referer	ice Time		0:00	}			
Sync Referer	ice	RI	EFER	ENC	ETIME		
Week 1 begi	ns on 1st Sun	day		r			
Disable Dayli	ght Savings						
DST begins L	ast Sunday						

TOD Yearly Program

Key: (F1)-5-3

					2000			
Week of Year	1	2	3	4	5	6	7	O)
Weekly Program	1	Ĺ	Ĺ	120	1	1	1	- Jeny
Week of Year	g ₃	10	11	12	13	14	15	16
Weekly Program	7.	- Barrie	1	1	1	No.	1	fort.
Week of Year	17	18	19	20	21	22	23	24
Weekly Program	γH	1	1	1	Ī	Çw.ş	1	1.
Week of Year	25	26	27	28	29	30	31	32
Weekly Program	1	1,	1	Jeny	4	1	1	l
Week of Year	33	34	35	36	37	38	39	40
Weekly Program	1	1	1	Įm.	<u> </u>	1	v-l	
Week of Year	41	42	43	44	45	46	47	48
Weekly Program	1	1	1	4	Ī	1	1	Ţ
Week of Year				49	50	51	52	(A)
Weekly Program				낸	1	gund]	4	Şer

TOD Weekly Programs Key: (F1)-5-2

Week	SU	МО	TU	WE	TH	FR	SA
1	L	1	fort.	1	Ī	i.	1
2	, just	1	Ĩ		1	Ĺ	<u>[m]</u>
3	£	1,	1	Ţ	1	1	3
4	Ĺ	1	gar.	1	ļm.	1	1
5	Ä	1	I	1	1	1	1
. 6	1	1	Ī	1	Ĺ	1	1
7	Ĺ	1	Ĺ	i	į.	İ	1
. 8	1	Ĩ	1	Ţ	1	1-1	Ţ
9	i wa	1	1	1	Ē	1	1
10	ĺ	1	1	1	1	Ţ	ļ-r

NIC Program Table

	gram Step		Key	/: (F1)-5-5
Step	Program	Time		Override
1	1	7:00	1	
2	1	9:30	2	
3	1	14:00	3	
4	1	19:00	0	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				A
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

TOD Holiday Program

Key: (F1)-5-4

	Float /			WOM	
Holiday	Fixed	Month	DOM	/ Year	Program
1					
2					,
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33	****				
34					
35					
36		Contract to the	un an er maktemekker yndelden.		

PREEMPTION TABLES

Priority Preempt	or 2								Key	: (F1)-4-	1
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp	Ī											
Trk Clr Phase												
Hold Phases						6						
Exit Phases												
Exit Calls	1											
Spare												
Term Overlaps	A:		•	B:			C:			D:		
Active	Υ	ES Ped Dark										
Priority		Ped Activ			e							
Det Lock			Zero PC 1								ta.	
Hold Flash		PC Thru			ellov	v						
Term Ovlp ASAP			Terr	n Pha	ses							
Don't Override Flas	h			X .								
Flash all Outputs												
Yellow-Red goes G	een											
Enable Max Preem	pt Tir	ne										
Active only During	Hold											
No CVM in Flash												
Fast Flash GRN on I	Hold										-2.7	
Out of Flash		GREEN										
Max Time	SS	Dura	ation	Time					GRN	YEL	RED	
Min Hold Time	6	Dela	Pelay Time			Mini	imum	1				
Min Ped Clear		Inhi	Inhibit Time			Trac	k Cle	ar				T .
Exit Max		Hld	Delay	Tim		Hold						

Priority Preempt	or 3								k	(ey:	(F1)	-4-2
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases		2										
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:		•	B:			C:		•	D:		•
Active	Υ	ES	Ped	Dark								
Priority			Ped	Activ	e							
Det Lock			Zero	PC T	īme							
Hold Flash			PC T	hru Y	'ellov	V						
Term Ovlp ASAP			Terr	n Pha	ases							
Don't Override Flas	h			X								
Flash all Outputs												
Yellow-Red goes Gr	een											
Enable Max Preem	pt Tir	ne										
Active only During	Hold											
No CVM in Flash												
Fast Flash GRN on I	Hold											-
Out of Flash			GREEN									
Max Time	SS	Dura	ition	Time					GRN	YEL	RED	
Min Hold Time	6	Dela	γTin	ıe		Mini	imum	1				
Min Ped Clear		Inhil	oit Tii	ne		Trac	k Cle	ar				
Exit Max		Hld	Delay	' Tim		Holo	1			***		

Priority Preemptor 4 Key: (F1)-4-											-4-3	
Phase	1	2	3	4	S	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases								8				
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:		ı	В:			C:		r	D:		:
Active	Υ	ES	Ped	Dark								
Priority			Ped	Activ	e				•			
Det Lock			Zero	PC T	ime							
Hold Flash			PC T	hru Y	'ellov	/						
Term Ovlp ASAP			Terr	n Pha	ses							
Don't Override Flas	h			X								
Flash all Outputs			Ĺ				-					
Yellow-Red goes Gr	een											
Enable Max Preem	pt Tir	ne										
Active only During	Hold											
No CVM in Flash											-	
Fast Flash GRN on I	Hold											
Out of Flash			GR	EEN								
Max Time	SS	Dura	ation	Time					GRN	YEL	RED	
Min Hold Time	6	Dela	lay Time			Mini	mum	1				
Min Ped Clear		Inhil	oit Tii	ne		Trac	k Clea	ar				
Exit Max		Hld	Delay	Tim		Hold						

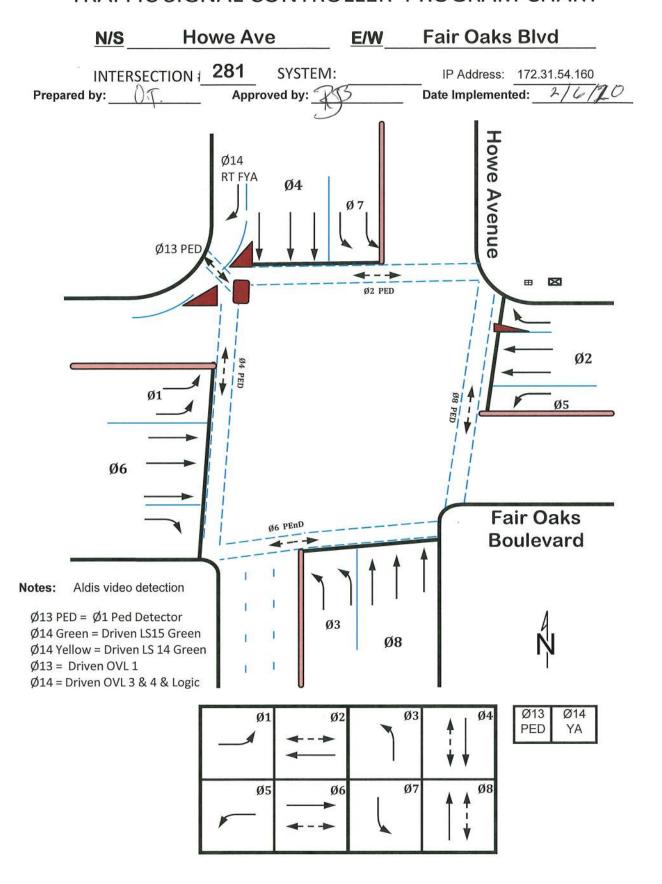
Priority Preempt	or 5	Const. un Migrir (1)	mana a di Sanda	707-02-		netire com	710H VS. W		ŀ	(ey:	(F1)	-4-4
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases							7					
Exit Phases												
Exit Calls												
Spare		<u> </u>										
Term Overlaps	A:		ε	B:		r.	C:		c .	D:		
Active	Υ	ES	Ped	Dark								7-2
Priority			Ped	Activ	'e							
Det Lock			Zero	PC T	ime							
Hold Flash			PC T	hru Y	'ellov	٧						
Term Ovlp ASAP			Terr	n Pha	ises							
Don't Override Flas	h			Χ								
Flash all Outputs												
Yellow-Red goes Gr			<u> </u>									
Enable Max Preem		ne										
Active only During	Hold											
No CVM in Flash												
Fast Flash GRN on I	Hold											
Out of Flash		, _.	GR	EEN								
Max Time	58	Dura	ation	Time		Y			GRN	YEL	RED	
Min Hold Time	6	Dela	ıy Tin	ne		Min	mum	1				
Min Ped Clear			bit Ti			Trac	k Cle	ar				
Exit Max		Hld	Delay	/ Tim		Hold	1					

DETECTION SCHEDULE

Howe Avenue at College Town Dr/Highway 50 EB offramp

- 4000000000000000000000000000000000000		Controller	nowe Ave		mege 10		Controller /	Detector Tv	pe / Function	F80 -1111
	Phase	Det. Input	Location	Direction	Extend	Delay	Passage	Detector 19	Notes	
	Loops	or Retrofit Vid	eo				1	<u></u>		
	Ø1	1					T			***************************************
	Ø2	2	Front	NB			x			
	ø3	3	110112				1 ^			
l	Ø4	4								
	Ø5	5								
	Ø6	6	Front	SB			· ·			
	Ø7	7	Front	EB			X			
7	Ø8	8	Front	WB			x x			
BIU 1	Loops		110111	4412		· · · · · · · · · · · · · · · · · · ·				
	Ø1	9								
	Ø2	10								
	Ø3									
ĺ	Ø4	11								
	Ø5	12						-		
	Ø6	13					ļi			
l	Ø5 Ø7	14								
٠.		15								
	Ø8	16	DUI 2 /DE	CEDVED) 4	7.00					
		deo Detectior	BIU Z (RE	SERVED) 1	. /-32		1			
	Ø1	33								
	Ø1	34								
	Ø6	35								
	Ø6	36								
	Ø6	37								
	Ø6	38								
~~	Ø6	39								
BIU 3	Ø6	40								
BI	Ø5	41								
	Ø5	42								
	Ø2	43								
	Ø2	44								
	Ø2	45								
	Ø2	46								
,	Ø2	47								
	Ø2	48								
	Ø3	49								
	Ø3	50								
	Ø8	51								
	Ø8	52								
	Ø8	53								
	Ø8	54							***************************************	
_,	Ø8	55								
BIU 4	Ø8	56								
BI	Ø7	57								
·	Ø7	58								
	Ø4	59								
	Ø4	60								
	Ø4	61								
	Ø4	62								
	Ø4	63								
	Ø4	64								

TRAFFIC SIGNAL CONTROLLER PROGRAM CHART



Phase Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Min Green	12	11	11	10	12	11	11	10	0	0	0	0	5	5	5	0
Veh Ext	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	0.0
Max Green 1	50	60	40	70	40	60	40	70	0	0	0	0	40	40	40	0
Max Green 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max Green 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max Ext	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellow	3.5	4.3	3.5	4.3	3.5	4.7	3.5	4.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0
Red Clr	1.0	0.7	0.5	0.7	1.0	0.8	0.5	0.7	0.0	0.0	0.0	0.0	0.3	0.2	0.3	0.0
Adv Flash	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bike MG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	4	0	7	0	7	0	7	0	0	0	0	5	0	0	0
Ped Clr	0	30	0	27	0	24	0	28	0	0	0	0	5	0	0	0
Walk2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sol DW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Early Wlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Wlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Added	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reduce After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TTReduce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	4.0	0.0	0.0
Neg Ped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AP Disc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Ped Clr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Return Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phase Options

Phases				1.	-8					9-	16		
Min Recalls				4				8	Γ			4	
Max Recalls	Г								Γ				
Ped Recalls													
Soft Recall													
Dual Entry													
Red Rest													
Walk Rest													
Walk Expand													
Ped Recycle													
Sim Ped Term													
PC Thru Clr									 Ī				
Guar Passage	Г												
No Simult Gap	1		3		5		7						
Yel Lock	Г												
Red Lock													
PhaseNext Lock	1	2	3	4	5	6	7	8					
No Term Call													
Cond Serv													
CS Enable													
Cond Reserve									 T				
Reserve													
Veh Omit													
Ped Omit													
Perm Phase													П
Protect Calls													
Protect Calls 2													
Flash Entry													
Flash Exit													
Flash Exit Yel													
Flash Exit Red													
Ped Scramble					-								
No Min Yel									Γ				
No Min Red Rev									 T				
Max Scramble Walk													
Flash Yellow													
Flash FYA								П					
CNA 1								П					
CNA 2													

Phase Startup Options

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Startup Flash	0				M	lode		Re	d->\	⁄el
Startup All Red	6				Ye	llow	0.0			
Phases		1.	-8				9-16			_
Startup Phases	2		6							
Startup Yellow	2		6							
Startup Red										
Startup No Walk	2	4	6	8						
Startup Next										
Startup Yel Fls										
Startup FYA										
No Veh Call										
No Ped Call	2	4	6	8						

Phase Startup Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Unit

Red Revert 2.0 Ped Protect No AdvFls in Flash No

Ring Sequence / Conflicting Phases

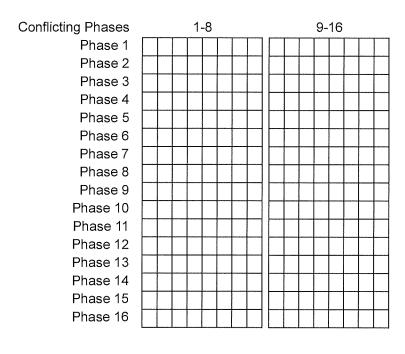
2/6/2020 2:33:54 PM

Ringgroup 1			_														
Ring 1	1	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	ı
Ring 2	5	6	7	8	0	0	0	0	0	0	0	0	0	0	0	0	

Ringgroup 2																
Ring 3	13	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Custom Sequences

uences																	
Seq 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seq 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seq 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seq 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seq 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seq 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seq 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Seq 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	



FYA/FRA 2/6/2020 2:33:54 PM 5 7 8 **FYA** 1 2 3 4 6 Prot Phs 0 0 0 0 0 0 0 0 Opp Thru ō 0 0 0 0 0 0 0 0 0 0 0 0 ō 0 0 Start Phs Opp Ped 0 0 0 0 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 Delay 0.0 0.0 Min FYA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Skip Prot Red Head Mode FYA 1 Ped Hawk 1 Veh Phase 0 Ped Phase 0 0.0 Yes Flash Yel Dark Signal Flash Delay 0.0 Flash Carryover 0.0 Green Mode Normal Ped Hawk 2 Veh Phase 0 Ped Phase 0 0.0 Yes Flash Yel Dark Signal Flash Delay 0.0 Flash Carryover 0.0 Green Mode Normal Ped Hawk 3 Veh Phase 0 Ped Phase 0 0.0 Dark Signal Yes Flash Yel 0.0 Flash Delay 0.0 Flash Carryover Green Mode Normal Ped Hawk 4 Veh Phase 0 Ped Phase 0 Yes Flash Yel 0.0 Dark Signal Flash Delay 0.0 Flash Carryover

Green Mode

Normal

		Ove	·lap 1	2/6/2020 2:33:54 PM
Min Green	0.0 Trail Green	0.0 Trail Greer	2 0.0 Delay Green	0.0
Yellow	3.5 Red	0.0 Red Rev		
Walk	5 Ped Clearance	10 Solid D	W 0.0 Early Wlk	0.0 Delay Wlk 0.0
Phases	1-8	9-16		
Parents		3	Pmt Green 0	Walk 0 Ped Clr 0
Negative Green		4	DD Dhass O DI	Polov [00]
Start Next			PP Phase 0 PF	P Delay 0.0
Trail Enable			Min FR 0.0 FR	Hold 0.0 FR Delay 0.0
Trail Ena Next				
Trail Ena 2			LRV Start Enable	
Trail Next 2			LRV Enable	
Delay Enable			LITY LITABLE	
Negative Veh			Phases 1	-8 9-16
Negative Ped			Perm Phases	
Negative Olap	3 4		Prot Phases	
Walk Rest			R Ena Phases	
Walk Thru			FR Grn Phases	
Walk Halt			FR Ped Conf	
Ped Recycle		F	R OLPed Conf	
Overlap Start			 	
Overlap Ped Start				
Phase Calls				
		Ove	lap 3	
Min Green	4.0 Trail Green	0.0 Trail Green	2 0.0 Delay Green	0.0
Yellow	3.5 Red	0.0 Red Rev	ert 2.0	
Walk	0 Ped Clearance	0 Solid D		0.0 Delay Wlk 0.0
Phases	1-8	9-16		
Parents	1 3 5 6 7 8		Pmt Green 0	Walk 0 Ped Cir 0
Negative Green	4		PP Phase 0 PF	P Delay 0.0
Start Next			FF Filase 0 Fi	belay 0.0
Trail Enable			Min FR 0.0 FR	Hold 0.0 FR Delay 0.0
Trail Ena Next			L	
Trail Ena 2			LRV Start Enable	
Trail Next 2			LRV Enable	
Delay Enable			LIV Ellable	
Negative Veh	2	3	Phases 1	-8 9-16
Negative Ped			Perm Phases	
Negative Olap	1 4		Prot Phases	
Walk Rest			R Ena Phases	
Walk Thru			FR Grn Phases	
Walk Halt			FR Ped Conf	
Ped Recycle		F	R OLPed Conf	
Overlap Start				
Overlap Ped Start				
Phase Calls				

					Ove	erlap 4		2/6/2020 2:33:54 PM
Min Green	0.0	Trail Greer	0.0	Trai	Gree	en 2 0.0 Dela	ay Green 0.0	
Yellow	0.0	Red	0.0	Re	ed Re	vert 0.0		
Walk	0	Ped Clearance	€ 0	(Solid I	DW 0.0 E	Early Wlk 0.0	Delay Wlk 0.0
Phases		1-8	!	9-16				
Parents		4				Pmt Green	0 Walk	0 Ped Clr 0
Negative Green						PP Phase	0 PP Delay	0.0
Start Next								
Trail Enable						Min FR (D.0 FR Hold	0.0 FR Delay 0.0
Trail Ena Next						15),(0), (5		
Trail Ena 2						LRV Start E	nable	
Trail Next 2						I RV F	Enable	
Delay Enable						21(4)		
Negative Veh				3		Phases	1-8	9-16
Negative Ped						Perm Phases		
Negative Olap	1	3				Prot Phases		
Walk Rest						FR Ena Phases		
Walk Thru						FR Grn Phases		
Walk Halt						FR Ped Conf		
Ped Recycle						FR OLPed Conf		
Overlap Start								
Overlap Ped Start								
Phase Calls								

Overlap Startup Options

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Overlaps		1.	-8				9-	16		
Startup Overlap Green					Г					
Startup Overlap Yellow										

Overlap Startup Timing

Overlap	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Min Green	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Overlap Unit Options

Overlaps	1-8	9-16
Overlap Ped Recalls		
MCE Olap Ped Protect		
MCE Olap Ped Calls		
MCE Olap Ped Expand		
No Min Yellow		
No Min Red Rev		
Flash Yellow		
No Conflict		
Pre Signal		
Perm Red	i i i i i i i i i i i i i i i i i i i	
Perm FYA		
Perm FRA		

Coordination Options

Sync Time	00:00	RTC Set Time	00:00
Transition Mode	Best 2	Ped Adjust	None
Trans Short %	20	Trans Long %	35
Offset Reference	Lag Grn	Short Cycles	0
Dual Entry	Strict	Overlap F/O	Disabled
Master Sync Mode	RTC	Master Sync Length	0
Adapt Thresh	3	Adapt Step	2
External Plan Max	0		
Hardwire No Match	Sched	Hardwire Sync Fail	0
Override Omit/Recall	No		
Phases	1-8	9-16	
No Trans Recall			
Trans Ped Recall			
Trans Phases			

Hardwire Plans

Hardwire	Plan Select	Pattern	Offset	Mode
Plan 1		0	0	Hardwire
Plan 2		0	0	Hardwire
Plan 3		0	0	Hardwire
Plan 4		0	0	Hardwire
Plan 5		0	0	Hardwire
Plan 6		0	0	Hardwire
Plan 7		0	0	Hardwire
Plan 8		0	0	Hardwire
Plan 9		0	0	Hardwire
Plan 10		0	0	Hardwire
Plan 11		0	0	Hardwire
Plan 12		0	0	Hardwire
Plan 13		0	0	Hardwire
Plan 14		0	0	Hardwire
Plan 15		0	0	Hardwire
Plan 16		0	0	Hardwire
Plan 17		0	0	Hardwire
Plan 18		0	0	Hardwire
Plan 19		0	0	Hardwire
Plan 20		0	0	Hardwire
Plan 21		0	0	Hardwire
Plan 22		0	0	Hardwire
Plan 23		0	0	Hardwire
Plan 24		0	0	Hardwire
Plan 25		0	0	Hardwire
Plan 26		0	0	Hardwire
Plan 27		0	0	Hardwire
Plan 28		0	0	Hardwire
Plan 29		0	0	Hardwire
Plan 30		0	0	Hardwire
Plan 31		0	0	Hardwire
Plan 32		0	0	Hardwire

Soft Interconnect

Mode	Slave	Remote Int Number	0
Yield Delay	0		
Yield Duration	0		
Permissive	0		
Local Hold Limit	0		
Phases	1-8	9-16	
Local Control Phases			
Local Hold Phases			
Local Perm Phases			
Local Call Phases			
Remote Perm Phases			
Remote Hold Phases			

Coordination Pattern 1

Cycle	120	Ring	ggroup	1 - C	ffset ′	1 1	7	Offse	et 2	0	Offs	set 3	0						
		Ring	group	2 - 0	ffset 1	1 0		Offse	et 2	0	Offs	set 3	0						
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
Splits	20	40	20	40	20	40	20	40	ΤŌ	T 0	0	0	0	0	0	0			
Split Ext	0	0	0	20	0	0	0	20	0	0	0	0	0	0	0	0			
Float Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l		
Perm Min Green	8	11	8	11	8	11	8	11	0	0	0	0	0	0	0	0			
Min Trans Split	11	11	11	11	11	11	11	11	0	0	0	0	0	0	0	0			
Max Trans Split	55	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0	l		
Split 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l		
PA Before	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l		
PA After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			<u> </u>	-I	L	L			. 	I			1						
Permissive Mode	S	ing B	and		Max	Mode	e	Max	x Inh		V	/alk R	est [,	Yield				
Ped Permissive		Yield	d																
Permissive Limit	0			 F	Perm :	2 Star	t C)			Per	m 2 E	End [0					
Alt Sequence	3				TOD	Link	0												
Phases/Overlaps		1-	-8			9-16	3		Tr	ans M	lode		Defau	lt					
Coord Phases		4		8	_ _				(Offset	Ref		Defau	lt	7				
No Extend									Adap	ti∨e M	lode	F	Enable	d	1				
Float Enable									, , , , , ,		00								
Veh = Ped Perm				$\perp \downarrow \downarrow \downarrow$						Disa	ble Pr	iority			T - T				
Walk Rest								Ш	D			•				Щ.		 	
Ped Recall							44		Pro	gressi							$\perp \! \perp \! \perp \! \perp$		
Cond Ped Call										Prio	rity Alf	Seq							
Olap Ped Recall								Ш		Rese	rve Ex	ctend							
Ped Recycle					_ _								II		L				
Min Recall				$\perp \downarrow \downarrow \downarrow$			4												
Max Recall	ļ			44															
Cond Serv				41															
Reservice	ļ																		
Veh Omit	<u> </u>							Ш											
Ped Omit																			
Olap Omit			$\perp \downarrow \downarrow$				<u> </u>												
Perm Reserve																			
Perm 1 Phases							$\bot \bot$												
Max Inhibit		$\sqcup \sqcup$	_	44	_	_ _ _	$\bot \bot$	\sqcup											
FYA Omit		\Box		44		11	-	Ш											
Adapt Phases																			
Priority Timing-Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
Priority Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Recovery Min Green	lΩ	Λ	1 0	lni	വ	\cap 1	Λ .	Λ	1 n	n 1	וחו	\cap		\sim 1	\sim 1	\cap			

Coordination Pattern 1

Alternate Timing-Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Alt Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Ped Clr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Sol DW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Veh Ext	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Red Clr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Early Walk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Delay Walk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt CS Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt CS Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Coordination Pattern 2

Cycle	130	Ring	group	1 - 0	ffset 1	1 1		Offse	t 2 _	5	Offs	et 3	0						
		Ring	group	2 - O	ffset 1	1 0		Offse	t 2 [0	Offs	et 3	0						
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
Splits	25	42	23	40	27	40	23	40	0	0	0	0	0	0	0	0	1		
Split Ext	0	0	0	20	0	0	0	20	0	0	0	0	0	0	0	0			
Float Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l		
Perm Min Green	8	12	8	12	8	12	8	12	0	0	0	0	0	0	0	0			
Min Trans Split	11	11	11	11	11	11	11	11	0	0	0	0	0	0	0	0			
Max Trans Split	55	55	55	55	55	55	55	55	0	0	0	0	0	0	0	0			
Split 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PA Before	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PA After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	,																		
Permissive Mode	R	eserv	ice		Max	Mode	e [Max	x Inh		W	alk R	est [Yield				
Ped Permissive		Yield	l										_						
Permissive Limit	0			F	Perm		L			Per	m 2 E	ind [0						
Alt Sequence 1					TOE) Link	0												
Phases/Overlaps		1-	8			9-1	3		Tr	ans M	ode		Defau	ılt					
Coord Phases		4		8			H		(Offset	Ref		Defau	ılt	=				
No Extend													Enable						
Float Enable									Auap	tive M	oue	L	_nable						
Veh = Ped Perm										Dica	hia Dr	ioritu	П	1 1					
Walk Rest											ble Pr	-				Щ,		 	
Ped Recall									Prog	gressi	on Ph	ases							\perp
Cond Ped Call										Prio	rity Alf	Seq							
Olap Ped Recall										Rese	rve Ex	ctend							
Ped Recycle													<u> </u>	11	lLL				
Min Recall																			
Max Recall																			
Cond Serv																			
Reservice																			
Veh Omit																			
Ped Omit																			
Olap Omit																			
Perm Reserve																			
Perm 1 Phases																			
Max Inhibit																			
FYA Omit																			
Adapt Phases																			
riority Timing-Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	7		
Priority Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
ZACOVATV IVIIN LITAAN	1 (1)	1 11	1 11	1 1)	1 11	1 11	1 11	1 11	1 11	1 U	1 11	ıIJ	1 11	ı U	i U	1 U	5		

Coordination Pattern 2

Alternate Timing-Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Alt Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Ped Clr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Sol DW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Veh Ext	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Red Clr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Early Walk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Delay Walk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt CS Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt CS Max	0	0	0	0	0	0	0	0	0	0.	0	0	0	0	0	0

Coordination Pattern 3

Cycle	130 R	inggroup	o 1 - C)ffset ′	1 80)	Offse	t 2	0	Offs	set 3	0	1			
	R	inggroup	2 - C	offset 1	1 0		Offse	t 2 [0	Offs	set 3	0]			
Phase	1 :	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Splits		2 20	48	20	42	20	48	<u> </u>	0	0	0	10	0	T 0	0	7
Split Ext		0 0	25	0	0	0	25	0	0	0	0	0	0	0	0	-
Float Green		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Perm Min Green	9 1		11	9	11	9	11	0	0	0	0	0	0	0	0	-
Min Trans Split		9 9	9	9	9	9	9	0	0	0	0	0	0	0	0	-
Max Trans Split	L	5 55	60	55	55	55	60	0	0	0	0	0	0	0	0	-
Split 2		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
PA Before		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
PA After		0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
	ļ		L	I			L	<u> </u>	L					I -		J
Permissive Mode	Rese	ervice		Max	Mode	e	Max	Inh		W	/alk R	est [Yield]
Ped Permissive	Yi	eld										-				•
Permissive Limit	0			Perm 2	2 Star	t C				Per	m 2 E	End [0			
Alt Sequence 1				TOD	Link	0	7					-				
<u> </u>	1 1			•		L										
Phases/Overlaps		1-8			9-16	3		Tra	ans M	lode		Defau	ılt			
Coord Phases		4	8					(Offset	Ref		Defau	ılt			
No Extend																
Float Enable								Adapt	live ivi	loue		Enable	≠a 			
Veh = Ped Perm							П		Disal	61- D.	:t.k	Г	П	г т т		
Walk Rest										ble Pr	•				Щ_	
Ped Recall								Prog	gressi	on Ph	ases					
Cond Ped Call									Prio	rity Alt	Seq		П			
Olap Ped Recall									Reser	ve Ex	tend				一	
Ped Recycle												LL	<u> </u>			
Min Recall																
Max Recall																
Cond Serv																
Reservice			4				Ш									
Veh Omit			$\perp \downarrow \downarrow$													
Ped Omit			41			<u> </u>										
Olap Omit			441													
Perm Reserve																
Perm 1 Phases Max Inhibit			4-41			1										
				\perp												
FYA Omit		+	441	$\bot\bot$	+- -											
Adapt Phases					Ш.,											
Priority Timing-Phase	1 2		4	5	6	7	8	9	10	11	12	13	14	15	16	
Priority Min Green	0 0		0	0	0	0	0	0	0	0	0	0	0	0	0	
Recovery Min Green	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Coordination Pattern 3

Alternate Timing-Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Alt Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Ped Clr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Sol DW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Veh Ext	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt Red Clr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Early Walk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt Delay Walk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alt CS Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alt CS Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Preempt Inputs

2/6/2020 2:33:54 PM

Preempt Input	1	2	3	4	5	6	7	8	9	10
Delay	0	0	0	0	0	0	0	0	0	0
Checkout Limit	0	0	0	0	0	0	0	0	0	0
Locked	No									
Interlock	Disabled									
Input Number	0	0	3	4	5	6	3	4	5	6
Input Priority	All	All	High	High	High	High	Low	Low	Low	Low
Delay Mode	Inp									

Preempt Priority

Preempt	1	2	3	4	5	6	7	8	9	10	
Priority	0	0	0	0	0	0	0	0	0	0	

Remote Preemption

Remote Preempt	RM 1	RM 2	RM 3	RM 4	RM 5	RM 6	RM 7	RM 8
Int Number	0	0	0	0	0	0	0	0
PE Number	0	0	0	0	0	0	0	0
Mode	Dis							
Slack	0	0	0	0	0	0	0	0
Travel Time	0	0	0	0	0	0	0	0
Alt TT 1	0	0	0	0	0	0	0	0
Alt TT 2	0	0	0	0	0	0	0	0
Alt TT 3	0	0	0	0	0	0	0	0
Alt TT 4	0	0	0	0	0	0	0	0
Alt TT 5	0	0	0	0	0	0	0	0
Alt TT 6	0	0	0	0	0	0	0	0
Alt TT 7	0	0	0	0	0	0	0	0

										P	ree	em	pt	3 (Configuration)		2/6	/2020 2	:33:54 P	M'
Enabled			Υe							D	we	ell N	/loc	le	Normal	Output I	Mode		All	\neg
Output2 Mode			A	 							Fa	il A	ctic	n	Preempt Off	Exit I	Mode	N	ormal	$\overline{}$
· !								∩h.			Dh			\.	Yes			L	*****	
Override Flash			N		—		,	١١٥	an Ç	jе	- 111	ase	HE	Χl	res					
Enable Phases Preempt Inputs			3	1-8							9-1	6			LRV Disable LRV Dwell Flasi LRV Om LRV No Ye	t	1-8	Ma	x 0	
								Pre	ee	mţ	ot :	3 (Tin	nin	g/Phases/Overlaps)					
Phases/Overlaps				1-8	}					9	9-1	6								_
Omit Olap Grn Clr			\Box	T											Start Gree	n 0	S	tart Wa	lk 0	
Phs EWlk to Grn			ightharpoons														Star	t Ped C	ir 0	7
TCIr 1 Veh Phases		\sqcup	4	_	_		_				-	-	_	_						
TClr 1 Ped Phases		$\vdash \downarrow$	_	-	+				4		+	_	+-		Track Clear	1 0	Trac	k Clear	2 0	
TCIr 1 Olap TCIr 1 Olap Ped	_	$\vdash \vdash$	+	+	+	\vdash	-	\vdash	\dashv	\dashv		+	+-	-	TC1 Extend	d 0		TC1 Ma	ax 0	7
TClr 2 Veh Phases		$\vdash \vdash$	_	+	-		-		\dashv	\dashv	_	-	-	\vdash						
TClr 2 Ped Phases		\vdash	+	+	+	++	\dashv		\dashv	-	+	+	+	-	Exit Ped C	r <u>0</u>	E	xit Yello	w 0.0	
TClr 2 Olap		\vdash	+	_	+	+	႕	\vdash	+	+	+	+	+-	+	Exit Re	d 0.0				
TClr 2 Olap Ped		\vdash	+	-	+	$\vdash \vdash$		H	\dashv	\dashv	\dashv	+	+		LXILING	1 [0.0]				
Init Dwell Phases		\vdash	+	+	+				1	\dashv	$^{+}$	+	-		Min Dwe	II 5	Min	Duratio	n 0	
Dwell Veh Phases	1	\vdash	\dagger	+	6		\dashv		_	T	\top			 	D	. []				
Dwell Ped Phases	\vdash	\Box	\dashv		+	$ \cdot $	\neg	\vdash	_	1	+	\top		\top	Dwell Exten	d 2				
Dwell Olap	\vdash	\Box	1	+	\top	I	\dashv	П	7	_	\top		-	 	Max Dwe	II 0		Max Ca	all 85	;]
Dwell Olap Ped		П	7		\top	\Box			_	\top	\top	1							L	
Exit Veh Phases		\Box	1		+	\Box					\top		T		Reserve Inh Sam	e 0				
Exit Ped Phases			\top		T	\Box						1			Reserve Inh A	II 0				
Exit Olap		П	\exists		1	\Box				Ì	Ī			1	Reserve IIII A					
Exit Olap Ped		\Box		T		\Box									Dela	y 0				
Zero Phase Walk		П	\top	\top		П						T								
Zero Phase Ped Clr			\top		T								T		Phases/Overlaps	1-8			9-16	
Zero Phase Green			T												TClr 1 FR Olap					\perp
Zero Olap Walk			1	\top	T										TCIr 2 FR Olap					
Zero Olap Ped Clr				\top											Dwell FR Olap					
Zero Olap Green				T				П							TCIr 1 FYA					
Dwell-Phase Red															TClr 2 FYA					
Dwell-Phase Red Flash		П	\top	\top									T		Dwell FYA					
Dwell-Phase Yel Flash			\top			\prod														
Dwell-Olap Red Flash			T																	
Dwell-Olap Yel Flash			T																	
Dwell-Ped Dark		П	\top		\top	\sqcap	\neg						T							

Dwell-Olap Ped Dark

								Pre	een	npt	t 4	(Configuration)			2	/6/2	020	2:3	3:54	PM
Enabled			Ye	S				Dv	vell	Мо	de	Normal		Output	Mode	• [Α	[[
Output2 Mode			Al					F	ail A	4cti	on	Preempt Off		Exit	Mode	• [Nor	mal	
Override Flash			No)]	Cha	ang	e P	has	ene	ext	Yes								
Enable Phases Preempt Inputs			4	1-8		Pre	een		-16	(Tir	min	LRV Disa LRV Dwell Fl LRV C LRV No	lash Omit Yel		1-8			⁄lax Delay		0
							J O.			(' ''		ign naccore venap	,,							
Phases/Overlaps			1	1-8	 			9-	·16											
Omit Olap Grn Clr		\perp										Start Gr	een	0		Sta	rt W	/alk)
Phs EWlk to Grn															S+	art I	Dad	Clr		7
TClr 1 Veh Phases															O.	aiti	eu	OII		
TClr 1 Ped Phases												Track Cle	ar 1	0	Tra	ack	Clea	ar 2		
TClr 1 Olap																			L	
TClr 1 Olap Ped												TC1 Ext	end	0		T	C1 N	/lax)
TClr 2 Veh Phases									П			Exit Ped	l Clr	0		Evit	Val	low		
TClr 2 Ped Phases												LXII. Fed	CII			CXIL	10	IOW	0.	<u> </u>
TClr 2 Olap												Exit F	Red	0.0						
TCIr 2 Olap Ped					П															
Init Dwell Phases												Min D	well	5	Mi	n D	ura	tion		0
Dwell Veh Phases		2		5								Dwell Ext	and							
Dwell Ped Phases												Dwell Ext	ena	2						
Dwell Olap						П						Max D	well	0		М	ax (Call	[35
Dwell Olap Ped						П													L	
Exit Veh Phases												Reserve Inh Sa	ame	0						
Exit Ped Phases		\top										Reserve Inh	١١٨ م							
Exit Olap										Т		Reserve iiii	1 All	0						
Exit Olap Ped						П						D€	elay	0						
Zero Phase Walk						П							,							
Zero Phase Ped Clr					П							Phases/Overlaps _		1-8				9-1	6	
Zero Phase Green		\top										TClr 1 FR Olap								
Zero Olap Walk												TClr 2 FR Olap								
Zero Olap Ped Cir	П				П							Dwell FR Olap								
Zero Olap Green												TClr 1 FYA								
Dwell-Phase Red												TClr 2 FYA								
Dwell-Phase Red Flash	П											Dwell FYA								
Dwell-Phase Yel Flash				\prod																
Dwell-Olap Red Flash		T					T	Ī	\Box	\top										
Dwell-Olap Yel Flash		\top		П																
Dwell-Ped Dark	П	T		\prod	П				П	T										
Dwell-Olap Ped Dark		I																		

										Р	ree	em	pt 5	(Configuration)			2/6/2	2020	2:33	:54 PM
Enabled			Ye	s						D	we	ell N	/lode		Normal	Outp	out Mod] et		All	
Output2 Mode			Αl	<u> </u>							Fai	il A	ction		Preempt Off	E:	xit Mod] ab	1	Norm	ıal
Override Flash			No	 ວ			(Cha	ang	je l	Pha	ase	next	:	Yes						
														•							
Enable Phases Preempt Inputs			1	1-8] [F	⊃re	ee		9-10		Γimi	n	LRV Disable LRV Dwell Flash LRV Omit LRV No Yel g/Phases/Overlaps)		1-8			lax [0
Phases/Overlaps			,	1-8						(9-10	6									
Omit Olap Grn Clr	П	Т		T	П	Т	\prod	T	Т	T					Start Green	0		Sta	art W	alk	0
Phs EWlk to Grn																	ç	Start	Ped	Clr	0
TClr 1 Veh Phases	Ш	_	_	_	\sqcup		4	4	\downarrow	_	_	_								!	
TClr 1 Ped Phases	\vdash	+	+	4	\vdash	_	4		4	-	_	-		_	Track Clear 1	0	Т	rack	Clea	ır 2	0
TClr 1 Olap TClr 1 Olap Ped	\vdash	+	+	+	+		┨┠	+	\dashv		_	-	╂╌┼	-	TC1 Extend	0		T	C1 M	1ax	0
TClr 2 Veh Phases	H	+		-	\vdash	-	$\dashv \dagger$	_	\dashv	+	+	+	++	\dashv						,	
TClr 2 Ped Phases	H	+	+	-	H		$\dashv \dagger$	+	\dashv	_		\dagger	++	\dashv	Exit Ped Clr	0		Exi	t Yell	ow	0.0
TClr 2 Olap		+	\dagger		+	_	11	\dashv	\dashv	\dashv	+	\dagger		٦	Exit Red	0.0					
TClr 2 Olap Ped	H	\top	T	1	TT		7	7	\dashv	T		1		\dashv							
Init Dwell Phases		\top	T	T						\top					Min Dwell	5		Min E)urati	ion	0
Dwell Veh Phases		3	3			8	3								Dwell Extend	2					
Dwell Ped Phases	Ш													_	D WOII EXCOIDE						
Dwell Olap			\perp				┨┃	_				_			Max Dwell	0		M	/lax C	Call	85
Dwell Olap Ped		\bot	\perp	1	$\perp \downarrow$		4	_	_	_	1	_			Decorro Inh Como		٦				
Exit Veh Phases		4	_		$\perp \perp$	_	4	4	\dashv	4	_	_	4-4	_	Reserve Inh Same	0					
Exit Ped Phases		\bot	4	\bot	4-4		4	_	4	_	_	_	+		Reserve Inh All	0	7				
Exit Olap		+	+	\bot	\vdash		4		_	4	_	+		_							
Exit Olap Ped		+	+	_	\sqcup	+	4	_	_	_		+	++	_	Delay	0					
Zero Phase Walk Zero Phase Ped Clr		+	+	+	+	_	4	_	4	-	-		++	_	Phases/Overlaps	1-8				9-10	3
Zero Phase Green	\vdash	+	+	+-	+	+	4	+	-	+		-	++	\dashv	TClr 1 FR Olap			7 [ПТ	ΤΤ	<u> </u>
Zero Olap Walk	\vdash		+	-	+	+	\dashv	_	\dashv	+		-	++	\dashv	TClr 2 FR Olap			+		++	+++
Zero Olap Walk Zero Olap Ped Clr		_	+	+	+		┨┟			\dashv	+	+	++	\dashv	Dwell FR Olap			$\dashv\vdash$		1 1	+++-
Zero Olap Ted Oli		+	+	+	+-	+	┨	+	\dashv	\dashv	-	-	++	\dashv	TCIr 1 FYA			1		+	
Dwell-Phase Red		+	+	+	\vdash	+	┨	-	-	\dashv	+	+	++	\dashv	TCIr 2 FYA			$\dashv \vdash$			
Dwell-Phase Red Flash	\vdash	+	+	+	++	+	-{ }	+	\dashv	+	+	+	++	\dashv	Dwell FYA			\dashv	H	++	
Dwell-Phase Yel Flash	\vdash	+	+	+	++	+	+	\dashv	\dashv	\dashv	+	-	++	\dashv	<u> </u>	<u> </u>			1		
Dwell-Olap Red Flash	H	+	+	+	++	-	┨╏	\dashv	\dashv	+	+	+	++	\dashv							
Dwell-Olap Yel Flash	H	+	+	+	+		-	\dashv	\dashv	\dashv	+	+	++	\dashv							
Dwell-Ped Dark	$\mid \rightarrow \mid$	+	+	+	++	\dashv	\dashv	\dashv	\dashv	+	+	+	++	\dashv							
Dwell-Olap Ped Dark	H	+	+	+	+		1	\dashv		+	+	+									

										Р	re	em	ıpt	6	(Configuration)			2/	6/20	20 2	:33:5	64 PM
Enabled			Ye	S)w	ell [VIO	de	Normal		Output	t Mode			All	
O L (O.M. J.												-:I A	_ L :		D		Evi	. N.1 a d a		N.I		
Output2 Mode			Al	l —							Fa	ail A	CU	on	Preempt Off		EXI	t Mode	<u> </u>	IN	orma	[
Override Flash			No)			(Cha	an	ge	Pł	nase	ene	ext	Yes							
Enable Phases Preempt Inputs				1-8	6			Pre	======================================		9-′		Ti	mir	LRV Dis LRV Dwell F LRV LRV N ng/Phases/Overla	Flash Omit o Yel		1-8] Ma]] De	ıx [0
								•	-			`			.9	-17						
Phases/Overlaps		г		1-8			_			т	9-1	16		-] Start G	roon	0		Star	+ \Λ/a	ık F	0
Omit Olap Grn Clr	_		+	-	-	_	4					-	_	-	- Start O	il CCI I			Olai	. vva	''\ L	
Phs EWlk to Grn TClr 1 Veh Phases	-				-		-		-			_		-	_			Sta	art P	ed C	ir [0
TCIr 1 Ven Phases TCIr 1 Ped Phases	-		+	-		-	-	-				+	-		T			_		v1 ·-		
TCIr 1 Ped Phases	-	\vdash	+	-	-		_	\vdash	_			+			Track Cle	ear 1	0	ıra	ick C	lear	² L	0
TClr 1 Olap Ped	-	\vdash	+		\vdash	\dashv	\dashv		_			-	_		TC1 Ex	ctend	0		TC	1 Ma	ах Г	0
TClr 2 Veh Phases	\vdash	\vdash	+	-	\vdash	_	-	Н	\dashv	-					-						_	
TClr 2 Ped Phases	-	\vdash	+	+	-	+	-	-	_	-		\dashv	+	-	Exit Pe	d Clr	0		Exit `	Yello	w L	0.0
TClr 2 Olap	\vdash	\vdash	+	+	-	\dashv		-	-	\dashv	-	\dashv	-	-		. Dod						
TClr 2 Olap Ped	-		+	-	-		-	\vdash	-	\dashv			+		- EXIL	Red	0.0					
Init Dwell Phases	-	\vdash	+	+		\dashv	-	-	\dashv	-	-		+	+	Min [Dwell	5	Mi	n Du	ıratic	on [0
Dwell Veh Phases	-	\vdash	-	1		7	\dashv		\dashv		-		+	+							<u>L</u>	
Dwell Ped Phases	-	\vdash	+	+	-	-	_		\dashv	\dashv	\dashv		+	+	Dwell Ex	ktend	2					
Dwell Olap		\vdash	+	+	-	+	-		\dashv		\dashv		+	+-	Max F	المبيد			N // c	x Ca	.u [85
Dwell Olap Ped		\vdash	+	+	-		-			-	\dashv	_	+	-	Max [Jweii	0		IVIC	ix Ca	اال ا	00
Exit Veh Phases			+	+-			\dashv	\vdash	-	-	-		+	+	Reserve Inh S	Same	0					
Exit Ped Phases		\vdash	+	+		_	\dashv	\vdash		-		-	+	+	-							
Exit Olap		\vdash	+	+				\vdash	-	-		-	+		Reserve Ir	nh All	0					
Exit Olap Ped		\vdash	+	-	-	+		Н		\dashv		\dashv	+	-	┧ .	Solovi						
Zero Phase Walk		\vdash	+	+	+	-		-		\dashv	\dashv	+	+	+	_	Delay	0					
Zero Phase Ped Clr	-		- -	+	+	\dashv		Н	_	\dashv		-	+	+	Phases/Overlaps		1-8			!	9-16	
Zero Phase Green		\vdash	+	-	-	+	-	-		\dashv	-	\dashv	+	+	TClr 1 FR Olap			T	П	ПТ		
Zero Olap Walk	-		+	╁	-	-			_		-	-	+	+	TClr 2 FR Olap			7		++		
Zero Olap Ped Clr	-		+	+		_			-	-	\dashv		-	+	Dwell FR Olap					++		
Zero Olap Green	-	$\vdash \vdash$	+	+	+	-	\dashv	$\vdash \vdash$					+	+	TClr 1 FYA			+		+		
Dwell-Phase Red	\vdash	\vdash	+	+	-		-	\vdash	_	\dashv	-	\dashv	+	+	TClr 2 FYA	H			 -	++		_
Dwell-Phase Red Flash	\vdash	\vdash	+	+	+		+	Н			-		+	+-	Dwell FYA	-		+		+	+	
Dwell-Phase Yel Flash	-	$\vdash \vdash$	+	+	+		\dashv	\vdash	-	_	\dashv	-	+	-		<u></u>			Ш.		I	
Dwell-Olap Red Flash	_	$\vdash \vdash$	+	+	-	\vdash	\dashv	Н	\dashv	\dashv	\dashv	+	+	-	-							
Dwell-Olap Yel Flash		\vdash	+	+	+-	+	\dashv	Н	-			-	-	+	-							
Dwell-Olap fel Flash	-	$\vdash \vdash$	+	+	+		\dashv	$\mid - \mid$	\dashv		\dashv		+	-	_							

Dwell-Olap Ped Dark

TOD Pattern Events

	Time			D	0	Ν					H	loli	day	/S			Мо	de	Patt	ern	Offse	t
Event 1	07:00	S	М	Т	W	Т	F	S		Π	Τ						Fre	ее	1		1	
Event 2	09:30	S	М	Т	W	Т	F	S			T					╟	Fre	ее	2		1	
Event 3	14:00	S	М	Т	W	T	F	S								$\ \cdot \ $	Fre	ee	3		1	
Event 4	20:00	S	М	T	W	Т	F	S								$\ \cdot \ $	Fre	ее	C		0	
Event 5	00:00															$\ \cdot \ $	Sch	ied	C	1	0	
Event 6	00:00										T					$\ \cdot \ $	Sch	ied	С		0	
Event 7	00:00																Sch	ied	C	ı	0	٦
Event 8	00:00										Г						Sch	ied	C		0	٦
Event 9	00:00									T	T						Sch	ed	C		0	
Event 10	00:00															$\ \cdot \ $	Sch	ied	С		0	
Event 11	00:00										Τ					$\ \ $	Sch	ied	C)	0	
Event 12	00:00								-							$\ \cdot \ $	Sch	ied	С)	0	
Event 13	00:00																Sch	ied	C)	0	
Event 14	00:00										Г						Sch	ied	C)	0	
Event 15	00:00									T							Sch	ied	C)	0	
Event 16	00:00																Sch	ied	C)	0	
Event 17	00:00									Π							Sch	ied	C)	0	
Event 18	00:00																Sch	ied	C)	0	
Event 19	00:00																Sch	ied	C)	0	
Event 20	00:00															$\ \ $	Sch	ied	C)	0	
Event 21	00:00															$\ \ $	Sch	ied	C)	0	
Event 22	00:00															$\ \ $	Sch	ied	C)	0	
Event 23	00:00															$\ \Gamma$	Sch	ied	C)	0	
Event 24	00:00														 	$\ \ $	Sch	ied	C)	0	
Event 25	00:00																Sch	ied	T C)	0	
Event 26	00:00															$\ \ $	Sch	ied	C)	0	
Event 27	00:00															$\ \ $	Sch	ied	C)	0	٦
Event 28	00:00															$\ \ $	Sch	ied	C)	0	
Event 29	00:00															$\ \ $	Sch	ied	C)	0	
Event 30	00:00																Sch	ied	C)	0	
Event 31	00:00									T	Ī						Sch	ied	C)	0	
Event 32	00:00																Sch	ied	C)	0	

281 - Fair oaks & Howe Ave

Mc						
2/6/2020 2:33:54 PM	Det 8	VehDet	∞	Det 16	VehDet	16
2/6/2	Det 7	VehDet		Det 15	None	0
	Det 6	VehDet	9	Det 14	VehDet	14
(6 N	Det 5	VehDet	2	Det 13	VehDet	13
Detector Inputs (BIU 9)	Det 4	None	0	Det 12	None	0
Det	Det 3	None	0	Det 11	None	0
	Det 2	None	0	Det 10	None	0
	Det 1	None	0	Det 9	None	0
		Function	Index		Function	Index

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Det 22 Det 23	/ehDet VehDet	22 23	Det 30 Det 31	/ehDet VehDet	30 31
		And the state of t			
) Det 21	VehDet	21	3 Det 29	VehDet	29
Det 20	None	20	Det 28	None	28
Det 19	None	19	Det 27	None	27
Det 18	None	18	Det 26	None	26
Det 17	None	17	Det 25	None	25
	Function	Index	-	Function	Index

281 - Fair oaks & Howe Ave

Detector Inputs (BIU 11) 2/6/2020 2:33:54 PM	Det 34 Det 35 Det 36 Det 37 Det 38 Det 39 Det 40	None VehDet None None None None	0 0 0 0 0	Det 42 Det 43 Det 44 Det 45 Det 46 Det 47 Det 48	None VehDet None None None None	0 43 0 0 0 0 0 0
			0 35	Δ		0 43
	Det 33	VehDet	33	Det 41	VehDet	41
		Function	Index		Function	Index

	Det 56	None	0	Det 64	None	0
	Det 55	None	0	Det 63	None	0
	Det 54	None	0	Det 62	None	0
(71.0	Det 53	None	0	Det 61	None	0
Jetector Inputs (BIU 12,	Det 52	None	0	Det 60	None	0
Dete	Det 51	VehDet	51	Det 59	VehDet	59
	Det 50	None	0	Det 58	None	0
	Det 49	VehDet	49	Det 57	VehDet	57
		Function	Index	ı	Function	Index

281 - Fair oaks & Howe Ave

			ı	T/F Inputs (BIU 1)	1)		2/6/2	2/6/2020 2:33:54 PM
	1/0 14	1/0 15	1/0 16	1/0 17	1/0 18	1/0 19	1/0 20	1/0 21
Input	Preempt	Preempt	VehDet	VehDet	None	None	ManCtrl	IntAdv
Index	-	2	57	51	0	0	5	5
1	1/0 22	1/0 23	1/0 24	Z	IN 2	E N	IN 4	IN 5
Input	MinRec	ExtStr	None	StopTm	StopTm	VehDet	VehDet	VehDet
Index	5	5	0	5	5	33	43	49
1	9 N	N 7	8 Z	OPTO 1	OPTO 2	OPTO 3	OPTO 4	
Input	VehDet	VehDet	None	PedDet	PedDet	PedDet	PedDet	
Index	59	41	0	_	2	က	4	
1			'	T/F Inputs (BIU 2)	2)			
	1/0 16	1/0 17	I/O 18	1/0 19	1/0 20	1/0 21	1/0 22	1/0 23
1								

None

None

None

VehDet

Preempt

Preempt

Preempt

Preempt

Input Index

က

O IN 7 None

Alarm

Alarm

35 IN 4 None

LocFlash

IN 2 MaxInh

MaxInh

I/O 24 None

> Input Index

N N

9 <u>N</u>

OPTO 3

OPTO 2 PedDet

9

PedDet

None

0

Input Index

0 8

2

OPTO 1

PedDet

OPTO 4 PedDet

∞

0 N 5 7

0 <u>N</u>

0

281 - Fair oaks & Howe Ave

			-				
1/0 /	8 0/1	6 0/1	1/0 10	1/0 11	1/0 12	1/0 13	1/0 14
None	None	None	None	None	None	None	None
0	0	0	0	0	0	0	0
1/0 15	1/0 16	1/0 17	1/0 18	1/0 19	1/0 20	1/0 21	1/0 22
None	None	None	None	None	None	None	None
0	0	0	0	0	0	0	0
1/0 23	1/0 24	Z	IN 2	IN 3	4 NI	IN 5	9 NI
None	None	None	None	None	None	None	None
0	0	0	0	0	0	0	0
/ NI	8 N	OPTO 1	OPTO 2	OPTO 3	OPTO 4		
None	None	None	None	None	None		
0	0	0	0	0	0		
5	Ç	·	T/F Inputs (BIU 4)		, , ,	<u> </u>	5
2 2	1 2	71 0/1	1/0 13	1/O [4	CI 0/I	91. D/I	/1.0//
None	None	None	None	None	None	None	None
0	0	0	0	0	0	0	0
1/0 18	1/0 19	1/0 20	1/0 21	1/0 22	1/0 23	1/0 24	Z
None	None	None	None	None	None	None	None
0	0	0	0	0	0	0	o
IN 2	N 3	4 NI	IN 5	9 NI	/ NI	8 <u>N</u>	OPTO 1
None	None	None	None	None	None	None	None
0	0	0	0	0	0	0	0
OPTO 2	OPTO 3	OPTO 4					the same and an analysis of th
None	None	None					
0	0	0	·				

Cabinet / MMU Configuration

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					1	-8						9-	16			
Cabinet Type	TS2-2N	MMU Channel Ignore	1 2	3	4	5	6 7	8	9	0			3	4	5	6
MMU Disable	No	Det BIU 1-No Fail Call													5	6
		Det BIU 2-No Fail Call														
		Alt LS Flash														
		Alt Phase Flash														
		Alt Overlap Flash														
		Alt LRV Flash						Π							П	
				,,		-8				,			16			
		CMU Channel Ignore	1 2	3	4	5	6 7	8	9	0	1	2	3	4	5	6
					17	-24	ļ					25-	-32			
			7 8	9	0	1	2 3	4	5	6	7	8	9	0	1	2
					1	-8						9-	16			
		Det IASM1-Det Diag														
					17	-24	Ļ									
					1	-8						9-	16			
		Det IASM2-Det Diag												\Box	\prod	
					17	-24										

Phase / Overlap Outputs

	Phase	Overlap
1	Normal	Normal
2	Normal	Normal
3	Normal	G Fls G
4	Normal	Normal
5	Normal	Normal
6	Normal	Normal
7	Normal	Normal
8	Normal	Normal
9	Normal	Normal
10	Normal	Normal
11	Normal	Normal
12	Normal	Normal
13	Normal	Normal
14	Normal	Normal
15	Normal	Normal
16	Normal	Normal

LRV Outputs

	LRV
1	2 Head
2	2 Head
3	2 Head
4	2 Head
5	2 Head
6	2 Head
7	2 Head
8	2 Head

I/O Logic Channels

	Func1	ldx	Oper	Func2	ldx	Out1	ldx	Out2	ldx	Dly	Ext	Trig Fls
Chan 1	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 2	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 3	OlpYel	3	Or	OlpYel	4	None	0	None	0	0	0	No No
Chan 4	OlpRed	3	And	OlpRed	4	None	0	None	0	0	0	No No
Chan 5	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 6	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 7	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 8	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 9	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 10	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 11	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 12	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 13	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 14	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 15	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 16	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 17	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 18	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 19	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 20	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 21	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 22	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 23	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 24	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 25	None	0	Or	None	0	None	0 z	None	0	0	0	No No
Chan 26	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 27	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 28	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 29	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 30	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 31	None	0	Or	None	0	None	0	None	0	0	0	No No
Chan 32	None	0	Or	None	0	None	0	None	0	0	0	No No

Vehicle Detector 5

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Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Enabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay 0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode No Disc Added Disabled System Enabled
Fail Mode None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2 0.0

Phases	1-8					9-16										
Call Phases						6		ſ								
Yellow Lock Phases																
Red Lock Phases								ľ								
Extend Phases						6										
XSwitch Phases								Ī								
Bike Call Phases																L

Vehicle Detector 7

2/6/2020 2:33:54 PM

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Enabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay	0.0 Exter	nd 0.0 Carryo	over 0.0 Queu	ue Limit 0		
Mode	No Disc	Added	Disabled	System	Enabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic [0 Fail Time	e 0
Delay 2	0.0					

Phases		1.	-8					9-	16		
Call Phases				6							
Yellow Lock Phases						ı					
Red Lock Phases						ı					
Extend Phases				6							
XSwitch Phases						Ī					
Bike Call Phases											

Vehicle Detector 13

2/6/2020 2:33:54 PM

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Vehicle Detector 14

Delay	0.0 Exter	nd 0.0 Carryove	r 0.0 Queue Lir	mit 0	
Mode	No Disc	Added Dis	sabled Sy	stem Disabled	1
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0	Fail Time 0
Delay 2	0.0				
Phases	1-8	9-16	٦		
Call Phases	2				

Yellow Lock Phases Red Lock Phases

> Extend Phases XSwitch Phases Bike Call Phases

2

Vehicle Detector 16

2/6/2020 2:33:54 PM

Delay	0.0 Exte	end 0.0 Carryover 0.0 Queue Limit 0	
Mode	No Disc	Added Disabled System Disabled	
Fail Mode	None	Max Pres 0 No Act 0 Erratic 0 Fail Time 0	
Delay 2	0.0		
Phases	1-8	9-16	
Call Phases	2		
ellow Lock Phases			
Red Lock Phases			
Extend Phases	2		
XSwitch Phases			
Bike Call Phases			
		· · · · · · · · · · · · · · · · · · ·	

Delay	0.0 Exte	nd 0.0 Carryo	ver 0.0 Queue L	imit 0	
Mode	No Disc	Added [Disabled S	ystem Enable	ed
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0	Fail Time 0
Delay 2	0.0				
Phases	1-8	9-16			
Call Phases		8			
∕ellow Lock Phases					
Red Lock Phases					
Extend Phases		8			
XSwitch Phases					
Bike Call Phases					

Vehicle Detector 22

2/6/2020 2:33:54 PM

Delay	0.0 Exter	nd 0.0 Carryove	r 0.0 Queue Lir	mit 0	
Mode	No Disc	Added Dis	sabled Sy	stem Enabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0 Fail Time 0	
Delay 2	0.0				
Phases	1-8	9-16			
Call Phases		8			
ellow Lock Phases			-		
Red Lock Phases			-		
Extend Phases		8			
XSwitch Phases			-		
Bike Call Phases			1		
			_		

Delay 0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode No Disc Added Disabled System Disabled
Fail Mode None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2 0.0

Phases	1-8						9-16									
Call Phases							8	ſ								
Yellow Lock Phases	П							I								
Red Lock Phases	П							I								
Extend Phases							8	ľ								
XSwitch Phases								Ī								
Bike Call Phases								l								

Vehicle Detector 24

2/6/2020 2:33:54 PM

Delay	0.0 Exte	nd 0.0 Carryove	r 0.0 Queue Lin	nit 0	
Mode	No Disc	Added Dis	sabled Sy	stem Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0 Fail Time 0	
Delay 2	0.0				
Phases	1-8	9-16			
Call Phases		8			
ellow Lock Phases					
Red Lock Phases					
Extend Phases		8			
XSwitch Phases					
Bike Call Phases					
			-		

Vehicle Detector 29

Delay	0.0 Exter	nd 0.0 Carryover	r 0.0 Queue Limit 0	
Mode	No Disc	Added Dis	sabled System Disabled	
Fail Mode	None	Max Pres 0	No Act 0 Erratic 0 Fail Time	0
Delay 2	0.0			
Phases	1-8	9-16		
Call Phases				
Yellow Lock Phases				
Red Lock Phases				
Extend Phases	4			
XSwitch Phases				

Bike Call Phases

Vehicle Detector 30

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Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay 0.0	Extend 0.0 Carryove	er 0.0 Queue Lim	nit 0	
Mode No Dis	sc Added Di	sabled Sys	stem Disabled	
Fail Mode None	e Max Pres 0	No Act 0	Erratic 0	Fail Time 0
Delay 2 0.0				

Phases			1-	-8				9-	16		
Call Phases			4								Γ
Yellow Lock Phases		***************************************								 	Γ
Red Lock Phases											
Extend Phases			4								
XSwitch Phases											
Bike Call Phases											

Vehicle Detector 32

2/6/2020 2:33:54 PM

Delay	0.0 Exte	end 0.0 Carryov	er 0.0 Queue Li	mit 0	
Mode	No Disc	Added D	isabled S	ystem Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0	Fail Time 0
Delay 2	0.0				
Phases	1-8	9-16			
Call Phases	4				
ellow Lock Phases					
Red Lock Phases					
Extend Phases	4				
XSwitch Phases					
Bike Call Phases					

Vehicle Detector 33

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases Call Phases	1-8 9-16

Vehicle Detector 35

2/6/2020 2:33:54 PM

Delay	0.0 Extend	d 0.0 Carryover	0.0 Queue Limit	0
Mode	Disconnect	Added Dis	abled Syst	em Disabled
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0 Fail Time 0
Delay 2	0.0			
Phases Call Phases Yellow Lock Phases Red Lock Phases Extend Phases XSwitch Phases Bike Call Phases	1-8	9-16		

Delay	0.0 Exte	nd 0.0 Carryo	ver 0.0 Queu	e Limit 0		
Mode	No Disc	Added I	Disabled	System	Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic	0 Fail Time	0
Delay 2	0.0					

Phases	1-8							9-16									
Call Phases					5												***************************************
Yellow Lock Phases																	
Red Lock Phases									Ī								
Extend Phases					5				Ī								
XSwitch Phases									I								
Bike Call Phases																	

Vehicle Detector 43

2/6/2020 2:33:54 PM

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	Disconnect Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay	0.0 Exter	nd 0.0 Carryov	ver 0.0 Queue	e Limit 0		
Mode	No Disc	Added [Disabled	System	Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic	0 Fail	Γime 0
Delay 2	0.0					

Phases	1-8								9-16								
Call Phases			3														
Yellow Lock Phases																	
Red Lock Phases																	
Extend Phases			3														
XSwitch Phases																	
Bike Call Phases																	

Vehicle Detector 51

2/6/2020 2:33:54 PM

Delay	0.0 Ex	xtend 0.0 Carryove	r 0.0 Queue Limit 0	
Mode	Disconnect	Added Dis	sabled System D	isabled
Fail Mode	None	Max Pres 0	No Act 0 Erratic	0 Fail Time 0
Delay 2	0.0			
Phases	1-8	9-16		
Call Phases		8	7	
ellow Lock Phases			· ·	
Red Lock Phases			1	
Extend Phases		8		
XSwitch Phases			1	
Bike Call Phases			7	
			_	

Vehicle Detector 57

Delay	0.0 Exter	nd 0.0 Carryove	er 0.0 Queue Li	mit 0	
Mode	No Disc	Added Di	sabled S	ystem Disable	ed
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0	Fail Time 0
Delay 2	0.0				

Phases 1-8 9-16

Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

Vehicle Detector 59

Delay	0.0 Exten	d 0.0 Carryove	er 0.0 Queue Lir	mit 0	
Mode	Disconnect	Added Di	sabled Sy	stem Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0 Fail	Γime 0
Delay 2	0.0				
Phases	1-8	9-16			
Call Phases	4		7		
Yellow Lock Phases					
Red Lock Phases			· .		
Extend Phases	4				
XSwitch Phases					
Bike Call Phases					

				Pedestrian Detect	tor 1	2/6/	12020 2:33:54 PN
No Act	0	Max Pres	0	Erratic 0	Fail Mode	None	
Phases/Overlaps		1-8	· · · · · · ·	9-16			
Call Ped Phases				3			
Call Ped Olaps	1						
Call Phases							
Locked Call Phases							
Ped Entry Phases							
Olap Ped Entry Phases							
Ped Cascade Phases							
Call Walk2							
				Dadastrian Datast	ر د س ۲		
N . A. (Mari David E		Pedestrian Detect		Nama	
No Act	0	Max Pres	0	Erratic 0	Fail Mode	None	
Phases/Overlaps		1-8		9-16			
Call Ped Phases	2						
Call Ped Olaps							
Call Phases			$\perp \perp$				
Locked Call Phases							
Ped Entry Phases							
Olap Ped Entry Phases							
Ped Cascade Phases							
Call Walk2							
				Pedestrian Detect	tor 4		
No Act	0	Max Pres	0	Erratic 0	Fail Mode	None	
Phases/Overlaps		1-8		9-16			
Call Ped Phases		4		- 3-10			
Call Ped Olaps							
Call Phases							
Locked Call Phases			+				
Ped Entry Phases			11				
Olap Ped Entry Phases							
Ped Cascade Phases							
Call Walk2							
	LL						
				Pedestrian Detec	tor 6		
No Act	0	Max Pres [0	Erratic 0	Fail Mode	None	
Phases/Overlaps		1-8		9-16			
Call Ped Phases		6					
Call Ped Olaps							
Call Phases							
Locked Call Phases					*		
Ped Entry Phases							
Olap Ped Entry Phases							

						Pe	ede	str	ia	n Detect	or 8				2/6	3/2020	2:33	:54 F	M
No Act	0	M	1ax F	Pres	С		Е	Erra	tic	0	Fail Mo	de 🗌	N	one					
Phases/Overlaps		1-8	3			9-1	6												
Call Ped Phases				8															
Call Ped Olaps																			
Call Phases																			
Locked Call Phases						П													
Ped Entry Phases																			
lap Ped Entry Phases						\prod													
Ped Cascade Phases						П													
Call Walk2																			

Control / Config

2/6/2020 2:33:54 PM

Pattern Mode	Central
Manual Pattern	0 Manual Offset 0
Stop Time Input	Enabled
Aux Switch	StopTm 5
DLS Mode	D4 Time Zone Pac (UTC-8) GPS Thresh 0
Password Timeout	5
Maint Phs Recalls Maint Ped Recalls	1-8 9-16
	Serial 1 Port Configuration
Broadcast Plan/Sync	Disabled Broadcast Time 00:00
Serial Rebroadcast	Disabled Response None
	Serial 2 Port Configuration
Broadcast Plan/Sync	Disabled Broadcast Time 00:00
	Ethernet Port Configuration
Broadcast Plan/Sync	Disabled Broadcast Time 00:00
Serial Rebroadcast	Disabled
	Peer Configuration
Peer 1	0
Peer 2	0
Peer 3	0
Peer 4	0
Peer 5	0
Peer 6	0
Peer 7	

Peer 8

		Lo	ogging			2/6	/2020 2:33:54 PM
VO Log Period	15	1 of 2 Hits (Det BIU 1)					
Power On	Enabled	1 of 2 Hits (Det BIU 2)					
Ext Start	Enabled] 1 of 2 Hits (Det BIU 3)					
Man Control	Enabled	1 of 2 Hits (Det BIU 4)					
Cabinet Door	Enabled	SPmt 1 Req Switch]			
MMU Faults	Enabled	SPmt 2 Req Switch					
BIU Faults	Enabled	SPmt 3 Req Switch]			
Det Faults	Enabled	SPmt 4 Req Switch]			
Coordination	Enabled	Zone 1 Req Switch					
Preempt	Enabled	Zone 2 Req Switch					
Soft Preempt	Disabled	Zone 3 Req Switch]			
Zone	Disabled	Zone 4 Req Switch]			
Speed Traps	Disabled	Zone 5 Req Switch					
		Zone 6 Req Switch]			
		Zone 7 Req Switch]			
		Zone 8 Req Switch]			
		Trap Grp 1 Req Switch					
		Trap Grp 2 Req Switch					
		Trap Grp 3 Req Switch					
		Trap Grp 4 Reg Switch		1	П		

		2/6/2020 2:33:54 PM	
		(Serial Ports)	
Serial Port 1	4		
Baud Rate	9600 8N1	RTS On 0	RTS Off 0
Serial Port 2	0		
Baud Rate	9600 8N1	RTS On 0	RTS Off 0
		(Ethernet)	
IP Address Netmask Broadcast Address Gateway Gateway 2 Gateway 3 Gateway 4 Admin IP Admin Netmask Port Broadcast Port Time Port	172. 31. 54. 160 255. 255. 254. 0 0. 0. 0. 0 172. 31. 54. 254 0. 0. 0. 0 0. 0. 0. 0 0. 0. 0. 0 0. 0. 0. 0 Reply Mode Response	Leases 0 Host Time/Plan	
		(General)	
Controller Address	1 Timeout 0		
Peer Address	0 Timeout 0		
Remote Calls Remote Preempt	Disabled Disabled		
Remote Soft Preempt	Disabled		
Remote Priority	Disabled		

MCE Max 0

Remote MCE

Disabled

CITY OF SACRAMENTO DETECTION SCHEDULE

281 - Fair Oaks at Howe Detection Summary

Dhaa	Controller	1	Dissetion			Controller	/ Detector Type / Function
Phas	Det. Input	Location	Direction	Extend	Delay	Passage	Notes
Ø	1						
Ø	2						
Ø	3						
Ø	4						
Ø6	5	Rear	EB			×	D1
Ø6	6	Rear	EB			x	D2
Ø6	7	Rear	EB			×	D3
ø6	8	Mid	EB			x	D4
ø	9	IVIIG	LO				54
ø	10						
ø	11						
ø	12						
Ø2		D	14/0			100	
Ø2	13	Rear	WB			Х	D1
	14	Rear	WB			X	D2
Ø2	15	8.61.1	NA/P			2 -100 - 2	D2
Ø	16	Mid	WB			Х	D3
Ø	17						
Ø	18						
Ø	19						
Ø	20		4.				
Ø4	21	Rear	SB			×	D1
Ø4	22	Rear	SB			×	D2
Ø4	23	Rear	SB			×	D3
Ø4 Ø	24	Mid	SB			х	D4
Ø	25						
Ø	26						
Ø	27						
Ø	28						
Ø8	29	Rear	NB			х	D1
Ø8	30	Rear	NB			х	D2
Ø8	31	Rear	NB			x	D3
Ø8	32	Mid	NB			x	D4
Ø1	33	Left	E-N			х	Door Switch & Video
Ø1	34	LCIT	LIV			^	Door Switch & video
Ø6	35	Front	EB			x	Door Switch & Video; Disconnect
Ø6	36	riont	LD				Door Switch & video, Disconnect
Ø6	37					-	
Ø6	38		-				
Ø6	39		-				
			-				
	40						5 6 3 1 8 3 5 1
	41	Left	W-S			Х	Door Switch & Video
Ø5	42						
Ø2	43	Front	WB			х	Door Switch & Video; Disconnect
Ø2	44					1000	
Ø2	45						
Ø2	46						
Ø2	47						
Ø2	48						
Ø3	49	Left	N-W			X	Door Switch & Video
ØЗ	50						
Ø8	51	Front	NB			х	Door Switch & Video; Disconnect
Ø8	52						
Ø8	53						
Ø8	54						
Ø8	55						
	56						
Ø8 Ø7	57	Left	S-E			х	Door Switch & Video
Ø7	58						
Ø4	59	Front	SB			x	Door Switch & Video; Disconnect
Ø4	60	HOIR	35				Joseph Striker & Video, Disconnect
Ø4	61						
Ø4	62						
Ø4							
Ø4 Ø4	63						
0.4	64	s D4 10-14					

281 - Howe at Fair Oaks D4 10-14-19

McCain D-4

TRAFFIC SIGNAL CONTROLLER PROGRAM CHART

<u>N/S</u>	Howe/I	Power Inr	n Rd	<u>E/W</u>	Folsor	n Blvd	
INTERSEC	TION #:	324	System:		IP /	\ddress:	
Pre	pared by:	smb	Approved by:	Draft	Date Imple	mented:	10/21/2020
		Ø8	Ø3	↑ ↑ ↑ Ø 4	Power Inn Rd	Ø2	
			Ø2 — ———————————————————————————————————	Ø4	ø3	A	
		e e	Ø6 → ← →	Ø7	Ø8	Ŋ	1

324 - Folsom & Power Inn

Phase Timing

10/21/2020 1:50:10 PM

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Min Green	6	6	6	6	6	6	6	6	0	0	0	0	0	0	0	0
Veh Ext	1.5	2.5	1.5	3.2	1.5	3.2	1.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Green 1	35	40	60	50	35	40	35	60	0	0	0	0	0	0	0	0
Max Green 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max Green 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max Ext	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellow	3.5	4.7	3.5	4.3	3.5	4.7	3.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Clr	0.8	0.9	1.6	0.6	0.5	1.0	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adv Flash	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bike MG	11	11	13	10	11	11	13	10	0	0	0	0	0	0	0	0
Walk	0	7	0	7	0	7	0	7	0	0	0	0	0	0	0	0
Ped Clr	0	30	0	29	0	27	0	23	0	0	0	0	0	0	0	0
Walk2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sol DW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Early Wlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Wlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Added	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reduce After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TTReduce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Neg Ped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AP Disc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Ped Clr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Return Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

324 - Folsom & Power Inn

Phase Options

10/21/2020 1:50:10 PM

Phases	1-8									9-16						
Min Recalls																
Max Recalls																
Ped Recalls																
Soft Recall				4				8								
Dual Entry																
Red Rest																
Walk Rest																
Walk Expand																
Ped Recycle																
Sim Ped Term																
PC Thru Clr																
Guar Passage																
No Simult Gap		2		4		6		8								
Yel Lock																
Red Lock																
PhaseNext Lock																
No Term Call																
Cond Serv	1		3		5		7									
CS Enable																
Cond Reserve																
Reserve																
Veh Omit																
Ped Omit																
Perm Phase																
Protect Calls																
Protect Calls 2																
Flash Entry																
Flash Exit																
Flash Exit Yel																
Flash Exit Red																
Ped Scramble																
No Min Yel																
No Min Red Rev																
Max Scramble Walk																
Flash Yellow																
Flash FYA																
CNA 1																
CNA 2																
		-		-					ı L		-					

Phase Startup Options

10/21/2020 1:50:10 PM

Startup Flash	0							M	od	е			Re	d-	>Y	el	
Startup All Red	6						Υ	'el	llo	W	(0.0					
Phases		_	1-	-8							9-	16					
Startup Phases			4			8											
Startup Yellow			4			8											
Startup Red																	
Startup No Walk	2	2	4		6	8											
Startup Next																	
Startup Yel Fls																	
Startup FYA																	
No Veh Call																	
No Ped Call	2	2	4		6	8											
Startup Yel Fls Startup FYA No Veh Call	2	2	4		6	8											

Phase Startup Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Unit

Red Revert 2.0 Ped Protect No AdvFls in Flash No

Ring Sequence / Conflicting Phases

10/21/2020 1:50:10 PM

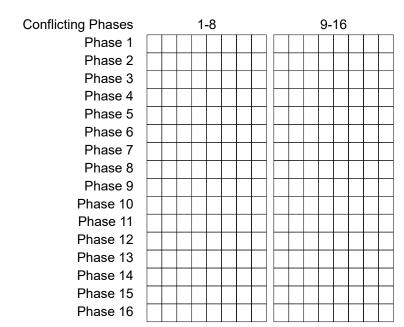
Ringgroup 1

Ring 1 Ring 2

Ringgroup 2

Custom Sequences

ucrices																
Seq 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



MCE Options

Phases	1	-8			9-	16		
MCE Ped Protect								
MCE Veh Call								
MCE Ped Call								
MCE Veh Omit								
MCE Ped Omit								
MCE Veh Sync								
MCE Ped Sync								
MCE Halt Don't Walk								

LRV Phases		1.	-8		
MCE LRV Term Early					

FYA/FRA

				•				
FYA	1	2	3	4	5	6	7	8
Prot Phs	0	0	0	0	0	0	0	0
Opp Thru	0	0	0	0	0	0	0	0
Start Phs	0	0	0	0	0	0	0	0
Opp Ped Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Min FYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Skip Prot Red	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled		Disabled
Head Mode	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1
Veh Phase	0			Pe	d Hawk	1		
Ped Phase	0							
Flash Yel	0.0	Dai	rk Signal	Ye	S			
Flash Delay	0.0		arryover	0.0				
Green Mode	Norn		,					
				_		_		
				Pe	d Hawk	2		
Veh Phase	0							
Ped Phase	0							
Flash Yel	0.0	Dai	rk Signal	Ye	S			
Flash Delay	0.0	Flash C	arryover	0.0				
Green Mode	Norn	nal	-					
				_	411.	0		
				Pe	d Hawk	3		
Veh Phase	0							
Ped Phase	0							
Flash Yel	0.0	Dai	rk Signal	Ye	S			
Flash Delay	0.0	Flash C	arryover	0.0				
Green Mode	Norn	nal						
		-		D-	d Havels	1		
				PE	d Hawk	4		
Veh Phase	0							
Ped Phase	0							
Flash Yel	0.0	Dai	rk Signal	Ye	S			
Flash Delay	0.0	Flash C	arryover	0.0				
Green Mode	Norn	nal						

Overlap Startup Options

10/21/2020 1:50:10 PM

Overla	ps
Startup Overlap Gre	en
Startup Overlap Yello	ow

		1-	-8				9-	16		

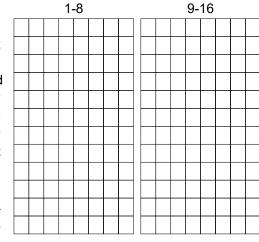
Overlap Startup Timing

	Overlap
	Start Walk
Start	Min Green

)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
																0
l	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Overlap Unit Options

Overlaps
Overlap Ped Recalls
MCE Olap Ped Protect
MCE Olap Ped Calls
MCE Olap Ped Expand
No Min Yellow
No Min Red Rev
Flash Yellow
No Conflict
Pre Signal
Perm Red
Perm FYA
Perm FRA



Coordination Options

Sync Time	00:00	RTC Set Time	00:00
Transition Mode	Best 2	Ped Adjust	None
Trans Short %	25	Trans Long %	35
Offset Reference	Crd Grp End	Short Cycles	0
Dual Entry	Strict	Overlap F/O	Disabled
Master Sync Mode	RTC	Master Sync Length	0
Adapt Thresh	3	Adapt Step	2
External Plan Max	0		
Hardwire No Match	Sched	Hardwire Sync Fail	0
Override Omit/Recall	No		
Phases	1-8	9-16	
No Trans Recall			
Trans Ped Recall			
Trans Phases			

Hardwire Plans

Hardwire	Plan Select	Pattern	Offset	Mode
Plan 1		0	0	Hardwire
Plan 2		0	0	Hardwire
Plan 3		0	0	Hardwire
Plan 4		0	0	Hardwire
Plan 5		0	0	Hardwire
Plan 6		0	0	Hardwire
Plan 7		0	0	Hardwire
Plan 8		0	0	Hardwire
Plan 9		0	0	Hardwire
Plan 10		0	0	Hardwire
Plan 11		0	0	Hardwire
Plan 12		0	0	Hardwire
Plan 13		0	0	Hardwire
Plan 14		0	0	Hardwire
Plan 15		0	0	Hardwire
Plan 16		0	0	Hardwire
Plan 17		0	0	Hardwire
Plan 18		0	0	Hardwire
Plan 19		0	0	Hardwire
Plan 20		0	0	Hardwire
Plan 21		0	0	Hardwire
Plan 22		0	0	Hardwire
Plan 23		0	0	Hardwire
Plan 24		0	0	Hardwire
Plan 25		0	0	Hardwire
Plan 26		0	0	Hardwire
Plan 27		0	0	Hardwire
Plan 28		0	0	Hardwire
Plan 29		0	0	Hardwire
Plan 30		0	0	Hardwire
Plan 31		0	0	Hardwire
Plan 32		0	0	Hardwire

Soft Interconnect

Mode		Slav	'e		Rer	not	e l	nt	Nι	ım	be	er	0
Yield Delay	0												
Yield Duration	0												
Permissive	0												
Local Hold Limit	0												
Phases		1	-8				ç	9-1	6				
Local Control Phases													
Local Hold Phases				\Box									
Local Perm Phases				\Box									
Local Call Phases				П									
Remote Perm Phases													
Remote Hold Phases			Ħ	\Box					T				

Preempt Inputs

10/21/2020 1:50:10 PM

Preempt Input
Delay
Checkout Limit
Locked
Interlock
Input Number
Input Priority
Delay Mode

1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
No	No	No	No	No	No	No	No	No	No
Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
1	2	3	4	5	6	0	0	0	0
All	All	All	All	All	All	All	All	All	All
Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp

Preempt Priority

Preempt	1	2	3	4	5	6	7	8	9	10
Priority	0	0	0	0	0	0	0	0	0	0

Remote Preemption

Remote Preempt	RM 1	RM 2	RM 3	RM 4	RM 5	RM 6	RM 7	RM 8
Int Number	0	0	0	0	0	0	0	0
PE Number	0	0	0	0	0	0	0	0
Mode	Dis							
Slack	0	0	0	0	0	0	0	0
Travel Time	0	0	0	0	0	0	0	0
Alt TT 1	0	0	0	0	0	0	0	0
Alt TT 2	0	0	0	0	0	0	0	0
Alt TT 3	0	0	0	0	0	0	0	0
Alt TT 4	0	0	0	0	0	0	0	0
Alt TT 5	0	0	0	0	0	0	0	0
Alt TT 6	0	0	0	0	0	0	0	0
Alt TT 7	0	0	0	0	0	0	0	0

								Ρ	ree	mp	t 2	(Configuration)		10/2	1/20	020	1:5	0:10	PM
Enabled			Yes					D	wel	I Mo	de	Normal	Outpu	t Mode			All		
Output2 Mode			All						Fail	Acti	on	Preempt Off	Exi	t Mode		Ν	lorm	al	
Override Flash		,	Yes			С	han	ge l	Pha	sen	ext	Yes							
Enable Phases Preempt Inputs	1	2	1-8	8 6				(9-16			LRV Disa LRV Dwell Fla LRV O LRV No	mit	1-8			ax elay		0
						Р	ree	emi	pt 2	2 (Ti	mir	ıg/Phases/Overlap	s)						
DI (0 I				_						•		9.1	- /						
Phases/Overlaps			1-8	3					9-16) T T		Start Gre	en 0	ç	Star	t W	alk	С	
Omit Olap Grn Clr Phs EWlk to Grn	\mathbb{H}					+ -						Start Gre	CII U		лаі		air		
TClr 1 Veh Phases	\vdash					$+$ \vdash								Sta	rt P	ed	Clr	С)
TClr 1 Ped Phases	H					$+$ \vdash				+		Track Clea	r 1 0	Trac	sk C	دماد	r O	С	
TClr 1 Olap	H					+				\Box		Hack Clea		Hac	, N. C	лса	1 2		
TClr 1 Olap Ped	H					$\dashv \vdash$				\forall		TC1 Exte	end 0		TC	1 M	lax	С)
TClr 2 Veh Phases	Ħ				Ħ	1				Ħ		E-24 D. J		_		II			
TClr 2 Ped Phases	Ħ				Ħ	1				Ħ		Exit Ped	Clr 0		XII	Yell	ow	0.	U
TClr 2 Olap												Exit R	Red 0.0						
TClr 2 Olap Ped																			
Init Dwell Phases												Min Dw	vell 5	Min	ιDι	urati	ion		0
Dwell Veh Phases												Dwell Exte	end 3						
Dwell Ped Phases	Ш											DWOII EXIC	ild 0						
Dwell Olap						_ _				Ш		Max Dv	vell 55		Ma	ax C	all		0
Dwell Olap Ped						4						Dagamya linh Car		I					
Exit Veh Phases						4						Reserve Inh Sa	me 0						
Exit Ped Phases						4				Ш		Reserve Inh	All 0						
Exit Olap						4				Ш									
Exit Olap Ped	Н.				Н,	$\exists \vdash$				Ш		De	lay 0						
Zero Phase Walk	1	2	4	6	8	<u> </u>				Н		Phases/Overlaps	1-8				9-1	6	
Zero Phase Ped Clr Zero Phase Green						4				\vdash		TClr 1 FR Olap			\neg	\top	.		
Zero Olap Walk					\vdash	4 -				Н		TClr 2 FR Olap			+	+			
Zero Olap Walk Zero Olap Ped Clr						4 -				Н		Dwell FR Olap			+				
Zero Olap Green						+						TCIr 1 FYA		+	-	+			
Dwell-Phase Red					\vdash	$+$ \vdash				\vdash		TClr 2 FYA		+	+	+			
Dwell-Phase Red Flash					\vdash	+ -		_		++		Dwell FYA			+				
Dwell-Phase Yel Flash	H	+	++			$+\vdash$		+		++	+								
Dwell-Olap Red Flash	H	+	+			$+\vdash$		+		++	+								
Dwell-Olap Yel Flash	H	+	++	+		$+$ \vdash		+	+	++	+								
Dwell-Ped Dark	H	+	++	+		$+ \vdash$		-	+	++	+								
Dwell-Olap Ped Dark	H		++			$+$ \vdash				+									
Dwon Olap i ed Dark						┙┕													

Enable										Pr	ree	mp	t 3	(Configuration)		10/2	1/2	020	1:5	0:1	0 PM
1-8	Enabled			Υє	es					D١	well	Мо	de	Normal	Output	Mode			Al		
1-8	Output2 Mode			Α	dl .					F	-ail	Acti	on	Preempt Off	Exit	Mode		١	lorn	nal	
Enable Phases Preempt Inputs Comparison	Override Flash			N	lo			Ch	ang	e F	Phas	sene	ext	Yes							
Phases/Overlaps										9	-16			LRV Dwell Flas LRV Om	sh it	1-8					
Omit Olap Grn Cir Phs EWik to Grn TCir 1 Veh Phases TCir 1 Ped Phases TCir 1 Olap TCir 1 Olap Ped TCir 2 Veh Phases TCir 2 Olap TCir 2 Veh Phases TCir 2 Olap TCir 2 Olap Ped Init Dwell Phases Dwell Phases Dwell Phases Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Ped Cir Dwell Cir Dwell C								Pr	eeı	mp	ot 3	(Ti	mir	g/Phases/Overlaps)						
Omit Olap Grn Cir Phs EWik to Grn TCir 1 Veh Phases TCir 1 Ped Phases TCir 1 Olap TCir 1 Olap Ped TCir 2 Veh Phases TCir 2 Olap TCir 2 Veh Phases TCir 2 Olap TCir 2 Olap Ped Init Dwell Phases Dwell Phases Dwell Phases Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Ped Cir Dwell Cir Dwell C	Dhagas/Overland				10						16	•			•						
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TCIr 1 Veh Phases TCIr 1 Ped Phases TCIr 1 Dap Ped TCIr 1 Dap Ped TCIr 2 Veh Phases TCIr 2 Ped Phases TCIr 2 Olap TCIr 2 Clap Ped Init Dwell Phases Dwell Veh Phases Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Hed Cir Min Dwell Max Dwell Min D					+	H		-													
TCIr 1 Ped Phases TCIr 1 Olap TCIr 1 Olap Ped TCIr 1 Olap Ped TCIr 1 Olap Ped TCIr 2 Veh Phases TCIr 2 Olap Ped TCIr 2 FPA TCIr 2 FYA TCIr 2					+	H		\vdash								Sta	rt F	ed.	Clr	()
TCIr 1 Olap Ped TCIr 1 Olap Ped TCIr 1 Olap Ped TCIr 1 Olap Ped TCIr 2 Veb Phases TCIr 2 Ped Phases TCIr 2 Olap Ped Init Dwell Phases Dwell Olap Ped Exit Veb Phases Exit Dlap Exit Olap Exit Olap Ped Exit Olap Ped Zero Phase Ped CIr Zero Phase Green Zero Olap Ped CIr Zero Olap Ped CIr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Ped Dark	-					H								Track Clear	1 0	Trac	k (lea	ır 2		<u> </u>
TClr 2 Veh Phases TClr 2 Ped Phases TClr 2 Olap Ped Init Dwell Phases Dwell Veh Phases Dwell Olap Ped Exit Veh Phases Exit Olap Exit Veh Phases Exit Olap Exit Olap Ped Zero Phase Ped Clr Zero Olap Walk Zero Olap Walk Zero Olap Walk Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Plase Red Flash Dwell-Olap Red Flash Dwell-Plase Red Flash Dwell-Phase Red Flash Dwell-Plase Red Flash Dwell-Plase Yel Flash Dwell-Plase Red Flash Dwell-Plase Red Flash Dwell-Plase Red Flash Dwell-Plase Yel Flash	TClr 1 Olap					H								Track Clour		mac		,,,,,		`	
TCIr 2 Ped Phases TCIr 2 Olap Ped Init Dwell Phases Dwell Veh Phases Dwell Olap Ped Exit Veh Phases Exit Ped Cir O Exit Yellow 0.0 Exit Yellow 0.0 Exit Yellow 0.0 Exit Yellow 0.0 Exit Ped Cir O Exit Yellow 0.0 Exit Red 0.0 Min Dwell 5 Min Duration 0 Dwell Extend 3 Dwell Extend 3 Max Dwell 55 Max Call 0 Reserve Inh Same 0 Reserve Inh All 0 Reserve Inh All 0 Delay 0 Phase Ped Cir Zero Phase Ped Cir Zero Olap Walk Zero Olap Walk Zero Olap Ped Cir Zero Olap Green Dwell-Phase Red Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Plase Ped Dark	TClr 1 Olap Ped													TC1 Exter	ıd 0		TC	1 N	1ax)
TCIr 2 Olap Ped Init Dwell Phases Dwell Phases Dwell Phases Dwell Olap Ped Exit Veh Phases Exit Olap Ped Zero Phase Ped Cir Zero Olap Red Flash Dwell-Phase Red Flash Dwell-Phase Red Flash Dwell-Phase Red Flash Dwell-Plase Yel Flash Dwell-Plase Yel Flash Dwell-Olap Red Flash Dwell-Plase Yel Flash Dwell-Plase Red Flash Dwell-Plase Red Flash Dwell-Olap Red Flash Dwell-Olap Red Flash Dwell-Olap Red Flash Dwell-Olap Red Flash Dwell-Plase Yel Flash	TClr 2 Veh Phases					Ħ								Evit Dad C	·lr 0	_	vit	Vall	O\4/		0
TCIr 2 Olap Ped Init Dwell Phases Dwell Veh Phases Dwell Veh Phases Dwell Olap Dwell Olap Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Olap Exit Olap Ped Zero Phase Ped Clr Zero Phase Green Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash	TCIr 2 Ped Phases													Exit Ped C	oli U	_	ΧIL	ren	Ow	U	.0
Init Dwell Phases Dwell Veh Phases Dwell Ped Phases Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Olap Ped Zero Phase Walk Zero Phase Green Zero Olap Walk Zero Olap Ped Cir Zero Olap Green Dwell-Phase Red Dwell-Phase Red Dwell-Plase Red Dwell-Olap Red Flash Dwell-Olap Red Flash Dwell-Olap Red Flash Dwell-Plase Yel Flash Dwell-Plase Red Dark	-													Exit Re	ed 0.0						
Dwell Veh Phases Dwell Ped Phases Dwell Olap Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Olap Exit Olap Ped Zero Phase Walk Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Plase Red Flash Dwell-Olap Red Flash Dwell-Pdase Red Dark														M. 5			_				•
Dwell Ped Phases Dwell Olap Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Olap Ped Zero Phase Walk Zero Phase Green Zero Olap Ped Clr Zero Olap Ped Clr Zero Olap Ped Clr Zero Olap Ped Clr Zero Olap Red Flash Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Plash Dwell-Ped Dark Dwell Extend 3 Max Dwell 55 Max Call 0 Reserve Inh All 0 Reserve Inh All 0 Phases/Overlaps TClr 1 FR Olap TClr 2 FR Olap Dwell FR Olap TClr 1 FYA TClr 2 FYA Dwell FYA Dwell FYA Dwell FYA						Ш								Min Dwe	ell 5	Min	Di	urat	ion		0
Dwell Olap Dwell Olap Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Olap Exit Olap Ped Zero Phase Walk Zero Phase Green Zero Olap Walk Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Pdase Xel Dark Dwell-Pdase Sed Flash Dwell-Plase Red Flash Dwell-Olap Yel Flash Dwell-Plase Red Flash Dwell-Plase Yel Flash Dwell-Plase Red Flash Dwell-Plase Yel Flash		1				6		<u> </u>						Dwell Exter	d 3						
Dwell Olap Ped Exit Veh Phases Exit Ped Phases Exit Olap Exit Olap Ped Zero Phase Walk Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark Reserve Inh Same Reserve Inh All Delay Delay Delay O Phases/Overlaps TClr 1 FR Olap TClr 2 FR Olap Dwell FR Olap TClr 1 FYA TClr 2 FYA Dwell FYA Dwell FYA Dwell FYA Dwell-Plash Dwell-Plash Dwell-Plash Dwell-Plash Dwell-Plash Dwell-Ped Dark					\perp	Ш															
Exit Veh Phases Exit Ped Phases Exit Olap Exit Olap Ped Zero Phase Walk Zero Phase Green Zero Olap Ped Clr Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark Till	-					\sqcup								Max Dwe	ell 55		Ma	ax C	Call		0
Exit Ped Phases Exit Olap Ped Zero Phase Walk Zero Phase Ped Clr Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Dwell-Phase Yel Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark Exit Olap Reserve Inh All Delay Delay Delay Delay Delay Delay Delay TClr 1 FR Olap TClr 2 FR Olap TClr 2 FR Olap TClr 1 FYA TClr 2 FYA Dwell FR Olap TClr 1 FYA TClr 2 FYA Dwell FR Olap TClr 2 FYA Dwell FYA Dwell FYA Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Ped Dark	•													Pasarya Inh Sam							
Exit Olap Ped Zero Phase Walk Zero Phase Ped Clr Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark Exit Olap Ped Delay Delay Delay Delay Delay Delay Delay Delay TClr 1 FR Olap TClr 2 FR Olap Dwell FR Olap TClr 1 FYA TClr 2 FYA Dwell FYA Dwell FYA Dwell FYA Dwell FYA Dwell-Phase Yel Flash Dwell-Olap Yel Flash Dwell-Ped Dark		1				6								Neserve IIII Saii	le 0						
Exit Olap Ped Zero Phase Walk Zero Phase Ped Clr Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark					-	\sqcup		-						Reserve Inh A	\II 0						
Zero Phase Walk Zero Phase Ped Clr Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Yel Flash Dwell-Olap Red Flash Dwell-Ped Dark Zero Phase Walk 2 4 6 8 Phases/Overlaps TClr 1 FR Olap TClr 2 FR Olap Dwell FR Olap TClr 1 FYA TClr 2 FYA Dwell FYA TClr 2 FYA Dwell FYA Dwell-Phase Yel Flash Dwell-Ped Dark	•					\perp								5.							
Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Yel Flash Dwell-Olap Yel Flash Dwell-Ped Dark Zero Phase Green Zero Olap Walk Zero Olap Walk Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Ped Dark Zero Olap Green Dwell-Phase Red Flash Dwell-Plase Yel Flash Dwell-Ped Dark	·		2		1	6	Q	-		+			-	Dela	y 0						
Zero Phase Green Zero Olap Walk Zero Olap Ped Clr Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark			_	-	+	-	- 0			+				Phases/Overlaps	1-8				9-1	16	
Zero Olap Walk Zero Olap Ped Cir Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark Zero Olap Ped Cir Zero Olap Green Dwell FR Olap TCir 1 FYA TCir 2 FR Olap Dwell FR Olap TCir 1 FYA Dwell FYA Dwell FYA						+								•							
Zero Olap Ped Cir Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark Dwell-Ped Dark						+		┨													
Zero Olap Green Dwell-Phase Red Dwell-Phase Red Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark	· ·					\Box								Dwell FR Olap							
Dwell-Phase Red Dwell-Phase Red Flash Dwell-Phase Yel Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Phase Yel Flash Dwell-Phase Yel Flash	·													TClr 1 FYA							
Dwell-Phase Red Flash Dwell-Phase Yel Flash Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark	•					\Box								TClr 2 FYA							
Dwell-Olap Red Flash Dwell-Olap Yel Flash Dwell-Ped Dark						Ħ								Dwell FYA							
Dwell-Olap Yel Flash Dwell-Ped Dark			\forall			+				\dagger	+							•		•	
Dwell-Olap Yel Flash Dwell-Ped Dark	Dwell-Olap Red Flash				\top	$\dagger \dagger$		1													
Dwell-Ped Dark	•		$ \cdot $		\top	$\dagger \dagger$		1					T								
Dwell-Olap Ped Dark						$\dagger \dagger$		1													
	Dwell-Olap Ped Dark																				

							I	⊃re	em	pt 4	(Configuration)	10/2	21/2020 1:50:10 PM
Enabled		,	Yes					Dwe	ell M	ode	Normal	Output Mode	All
Output2 Mode			All					Fa	il Ac	tion	Preempt Off	Exit Mode	Normal
Override Flash			No			Cha	ange	Ph	aseı	next	Yes		
Enable Phases Preempt Inputs		3	1-8	8	8		een	9-1		Γimiι	LRV Disable LRV Dwell Flash LRV Omit LRV No Ye ng/Phases/Overlaps)		Max 0 Delay 0
Phases/Overlaps			1-8	R				9-1	6				
Omit Olap Grn Clr	П		I	, 				J-1	-		Start Green	0	Start Walk 0
Phs EWlk to Grn	Н			+	H	+		Н			-		
TClr 1 Veh Phases						+					_	Sta	art Ped Clr 0
TClr 1 Ped Phases						+					Track Clear 1	O Tro	ok Claar 2
TClr 1 Olap						+		H			Track Clear 1	0 Tra	ck Clear 2 0
TClr 1 Olap Ped			+			+		H			TC1 Extend	0	TC1 Max 0
TClr 2 Veh Phases						+					Evit Dad Ch		Tvit Vollow 0.0
TClr 2 Ped Phases						1					Exit Ped Cli	0	Exit Yellow 0.0
TClr 2 Olap											Exit Red	0.0	
TClr 2 Olap Ped											Min Door		- Dti
Init Dwell Phases											Min Dwel	I 5 Mi	n Duration 0
Dwell Veh Phases		3	3		8						Dwell Extend	3	
Dwell Ped Phases						$\bot \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					_		
Dwell Olap						$\bot \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					Max Dwel	55	Max Call 0
Dwell Olap Ped						$\bot \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					Bosonia Inh Sama		
Exit Veh Phases		3	3		8						Reserve Inh Same	0	
Exit Ped Phases						$\bot \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$					Reserve Inh Al	0	
Exit Olap						\bot					_		
Exit Olap Ped					Щ	4		Ш			Delay	0	
Zero Phase Walk		2	4	6	8	4					Phases/Overlaps	1-8	9-16
Zero Phase Ped Clr				+		+		Н	_		TClr 1 FR Olap	1-0	9-10
Zero Phase Green						+		Н			TClr 2 FR Olap		
Zero Olap Walk						+					Dwell FR Olap		
Zero Olap Ped Clr						+					TClr 1 FYA		
Zero Olap Green Dwell-Phase Red						+					TClr 2 FYA		
Dwell-Phase Red Flash	H	-	++	+	\vdash	+		\vdash	-		Dwell FYA	++++	
Dwell-Phase Yel Flash	\vdash		++	+	\vdash	+		\vdash	+		-		
Dwell-Olap Red Flash	\vdash	-	++	+	\vdash	+		\vdash	+		_		
Dwell-Olap Yel Flash	\vdash		++	+	\vdash	+		$\vdash \vdash$	+		_		
Dwell-Ped Dark	\vdash		++	+	\vdash	+		\vdash	+		_		
	\vdash		+	+		+		\vdash	+		_		
Dwell-Olap Ped Dark													

								Pre	emp	t 5	(Configuration)		10/21/2	020 1:	50:10 PM	i
Enabled			Yes					Dwe	ell Mo	de	Normal	Output M	ode	Α	II	
Output2 Mode			All					Fa	il Act	ion	Preempt Off	Exit M	ode	Nor	mal	
Override Flash			No			(Chang	e Ph	asen	ext	Yes					
Enable Phases Preempt Inputs			1-8	5	7		Preer	9-1		imir	LRV Disable LRV Dwell Flash LRV Omit LRV No Yel		-8	Max Dela		
Phases/Overlaps			1-8	3				9-1	6							
Omit Olap Grn Clr			$\overrightarrow{\Box}$		П			Т Т	ŤТ		Start Green	0	Sta	rt Walk	0	
Phs EWIk to Grn			+			\dashv		++	+							
TClr 1 Veh Phases			+		H	\dashv		+					Start F	Ped Clr	0	
TClr 1 Ped Phases			++			4		++		+	Tour de Ole en 4		T l. /	21 0		
TClr 1 Olap		+	+++			4		+		+	Track Clear 1	0	Track (Jiear 2	0	
TClr 1 Olap Ped			++			4		++		+	TC1 Extend	0	TC	1 Max	0	
TClr 2 Veh Phases			++			4		++		+	- TOT Extorio) i iviax		
TClr 2 Ped Phases		\perp	++			4		++		-	Exit Ped Clr	0	Exit	Yellow	0.0	
			+			4		+								
TClr 2 Olap						4					Exit Red	0.0				
TClr 2 Olap Ped			++			4		++			Min Dwell	5	Min D	uration	0	1
Init Dwell Phases			1		-	41		++			Willi Dwell	3	ט וווווו	uration]
Dwell Veh Phases			4		7	4		\perp			Dwell Extend	3				
Dwell Ped Phases			\perp			4		$\perp \perp$								_
Dwell Olap						_					Max Dwell	55	M	ax Call	0	
Dwell Olap Ped																
Exit Veh Phases			4		7						Reserve Inh Same	0				
Exit Ped Phases											Reserve Inh All	0				
Exit Olap											TRESCIVE IIII AII	0				
Exit Olap Ped											Delay	0				
Zero Phase Walk		2	4	6		3										
Zero Phase Ped Clr											Phases/Overlaps	1-8		9-	16	_
Zero Phase Green						TI					TCIr 1 FR Olap					
Zero Olap Walk						TI					TCIr 2 FR Olap					
Zero Olap Ped Clr						11					Dwell FR Olap					٦
Zero Olap Green						11					TClr 1 FYA					٦
Dwell-Phase Red						7					TClr 2 FYA					٦
Dwell-Phase Red Flash	\vdash	+	+			\exists		+	+		Dwell FYA					٦
Dwell-Phase Yel Flash	\vdash	+	+	-	+	\dashv		++		+	-			- 1 - 1		_
Dwell-Olap Red Flash		+	++		H	\exists		++	++	+	-					
Dwell-Olap Yel Flash	\vdash	+	++	+	\vdash	\dashv		++	+	+	-					
Dwell-Ped Dark		+	++		H	+		++	+	+	-					
Dwell-Olap Ped Dark	\vdash	+	++		\vdash	+		++	+	+	_					
Dwell-Olap red Dalk					1 1				1 1	- 1						

Soft Preempt 1 - Misc

Dwell Step	0		O۱	ver	rid	le S	SP	ΕF	las	h			No)	
Override Steps [
Phases/Overlaps			1-	-8							9-	16			
Dwl Phase Red															
Dwl Phase Red Flash															
Dwl Phase Yel Flash															
Dwl Olap Red Flash															
Dwl Ped Dark															
Dwl Olap Ped Dark															
Dwl Zero Phase Ped Clr															
Dwl Zero Phase Green															
Dwl Zero Olap Ped Clr															
Dwl Zero Olap Green															

Soft Preempt 2 - Misc

Dwell Step	0		O۱	ver	rid	e S	SP	Έ	F	las	h			No)	
Override Steps [
Phases/Overlaps			1-	-8								9-	16			
Dwl Phase Red] [
Dwl Phase Red Flash																
Dwl Phase Yel Flash																
Dwl Olap Red Flash																
Dwl Ped Dark																
Dwl Olap Ped Dark																
Dwl Zero Phase Ped Clr																
Dwl Zero Phase Green																
Dwl Zero Olap Ped Clr																
Dwl Zero Olap Green																

Soft Preempt 3 - Misc

Dwell Step	0	O۱	erric	le SF	PΕ	Flas	sh			No)	
Override Steps												
Phases/Overlaps		1-	8					9-	16			
Dwl Phase Red					1							
Dwl Phase Red Flash					11							
Dwl Phase Yel Flash					11							
Dwl Olap Red Flash					11							
Dwl Ped Dark					11							
Dwl Olap Ped Dark					11							
Dwl Zero Phase Ped Clr					11							
Dwl Zero Phase Green					11							
Dwl Zero Olap Ped Clr					11							
Dwl Zero Olap Green					11							
	-							-		 -		

Soft Preempt 4 - Misc

Dwell Step	0 Override SPE Flash						No							
Override Steps [
Phases/Overlaps				1-	8					9-	16			
Dwl Phase Red														
Dwl Phase Red Flash														
Dwl Phase Yel Flash														
Dwl Olap Red Flash														
Dwl Ped Dark														
Dwl Olap Ped Dark														
Dwl Zero Phase Ped Clr														
Dwl Zero Phase Green														
Dwl Zero Olap Ped Clr														
Dwl Zero Olap Green														
	-	\rightarrow		_		_	 -	 _	 				 -	

TOD Pattern Events

	Time	DOW	Holidays	Mode	Pattern	Offset
Event 1	00:00			Sched	0	0
Event 2	00:00			Sched	0	0
Event 3	00:00			Sched	0	0
Event 4	00:00			Sched	0	0
Event 5	00:00			Sched	0	0
Event 6	00:00			Sched	0	0
Event 7	00:00			Sched	0	0
Event 8	00:00			Sched	0	0
Event 9	00:00			Sched	0	0
Event 10	00:00			Sched	0	0
Event 11	00:00			Sched	0	0
Event 12	00:00			Sched	0	0
Event 13	00:00			Sched	0	0
Event 14	00:00			Sched	0	0
Event 15	00:00			Sched	0	0
Event 16	00:00			Sched	0	0
Event 17	00:00			Sched	0	0
Event 18	00:00			Sched	0	0
Event 19	00:00			Sched	0	0
Event 20	00:00			Sched	0	0
Event 21	00:00			Sched	0	0
Event 22	00:00			Sched	0	0
Event 23	00:00			Sched	0	0
Event 24	00:00			Sched	0	0
Event 25	00:00			Sched	0	0
Event 26	00:00			Sched	0	0
Event 27	00:00			Sched	0	0
Event 28	00:00			Sched	0	0
Event 29	00:00			Sched	0	0
Event 30	00:00			Sched	0	0
Event 31	00:00			Sched	0	0
Event 32	00:00			Sched	0	0

Holidays

	Active	Holidays	Month	Day	I	OOW	WOM
Date 1			0	0			0
Date 2			0	0			0
Date 3			0	0			0
Date 4			0	0			0
Date 5			0	0			0
Date 6			0	0			0
Date 7			0	0			0
Date 8			0	0			0
Date 9			0	0			0
Date 10			0	0			0
Date 11			0	0			0
Date 12			0	0			0
Date 13			0	0			0
Date 14			0	0			0
Date 15			0	0			0
Date 16			0	0			0
Date 17			0	0			0
Date 18			0	0			0
Date 19			0	0			0
Date 20			0	0			0
Date 21			0	0			0
Date 22			0	0			0
Date 23			0	0			0
Date 24			0	0			0
Date 25			0	0			0
Date 26			0	0			0
Date 27			0	0			0
Date 28			0	0			0
Date 29			0	0			0
Date 30			0	0			0
Date 31			0	0			0
Date 32			0	0			0

Load Switch Outputs (BIU 1)

10/21/2020 1:50:10 PM

	LS 1	LS 2	LS 3	LS 4	LS 5	LS 6	LS 7	LS 8
Red Function	VehRed							
Red Index	1	2	3	4	5	6	7	8
Yellow Function	VehYel							
Yellow Index	1	2	3	4	5	6	7	8
Green Function	VehGrn							
Green Index	1	2	3	4	5	6	7	8

Load Switch Outputs (BIU 2)

	LS 9	LS 10	LS 11	LS 12	LS 13	LS 14	LS 15	LS 16
Red Function	VehRed	DntWlk	DntWlk	DntWlk	VehRed	VehRed	VehRed	VehRed
Red Index	0	0	0	0	0	0	0	0
Yellow Function	VehRed	PedClr	PedClr	PedClr	VehRed	VehRed	VehRed	VehRed
Yellow Index	0	0	0	0	0	0	0	0
Green Function	VehRed	Walk	Walk	Walk	VehRed	VehRed	VehRed	VehRed
Green Index	0	0	0	0	0	0	0	0

T/F Outputs (BIU 1)

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	I/O 10	I/O 11	I/O 12	I/O 13
Output	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0

T/F Outputs (BIU 2)

	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14	I/O 15
Output	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0	0	0

T/F Outputs (BIU 3)

	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8
Output	VehRed							
Index	0	0	0	0	0	0	0	0
L	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	I/O 1
Output	VehRed							
Index	0	0	0	0	0	0	0	0
<u>.</u>	I/O 2	I/O 3	I/O 4	I/O 5	I/O 6			
Output	VehRed	VehRed	VehRed	VehRed	VehRed			
Index	0	0	0	0	0			

T/F Outputs (BIU 4)

	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8
Output	VehRed							
Index	0	0	0	0	0	0	0	0
	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	I/O 1
Output	VehRed							
Index	0	0	0	0	0	0	0	0
_	I/O 2	I/O 3	I/O 4	I/O 5	I/O 6	I/O 7	I/O 8	I/O 9
Output	VehRed							
Index	0	0	0	0	0	0	0	0

Detector Inputs (BIU 9)

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	Det 1	Det 2	Det 3	Det 4	Det 5	Det 6	Det 7	Det 8
Function	None	None	None	None	None	None	None	None
Index	1	2	3	4	0	0	0	0
	Det 9	Det 10	Det 11	Det 12	Det 13	Det 14	Det 15	Det 16
Function	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0

Detector Inputs (BIU 10)

	Det 17	Det 18	Det 19	Det 20	Det 21	Det 22	Det 23	Det 24
Function	None							
Index	17	18	19	20	21	22	23	24
_	Det 25	Det 26	Det 27	Det 28	Det 29	Det 30	Det 31	Det 32
Function	None							
Index	25	26	27	28	29	30	31	32

Detector Inputs (BIU 11)

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	Det 33	Det 34	Det 35	Det 36	Det 37	Det 38	Det 39	Det 40
Function	VehDet	VehDet	VehDet	None	VehDet	None	VehDet	VehDet
Index	33	34	35	36	37	38	39	40
	Det 41	Det 42	Det 43	Det 44	Det 45	Det 46	Det 47	Det 48
Function	VehDet	VehDet	VehDet	VehDet	VehDet	None	VehDet	VehDet
Index	41	42	43	44	45	46	47	48

Detector Inputs (BIU 12)

	Det 49	Det 50	Det 51	Det 52	Det 53	Det 54	Det 55	Det 56
Function	VehDet	VehDet	VehDet	VehDet	None	None	VehDet	VehDet
Index	49	50	51	52	53	54	55	56
	Det 57	Det 58	Det 59	Det 60	Det 61	Det 62	Det 63	Det 64
Function	VehDet	VehDet	VehDet	VehDet	None	None	VehDet	VehDet
Index	57	58	59	60	61	62	63	64

T/F Inputs (BIU 1)

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	I/O 14	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21
Input	None							
Index	0	0	0	0	0	0	0	0
L	I/O 22	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5
Input	None	None	None	None	StopTm	None	None	None
Index	0	0	0	0	0	0	0	0
L	IN 6	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4	
Input	None	None	None	None	PedDet	PedDet	PedDet	
Index	0	0	0	0	0	0	0	

T/F Inputs (BIU 2)

0

0

Index

0

0

	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23
Input	None							
Index	0	0	0	0	0	0	0	0
	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7
Input	None							
Index	0	0	0	0	0	0	0	0
	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4			,
Input	None	None	PedDet	PedDet	PedDet			

0

T/F Inputs (BIU 3)

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	I/O 7	I/O 8	I/O 9	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14
Input	None							
Index	0	0	0	0	0	0	0	0
-	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22
Input	None							
Index	0	0	0	0	0	0	0	0
	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6
Input	None							
Index	0	0	0	0	0	0	0	0
-	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4		
Input	None	None	None	None	None	None		
Index	0	0	0	0	0	0		

T/F Inputs (BIU 4)

	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14	I/O 15	I/O 16	I/O 17
Input	None							
Index	0	0	0	0	0	0	0	0
_	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23	I/O 24	IN 1
Input	None							
Index	0	0	0	0	0	0	0	0
	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	OPTO 1
Input	None							
Index	0	0	0	0	0	0	0	0
	OPTO 2	OPTO 3	OPTO 4		•			

 Input
 None
 None

 Index
 0
 0

Cabinet / MMU Configuration

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_		_	1-8	9-16
Cabinet Type	TS2-Type2	MMU Channel Ignore		
MMU Disable	Yes	Det BIU 1-No Fail Call		
		Det BIU 2-No Fail Call		
		Alt LS Flash		
		Alt Phase Flash		
		Alt Overlap Flash		
		Alt LRV Flash		
		CMU Channel Ignore	1-8	9-16
			17-24	25-32
		Det IASM1-Det Diag	1-8	9-16
			17-24	
		Det IASM2-Det Diag	1-8	9-16
			17-24	

Phase / Overlap Outputs

	Phase	Overlap
1	Normal	Normal
2	Normal	Normal
3	Normal	Normal
4	Normal	Normal
5	Normal	Normal
6	Normal	Normal
7	Normal	Normal
8	Normal	Normal
9	Normal	Normal
10	Normal	Normal
11	Normal	Normal
12	Normal	Normal
13	Normal	Normal
14	Normal	Normal
15	Normal	Normal
16	Normal	Normal

LRV Outputs

	LRV
1	2 Head
2	2 Head
3	2 Head
4	2 Head
5	2 Head
6	2 Head
7	2 Head
8	2 Head

Vehicle	Detector	1
V OI II OI C	Dottotto	•

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Delay	0.0 Exter	nd 0.0 Carryover 0.0 Queue Limit 0	
Mode	No Disc	Added Disabled System Disabled	
Fail Mode	None	Max Pres 0 No Act 0 Erratic 0 Fail Time 0	
Delay 2	0.0		
Phases Call Phases Yellow Lock Phases Red Lock Phases Extend Phases XSwitch Phases Bike Call Phases	1-8	9-16	

Vehicle Detector 2

Delay	0.0 Exter	nd 0.0	Carry	over 0.0	Queue	Limit 0			
Mode	No Disc	Adde	d	Disabled		System	Disable	ed	
Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
Delay 2	0.0								

Vehicle Detector 3 10/21/2020 1:50:10 PM Delay 0.0 Extend 0.0 Carryover 0.0 Queue Limit Mode No Disc Added Disabled System Disabled Fail Mode None Max Pres 0 No Act 0 Erratic 0 Fail Time 0 Delay 2

Phases 1-8 9-16
Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

Delay	0.0 Exter	nd 0.0	Carry	over 0.0	Queue	Limit 0			
Mode	No Disc	Adde	ed	Disabled		System	Disable	ed	
Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
Delay 2	0.0								

Phases		1.	-8				9-	16		
Call Phases		4								
Yellow Lock Phases										
Red Lock Phases										
Extend Phases		4								
XSwitch Phases										
Bike Call Phases										
					 _					

Vehicle Detector 5

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Delay	0.0 Exter	nd 0.0 Carryover 0.0 Queue Limit 0	
Mode	No Disc	Added Disabled System Disabled	
Fail Mode	None	Max Pres 0 No Act 0 Erratic 0 Fail Time 0	
Delay 2	0.0		
Phases	1-8	9-16	
Call Phases	5		
Yellow Lock Phases			
Red Lock Phases			
Extend Phases	5		
XSwitch Phases			
Bike Call Phases			

Delay	0.0 Exter	nd 0.0	Carry	over 0.0	Queue	Limit 0			
Mode	No Disc	Adde	d	Disabled		System	Disable	ed	
Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
Delay 2	0.0								

Phases		1-	-8					9-	16		
Call Phases				6							
Yellow Lock Phases											
Red Lock Phases											
Extend Phases				6							
XSwitch Phases											
Bike Call Phases											

Vehicle Detector 7

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Delay	0.0 Exter	nd 0.0 Carryover 0.0 Queue Limit 0	
Mode	No Disc	Added Disabled System Disabled	
Fail Mode	None	Max Pres 0 No Act 0 Erratic 0 Fail Time 0	
Delay 2	0.0		
Phases Call Phases Yellow Lock Phases Red Lock Phases Extend Phases XSwitch Phases Bike Call Phases	1-8		

Delay	0.0 Exte	nd 0.0 Carr	yover 0.0	Queue Limit 0			
Mode	No Disc	Added	Disabled	System	Disabled		
Fail Mode	None	Max Pres 0	No Act	0 Erratio	0	Fail Time [0
Delay 2	0.0						

Phases		1.	-8					9-	16		
Call Phases					8						
Yellow Lock Phases											
Red Lock Phases											
Extend Phases					8						
XSwitch Phases											
Bike Call Phases											

\/obiolo	Detector	Λ
vernicie	Detector	y

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Delay	0.0 Exter	nd 0.0 Carryover	0.0 Queue Limit 0	
Mode	No Disc	Added Disa	sabled System Disabled	
Fail Mode	None	Max Pres 0	No Act 0 Erratic 0 Fail Time 0	
Delay 2	0.0			
Phases	1-8	9-16		
Call Phases	1			
Yellow Lock Phases				
Red Lock Phases				
Extend Phases	1			
XSwitch Phases				
Bike Call Phases				
			•	

Vehicle Detector 10

Delay	0.0 Exter	nd 0.0	Carryover	0.0 Q	ueue Limit	0			
Mode	No Disc	Added	d Disa	abled	Syste	em	Disable	t	
Fail Mode	None	Max Pres	0	No Act	0	Erratic [0	Fail Time	0
Delay 2	0.0								

Vehicle Detector 11

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Delay	0.0			Ext	end		0.0		C	arr	yο\	/er	0.0	Que	ue Li	imit [0								
Mode		No	Disc	;			Δ	\dde	ed			Dis	abled		S	ysten	n 🗌		Disab	bled	b				
Fail Mode		No	one			Max	Pr	es		0			No Act	0		Er	ratic	;	0		Fail	Tim	е	0	
Delay 2	0.0																								
Phases			1-8					ç	9-16	3															
Call Phases		3																							
Yellow Lock Phases																									
Red Lock Phases																									
Extend Phases		3																							
XSwitch Phases																									
Bike Call Phases													1												
		1					-1 -1		'	-1			J												

Delay	0.0 Exte	nd 0.0 Ca	arryover 0.0	Queue Limit	0			
Mode	No Disc	Added	Disabled	Syste	m	Disable	t	
Fail Mode	None	Max Pres	0 No Act	0 E	Erratic	0	Fail Time	0
Delav 2	0.0							

Phases	1-8					9-16									
Call Phases			4												
Yellow Lock Phases															
Red Lock Phases															
Extend Phases			4												
XSwitch Phases															
Bike Call Phases															

Vehicle Detector 13

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Delay	0.0 Exter	nd 0.0 Carryover	0.0 Queue Limit 0	
Mode	No Disc	Added Disab	oled System Dis	abled
Fail Mode	None	Max Pres 0	No Act 0 Erratic 0	Fail Time 0
Delay 2	0.0			
Phases	1-8	9-16		
Call Phases	5			
Yellow Lock Phases				
Red Lock Phases				
Extend Phases	5			
XSwitch Phases				
Bike Call Phases				

Delay	0.0 Exte	nd 0.0 Ca	arryover 0.0	Queue Limit	0			
Mode	No Disc	Added	Disabled	Syste	m	Disable	t	
Fail Mode	None	Max Pres	0 No Act	0 E	Erratic	0	Fail Time	0
Delav 2	0.0							

Phases	1-8					9-16									
Call Phases					6										
Yellow Lock Phases															
Red Lock Phases															
Extend Phases					6										
XSwitch Phases															
Bike Call Phases															

Vehicle Detector 15

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Delay	0.0 Exte	end 0.0 Carryov	er 0.0 Queue Lim	it 0
Mode	No Disc	Added D	isabled Sys	tem Disabled
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0 Fail Time 0
Delay 2	0.0			
Phases Call Phases Yellow Lock Phases Red Lock Phases Extend Phases	1-8			
XSwitch Phases Bike Call Phases				

Delay	0.0 Exte	nd 0.0	Carryo	over 0.0	Queue	Limit 0			
Mode	No Disc	Adde	d	Disabled		System	Disable	ed	
Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
Delay 2	0.0								

Phases	1-8				9-16									
Call Phases						8								
Yellow Lock Phases														
Red Lock Phases														
Extend Phases						8								
XSwitch Phases														
Bike Call Phases														
									-					

Vehicle Detector 17

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Delay	0.0 Exten				
Mode	No Disc	Added	Disabled	System Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0 Fail Ti	me 0
Delay 2	0.0				
Dhasas	4.0	0.46			
Phases	1-8	9-16			
Call Phases	6				
Yellow Lock Phases					
Red Lock Phases					
Extend Phases	6				
XSwitch Phases					
Bike Call Phases					

Delay	0.0 Exter	nd 0.0 Carryo	over 0.0 Que	ue Limit 0		
Mode	No Disc	Added	Disabled	System	Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic	0 Fail Time 0)
Delay 2	0.0					

Phases	1-8					9-16										
Call Phases						6										
Yellow Lock Phases																
Red Lock Phases																
Extend Phases						6										
XSwitch Phases																
Bike Call Phases																

Vehicle Detector 19

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Delay	0.0 Exte	nd 0.0 Carryo	over 0.0 Que	eue Limit 0
Mode	No Disc	Added	Disabled	System Disabled
Fail Mode	None	Max Pres 0	No Act C	Erratic 0 Fail Time 0
Delay 2	0.0			
Phases	1-8	9-16		
Call Phases				
Yellow Lock Phases				
Red Lock Phases				
Extend Phases	6			
XSwitch Phases				
Bike Call Phases				

Vehicle Detector 20

Delay	0.0 Exte	nd 0.0 Ca	arryover 0.0	Queue Limit (
Mode	No Disc	Added	Disabled	System	Disabled
Fail Mode	None	Max Pres	0 No Act	0 Errat	ic 0 Fail Time 0
Delay 2	0.0				

Phases 1-8 9-16

Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

Vehicle Detector 21

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Delay	0.0 Ex	xtend 0.0	Carryover	0.0 Queue Lir	mit 0	
Mode	No Disc	Adde	ed Disable	ed Sy	stem Disable	d
Fail Mode	None	Max Pres	0 No	Act 0	Erratic 0	Fail Time 0
Delay 2	0.0					
Phases	1-8	9	-16			
Call Phases		7				
Yellow Lock Phases						
Red Lock Phases						
Extend Phases		7				
XSwitch Phases						
Bike Call Phases						

Delay	0.0 Exter	nd 0.0	Carry	over 0.0	Queue	Limit 0						
Mode	No Disc	Adde	Added Disabled			System	Disabled					
Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0			
Delay 2	0.0											

Phases	1-8							9-	16			
Call Phases						7						
Yellow Lock Phases												
Red Lock Phases												
Extend Phases						7						
XSwitch Phases												
Bike Call Phases												

Vehicle Detector 31

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Delay	0.0		Exter	nd 0.0		Carr	yove	r 0.0	Queue L	imit C)				
Mode	N	lo Disc			Adde	d	Dis	sabled	S	ystem	[Disable	ed		
Fail Mode		None		Max F	res	0		No Act	0	Errat	ic	0	Fail	Time	0
Delay 2	0.0														
Phases		1-8			9.	-16									
Call Phases		5													
Yellow Lock Phases															
Red Lock Phases															
Extend Phases		5													
XSwitch Phases															
Bike Call Phases															

Vehicle Detector 32

Delay	0.0 Exte	nd 0.0 Ca	arryover 0.0	Queue Limit	0			
Mode	No Disc	Added	Disabled	Syste	m	Disable	t	
Fail Mode	None	Max Pres	0 No Act	0 E	Erratic	0	Fail Time	0
Delav 2	0.0							

Phases 1-8 9-16

Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

Vehicle Detector 33

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Delay	0.0 Exte	nd 0.0 Carryove	r 0.0 Qu	ieue Limit 0	
Mode	No Disc	Added Dis	sabled	System [Disabled
Fail Mode	None	Max Pres 0	No Act	0 Erratic	0 Fail Time 0
Delay 2	0.0				
Phases	1-8	9-16			
Call Phases	1				
Yellow Lock Phases					
Red Lock Phases					
Extend Phases	1				
XSwitch Phases					
Bike Call Phases					
		Vehicle	Detector 3	4	

Delay	0.0 Exter	nd 0.0	Carryover	0.0 Q	ueue Limit	0			
Mode	No Disc	Added	d Dis	abled	b				
Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
Delay 2	0.0								

Phases 1-8 9-16

Call Phases 1

Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases 1

Vehicle Detector 35

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Delay	0.0 Exte	end 0.0 Carryover 0.0 Queue Limit 0
Mode	Disconnect	Added Disabled System Disabled
Fail Mode	None	Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0	
Phases Call Phases Yellow Lock Phases Red Lock Phases Extend Phases XSwitch Phases Bike Call Phases	1-8	9-16
		Vahiala Datastar 20

Vehicle Detector 39

Delay	0.0 Exte	end 0.0	Carryover	0.0	Queue Limit	0			
Mode	No Disc	Added	Disa	bled	Syste	em	Disable	d	
Fail Mode	None	Max Pres	0	No Act	0 1	Erratic	0	Fail Time	0
Delay 2	0.0								

Phases 1-8 9-16

Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

6

Vehicle Detector 40

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			-	
Delay	10.0 Exte	end 0.0 Carryove	0.0 Queue Limit	0
Mode	Disconnect	Added Dis	abled System	Disabled
Fail Mode	None	Max Pres 0	No Act 0 Erra	atic 0 Fail Time 0
Delay 2	0.0			
Phases	1-8	9-16		
Call Phases	6			
Yellow Lock Phases				
Red Lock Phases				
Extend Phases	6			
XSwitch Phases				
Bike Call Phases				

Delay	0.0 Exte	nd 0.0 Carryo	over 0.0	Queue Limit	0			
Mode	No Disc	Added	Disabled	Syste	em	Disable	ed	
Fail Mode	None	Max Pres 0	No Act	0	Erratic	0	Fail Time	0
Delav 2	0.0							

Phases	1-8							9-16								
Call Phases				5												
Yellow Lock Phases																
Red Lock Phases																
Extend Phases				5												
XSwitch Phases																
Bike Call Phases																

Vehicle Detector 42

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			VOIMOIO BO	7.00.01 12		
Delay	0.0 E	Extend 0.0	Carryover	0.0 Queue Lin	nit 0	
Mode	No Disc	Adde	d Disabl	ed Sy	stem Disabled	
Fail Mode	None	Max Pres	0 N	o Act 0	Erratic 0 Fa	ail Time 0
Delay 2	0.0					
Phases	1-8	9-	-16			
Call Phases						
Yellow Lock Phases						
Red Lock Phases						
Extend Phases						
XSwitch Phases						
Bike Call Phases	5					

Delay	0.0 Exter	nd 0.0 Ca	rryover 0.0	Queue Limit	0			
Mode	Disconnect	Added [Disabled	Syste	em	Disable	d	
Fail Mode	None	Max Pres 0	No Act	0	Erratic	0	Fail Time	0
Delay 2	0.0							

Phases		1	9-16								
Call Phases	2										
Yellow Lock Phases											
Red Lock Phases											
Extend Phases	2										
XSwitch Phases											
Bike Call Phases											
					-	-					

Vehicle Detector 44

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Delay	0.0	Exte	end 0.0	Car	ryove	0.0	Queue L	imit 0	
Mode	No	Disc	A	dded	Dis	abled] 8	ystem Disabled	
Fail Mode	N	one	Max Pre	es 0		No Act	0	Erratic 0 Fa	il Time 0
Delay 2	0.0								
Phases		1-8		9-16					
Call Phases	2								
Yellow Lock Phases									
Red Lock Phases						1			
Extend Phases	2								
XSwitch Phases									
Bike Call Phases						1			
					, ,	-			

Vehicle Detector 45

Delay	0.0 Exter	nd 0.0	Carry	over 0.0	Queue	Limit 0			
Mode	No Disc	Adde	d	Disabled		System	Disable	ed	
Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
Delay 2	0.0								

Phases 1-8 9-16

Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

Vehicle Detector 47

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Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	
	Vehicle Detector 48
Delay	8.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	Disconnect Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases Red Lock Phases	
Extend Phases	
XSwitch Phases	

Bike Call Phases

Vehicle Detector 49

10/21/2020 1:50:10 PM

Delay	0.0]	ļ	Exte	nd [0.0)		Car	ryc	ove	r 0.	0	Qι	ueue	Lim	nit [0								
Mode		No [Disc				Add	ded			Dis	sabled	t			Sys	stem		Disa	ble	d					
Fail Mode		No	ne		Ma	ax P	res		0			No	Act		0		Err	atic	0		Fa	ail 1	Γime	e [0	
Delay 2	0.0																									
Phases			1-8					9-1	16																	
Call Phases		3																								
Yellow Lock Phases]														
Red Lock Phases												1														
Extend Phases		3										1														
XSwitch Phases												1														
Bike Call Phases												1														
						•				•	•	_														

Delay	0.0 Exte	nd 0.0 (Carryover [0.0 Queue	Limit 0			
Mode	No Disc	Added	Disab	led	System	Disable	d	
Fail Mode	None	Max Pres	0 N	lo Act 0	Erratic	0	Fail Time	0
Delay 2	0.0							

Phases											9-16									
Call Phases			3																	
Yellow Lock Phases																				
Red Lock Phases																				
Extend Phases																				
XSwitch Phases																				
Bike Call Phases			3																	

Vehicle Detector 51

10/21/2020 1:50:10 PM

Delay	0.0	Extend	0.0	Carryove	er 0.0	Queue Li	imit 0		
Mode	Disconn	ect	Adde	ed D	sabled	S	ystem	Disabled	
Fail Mode	None	· N	lax Pres	0	No Act	0	Erratic	0 Fail Time	e 0
Delay 2	0.0								
Phases	1-8		9)-16					
Call Phases		8							
Yellow Lock Phases									
Red Lock Phases									
Extend Phases		8							
XSwitch Phases									
Bike Call Phases									

Delay	0.0 Exte	nd 0.0 Ca	arryover 0.0	Queue Limit	0			
Mode	No Disc	Added	Disabled	Syste	m	Disable	t	
Fail Mode	None	Max Pres	0 No Act	0 E	Erratic	0	Fail Time	0
Delav 2	0.0							

Phases	1-8									9-16								
Call Phases								8										
Yellow Lock Phases																		
Red Lock Phases									ľ									
Extend Phases									ľ									
XSwitch Phases									ľ									
Bike Call Phases								8										

Vehicle Detector 56

10/21/2020 1:50:10 PM

		VOIII	olo Bolootol (
Delay	10.0 Exte	end 0.0 Carryo	over 0.0 Q	Queue Limit 0	
Mode	Disconnect	Added	Disabled	System Disable	d
Fail Mode	None	Max Pres 0	No Act	0 Erratic 0	Fail Time 0
Delay 2	0.0				
Phases Call Phases Yellow Lock Phases Red Lock Phases Extend Phases XSwitch Phases Bike Call Phases	1-8	9-16			

Delay	0.0 Exte	nd 0.0 (Carryover [0.0 Queue	Limit 0			
Mode	No Disc	Added	Disab	led	System	Disable	d	
Fail Mode	None	Max Pres	0 N	lo Act 0	Erratic	0	Fail Time	0
Delay 2	0.0							

Phases	1-8				9-16										
Call Phases						7									
Yellow Lock Phases									İ						
Red Lock Phases									İ						
Extend Phases						7									
XSwitch Phases															
Bike Call Phases															

Vehicle Detector 58

10/21/2020 1:50:10 PM

Delay	0.0 Exte	nd 0.0 Carryove	r 0.0 Queue L	imit 0
Mode	No Disc	Added Dis	sabled S	System Disabled
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0 Fail Time 0
Delay 2	0.0			
Phases Call Phases	1-8	9-16		
Yellow Lock Phases Red Lock Phases				
Extend Phases XSwitch Phases				
Bike Call Phases	7			

Vehicle Detector 59

Delay	0.0 Exter	nd 0.0 C	arryover	0.0 Queue	Limit 0			
Mode	Disconnect	Added	Disable	ed	System	Disable	d	
Fail Mode	None	Max Pres	0 No	Act 0	Erratic	0	Fail Time	0
Delav 2	0.0							

Phases 1-8 9-16

Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

10/21/2020 1:50:10 PM Vehicle Detector 60 0.0 0.0 Carryover 0.0 Queue Limit Delay Extend Mode No Disc Added Disabled System Disabled Fail Mode None Max Pres 0 No Act 0 Fail Time 0 Erratic 0 Delay 2 1-8 **Phases** 9-16 Call Phases 4 Yellow Lock Phases Red Lock Phases **Extend Phases** 4 XSwitch Phases Bike Call Phases Vehicle Detector 63 Delay 0.0 Extend 0.0 Carryover 0.0 Queue Limit Mode No Disc Added Disabled System Disabled Fail Mode None Max Pres 0 No Act 0 Erratic 0 Fail Time 0 Delay 2 0.0 Phases 1-8 9-16 Call Phases 4 Yellow Lock Phases

Red Lock Phases Extend Phases XSwitch Phases Bike Call Phases

4

Vehicle Detector 64

10/21/2020 1:50:10 PM

Delay	0.0 E	xtend 0.0	Carryov	er 0.0	Queue Limit	0			
Mode	No Disc	A	Added D	isabled	Syster	m	Disable	d	
Fail Mode	None	Max Pr	es 0	No Act	0 E	rratic	0	Fail Time	0
Delay 2	0.0								

Phases 1-8 9-16

Call Phases
Yellow Lock Phases
Red Lock Phases
Extend Phases
XSwitch Phases
Bike Call Phases

			Pedestrian Detec	ctor 2	10/21/2	2020 1:50:10 PM
No Act	0 Max	Pres 0	Erratic 0	Fail Mode	None	
Phases/Overlaps	1-8		9-16			
Call Ped Phases	2					
Call Ped Olaps						
Call Phases						
Locked Call Phases						
Ped Entry Phases						
Olap Ped Entry Phases						
Ped Cascade Phases						
Call Walk2						
			Pedestrian Detec	ctor 4		
No Act	0 Max	Pres 0	Erratic 0	Fail Mode	None	
		1103 0		1 all Wode	None	
Phases/Overlaps Call Ped Phases	1-8		9-16			
Call Ped Olaps	4					
Call Phases						
Locked Call Phases						
Ped Entry Phases						
Olap Ped Entry Phases						
Ped Cascade Phases						
Call Walk2						
			Pedestrian Detec	etor 6		
No Act	0 Max	Pres 0	Erratic 0	Fail Mode	None	
		ries 0		raii wode	None	
Phases/Overlaps Call Ped Phases	1-8		9-16			
Call Ped Olaps						
Call Phases						
Locked Call Phases						
Ped Entry Phases						
Olap Ped Entry Phases						
Ped Cascade Phases						
Call Walk2						
				_		
			Pedestrian Detec			
No Act	0 Max	Pres 0	Erratic 0	Fail Mode	None	
Phases/Overlaps	1-8		9-16			
Call Ped Phases		8				
Call Ped Olaps						
Call Phases						
Locked Call Phases		\square				
Ped Entry Phases						
Olap Ped Entry Phases Ped Cascade Phases		+++++				
i du Cascaut Filasts			1 1 1 1 1			

Call Walk2

Adaptive Priority - General/Local Detectors

10/21/2020 1:50:10 PM

Local Detector Slack	0
Remote Detector Slack	0
Local Adjust Threshold	0
Remote Adjust Threshold	0

Detector	1	2	3	4	5	6	7	8
Step (Base)	0	0	0	0	0	0	0	0
Max (Base)	0	0	0	0	0	0	0	0
Step (Alt 1)	0	0	0	0	0	0	0	0
Max (Alt 1)	0	0	0	0	0	0	0	0
Step (Alt 2)	0	0	0	0	0	0	0	0
Max (Alt 2)	0	0	0	0	0	0	0	0
Step (Alt 3)	0	0	0	0	0	0	0	0
Max (Alt 3)	0	0	0	0	0	0	0	0

Estimated Delay

10/21/2020 1:50:10 PM

rransii									
Disable									
Rem Phs									
Loc Int									
Loc TT									
RM1 Int									

1	2	3	4	5	6	7	8
No	No	No	No	No	No	No	No
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

Transit/LRV Startup/Options

10/21/2020 1:50:10 PM

	LRV 1-8				
No Startup Call		Warn Flash Rate	1 Hz	Rsrv Inh Mode	Seconds

		Control / Config	10/21/2020 1:50:10 PM
Pattern Mode	Central		
Manual Pattern	0 Manual Offs	set 0	
Stop Time Input	Enabled		
Aux Switch	StopTm	5	
DLS Mode	D4	Time Zone Pac (UTC-8)	GPS Thresh 0
Password Timeout	5		
Maint Phs Recalls Maint Ped Recalls	1-8	9-16	
		Serial 1 Port Configuration	
Broadcast Plan/Sync	Disabled	Broadcast Time 00:00	
Serial Rebroadcast	Disabled	Response None	
Broadcast Plan/Sync	Disabled	Serial 2 Port Configuration Broadcast Time 00:00	
		Ethernet Port Configuration	
Broadcast Plan/Sync	Disabled	Broadcast Time 00:00	
Serial Rebroadcast	Disabled		
		Peer Configuration	
Peer 1	0		
Peer 2	0		
Peer 3	0		
Peer 4	0		
Peer 5	0		
Peer 6	0		
Peer 7	0		

Peer 8 0

		Le	ogging			10	/21/2020 1:50:10 PM
VO Log Period	15	1 of 2 Hits (Det BIU 1)					
Power On	Enabled	1 of 2 Hits (Det BIU 2)					
Ext Start	Enabled	1 of 2 Hits (Det BIU 3)					
Man Control	Enabled	1 of 2 Hits (Det BIU 4)					
Cabinet Door	Enabled	SPmt 1 Req Switch					
MMU Faults	Enabled	SPmt 2 Req Switch					
BIU Faults	Enabled	SPmt 3 Req Switch					
Det Faults	Enabled	SPmt 4 Req Switch					
Coordination	Enabled	Zone 1 Req Switch					
Preempt	Enabled	Zone 2 Req Switch					
Soft Preempt	Disabled	Zone 3 Req Switch					
Zone	Disabled	Zone 4 Req Switch					
Speed Traps	Disabled	Zone 5 Req Switch					
		Zone 6 Req Switch					
		Zone 7 Req Switch					
		Zone 8 Req Switch					
		Trap Grp 1 Req Switch					
		Trap Grp 2 Req Switch					
		Trap Grp 3 Req Switch					
		Trap Grp 4 Reg Switch					

		Restricted Data	10/21/2020 1:50:10 PM
		(Serial Ports)	
Serial Port 1	4		
Baud Rate	9600 8N1	RTS On 0	RTS Off 0
Serial Port 2	0		
Baud Rate	9600 8N1	RTS On 0	RTS Off 0
		(Ethernet)	
IP Address	172. 31. 54. 80		
Netmask	255. 255. 254. 0		
Broadcast Address	0. 0. 0. 0		
Gateway	172. 31. 54. 254		
Gateway 2	0. 0. 0. 0		
Gateway 3	0. 0. 0. 0		
Gateway 4	0. 0. 0. 0		
Admin IP	0. 0. 0. 0	Leases 0	
Admin Netmask	0. 0. 0. 0		
Port	161 Reply Mode	Host	
Broadcast Port	0 Response	Time/Plan	
Time Port	0		
		(General)	
Controller Address	1 Timeout	0	
Peer Address	0 Timeout	0	
Remote Calls	Disabled		
Remote Preempt	Disabled		
Remote Soft Preempt	Disabled		
Remote Priority	Disabled		
Remote MCE	Disabled	MCE Max 0	

- Detector-

Detector	Pin	Mode	Call	Ext	Delay	Extend	Carryover	Queue
1	56	Normal	1	1	0.0	0.0	0.0	0
2	39	Normal	2	2	0.0	0.0	0.0	0
3	58	Normal	3	3	0.0	0.0	0.0	0
4	41	Normal	4	4	0.0	0.0	0.0	0
5	55	Normal	5	5	0.0	0.0	0.0	0
6	40	Normal	6	6	0.0	0.0	0.0	0
7	57	Normal	7	7	0.0	0.0	0.0	0
- 8	42	Normal	8	8	0.0	0.0	0.0	0
9	-1	Normal	1	1	0.0	0.0	0.0	0
10	-1	Normal	2	2	0.0	0.0	0.0	0
11	-1	Normal	3	3	0.0	0.0	0.0	0
12	-1	Normal	4	4	0.0	0.0	0.0	0
13	-1	Normal	5	5	0.0	0.0	0.0	0
14	-1	Normal	6	6	0.0	0.0	0.0	0
15	-1	Normal	7	7	0.0	0.0	0.0	0
16	-1	Normal	8	8	0.0	0.0	0.0	0
17	-1	Normal	6	6	0.0	0.0	0.0	0
18	-1	Normal	6	6	0.0	0.0	0.0	0
19	-1	Normal	6	6	0.0	0.0	0.0	0
20	-1	Normal	7	7	0.0	0.0	0.0	0
21	-1	Normal	7	7	0.0	0.0	0.0	0
22	-1	Normal	7	7	0.0	0.0	0.0	0
23								
24								
25								
26								
27								
28								
29								
30								

Phoso (Detector)

Detector	Pin	Mode	Call	Ext	Delay	Extend	Carryover	Queue
31	-1	Normal	5	5	0.0	0.0	0.0	0
32	-1	Normal	5	5	0.0	0.0	0.0	0
33	-1	Normal	1	1	0.0	0.0	0.0	0
34	-1	Normal	1		0.0	0.0	0.0	0
35	-1	Disc	6	6	0.0	0.0	0.0	0
36								
37								
38								
39	-1	Normal	6		0.0	0.0	0.0	0
40	-1	Disc	6	6	10.0	0.0	0.0	0
41	-1	Normal	5	5	0.0	0.0	0.0	0
42	-1	Normal	5		0.0	0.0	0.0	0
43	-1	Disc	2	2	0.0	0.0	0.0	0
44	-1	Normal	2	2	0.0	0.0	0.0	0
45	-1	Normal	2	2	0.0	0.0	0.0	0
46								
47	-1	Normal	2		0.0	0.0	0.0	0
48	-1	Disc	2	2	8.0	0.0	0.0	0
49	-1	Normal	3	3	0.0	0.0	0.0	0
50	-1	Normal	3		0.0	0.0	0.0	0
51	-1	Disc	8	8	0.0	0.0	0.0	0
52								
53								
54								
55	-1	Normal	8		0.0	0.0	0.0	0
56	-1	Disc	8	8	10.0	0.0	0.0	0
57	-1	Normal	7	7	0.0	0.0	0.0	0
58	-1	Normal	7		0.0	0.0	0.0	0
59	-1	Disc	4	4	0.0	0.0	0.0	0

	95	-1	DISC	4	4	0.0	0.0	0.0	U
	60	-1	Normal	4	4	0.0	0.0	0.0	0
	61								
	62								
П	63	-1	Normal	4		0.0	0.0	0.0	0
	64	-1	Normal	4	4	0.0	0.0	0.0	0

.

ECONOLITE ASC3 TS2

TRAFFIC SIGNAL CONTROLLER PROGRAM CHART

Howe Avenue American River Drive N/S E/W 345 Intersection #: System IP Address: 172.31.14.13 Ø4 Ø7 X **American River Dr** Ø2 PED Ø2 Ø1 Notes: **Howe Avenue** Ø3 Ø8

PHASE TIMING

Phase	1	2	3	4	5	6	7	8
Min Green	11	11	9	8			11	8
Walk		7		7				7
Ped Clear		24		11				20
Yellow	3.9	3.9	3.5	4.3			3.5	5.0
Red Clearance	0.3	0.3	0.0	0.5			0.0	0.5
Red Rvt	2.0	2.0	2.0	2.0			2.0	2.0
Vehicle Ext	2.0	2.0	2.0	2.0			2.0	2.0
Max 1	40	40	35	60			35	60
Max 2	7							
Max 3								
Act B4	~							
Sec/Act								
Max Ini						1		
Time B4							D)	
Cars Wt								
Steps to Reduce			177			S		
Time to Reduce								
Min Gap						4		
Bike Green								
CndSrv Min Green								
Delay Green								
Walk 2								
Walk Max								
Ped Clear 2		1						CIL
Ped Clear Max								
Ped CarryOver								
Vehicle Ext 2								
Dym Green								
100 TO 10		-						

Guaranteed Min	Time I	Data				1	Key: 2-4			
Phase	1	2	3	4	5	6	7	8		
Min Green	5	5	5	5	5	5	5	5		
Walk	0	7	0	7	0	0	0	7		
Ped Clear	0	10	0	10	0	0	0	10		
Yellow Clear	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Overlap	Α	В	С	D	Е	F	G	Н		
Overlap Green	5	5	5	5	5	5	5	5		

Dym Step Red Max

SET SCREEN FORMAT TO BASIC Key: 1-7-2

Controller Star	t/Fla	sh D	ata					K	ey: 2-5
Phase	1	2	3	4	5	6	7	8	
Phase (Color)				Υ				Υ	
Overlap	Х	Х	Х	Х					
Flash/Mon		No		Sta	rt Fla	sh T	ime	0	sec
PWR Start Seq		1		All F	Red			6	sec
Note: Startup	phas	se ca	ın b	e Y,	R, C	or or	W	The same	
	Aut	oma	tic F	lash					
Phase	1	2	3	4	5	6	7	8	
Entry				4				8	
Exit				4		,,		8	
Overlap	Α	В	С	D	Ε	F	G	Н	
Exit	Х	Х	Х	Х					
Flash/Mon		No		Exit	Flas	h			W
Min Flash	0	se	ec	Min	Rec		Yes		
Cycle Thru Phase	2	Ye	es		0 15				411.39

Phase Recall Data	the state of the s							2-8
Phase	1	2	3	4	5	6	7	8
Lock Det								1
Vehicle Recall				4				8
Ped Recall					-1122			
Max Recall					Ü.			
Soft Recall								
No Rest								
Added Initial Calc								

Ped Protect		U	Init F	Red F	Reve	rt	2.	.0	sec
Phase		1	2	3	4	5	6	7	8
Flashing Green I	hase								
Guar Pass									
Non Act I									
Non Act II									
Dual Entry								3	
Cond Service				3				7	
Cond Reservice									
Ped Reservice									
Rest in Walk							1		
Flashing Walk									
PED Clear > yello	ow								
PED Clear > RED									
IG + VEH EXT									

CONFIGURATION

Phase Ring Seq and Assignment

Key: 1-1-1

Controller Se	1										
Hardware Al	No										
Barrier	Barrier B B B										
Ring 1	1	2	3	4	9	10	13	14			
Ring 2	5	6	7	8	11	12	15	16			
Ring 3											
Ring 4									7		

Phase in Use/Exclusive Peds

Key: 1-2

Phase	1	2	3	4	5	6	7	8
Phases in Use	1	2	3	4			7	8
Exclusive Ped								

Load Switch Assign (MMU Chan)

Key: 1-3

	PHASE/			IMI	MIN	G	FLA	SH	
СН	OVLP	type	R	Υ	G	D	Р	Α	TGR
1	1	V				+	Α	R	
2	2	٧				+	Α	R	Х
3	3	٧				+	Α	R	
4	4	V				+	Α	R	Х
5	5	V				ı	Α	R	
6	6	V				1	Α	R	Х
7	7	V				-	Α	R	
8	8	V				,	Α	R	Х
9	2	P				+	Α		
10	4	P				+	Α		
11	6	P				-	Α		
12	8	P				-	Α		
13	1	0				+	Α	R	
14	2	0				-	Α	R	Х
15	3	0				+	Α	R	
16	4	0				-	Α	R	X

D:	-1	Ο		
DIS	play	Op	τιο	ns

Key: 1-7-2

Key Click Enabled	YES
BackLight Enable	YES
LED Mode	Auto
Main Status Display Mode	Basic
Screen Format	Basic

Ethernet Port Configuration

Key: 1-5-1

IP ADDRESS	172.31.14.13
ADDRESS MASK	255.255.254
DEFAULT GATEWAY ADD	172.31.14.254
SEVER IP ADDRESS	
LINK SPEED/DUPLEX	AUTO
DROP-OUT TIME	300

Port 1 (SDLC Options)

Key: 1-4-1

BIU	1	2	3	4	5	6	7	8				
TERM & FACILITY	TERM & FACILITY XX											
DETECTOR	DETECTOR X X											
ENABLE TS2/MMU T	Υ	≣S										
ENABLE MMU EXTE	Y	≣S										
ENABLE SDLC STAR	YE	ĒS										
ENABLE 3 CRITICAL	ΥE	≣S										
MMU TO CU SDLC E	enal	bled										

Ped Detector Input

Key: 6-3

PED DET ASSIGNME	NTCIP							
PHASE	1	2	3	4	5	6	7	8
DETECTOR	1	2	3	4	5	6	7	8
PHASE	9	10	11	12	13	14	15	16
DETECTOR	9	10	11	12	13	14	15	16

CONFIGURATION

INDIAIO I IOMINI	MMU Prog	gram
------------------	----------	------

Key: 1-4-2

CHANN	EL C	AN S	SER'	VE V	VITH						20.00				
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
1	•	•							•				•		
2	٠	•	•	•				Χ							
3	•	•	•	•	Х		•	•	Х	Х					
4	•	•			Χ		Х		Х	Х					
_. 5		•	•			٠				•					
6					•	•	•			•					
7			•	٠		•	Х	*							
8			•		Х		Х			-					-
9			•	•	•										
10			•		Χ	•									
11			•		•										
12															
13															
14															

Simultaneous Gap Phases

Key: 1-1-4

CH	ANN	EL C	AN :	SER'	VE V	VITH	ł									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1			•	•	•											
2				٠	•								<u> </u>			
3					•			•								
4			•		•	٠		•	•							
5			•					•								
6								•								
7				•		•		٠						-		
8										•	•					
9										×					•	
10				*					•		•				*	
11						•		•								
12			٠												•	
13																
14																
15																
16																
D									# 60 50	■		■ Nighngasilya				

COORDINATION

Coordinator Options

KEY: 3-1

Cool dillator Opti-	0113		KEITOI
Manual Pattern	Auto	ECPI Coord	Yes
System Source	ТВС	System Format	Std
Splits In	sec	Offset In	sec
Transition	Smooth	Max Select	Max Inh
Dwell/Add Time	0	Enable Man Sync	No
Dly Coord Wk-Lz	No	Force Off	Float
Offset Ref	Lag	Cal Use Ped Time	Yes
Ped Recall	No	Ped Reserve	No
Local Zero Ovrd	No	FO Add Ini Green	No
Re-Sync Count	0	Multisync	No

Coordination Patterns

KEY: 3-2

Coordinator Pattern 1											
Use Split Pattern	1										
Ts2 (Pat Off)	0	-1									
Cycle	12	20	Spli	t Su	m			120			
Offset Value	(0	Std	cycl	e of	fsp	lit	1:	11		
Actuated Coord	Υ	ES	Dw	l/Ad	d			Ü)		
Act Walk Rest	N	Pha	se F	lese	rvic	e	Y	ES			
Split Reference Phases											
Phase		1	2	3	4	5	6	7	8		
Split (1)		17	38	13	52			15	S0		
Preference Phase 1											
Preference Phase 2											
Split Extension		20	20								
Vehicle Permissive											
Ring Displacement											
Split D	em	and	Pat	tter	n 1						
Phase		1	2	3	4	5	6	7	8		
Coordination					4				8		
Vehicle Recall											
Ped Recall											
Max Recall											
Omit											

Coor	dina	tor	Pat	terr	ı 2				
Use Split Pattern	T :	2							
Ts2 (Pat Off)	0	-2							
Cycle	1	130 Split Sum						130	
Offset Value	1	21	Std	сус	e of	fsp	lit	12	21
Actuated Coord	Υ	ES	Dw	I/Ad	d			()
Act Walk Rest	N	Ю	Pha	ise F	Rese	rvic	е	Y	ES
Split	t Reference Phases								
Phase		1	2	3	4	5	6	7	8
Split (1)		18	36	15	61			15	61
Preference Phase 1									
Preference Phase 2									
Split Extension		20	20						
Vehicle Permissive									
Ring Displacement									
Split I	Dem	and	Pat	tter	n 2				
Phase		1	2	3	4	5	6	7	8
Coordination					4				8
Vehicle Recall									
Ped Recall									
Max Recall									
Omit									

Coord	lina	tor	Pat	terr	1 3		***************************************		
Use Split Pattern		3							
Ts2 (Pat Off)	0	-3							
Cycle	1	30	Spli	Split Sum					30
Offset Value	2	20	Std	сус	le of	fsp	lit	13	31
Actuated Coord	Υ	ES	Dw	I/Ad	ld			Ü)
Act Walk Rest	2	0	Pha	se F	Rese	rvice	9	ΥI	ES
Split Reference Phases									
Phase		1	2	3	4	5	6	7	8
Split (1)		17	36	14	63			15	62
Preference Phase 1									
Preference Phase 2									
Split Extension		30	30						
Vehicle Permissive									
Ring Displacement									
Split D	em	and	Pat	tter	n 3				
Phase		1	2	3	4	5	6	7	8
Coordination					4				8
Vehicle Recall									
Ped Recall									
Max Recall									
Omit									

TIME BASE SUBMENU

Clock/Calendar

Key: 5-1

DATE	DOW	TIME
Ena Action Plan	0	
Sync Reference time		Sync Ref
Time from GMT		Daylight Sav
time Reset Input Set		

Schedule Number

Key: 5-4

Sc	hedi	ıle N	lum	ber			1					
Day	/ Plai	n No)	:	1			Cl	ear a	ıll Fi	elds	•
Select A	All M	ontl	าร	,	K		DC	W	Х	DC	M	Х
MON	J	F	М	Α	М	J	J	Α	S	0	Z	D
DAY (E	ON	/)	su	МО	ΤU	WE	TH	FR	SA			
DOM	1	2	3	4	5	6	7	8	9	10	11	
	12	13	14	15	16	17	18	19	20	21	22	
						-						
	23	24	25	26	27	28	29	30	31			

Sc	hedi	ıle N	lum	ber			2					
Day	Pla	n No)					Cl	ear a	all Fi	elds	١
Select A	II M	onth	าร				DC	W		DC	MC	
MON	J	F	М	Α	М	J	J	Α	S	0	N	D
DAY (C	ON	/)	SU	МО	ΤU	WE	TH	FR	SA			
DOM	1	2	3	4	5	6	7	8	9	10	11	
	12	13	14	15	16	17	18	19	20	21	22	
	23	24	25	26	27	28	29	30	31			

Day/Plan Event Key: 5-3

Day Pla	n in Effect		1
	Day Plan		1
Event	Action Plan	Sta	art Time
1	1		7:00
2	2		9:30
3	3	1	L4:00
4	4	1	L9:00
5			
6			
7			
8			
9			
10			
11			
12		-	
13			
14			
15			
16			
17			
18			
19			
20			
21		-	
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
and the special distribution of	romenindersettiiniste ooli kanseliiste (1900).		

ACTION PLAN

Action Plan 1

Action Plan 1			KI	EY:	5-2
Pattern	1	Sys	Override	N	0
Timing Plan	1	Seq	uence	()
Veh Det Plan	1	Det	Log	NC	NE
Flash		Red	Rest	N	0
Veh Det Diag Plan	0	Ped	Det Diag Plan		0
Dimming Enable	NO				
Action Plan Pha	ises		Max 2		
Ped Recall			Max 3		
Walk 2			CS Inh		
Veh Ext			Omit		
Veh Rcl			Spc Funct		
Max Rcl		1	Aux Funct		
Logic Statement	Contro				

Action Plan 2

Pattern	2	Sys	Override	N	Ю
Timing Plan	1	Seq	uence		0
Veh Det Plan	1	Det	et Log NO		NE
Flash		Red Rest I		N	О
Veh Det Diag Plan	0	Ped Det Diag Plan		1	0
Dimming Enable	NO				
Action Plan Pha	ases		Max 2		
Ped Recall			Max 3		
Walk 2			CS Inh		
Veh Ext			Omit		
Veh Rcl		9	Spc Funct		
Max Rcl		Aux Funct			_
Logic Statement	Contro				

Action Plan 3

Pattern	3	Sys	Override	N	0
Timing Plan	0	Seq	uence		2
Veh Det Plan	0	Det Log		пои	
Flash		Red Rest		NO	
Veh Det Diag Plan	0	Ped	Det Diag Plan		0
Dimming Enable	NO				
Action Plan Pha	ases		Max 2		
Ped Recall			Max 3		
Walk 2			CS Inh		
Veh Ext			Omit		
Veh Rcl			Spc Funct		
Max Rcl		1	Aux Funct		
Logic Statement	Control				

Action Plan 4

Pattern	FREE	Sys	Override	N	Ю
Timing Plan		Seq	uence	1	D
Veh Det Plan	0	Det	t Log NO		NE
Flash		Red Rest N		N	0
Veh Det Diag Plan	0	Ped Det Diag Plan			0
Dimming Enable	NO				
Action Plan Pha	ises		Max 2		
Ped Recall			Max 3		
Walk 2			CS Inh		
Veh Ext			Omit		
Veh Rcl		9	Spc Funct		
Max Rcl		1	\ux Funct		
Logic Statement	Contro	l			

EV PREEMPT/SCP SUBMENU

Preempt Plan 2							KEY	′: 4-1	
Phase	1	2	3	4	5	6	7	8	
Track Clr V									
Track Clr O									
Ena Trl									
Dwell Veh	<u> </u>								
Dwell Ped									
Dwell OL									
Cycle Veh									
Cycle Ped						<u> </u>			
Cycle OL	<u> </u>								
Exit Phase									
Exit Calls									
Sp Function					<u> </u>				
Entrance Times		W	alk	Ped Cl		Grn	Yel	Red	
		2	5 255		55	255	25.5	25.5	
Track Clear		Min Gn		Ext	Grn	Max G	Yel	Red	
		0		١	0	0	0	0	
Dwl/Cyc exit		Min	Min Dwell		Pmt Ext		Yel	Red	
			6		3	55	0	0	
Free Dur Prmt	R1	NO	R2	NO	R3	NO	R4	NO	
Enable		Y	es	Pmt C	vrid		X		
Det Lock			х	Delay)	
Override Flash				Durat	ion)	
Term Ovlp		N	10	PC>Ye	<u> </u>		N	0	
Ped Dark		N	10	TC Re	serv		N	0	
Link Pmt		0		Exit Fl (Color		G	RN	
Exit Tm Pln		0		Re-Se	rv)	
Interlock		NO		Term	Ph		N	0	
Inhibt		0		Dwell	Dwell Fl			FF	
Clr>Grn		NO		Pmt>0	Crd		YE5		
Inhibt Ext Time			0	FLT Ty	/pe		Hard		
Pmt Active Out			OFF	Pmt A	ctive I	Owell		OFF	
Other-Pri Pmt			OFF	Non-	Pri Pn	nt		OFF	

Preempt Plan 3 Phase	1	2	3	4	5	6	7	8	
	+ +		3	4	3	0	<u> </u>		
Track Clr V	┼								
Track Clr O			-						
Ena Trl	ļ								
Dwell Veh		Х							
Dwell Ped						ļ			
Dwell OL									
Cycle Veh									
Cycle Ped						<u> </u>			
Cycle OL								_	
Exit Phase		х							
Exit Calls		<u> </u>				<u> </u>			
Sp Function						<u> </u>			
Entrance Times		Walk		Ped Cl		Grn	Yel	Red	
		255		255		255	4	1	
Track Clear		Min Gn		Ext	Grn	Max G	Yel	Red	
		0			0	0	0	0	
Dwl/Cyc exit		Min Dwell		Pm	t Ext	Mx Tr	Yel	Red	
		6		3		55	0	0	
Free Dur Prmt	R1	NO	R2	NO			R4	NO	
Enable		Y	es	Pmt Ovrid			Х		
Det Lock			Х	Delay			. 0		
Override Flash				Duration				0	
Term Ovlp		l l	10	PC>Ye	el		N	10	
Ped Dark		1	10	TC Re	serv		N	10	
Link Pmt			0	Exit FI	Color		G	RN	
Exit Tm Pln			0	Re-Se	rv			0	
Interlock			10	Term	Ph		N	Ю	
Inhibt			0	Dwell	Fİ		0	FF	
Clr>Grn	Grn		10	Pmt>Crd			Y	E5	
Inhibt Ext Time			0	FLT T	/pe	Hard			
Pmt Active Out			OFF	Pmt A	ctive [OF		
Other-Pri Pmt			OFF	Non-	Pri Pr	nt .		OF	

Preempt Plan 4	
----------------	--

Phase	1	2	3	4	5	6	7	8		
Track Clr V										
Track Cir O										
Ena Trl	1									
Dwell Veh			х					х		
Dwell Ped										
Dwell OL										
Cycle Veh										
Cycle Ped										
Cycle OL										
Exit Phase			х					х		
Exit Calls		Ì								
Sp Function										
Entrance Times	W	alk	Pe	d Cl	Grn	Yel	Red			
	2	55	2	55	255	4	1			
Track Clear	Mir	n Gn	Ext	Grn	Max G	Yel	Red			
	- 1	0		0	0	0	0			
Dwl/Cγc exit	Dwl/Cyc exit				Pmt Ext				Yel	Red
			6	3		55	0	0		
Free Dur Prmt	R1	NO	R2	NO	R3	NO	R4	NO		
Enable		Y	es	Pmt C	vrid			X		
Det Lock			X	Delay		0				
Override Flash				Durat	ion	0				
Term Ovlp		N	10	PC>Ye	!	NO				
Ped Dark		N	Ю	TC Re	serv	NO				
Link Pmt			0	Exit Fl C	Color	G	RN			
Exit Tm Pln			0	Re-Se	rv		0			
Interlock		N	10	Term	Ph	NO				
Inhibt			0	Dwell	Fl	0	FF			
Clr>Grn		N	10	Pmt>0	Ord		YE5			
Inhibt Ext Time		(0	FLT Ty	/ре		Ha	ard		
Pmt Active Out			OFF		ctive C			OFF		
Other-Pri Pmt			OFF	Non-	Pri Pm	t		OFF		

Preempt Plan 5

Phase	1	2	3	4	5	6	7	8
Track Clr V								
Track Clr O								
Ena Trl								
Dwell Veh				х			Х	
Dwell Ped								
Dwell OL								
Cycle Veh								
Cycle Ped								
Cycle OL								
Exit Phase				х			x_	
Exit Calls	l							
Sp Function								
Entrance Times	W	alk	Pe	d Cl	Grn	Yel	Red	
	2	55	2	55	255	4	1	
Track Clear	Mir	n Gn	Ext	Grn	Max G	Yel	Red	
		0	1	0	0	0	0	
Dwl/Cyc exit		Min	Dwell	Pm	t Ext	Mx Trr	Yel	Red
The second			6	3		55	0	0
Free Dur Prmt	R1	NO	R2	NO	R3	NO	R4	NO
Enable		Y	es	Pmt C	vrid			K
Det Lock			х	Delay)
Override Flash				Durati	ion)
Term Ovlp		N	10	PC>Ye		NO		
Ped Dark		V	Ю	TC Re:	serv	NO		
Link Pmt			0	Exit Fl (Color	G	RN	
Exit Tm Pln			0	Re-Se	rv)	
Interlock		N	10	Term	Ph	N	0	
Inhibt			0	Dwell	Fl	OFF		
Clr>Grn		N	10	Pmt>0	ord	YE5		
Inhibt Ext Time			0	FLT Ty	ре		Ha	ırd
Pmt Active Out			OFF	Pmt A	ctive C	well		OFF
Other-Pri Pmt			OFF	Non-l	Pri Pm	t		OFF

TS2 DETECTION SCHEDULE

Location: Howe Ave & American River Dr

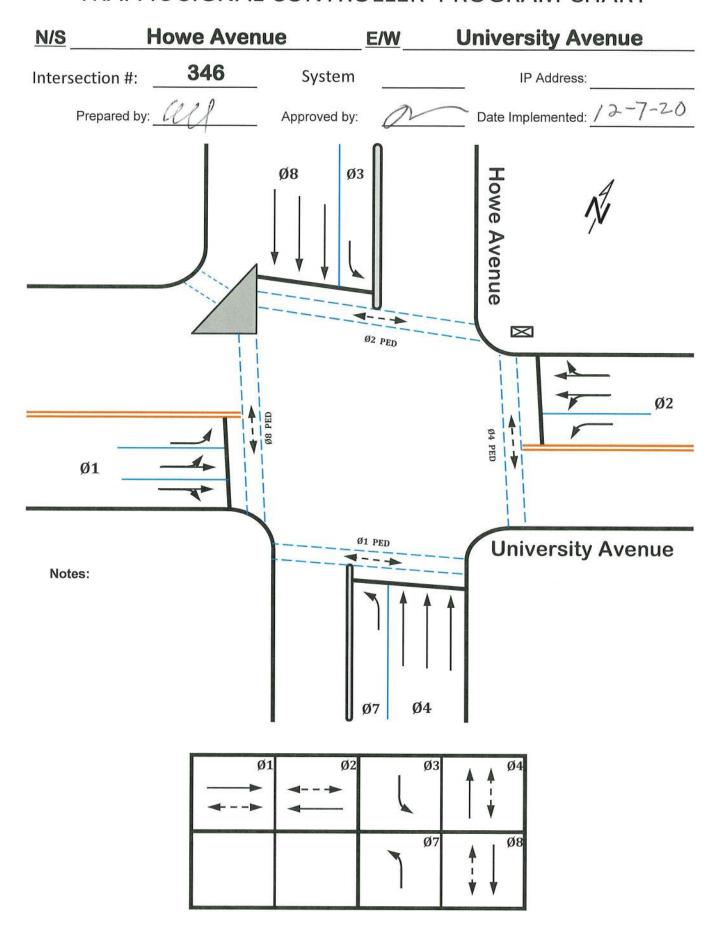
	1		1	1				C	entroller /	Datastar T	ype / Function
l] [Controller				I	Call	Passage	Extend	Delay	Notes
l	Phase	Det. Input	Location	Direction	Type	TS-2	Option	Option	Time	Time	INOTES
	Ø1	1	Door SW	EB	S	Х	Option	Option	Title	Time	
	Ø1	1	Front 1	EB	S	Х	Na constant	1			D1
1	Ø1	2	Front 2	EB	S	Х	1974 - 1974 - 1974 1974 - 1974 - 1974	4 1		144.5	D2
1	Ø1	3	Settle State (4,542.00 F		÷	7 11		V 11		The state of the s
l	Ø6	4									
	Ø6	5									
	Ø6	7									
BIU1	Ø6	8									
Δ.	Øs Øs	9 10				10			4 1	\$	
	Ø5	11	217234				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				The state of the s
1	Ø5	12	Service of the servic	and sold described by the sold of the sold	Service of the service of	1000	and the first of the second	4 195	And the section of the	April 1965	The section of the se
l	Ø2	13	Door SW	WB	S	Х	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	Ø2	13	Front 1	WB	S	X					D1
	Ø2	14	Front 2	WB	S	X					D2
	Ø2	16									
	Ø3	17	Door SW	N-W	S	Х	\$14.5 \$1.45°	£ 1 1	1000	1 1	
	Ø3	17	Rear	N-W	S	Х	\$4 <u>1</u> 3		\$17.50	\$ Villi - 15	D1
	Ø3	18	Front	N-W	S	Х	1 -1.	ji i	A 1 1	The fall of the	D2
	Ø8	21	Door SW	NB	S	Х					
	Ø8 Ø8	21	Rear	NB	S	Х					D1
	Ø8	22 23	Mid 1	NB	S	X					D2
7	Ø8	24	Mid 2 Mid 3	NB NB	S S	X					D3
BIU2	Ø7	25	Door SW	S-E	5	X		0 2		estay in the first of the first	D4
	Ø7	25	Rear	S-E	s	X		5 Jr.	. G. J. S.	ing and the second	D1
i i	Ø7	26	Front	S-E	S	. X			73		D2
	Ø4	29	Door SW	SB	S	х		15 1.3.	· · · · · · · · · · · · · · · · · · ·		
	Ø4	29	Rear	SB	5	х					D1
	Ø4	30	Mid 1	SB	S	Х					D2
	Ø4	31	Mid 2	SB	S	Х				,	D3
	Ø4	32	Mid 3	SB	S	Х					D4
	Ø1	33		20 20 30 1	<i>2</i> 1						
	Ø1 Ø6	34 35		1 1 1 1 1		1,51	Service State Communication				
	Ø6	36	Asia Salaharan Aran Terapan	Subulkas palaysidi. Resign mekaranyi di	50 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 de 100 d			<u> </u>		awww.au.com	
	Ø6	37	annanadari Aliji Kasta - M		CONTRACT TOUT	3.0			S. R. J. C. C. C. C. C. C. C. C. C. C. C. C. C.		(현실보다) 이 발표 전 전 보고 있는 것이 되었다. 그 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
	Ø6	38			- 22/21		1 4 1 1 1 1				
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13	Ø6	40					7,4	W 1	1	11.1	
BIO	Øs	41									
	Øs	42									-
ļ	Ø2	43									
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	Ø2 Ø2	45 46									
	Ø2	46									
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	Ø3	49	igameleji kistori	Sagaratakishik t	5,415,31	6,,300.00	200.00.000	San Galler	ASSOCIACIO ALIA	anagana kace	gyanaka ali aparta ana ana ana ana ana ana ana ana ana a
ľ	Ø3	50								A. Andrews	
ı	Ø8	51			S 1, 1 1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Ø8	52				13.50		3 3.43		AL TACES	A PER SECURITION AND AND ADDRESS OF
	Ø8	.53		alan da an	1000	\$4.5 PM		F - [7]	J. 51 13 17		
[Ø8	. 54								Park Ass	
4	Ø8	55	1411				Shervassy.	0.0	17 14		
š	Ø8	56		1 941 14	1 115	3.7	Andrew State		ph a C	A MAY N	
28	Ø7	57									
ŀ	Ø7	58									
F	Ø4 Ø4	59 60									
ŀ	Ø4	61									
ŀ	Ø4	62									
ŀ	Ø4	63				-+					
ŀ	Ø4	64			-+						
			rd: D-Discor				<u></u>				the same of the sa

Type: N-NTCIP; 8-8ike; S-Standard; D-Disconnect; P-Passage; C-Calling; R-Red Extend; G-Green Extend

Ext Option: Passage; Queue; None

McCain ATCeX TS2 D4

TRAFFIC SIGNAL CONTROLLER PROGRAM CHART



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Phase Timing

12/7/2020 1:15:19 PM

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Min Green	11	11	12	10	0	0	12	10	0	0	0	0	0	0	0	0
Veh Ext	2.0	2.5	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Green 1	40	40	30	64	0	0	30	64	0	0	0	0	0	0	0	0
Max Green 2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max Green 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max Ext	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellow	3.7	3.7	3.5	5.0	0.0	0.0	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Cir	0.6	0.6	1.3	0.7	0.0	0.0	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adv Flash	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bike MG	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	5	5	0	7	0	0	0	7	0	0	0	0	0	0	0	0
Ped Clr	24	24	0	17	0	0	0	17	0	0	0	0	0	0	0	0
Walk2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sol DW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Early Wlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delay Wlk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Added	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Initial	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reduce After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TTReduce	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red Revert	2.0	2.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Neg Ped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AP Disc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pmt Ped Clr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Return Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Phase Options

12/7/2020 1:15:19 PM

Phases	1-8									9-16							
Min Recalls			Π	4				8	lΓ		T	Π	Π				
Max Recalls																	
Ped Recalls																	
Soft Recall												T					
Dual Entry																	
Red Rest											T	<u> </u>					
Walk Rest											1						
Walk Expand										\top		1					
Ped Recycle										T	1						
Sim Ped Term					**********					1	\top	ļ					
PC Thru Clr										1	T	 					
Guar Passage										\top	T						
No Simult Gap											<u> </u>	<u> </u>					
Yel Lock										T	1						
Red Lock	-									T	1	T					
PhaseNext Lock	1	2	3	4			7	8		\dagger							
No Term Call				_						+	T	\vdash					
Cond Serv			-	<u> </u>					-		T	H					
CS Enable									-		+	\vdash				\neg	
Cond Reserve			ļ								T	┢				\neg	
Reserve											1	T	 		П	\exists	
Veh Omit	-									T	1	T					
Ped Omit									┢	+	\dagger						
Perm Phase									┢	+	T	 					
Protect Calls			 -							+	T						
Protect Calls 2			 						F	-	1						
Flash Entry									上	1	1					\neg	
Flash Exit						_			F	T	 	\vdash				\dashv	
Flash Exit Yel									\vdash	╁	1					\exists	
Flash Exit Red									\vdash		T					\dashv	
Ped Scramble										\top	T					\neg	
No Min Yel									\vdash	┪	1				\dashv	┪	
No Min Red Rev	-								\vdash	t					\exists		
Max Scramble Walk									-	T						\neg	
Flash Yellow	-					\exists				T						\dashv	
Flash FYA										+				\dashv		\dashv	
CNA 1					\neg				-	1	T					\dashv	
CNA 2										T	†				7	\dashv	
		L							L			_			1		

Phase Startup Options

12/7/2020 1:15:19 PM

Startup Flash	()					ſ	Vlo	de			Re	d-:	>Ye	əl
Startup All Red	(3					Υ	ello	w		0.0				
Phases				1-8						9-	16				
Startup Phases			4	4		8									
Startup Yellow			•	4		8									
Startup Red															
Startup No Walk							Г								
Startup Next	1														
Startup Yel Fls															
Startup FYA															
No Veh Call															
No Ped Call															

Phase Startup Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Unit

Red Revert 0.0 Ped Protect No AdvFls in Flash No

Ring Sequence / Conflicting Phases

12/7/2020 1:15:19 PM

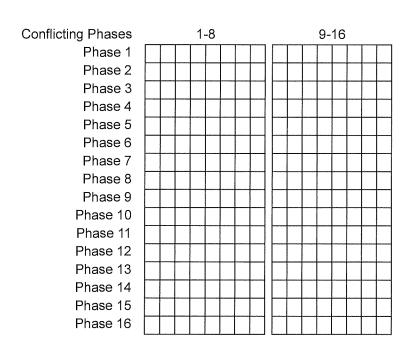
Ringgroup 1

Ring 1	1	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0
Ring 2	0	0	7	8	0	0	0	0	0	0	0	0	0	0	0	0

Ringgroup 2

Custom Sequences

relices																
Seq 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seq 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Coordination Options

Sync Time	00:00	RTC Set Time	00:00
Transition Mode	Best 2	Ped Adjust	None
Trans Short %	25	Trans Long %	35
Offset Reference	Lag Grn	Short Cycles	0
Dual Entry	Strict	Overlap F/O	Disabled
Master Sync Mode	RTC	Master Sync Length	0
Adapt Thresh	3	Adapt Step	2
External Plan Max	0		
Hardwire No Match	Sched	Hardwire Sync Fail	0
Override Omit/Recall	No		
Phases	1-8	9-16	
No Trans Recall			
Trans Ped Recall			
Trans Phases			

Coordination Pattern 1

Cycle	120	Ring	group	1 - 0	ffset 1	1 5	5	Offse	et 2	0	Offs	set 3	0						
·	<u> </u>	1 -	- ,	2 - 0				Offse	L	0		set 3	0	 					
Phase	1	2	3	4	5	6	 7	8	9	10	11	12	13	14	15	16			
Splits	34	34	17	35	0	0	18	34	0	0	0	0	0	0	0				
Split Ext	0	0	10	25	0	0	0	25	0	0	0	0	0	0	0	0			
Float Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Perm Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Min Trans Split	9	9	9	9	0	0	9	9	0	0	0	0	0	0	0	0			
Max Trans Split	45	45	25	55	0	0	30	50	0	0	0	0	0	0	0	0			
Split 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PA Before	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PA After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TARICI				Ι σ					1 0		L	L		0					
Permissive Mode	R	leserv	rice		Max	Mode	e	Max	x Inh		V	/alk R	est		Yield				
Ped Permissive		Yield	t																
Permissive Limit	0]		F	erm 2	2 Star	t C)			Per	m 2 E	End [0					
Alt Sequence					TOD) Link	0												
Phases/Overlaps		1-	-8			9-16	3		Tr	ans M	lode		Defau	lt					
Coord Phases		4		8					(Offset	Ref		Defau	lt					
No Extend									Adap	tive M	lode	Г	Disable	-d					
Float Enable									, laup	.,	ouc								
Veh = Ped Perm										Dica	ble Pr	iority	П						
Walk Rest									_			•							
Ped Recall									Prog	gressi	on Ph	ases					Ш		
Cond Ped Call										Prio	rity Alf	t Seq							
Olap Ped Recall										Rese	rve Ex	ktend							
Ped Recycle														LL					
Min Recall																			
Max Recall																			
Cond Serv																			
Reservice																			
Veh Omit																			
Ped Omit																			
Olap Omit																			
Perm Reserve																			
Perm 1 Phases																			
Max Inhibit																			
FYA Omit							\Box												
Adapt Phases																			
Priority Timing-Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
Priority Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Recovery Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

Coordination Pattern 2

Cycle	130	Ring	iarour	1 - C)ffset 1	1 30	<u>ה</u>	Offse	t 2 「	0	Offs	set 3	0	l						
3,3,5		_							L				L]]						
		King	group	2 - C	niset	1 0		Offse	12	0	Olis	set 3	0							
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Splits	36	36	17	41	0	0	17	41	0	0	0	0	0	0	0	0				
Split Ext	0	0	0	35	0	0	0	35	0	0	0	0	0	0	0	0				
Float Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Perm Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Min Trans Split	21	21	7	21	0	0	7	21	0	0	0	0	0	0	0	0				
Max Trans Split	51	51	27	61	0	0	27	61	0	0	0	0	0	0	0	0				
Split 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PA Before	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PA After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
D							_		1 1								1			
Permissive Mode	L F	Reserv			Max	Mode	9	Max	(lnh		V۱	<i>l</i> alk R	est [Yield		ļ			
Ped Permissive		Yield	t																	
Permissive Limit	0]		ı	Perm :		L				Per	m 2 E	ind [0						
Alt Sequence					TOE) Link	0													
Phases/Overland		1-	0			9-16	2		Tn	ans M	lada		Defau	14	7					
Phases/Overlaps Coord Phases		, , , , , , , , , , , , , , , , , , , ,	-0 	ा ।		9-10) 	т				L			_					
		4		8				\perp	(Offset	Ref		Defau	lt						
No Extend			$\dashv \downarrow$					1	Adap	tive M	lode		Disable	ed						
Float Enable						44	4	\perp	•											
Veh = Ped Perm							1-1-			Disa	ble Pr	iority	П							
Walk Rest							<u> </u>		Dro			•				\dashv		т-т-	ТТ	
Ped Recall									PIO	gressi						ᆜᆜ				
Cond Ped Call								Ш		Prio	rity Al	t Seq								
Olap Ped Recall										Rese	rve Ex	ctend								
Ped Recycle													LL	II						
Min Recall																				
Max Recall																				
Cond Serv																				
Reservice																				
Veh Omit																				
Ped Omit																				
Olap Omit																				
Perm Reserve																				
Perm 1 Phases						11														
Max Inhibit							$\dagger \dagger$	\top												
FYA Omit					$\dashv \uparrow$	11	$\top \top$	T												
Adapt Phases																				
Priority Timing-Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Priority Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
Recovery Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			

Coordination Pattern 3

Cycle	130	Ring	group	1 - 0	ffset 1	10	00	Offse	et 2 🗌	0	Offs	set 3	0							
		Ring	group	2 - 0	ffset 1	С)	Offse	et 2 [0	Offs	set 3	0							
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Splits	36	36	17	41	0	0	17	41	0	0	0	0	0	0	0	0	1			
Split Ext	0	0	0	10	0	0	0	10	0	0	0	0	0	0	0	0				
Float Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Perm Min Green	12	12	8	12	0	0	8	12	0	0	0	0	0	0	0	0				
Min Trans Split	9	9	9	6	0	0	9	9	0	0	0	0	0	0	0	0				
Max Trans Split	45	45	35	65	0	0	35	65	0	0	0	0	0	0	0	0				
Split 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PA Before	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PA After	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
		·		· · · · · · · · · · · · · · · · · · ·							4	·								
Permissive Mode	R	eserv	ice		Max	Mod	е	Ма	x Inh		V	<i>l</i> alk R	est [Yield					
Ped Permissive		Yield																		
Permissive Limit	0			ŀ	erm :	2 Stai	rt C				Per	m 2 E	ind [0						
Alt Sequence					TOD) Link	0													
Phases/Overlaps		1-	0			9-1	6		Τr	ans M	lodo		Defau	1+	_					
Coord Phases		4	 	8		9-11 T T	 					L			_					
No Extend		4		쒸					(Offset	Ref		Defau	lt						
Float Enable			-		-	+		+	Adap	tive M	lode		Disable	ed						
Veh = Ped Perm																				
Walk Rest								+		Disa	ble Pr	riority								
Ped Recall								+	Prod	gressi	on Ph	ases				一一	<u> </u>	$\overline{\Box}$	ТТ	\top
Cond Ped Call	-			+	+			+										Ш		
Olap Ped Recall	-										rity Al									
Ped Recycle			+	++	$\dashv \dashv$	++	++	+		Rese	rve Ex	ktend								
Min Recall			-					+												
Max Recall																				
Cond Serv	 							+												
Reservice			+	+	++	++		++												
Veh Omit	-			+	++	++		++												
Ped Omit	-			++	-++	++		+												
Olap Omit	-			+	-++	++	+	+												
Perm Reserve					-+-+	\dashv														
Perm 1 Phases	-			++	++	++		++												
Max Inhibit				++		++	++-	+-												
FYA Omit				++	-	++	++	+												
Adapt Phases			+	$+ \parallel$				+												
riority Timing-Phase	1	2	3	، ب 4	5	6	7	8	9	10	11	12	13	14	15	16				
Priority Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
Recovery Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			

Preempt Inputs

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Preempt Input	1	2	3	4	5	6	7	8	9	10
Delay	0	0	0	0	0	0	0	0	0	0
Checkout Limit	0	0	0	0	0	0	0	0	0	0
Locked	No									
Interlock	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Input Number	0	0	3	4	5	6	0	0	0	0
Input Priority	All	All	All	All	All	All	All	All	All	All
Delay Mode	Inp									

Preempt Priority

Preempt	1	2	3	4	5	6	7	8	9	10
Priority	0	0	0	0	0	0	0	0	0	0

Remote Preemption

Remote Preempt	RM 1	RM 2	RM 3	RM 4	RM 5	RM 6	RM 7	RM 8
Int Number	0	0	0	0	0	0	0	0
PE Number	0	0	0	0	0	0	0	0
Mode	Dis	Dis	Dis	Dis	Dis	Dis	Dis	Dis
Slack	0	0	0	0	0	0	0	0
Travel Time	0	0	0	0	0	0	0	0
Alt TT 1	0	0	0	0	0	0	0	0
Alt TT 2	0	0	0	0	0	0	0	0
Alt TT 3	0	0	0	0	0	0	0	0
Alt TT 4	0	0	0	0	0	0	0	0
Alt TT 5	0	0	0	0	0	0	0	0
Alt TT 6	0	0	0	0	0	0	0	0
Alt TT 7	0	0	0	0	0	0	0	0

										Ρ	re	en	npt :	3 ((Configuration)	12	/7/2020 1:15:19 P	M
Enabled			Υ	'es]				Эw	ell l	Mod	le	Normal	Output Mode	e All	
Output2 Mode			-/	ΑII]				Fa	ail A	Actio	n	Preempt Off	Exit Mode	e Normal	
Override Flash			١	Vo				Ch	an	ge	Ph	nas	enex	×t	Yes			
Enable Phases Preempt Inputs			3	1-	8						9-^	16			LRV Disable LRV Dwell Flash LRV Omit LRV No Yel	1-8	Max 0 Delay 0	
								Pr	ee	m	pt	3 (Tim	nin	ng/Phases/Overlaps)			
Dlana a la /Occasilació				,	_							٠.			. ,			
Phases/Overlaps	_			1-	8						9-1	16			Start Green	О	Start Walk 0	l
Omit Olap Grn Clr					\perp	_	$\perp \downarrow$	_			_	_			Start Green		Start Walk	1
Phs EWIk to Grn		1	_		_	_	\sqcup	ļ			_	_				St	art Ped Clr 0	ĺ
TClr 1 Veh Phases	L				_	_	\perp	<u> </u>			4		_					
TCIr 1 Ped Phases	_			\dashv	_	_				_	_	_			Track Clear 1	0 Tra	ack Clear 2 0	
TCIr 1 Olap							1	<u></u>		_	_	_			TC1 Extend		TC1 May 0	l
TClr 1 Olap Ped	_							_							TC1 Extend	0	TC1 Max 0	I
TClr 2 Veh Phases															Exit Ped Clr	0	Exit Yellow 0.0	
TClr 2 Ped Phases																	2.00	
TClr 2 Olap															Exit Red	0.0		
TClr 2 Olap Ped																	<u></u>	
Init Dwell Phases															Min Dwell	6 M	in Duration 0	
Dwell Veh Phases	1						\Box								Durall Futanal			
Dwell Ped Phases			7		1	1	\Box								Dwell Extend	3		
Dwell Olap		T		\neg	\neg	+	T					1			Max Dwell	55	Max Call 0	_
Dwell Olap Ped	-				+		\forall	H		\dashv	7	\dashv	+		I Wax Dwell		Max Gall	
Exit Veh Phases	1		_		+		H	\vdash		\dashv		+	+		Reserve Inh Same	0		
Exit Ped Phases	H	\vdash	1	\dashv	+		+	\vdash		_		\dashv	-	-				
Exit Olap	-			-		+	H	Н				+			Reserve Inh All	0		
Exit Olap Ped	\vdash	Н	+	\dashv		+	+	-			+	-			Dolov			
Zero Phase Walk		2		4	- 6	3	8	Н		_	+	+	+		Delay	0		
Zero Phase Ped Clr	\vdash	-	\dashv	-	- -	+	\dashv				\dashv	-	+	<u> </u>	Phases/Overlaps	1-8	9-16	
Zero Phase Green		H	\dashv			+	${\mathbb H}$	\vdash		_	\dashv	-	+		TCIr 1 FR Olap			П
Zero Olap Walk	-	\vdash	\dashv		+	-	+	\mathbb{H}		-	\dashv		-		TClr 2 FR Olap			\vdash
Zero Olap Ped Clr	-	\vdash	\dashv		-		+	H		\dashv	\dashv	+			Dwell FR Olap			\vdash
Zero Olap Fed Cli Zero Olap Green	-	\vdash		_	+	+	\vdash	\vdash		-	-	_			TCIr 1 FYA			\vdash
Dwell-Phase Red	-	\dashv		\dashv	_	+	H	\vdash	-	\dashv	\dashv	-	+		TCIr 2 FYA			H
Dwell-Phase Red Flash	-	H	4	+	+	+	\vdash	-	\dashv	\dashv	+				Dwell FYA	- - - - - - 		$\vdash \vdash$
			_	\dashv	+	-	$\vdash \vdash$	\vdash	\dashv	\dashv	_	+	+		DWGII IA			Ш
Dwell-Phase Yel Flash	\vdash	\sqcup		_	+	+	\sqcup	\vdash		_	4	\perp	+					
Dwell-Olap Red Flash	<u></u>		\dashv	_	+	-	\sqcup	Н	_	_	\dashv	\perp	+					
Dwell-Olap Yel Flash			_	_	_		Ш		_	_	4	_	4					
Dwell-Ped Dark		\sqcup	\dashv	4			Ш			_	_							
Dwell-Olap Ped Dark		Ιİ	- 1	İ		-			l	- 1								

										Ρ	ree	em	pt 4	. (Configuration)		12/7/2020 1:1	5:19 PM
Enabled			Y	es"]				Dwe	ell N	Лode	9	Normal	Output N	Mode F	All
Output2 Mode			_/	Δ ΙΙ		·					Fa	il A	ction	1	Preempt Off	Exit N	Mode Nor	rmal
Override Flash			1	No				Ch	an	ge	Ph	ase	enex	t	Yes			
Enable Phases		П	T	1- T	8 T		1 1		Π	П	9-1 T	6 T		_	LRV Disable		l-8 ☐	0
Preempt Inputs	\vdash	\vdash		4		╁	+				+		++	-	LRV Dwell Flash			L
	L					!_			LI			L_						
															LRV Omit		Dela Dela	ıy O
															LRV No Yel			
								Pr	ee	m	pt 4	4 (Timi	in	g/Phases/Overlaps)			
Phases/Overlaps				1-	R						9-1	•			. ,			
Omit Olap Grn Clr	Γ			- -		Т	$\overline{}$				J- 1	-	ТТ	_	Start Green	0	Start Walk	0
Phs EWlk to Grn	-	H	\dashv		-	-	+	-	\vdash			+	+	_				
TClr 1 Veh Phases	-	H	\dashv	-	+	+		-		_		+	++				Start Ped Clr	0
TCir 1 Ped Phases		H	\dashv	+	+	+	+	-	Н			-	+	-	Track Clear 1	0	Track Clear 2	0
TClr 1 Olap					\dashv	-	+	\vdash			+	+	++	-	Hack Clear I		Hack Clear Z	
TClr 1 Olap Ped	-	H	_	_	_	-	+	-		\dashv		+	++		TC1 Extend	0	TC1 Max	0
TClr 2 Veh Phases	\vdash				\dashv	+	+					\top	++					
TClr 2 Ped Phases	\vdash					\dagger	+	-		7		- -	+		Exit Ped Clr	0	Exit Yellow	0.0
TClr 2 Olap												\top	+		Exit Red	0.0		
TClr 2 Olap Ped	\vdash	H			\dashv	\dagger	\top					_	11		EXITIO	<u> </u>		
Init Dwell Phases					_	\dagger	\top			7		_	11		Min Dwell	6	Min Duration	0
Dwell Veh Phases		2			1	T						\top	17		Durall External			
Dwell Ped Phases		П			1	\top						1	11		Dwell Extend	3		
Dwell Olap					1	T	77					1	11		Max Dwell	55	Max Call	0
Dwell Olap Ped					T	T							11	_				
Exit Veh Phases		2			1	T	T								Reserve Inh Same	0		
Exit Ped Phases												T			Doggradah All			
Exit Olap						1									Reserve Inh All	0		
Exit Olap Ped		П													Delay	0		
Zero Phase Walk		2		4		6	8								•			
Zero Phase Ped Clr		П													Phases/Overlaps	1-8	9-	16
Zero Phase Green															TClr 1 FR Olap			
Zero Olap Walk															TClr 2 FR Olap			
Zero Olap Ped Clr				\perp										_	Dwell FR Olap			
Zero Olap Green														╛	TCIr 1 FYA		\bot	
Dwell-Phase Red															TClr 2 FYA			
Dwell-Phase Red Flash		Ц		\perp	\perp		$\perp \downarrow$							\sqcup	Dwell FYA			
Dwell-Phase Yel Flash			_		\perp	_												
Dwell-Olap Red Flash		Ц		_		\perp				\perp			\coprod	\Box				
Dwell-Olap Yel Flash			_	_	_	_	1	ļ		$\perp \mid$		_		\rfloor				
Dwell-Ped Dark		Ц	_	_	_	\bot	$\perp \perp$				_	_	$\perp \perp$	\rfloor				
Dwell-Olap Ped Dark	1			- [Ιİ		- 1			- 1				

										Ρ	ree	emp	t 5	(Configuration)		12/7	7/2020	1:15	:19	PM
Enabled			Y	'es]			Е)we	ll M	ode	Normal	Outpo	ut Mode		All		
Output2 Mode				4]				Fai	l Ac	tion	Preempt Off	Ex	kit Mode		Norn	nal	
Override Flash			1	Vo]	Ch	an	ge	Pha	aser	next	Yes						
Enable Phases Preempt Inputs				1-	5			Dr			9-16		imin	LRV Disable LRV Dwell Flash LRV Omi LRV No Ye	t	1-8		/lax Delay		0
DI (O I					^			FI	CC	•		•	11 1 111 1	ig/Filases/Overlaps/						
Phases/Overlaps Omit Olap Grn Clr	Г	П		1- 	8 T	_	T			- <u>'</u>	9-16	i TT] Start Greer	1 0	5	Start W	/alk	0	
Phs EWIk to Grn					1	\top	+			1	\dashv				L		rt Ped			
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TOD Pattern Events

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Event 1	07:00		ΠT	W	T	F			Π								Sched	1	1
Event 2	09:30	SN	1 T	W	Т	F	S										Sched	2	1 1
Event 3	14:00	SN	1 T	W	T	F	S										Sched	3	1
Event 4	19:00	SN	1 T	W	T	F	S										Free	0	0
Event 5	00:00																Sched	0	0
Event 6	00:00																Sched	0	0
Event 7	00:00		1											T			Sched	0	0
Event 8	00:00																Sched	0	0
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Event 31	00:00													1			Sched	0	0
Event 32	00:00																Sched	0	0

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12/7/2020 1:15:19 PM	LS 8	VehRed	8	VehYel	∞	VehGm	∞
12/7/2	LS 7	VehRed		VehYel	7	VehGrn	7
	PS 9	VehRed	9	VehYel	9	VehGrn	9
(BIU 1)	LS 5	VehRed	5	VehYel	2	VehGrn	5
Load Switch Outputs (BIU 1)	LS 4	VehRed	4	VehYel	4	VehGrn	4
Load	LS 3	VehRed	က	VehYel	ဘ	VehGrn	က
	LS 2	VehRed	2	VehYel	2	VehGrn	2
	LS 1	VehRed	1	VehYel	1	VehGrn	1
		Red Function	Red Index	Yellow Function	Yellow Index	Green Function	Green Index

Load Switch Outputs (BIU 2)

					()				
	LS 9	LS 10	LS 11	LS 12	LS 13	LS 14	LS 15	LS 16	
Red Function	DntWlk	DntWlk	DntWik	DntWlk	VehRed	VehRed	VehRed	VehRed	
Red Index	2	4	_	∞	0	0	0	0	
Yellow Function	PedClr	PedCir	PedClr	PedClr	VehRed	VehRed	VehRed	VehRed	
Yellow Index	0	0	0	0	0	0	0	0	
Green Function	Walk	Walk	Walk	Walk	VehRed	VehRed	VehRed	VehRed	
Green Index	2	4	.	∞	0	0	0	0	

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12/7/2020 1:15:19 PM

1/0 13	VehRed	0
1/0 12	VehRed	0
1/0 11	VehRed	0
I/O 10	VehRed	0
	Output	Index

T/F Outputs (BIU 2)

1/0 15	VehRed	0
/ 1/0 14	VehRed	0
/0 13	VehRed	0
1/0 12	VehRed	0
1/0 11	VehRed	0
1/0 10	VehRed	0
	Output	Index

T/F Outputs (BIU 3)

OUT 8	VehRed	0	1/01	VehRed	0			
OUT 7	VehRed	0	OUT 15	VehRed	0	T T T T T T T T T T T T T T T T T T T		
OUT 6	VehRed	0	OUT 14	VehRed	0	The state of the s		
OUT 5	VehRed	0	OUT 13	VehRed	0	90/1	VehRed	0
OUT 4	VehRed	0	OUT 12	VehRed	0	1/05	VehRed	0
OUT 3	VehRed	0	OUT 11	VehRed	0	1/04	VehRed	0
OUT 2	VehRed	0	OUT 10	VehRed	0	1/03	VehRed	0
OUT 1	VehRed	0	OUT 9	VehRed	0	1/02	VehRed	0
	Output	Index	1	Output	Index	J	Output	Index

T/F Outputs (BIU 4)

OUT 8	VehRed	0	1/01	VehRed	0	60/I	VehRed	0
OUT 7	VehRed	0	OUT 15	VehRed	0	8 0/1	VehRed	0
OUT 6	VehRed	0	OUT 14	VehRed	0	1/0 /	VehRed	0
OUT 5	VehRed	0	OUT 13	VehRed	0	9 0/1	VehRed	0
OUT 4	VehRed	0	OUT 12	VehRed	0	1/05	VehRed	0
OUT 3	VehRed	0	OUT 11	VehRed	0	1/04	VehRed	0
OUT 2	VehRed	0	OUT 10	VehRed	0	1/03	VehRed	0
OUT 1	VehRed	0	OUT 9	VehRed	0	1/02	VehRed	0
	Output	Index	l	Output	Index		Output	Index

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Detector Inputs (BIU 9)

			ב	Defector impais	(e O		711771	12/1/2020 1:10:19 F IVI
	Det 1	Det 2	Det 3	Det 4	Det 5	Det 6	Det 7	Det 8
Function	VehDet	VehDet	VehDet	VehDet	None	None	None	None
Index	_	2	က	4	0	0	0	0
-	Det 9	Det 10	Det 11	Det 12	Det 13	Det 14	Det 15	Det 16
Function	None	None	None	None	None	None	None	None
Index	0	0	0	0	13	14	15	0

Detector Inputs (BIU 10)

Det 24	None	0	Det 32	None	0
Det 23	VehDet	23	Det 31	None	0
Det 22	VehDet	22	Det 30	VehDet	30
Det 21	VehDet	21	Det 29	VehDet	29
Det 20	None	0	Det 28	None	0
Det 19	None	0	Det 27	None	0
Det 18	None	18	Det 26	None	26
Det 17	None	17	Det 25	None	25
'	Function	Index	-	Function	Index

346 - Howe & University

			Dete	Detector Inputs (BIU 11)	U 11)		12/7/2	12/7/2020 1:15:19 PM
	Det 33	Det 34	Det 35	Det 36	Det 37	Det 38	Det 39	Det 40
Function	VehDet	VehDet	None	None	None	None	None	None
Index	33	34	0	0	0	0	0	0
	Det 41	Det 42	Det 43	Det 44	Det 45	Det 46	Det 47	Det 48
Function	None	None	VehDet	VehDet	None	None	None	VehDet
Index	0	0	43	44	0	0	0	48

(<u>`</u>	_
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	2	2
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		Ι	1		Γ
Det 56	None	0	Det 64	None	0
Det 55	None	0	Det 63	VehDet	63
Det 54	None	0	Det 62	None	0
Det 53	None	0	Det 61	None	0
Det 52	None	0	Det 60	None	0
Det 51	VehDet	51	Det 59	VehDet	59
Det 50	None	0	Det 58	None	0
Det 49	VehDet	49	Det 57	VehDet	25
	Function	ludex	I	Function	Index

346 - Howe & University

12/7/2020 1:15:19 PM	1/0 21	None	0	IN 5	VehDet	49						1/0 23	None	0	N 7	None	0			
217/21	1/0 20	None	0	4 N	VehDet	43	OPTO 4	PedDet	4			1/0 22	None	0	9 NI	None	0			
	1/0 19	None	0	EN3	VehDet	33	OPTO 3	PedDet	0			1/0 21	None	0	IN 5	None	0			
	1/0 18	AutoFlash	_	IN 2	StopTm	2	OPTO 2	PedDet	2	ć	7)	1/0 20	VehDet	35	4 NI	MMUFlash	~	OPTO 4	PedDet	8
T/F Inputs (BIU 1)	1/0 17	VehDet	51	Z L	StopTm	5	OPTO 1	None	0	יוווט/ דייידו בו	1/F Inputs (BIU 2)	1/0 19	Preempt	9	E N	LocFlash	_	OPTO 3	PedDet	0
—	1/0 16	VehDet	57	1/0 24	None	0	8 N	None	0	r		I/O 18	Preempt	5	IN 2	None	0	OPTO 2	PedDet	9
	1/0 15	None	0	1/0 23	ExtStr	5	LN 7	VehDet	41			1/0 17	Preempt	4	Z Z	None	0	OPTO 1	None	0
	1/0 14	None	0	1/0 22	None	0	9 N	VehDet	59			1/0 16	Preempt	3	1/0 24	None	0	8 N	None	0
	İ	Input	Index	I	Input	Index	I	Input	Index				Input	Index	I	Input	Index	1	Input	ludex

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12/7/2020 1:15:19 PM	1/0 14	None	0	1/0 22	None	0	9 NI	None	0					1/0 17	None	0	Z	None	0	OPTO 1	None	0			
12/7/20	1/0 13	None	0	1/0 21	None	0	IN 5	None	0					1/0 16	None	0	1/0 24	None	0	8 NI	None	0	-		
	1/0 12	None	0	1/0 20	None	0	1N 4	None	0	OPTO 4	None	0		1/0 15	None	0	1/0 23	None	0	N 7	None	0			
3)	1/0 11	None	0	1/0 19	None	0	N3	None	0	OPTO 3	None	0	4)	I/O 14	None	0	1/0 22	None	0	9 NI	None	0			
T/F Inputs (BIU 3)	1/0 10	None	0	1/0 18	None	0	IN 2	None	0	OPTO 2	None	0	T/F Inputs (BIU 4)	1/0 13	None	0	1/021	None	0	N 5	None	0			
,	6 0/1	None	0	1/0 17	None	0	- N	None	0	OPTO 1	None	0	I Total	1/0 12	None	0	1/0 20	None	0	4 N	None	0	OPTO 4	None	0
	8 0/1	None	0	1/0 16	None	0	1/0 24	None	0	8 <u>N</u>	None	0		1/0 11	None	0	1/0 19	None	0	8 <u>N</u>	None	0	OPTO 3	None	0
	Z 0/I	None	0	1/0 15	None	0	1/0 23	None	0	<u> </u>	None	0		1/0 10	None	0	1/0 18	None	0	IN 2	None	0	OPTO 2	None	0
		Input	Index	ı	Input	Index	!	Input	ludex	1	Input	Index			Input	Index	I	Input	Index	1	Input	ludex	I	Input	lndex

Cabinet / MMU Configuration

12/7/2020 1:15:19 PM

			1-8			9-16	
Cabinet Type	TS2-2N	MMU Channel Ignore					
MMU Disable	No	Det BIU 1-No Fail Call					
		Det BIU 2-No Fail Call					
		Alt LS Flash					
		Alt Phase Flash	2 4	6 8			
		Alt Overlap Flash					
		Alt LRV Flash					
			1-8			9-16	
		CMU Channel Ignore	1 2 3 4 5	6 7 8	9 0 1	2 3 4	5 6
			17-24	4		25-32	
			7 8 9 0 1	2 3 4	5 6 7	890	1 2
			1-8			9-16	
		Det IASM1-Det Diag					
			17-24	4			
			1-8			9-16	
		Det IASM2-Det Diag				ΤΪΪ	
			17-24	<u></u>			

Phase / Overlap Outputs

	Phase	Overlap
1	Normal	Normal
2	Normal	Normal
3	Normal	Normal
4	Normal	Normal
5	Normal	Normal
6	Normal	Normal
7	Normal	Normal
8	Normal	Normal
9	Normal	Normal
10	Normal	Normal
11	Normal	Normal
12	Normal	Normal
13	Normal	Normal
14	Normal	Normal
15	Normal	Normal
16	Normal	Normal

LRV Outputs

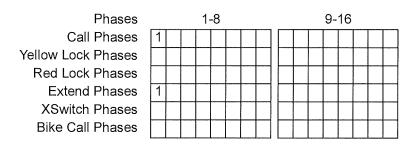
	LRV
1	2 Head
2	2 Head
3	2 Head
4	2 Head
5	2 Head
6	2 Head
7	2 Head
8	2 Head

Vehicle Detector 1

12/7/2020 1:15:19 PM

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay	0.0 Exter	nd 0.0 Carryove	r 0.0 Queue Lim	nit 0	
Mode	No Disc	Added Dis	sabled Sys	stem Disable	łd .
Fail Mode	None	Max Pres 0	No Act 0	Erratic 0	Fail Time 0
Delay 2	0.0				



Vehicle Detector 3

12/7/2020 1:15:19 PM

Delay	0.0	Extend 0.0	Carryove	r 0.0 Queue	Limit 0	
Mode	No Disc	Ad	lded Di	sabled	System Disable	ed
Fail Mode	None	Max Pre	s 0	No Act 0	Erratic 0	Fail Time 0
Delay 2	0.0					
Phases	1-8		9-16			
Call Phases	1]		
ellow Lock Phases				1		
Red Lock Phases				1		
Extend Phases	1			1		
XSwitch Phases				1		
Bike Call Phases				1		
			······································	_		

Delay	0.0 Exter	d 0.0 Carryove	er 0.0 Queue Lir	mit 0		
Mode	No Disc	Added Di	sabled Sy	vstem	Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic	0 Fail T	ime 0
Delay 2	0.0					

Phases	1-8				9-16										
Call Phases	1														
Yellow Lock Phases						 									
Red Lock Phases															
Extend Phases	1														
XSwitch Phases											**********				
Bike Call Phases															

Vehicle Detector 21

12/7/2020 1:15:19 PM

Delay	0.0 E	xtend 0.0	Carryove	er 0.0 Queue Lir	mit 0
Mode	No Disc	Ad	lded Di	sabled Sy	stem Disabled
Fail Mode	None	Max Pres	s 0	No Act 0	Erratic 0 Fail Time 0
Delay 2	0.0				
Phases	1-8		9-16		
Call Phases		8			
ellow Lock Phases					
Red Lock Phases					
Extend Phases		8			
XSwitch Phases					
Bike Call Phases					
			<u> </u>	-	

Delay	0.0 Exte	nd 0.0 Car	rryover 0.0	Queue Limit 0		
Mode	No Disc	Added	Disabled] System	Disabled	
Fail Mode	None	Max Pres 0	No Act	0 Errat	ic 0 Fail Tim	ne 0
Delay 2	0.0					

Phases	1-8						9-16								
Call Phases							8								
Yellow Lock Phases															
Red Lock Phases															
Extend Phases							8								
XSwitch Phases															
Bike Call Phases															

Vehicle Detector 23

12/7/2020 1:15:19 PM

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay	0.0 E	Extend 0.0	Carryover	0.0 Que	ue Limit 0			
Mode	No Disc	Adde	ed Dis	abled	System [Disabled	1	
Fail Mode	None	Max Pres	0	No Act 0	Errati	c 0	Fail Time	0
Delay 2	0.0							

Phases	1-8						9-16									
Call Phases				4				$\ $								
Yellow Lock Phases																
Red Lock Phases																
Extend Phases				4												
XSwitch Phases					-											
Bike Call Phases																

Vehicle Detector 30

12/7/2020 1:15:19 PM

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay	0.0 Exter	nd 0.0 C	arryover 0.0	Queue Limit 0		
Mode	No Disc	Added	Disabled] System [Disabled]
Fail Mode	None	Max Pres	0 No Act	0 Errati	c 0 Fail	Time 0
Delay 2	0.0					

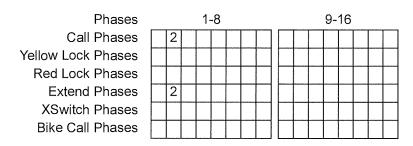
Phases	1-8						9-16									
Call Phases	1					 <u> </u>										
Yellow Lock Phases																
Red Lock Phases																
Extend Phases	1															
XSwitch Phases								$\ $								
Bike Call Phases																

Vehicle Detector 34

12/7/2020 1:15:19 PM

Delay	0.0 Extend 0.0	Carryover 0.0 Queue I	Limit 0
Mode	No Disc Ad	dded Disabled	System Disabled
Fail Mode	None Max Pre	s 0 No Act 0	Erratic 0 Fail Time 0
Delay 2	0.0		
Phases	1-8	9-16	
Call Phases	1		
Yellow Lock Phases			
Red Lock Phases			
Extend Phases			
XSwitch Phases			
Bike Call Phases			
	to the second se		

Delay	0.0 Exte	nd 0.0 Carr	yover 0.0	Queue Limit 0)	
Mode	No Disc	Added	Disabled	System	Disabled	
Fail Mode	None	Max Pres 0	No Act	0 Errat	ic 0 Fa	ail Time 0
Delay 2	0.0					

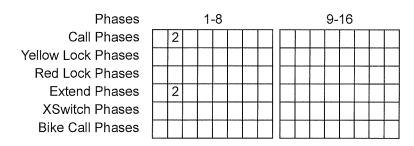


Vehicle Detector 44

12/7/2020 1:15:19 PM

Delay	0.0 Exte	end 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc	Added Disabled System Disabled
Fail Mode	None	Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0	
Phases	1-8	9-16
Call Phases	2	
Yellow Lock Phases		
Red Lock Phases		
Extend Phases	2	
XSwitch Phases		
Bike Call Phases		

Delay	0.0 Exte	end 0.0 Carryove	er 0.0 Queue I	_imit 0]	
Mode	No Disc	Added Di	sabled	System	Disabled	
Fail Mode	None	Max Pres 0	No Act 0	Erratic	0 Fail	Time 0
Delay 2	0.0					



Vehicle Detector 49

12/7/2020 1:15:19 PM

Delay	0.0 Extend 0.0 Carryover 0.0 Queue Limit 0
Mode	No Disc Added Disabled System Disabled
Fail Mode	None Max Pres 0 No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0
Phases	1-8 9-16
Call Phases	
ellow Lock Phases	
Red Lock Phases	
Extend Phases	
XSwitch Phases	
Bike Call Phases	

Delay	0.0 Ext	tend 0.0 Carry	over 0.0	Queue Limit	0		
Mode	No Disc	Added	Disabled	Syste	m Disable	ed .	
Fail Mode	None	Max Pres 0] No Act	0 E	rratic 0	Fail Time	0
Delay 2	0.0						

Phases	1-8							9-16							
Call Phases							8								
Yellow Lock Phases								ĺ					*********		
Red Lock Phases								I							
Extend Phases							8	ſ							
XSwitch Phases															
Bike Call Phases															

Vehicle Detector 57

12/7/2020 1:15:19 PM

Delay	0.0 Extend	d 0.0 Carryover	0.0 Queue Limit 0
Mode	No Disc	Added Dis	sabled System Disabled
Fail Mode	None	Max Pres 0	No Act 0 Erratic 0 Fail Time 0
Delay 2	0.0		
Phases	1-8	9-16	
Call Phases	7		
ellow Lock Phases			
Red Lock Phases			
Extend Phases	7		
XSwitch Phases			
Bike Call Phases			
			1

Delay	0.0 E	extend 0.0	Carryover	0.0 Queu	ie Limit 0			
Mode	No Disc	Adde	ed Dis	abled	System [Disabled		
Fail Mode	None	Max Pres	0	No Act 0	Errati	c 0	Fail Time [0
Delay 2	0.0							

Phases	1-8						9-16								
Call Phases				4								,			
Yellow Lock Phases															
Red Lock Phases															
Extend Phases				4											
XSwitch Phases															
Bike Call Phases															

	i cuestilan Detecti	01 2	12/7/2020 1:15:19 PM
0 Max Pres 0	Erratic 0	Fail Mode	None
1-8	9-16		
	Pedestrian Detecto	or 4	
0 Max Pres 0 1-8	Erratic 0 9-16		None
	Pedestrian Detect	or 6	
0 Max Pres 0 1-8	Erratic 0 9-16		None
	Pedestrian Detecto	or 8	
0 Max Pres 0 1-8	Erratic 0 9-16		None
	1-8 2	Pedestrian Detector Nax Pres 0 Erratic 0 Pedestrian Detector Nax Pres 0 Erratic 0 Pedestrian Detector 1-8 9-16 Pedestrian Detector Pedestrian Detector Nax Pres 0 Erratic 0 Pedestrian Detector 1-8 9-16 Pedestrian Detector 1-8 9-16 Pedestrian Detector 1-8 9-16	1-8

		Control / Config	12/7/2020 1:15:19 PM
Pattern Mode	Sched		
Manual Pattern	0 Manual Offset	0	
Stop Time Input	Enabled		
Aux Switch	StopTm	5	
DLS Mode	D4	Time Zone Pac (UTC-8)	GPS Thresh 0
Password Timeout	5		
Maint Phs Recalls Maint Ped Recalls	1-8	9-16	
		Serial 1 Port Configuration	
Broadcast Plan/Sync	Disabled	Broadcast Time 00:00	
Serial Rebroadcast	Disabled	Response None	
Broadcast Plan/Sync	Disabled	Serial 2 Port Configuration Broadcast Time 00:00	
		Ethernet Port Configuration	
Broadcast Plan/Sync Serial Rebroadcast	Disabled Disabled	Broadcast Time 00:00	
		Peer Configuration	
Peer 1	0		
Peer 2	0		
Peer 3	0		
Peer 4	0		
Peer 5	0		
Poer 6			

Peer 7

Peer 8

		Restricted Data	12/7/2020 1:15:19 PM
		(Serial Ports)	
Serial Port 1 Baud Rate	9600 8N1	RTS On 0	RTS Off 0
Serial Port 2 Baud Rate	9600 8N1	RTS On 0	RTS Off 0
		(Ethernet)	
IP Address Netmask Broadcast Address Gateway Gateway 2 Gateway 3 Gateway 4	172. 31. 54. 155 255. 255. 254. 0 0. 0. 0. 0 172. 31. 54. 254 0. 0. 0. 0 0. 0. 0. 0		
Admin IP Admin Netmask	0. 0. 0. 0	Leases 0	
Port Broadcast Port Time Port	161 Reply Mode 0 Response 0	Host Time/Plan	
		(General)	
Controller Address Peer Address	Timeout 0		
Remote Calls Remote Preempt Remote Soft Preempt	Disabled Disabled Disabled		
Remote Priority Remote MCE	Disabled Me	CE Max 0	

CITY OF SACRAMENTO DETECTION SCHEDULE

		Controller		3-1		at om	Controller	/ Detector Type / Function
	Phase	Det. Input	Location	Direction	Extend	Delay	Passage	Notes
_	Ø1	1			LACCITO	Delay	russage	Notes
	Ø1	2						
				14/5	200			
	Ø1	3	Mid	WB	Х		х	
	Ø1	4						
	Ø6	5						
	Ø6	6						
	Ø6	7						
	Ø6	8						
	Ø5	9						
	Ø5	10						
	Ø5	11						
	Ø5	12						
	Ø2	13						
	Ø2	14						
	Ø2							
		15						
	Ø2	16						
	Ø3	17						
	Ø3	18						
	Ø3	19						
	Øз	20						
	Ø8	21						
	Ø8	22	Mid	SB	х		х	
	Ø8	23	Mid	SB	х		×	
7	Ø8	24		- 55				
BIU 2	Ø7	25						
	Ø7	26						
	Ø7							
		27						
	Ø7	28	Self-ordered	10000				
	Ø4	29	Rear	NB	х		Х	
	Ø4	30						
	Ø4	31						
	Ø4	32						
	Ø1	33	Front	EB	х		х	
	Ø1	34	Right	EB	х		x	
	Ø6	35						
	Ø6	36						
	Ø6	37						
	Ø6	38						
	Ø6							
		39						
BIU 3	Ø6	40						
8	Ø5	41						
	Ø5	42						
	Ø2	43	Front	WB	х		x	
	Ø2	44	Front	WB	x		x	
	Ø2	45						
	Ø2	46						
	Ø2	47						
	Ø2	48	Right	WB	x		х	
	Ø3	49	Left	SB	×			
	Ø3		reit	JD	^		×	
		50						
	Ø8	51	Front	SB	Х		X	
	Ø8	52						
	Ø8	53						
	Ø8	54						
	Ø8	55						
BIU 4	Ø8	56						
BIL	Ø7	57	Left	NB	х		х	
	Ø7	58		000000	a a		1000	
	Ø4	59	Front	NB	×		х	
	Ø4	60	. Tone	110				
	Ø4	61						
	Ø4							
		62						
	Ø4	63						
. 1	Ø4	64					M T	

ECONOLITE ASC/2

TRAFFIC SIGNAL CONTROLLER PROGRAM CHART

N/S	Howe	Avenue		<u>E/W</u>	US 50 EI	3 offramp	
Intersectio	on #:35	50	System: _		_ IP A	Address:	
Devic	ce ID:		Channel:		_	Drop #:	
US 50	EB offra	MP 06 PED	Ø6	Å Å Å Ø2	Howe Avenue		
			Ø2		Ø4 →	٨.	
			Ø6			14	

CITY OF SACRAMENTO

PHASE TIMING

Prepared by: Approved by: Date Implemented: 3-9-20

Controller Timing Data

Controller Timi	Key: (F1)-2-1											
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Min Green		7		11		9						
Bike Green												
CndSrv MinGrn												
Walk						7						
Ped Clr						17						
Veh Ext		2.0		2.0		2.0						
Veh Ext 2												
Max Ext												
Max1		30		30		30						
Max2												
Max3												
Det Max												
Yellow		4.3		3.5		4.3						
Red Clr		1.0		1.0		1.0						
Red Rvt		2.0		2.0		2.0						
Act B4 Init												
Sec/Actuation												
Max Initial												
Time B4 Reduct												
Cars Wt												
Time To Reduce												
Min Gap												

C	 	D

Controller Option	on [Data			Key: (F1)-2-9									
Phase	1	2	3	4	5	6	7	8	9	10	11	12		
Guar Passage														
NonActuated I														
NonActuated II														
Dual Entry		2				6								
Cond Service														
Cond Reservice														
Rest in Walk														
Flashing Walk														
Five Section Left		5-2:				7-4:				1-6:				
Turn Heads		3-8:			11	-10:			9	-12:				
Dual Entry			0	N	Back	cup Pr	rotec	tion	Grp :	1	0	FF		
Cond Service Ena	ble		0	FF	Backup Protection Grp 2				2	0	FF			
Cond Service Det X	Swit	ch	0	FF	Backup Protection Grp 3					0	FF			
Ped Clr Protect			0	N	Simul Gap Grp 1					0	FF			
Spec Pre OVL Flas	h		0	FF	Simul Gap Grp 2					Simul Gap Grp 2 O			0	FF
Lock Det in Red			0	FF	Simul Gap Grp 3					0	FF			
Reserved			0	FF	unitBackup Time					0	FF			
Reserved			0	FF	unitRed Revert					0	FF			

Controller Recall Data

Controller Reca	Key: (F1)-2-4											
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Locking Memory												
Vehicle Recall												
Ped Recall												
Recall to Max												
Soft Recall												
Don't Rest Here												
Ped Dark N/Call												

Controller Start/Elach Data

Controller Start	t/Fla	sh L	Jata	W. C. C. C. C.				-	Ke	y: (F1)-	2-6
Phase	1	2	3	4	5	6	7	8	9	10	11	12
ø's Startup		2				6						
Entry Rem Flash		2				6						
Exit Rem Flash		2				6						
Rem Flash Yello												
Flsh Together ø		2		4		6	3	8	. 5	10	4	12
Flsh Tgther OV	A:	-	B:		C:		D:					
Startup Intvl Rng	1	Y	ellov	N	NA ST							
Startup Intvl Rng	2	Υ	ellov	N								
Power Start All R	ed	6	sec									
Power Start Flash	1											
Remote Flash	n Op	tior	ıs									
Out of Flash Yello	w	Υ	es									
Out of Flash All R	ed	N	lo									
Minimum Recall		Υ	es									
Spare		N	lo									
Flash Thru Ld Sw	itch	N	lo									
Cycle Thru Phase	s	١	lo									

350 - Howe Av at HWY 50 EB off ramp ASC2 5-29-19.xlsm

CONFIGURATION

Controller Sequence

0	10	44	42
Key	y: (F1)-	1-1

Priority	1	2	3	4	5	6	7	8	9	10	11	12
Ring 1	1	2	3	4	9	10			3	0		19
Ring 2	5	6	7	8		101	17					
CG Barrier		^		٨		٨						

Phases in Use

Key:	(F1)	-1-2
------	------	------

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Phases in Use		2	74	4		6	7	-		,116		- 1
Exclusive Ped	4			1		12	- 25					

SDLC Options

Kev: (F1)-1-4			
	11	1 -4	4 4
	KOV.		

BIU	Numb	er	1	2	3	4	5	6	7	8		
Ter	m & Fa	cil										
Dete	ector Ra	ick									1515	
Тур	e 2 Run	s as	Туре	1								
	MMU I	Disab	le		Х							
D	iagnost	ic En	able		33	Y						
Pe	er to Pe	er E	nabl	е								
			P	eer	to P	eer A	ddr	esse	s			
1)	255	2)	2.9	39	3)	25	5	4)	2	55	5)	255
6)		7)			8)	25		9)	. 2		10)	255

NEW CONTROLLER SHOULD BE DEFAULTED BEFORE INSTALLATION To Default Controller: (F1)-8-2 Select All Press ENTER (F1)-8-1-3 Select All Press ENTER

Ped Timing Carryover

Key:	(F1)-2-3
Phase	Carryover
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	()
12	0

Port 2 Key: (F1)-1-5

Port 2 Protocol	TERMINE
Port 2 Enable	NO.
Data Rate (bps)	9600
Data, Parity, Stop	8, N, 1
NTCIP Address	0
NTCIP Grp Address	.0
NTCIP Resp Delay	0
NTCIP Sgl Flg Enal	NO
NTCIP BackUp Tim	0
NTCIP Drop-Out Time	0
Port2 Drop-Out Tim	0
NTCIP RTS Timing	NO
NTCIP RTS to CTS Dlay	Q
NTCIP RTS TurnOff Dla	0
NTCIP Early RTS	NO

Key: (F1)-1-6 Port 3

	The same of the sa
Port 3 Protocol	TELEM
Port 3 Enable	YES
Port 3 millisec Timing	NO
Port 3 RTS to CTS Delay	0
Port 3 RTS TurnOff Delay	0
Duplex -Half or Full	FULL
Modem Data Rate (bps)	1200
Data, Parity, Stop	8, N, 1
Telemetry Address	1
System Detector 9-16 Add	
Telemtry Response Delay	1
NTCIP Address	0
NTCIP Grp Address	0
NTCIP Resp Delay	0
NTCIP Single Flag Enable	NO
NTCIP BackUp Time	0
Port 3 Drop-Out Time	0
NTCIP Early RTS	NO

Options Key: (F1)-1-8

Supervisor Access Code	0
Data Change Acces Code	0
Key Click Enable	NO
Backlight Enable	Y85
Request Download	NO

CITY OF SACRAMENTO

COORDINATION PATTERN TABLES

Coordinatio	on Pa	atte	rn D	ata						Ke	y: (F1)-	3-4
PLAN FORM	TAI												
Cycle Length			60		Plar	1		1					
Offset			21		Light.				No.		28		
SPLITS:	1)	1)		2)	3	2	3)			4)	2	8	
BY PHASE	5)			6)	3	2	7)			8)			
BY PHASE	9)			10)			11)			12)			
Veh Permissi	ive		[1]				[2]						
Veh Perm 2 I	Disp												
Phase Reserv	vice												
Split Extension	on/R	ing	[1]				[2]						
Splt Demand	Patt	ern	[1]				[2]						
Xartery Patte	ern												
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phase	S		2				6						
Veh Recall													
Veh Max Red	all												
Ped Recall													
Phase Omit													
Spare													
Alt Sequer	nce	A:		B:	_	C:		D:		E:		F:	

PLAN FORM	AT				719	12117	William I			-			
Cycle Length			65		Plan			2					
Offset			57										
SPLITS:	1)			2)	3	9	3)			4)	2	6	
DV DUACE	5)			6)	3	9	7)			8)			
BY PHASE	9)			10)			11)			12)			
Veh Permissi	ive		[1]				[2]					1	
Veh Perm 2 I	Disp												
Phase Reserv	vice												
Split Extension	on/Ri	ng	[1]				[2]						
Splt Demand	Patt	ern	[1]				[2]						
Xartery Patte	ern			-									
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phase	S		2				6						
Veh Recall													
Veh Max Red	all												
Ped Recall													
Phase Omit													
Spare													
Alt Sequen	ce	A:		B:		C:		D:		E:		F:	

PLAN FORM	TAT									1000			3/4
Cycle Length			65		Plar	1		3			10 11		
Offset			58										
SPLITS:	1)			2)	3	7	3)			4)	28		
DV DUACE	5)			6)	3	7	7)			8)			
BY PHASE	9)			10)			11)			12)			
Veh Permissi	ive		[1]				[2]				Si di		
Veh Perm 2 I	Disp												
Phase Reserv	/ice												
Split Extension	on/R	ing	[1]				[2]						
Splt Demand	Patt	ern	[1]				[2]						
Xartery Patte	ern						7						
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phase	s		2				6						
Veh Recall													
Veh Max Red	all												
Ped Recall													
Phase Omit													
Spare								_					
Alt Sequen	ce												
Alt Sequence		Δ=ς:	witch	n Ø1	80	2		C=91	witch	n Ø5	20	6	

PLAN FORM	IAT		100										RO WE
Cycle Length					Plan			4					
Offset								N.				0 11	
SPLITS:	1)			2)			3)			4)			
BY PHASE	5)			6)			7)			8)			
DI PHASE	9)			10)			11)			12)			
Veh Permissi	ve		[1]				[2]				A Party		
Veh Perm 2 I	Disp								23	Y			
Phase Reserv	vice												
Split Extension	on/Ri	ing	[1]				[2]						
Splt Demand	Patt	ern	[1]				[2]						
Xartery Patte	ern												
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phase	s												
Veh Recall													
Veh Max Red	all												
Ped Recall													
Phase Omit													
Spare													
Alt Sequen	ce	A:		B:		C:		D:		E:		F:	

Alt Sequence:

A=switch Ø1 & Ø2

B=switch Ø3 & Ø4

C=switch Ø5 & Ø6

D=switch Ø7 & Ø8

E=switch Ø9 & Ø10 F=switch Ø11 & Ø12

COORDINATION/TIME OF DAY DATA

Coordinator Options

Key: (F1)-3-1

Split Units	SEC	Acti	uate	d Co	ord g	Ď	Х
Offset Units	SEC	Actuated Rest In Wa				Wal	
Interconnect Format	PLAN	Inhibit Max					х
Interconnect Source	NIC	Max 2 Select					
Resync Count	15	Multisync					100
Transition	SMOOTH	Float Force Off					ų.
Dwell Period	0 sec	Α	В	С	D	E	F
Free Alternat		GI	1				

Coord Manual and Split Demand

Key: (F1)-3-2

Manual Enable	0	FF	Ma	anual	Patt	ern						
Split Demand		De	Demand 1		De	Demand 2						
Demand Call Time			0			(0)						
Demand Cycle Cou	int		0			0						
Demand ø	1	2	3	4	5	6	7	8	9	10	11	12
Demand 1 ø's		,				7.7				,	11	,,
Demand 2 ø's				140		0.	8.				193	- 80

Coord Auto Permissive Min Green

Phase	Perm Min Grn		Key:	(F1)	-3-3	
1	0	sec	STE			

2		sec
3		sec
4		sec
5		sec
6	0	sec
7	13	sec
8		sec
9		sec
10		sec

sec

Clock/ Calendar Data Key: (F1)-5-1

DATE SET:	0/0/00	Enter Date/Time Then Press Enter					
TIME SET:	0:00:00						
Manual NIC	Prgrm Step	0					
Manual TO	Prgrm Step	0					
Sync Refere	nce Time	0.	00				
Sync Refere	nce	REF	ERENCE TIME				
Week 1 beg	ins on 1st Sun	day					
Disable Day	light Savings						
DST begins	Last Sunday						

TOD Yearly Program

Key: (F1)-5-3

100 10011, 110	0				- 7.7			
Week of Year	1	2	3	4	5	6	7	8
Weekly Program	1	Ĺ	1	1	1	1	1	1
Week of Year	9	10	11	12	13	14	15	16
Weekly Program	1	1	1	1	1	1	Ī	1
Week of Year	17	18	19	20	21	2.2	23	2.0
Weekly Program	1	1	.1	1	1	1	1	1
Week of Year	25	26	27	28	29	30	31	3.2
Weekly Program	1	1	1,	1	1	1	1	1
Week of Year	33	34	35	36	37	38	39	40
Weekly Program	1	Ţ	1	1	1	1.	1	1.
Week of Year	41	42	43	44	45	45	47	:18
Weekly Program	1	1	1	1	1	1	1	1
Week of Year				49	50	51	52	53
Weekly Program				1	1	1	1	1

TOD Weekly Programs Key: (F1)-5-2

Week	SU	MO	TU	WE	TH	FR	SA
1	1	1	1	1	1	1	1
2	1	1,.	1	1	1	1	1
3	1	1	1	1	1	1,	1
4	1	L	1	1	1	1	1
5	1	1	1	1	1	1	1
6	1	1	1	1	1		1
7	1	1.	1.		1	1	1
8	1	1	1			1	1
9	1	1	1	1	1	Į.	1
10	1	1.	1	1	1	I	1

COORDINATION/TIME OF DAY DATA

Coordinator Options	Coo	rdina	tor C	pt	ions
----------------------------	-----	-------	-------	----	------

Key: (F1)-3-1

Split Units	SEC	Acti	Actuated Coord ø				Х
Offset Units	SEC	Actuated Rest In Wa				Wal	
Interconnect Format	PLAN	Inhibit Max					Х
Interconnect Source	NIC	Max 2 Select					2
Resync Count	15	Mul	tisyr	nc			
Transition	SMOOTH	Float Force Off					
Dwell Period	0 sec	Α	В	C	D	E	F
Free Alternat					ā	7	

Coord Manua	and Cn	lit Da	
Coord Manua	and Sp	iit Dei	manc

Key: (F1)-3-2

Manual Enable	0	řF.	Ma	nual	Patte	ern						
Split Demand		Demand 1		Demand 2								
Demand Call Time			0			0						
Demand Cycle Cou	ınt		10			()						
Demand ø	1	2	3	4	5	6	7	8	9	10	11	12
Demand 1 ø's												
Demand 2 ø's												-

Coord Auto Permissive Min Green

Phase	Perm Min Grn	Key: (F1)-3-3
1	0.	sec Sec
2	0	sec
3	9	sec
4		sec
5	- 0	sec
6		sec
7	12	sec
8	4	sec
9		sec
10	1)	sec
11		sec sec
12	10	sec

Clock/ Calendar Data	Clock	Calendar Da	ita
----------------------	-------	-------------	-----

Key: (F1)-5-1

		_	
0/0/00	Ent	er	Date/Time
0:00:00	The	n I	Press Enter
Prgrm Step	0		
Prgrm Step	0		
nce Time	0	.00	
nce	REF	ξR	REMOR TIME
ins on 1st Sun	day		
ight Savings			
Last Sunday			
֡	0:00:00 Prgrm Step Prgrm Step nce Time	o:00:00 The Prgrm Step O Prgrm Step once Time once REP ins on 1st Sunday light Savings	0:00:00 Then I

TOD Yearly Program

Key: (F1)-5-3

A STREET OF STREET	-	william .	STREET, STREET	-	1000	-	-	-
Week of Year	1	2	3	-3	15	-	**	3
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	3	1:	H	13	13	1.4	15	15
Weekly Program		1	1	1	1	1	1	1
Week of Year	17	13	13	20	21	2.2	21	24
Weekly Program	1	1	1	1	1.	1	1	1
Week of Year	25	26	2.7	23.	29	30	31	32
Weekly Program	1	1	L	L	Į.	1	1	1
Week of Year	33	3.1	35	35	3.7	33	39	-10
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	31	12	13	11	115	48	17	13
Weekly Program	1	1	1	1	Į	1	1	1
Week of Year				49	5.1	31	3.2	33
Weekly Program			ALC: N	1	1	1	100	1

TOD Weekly Programs Key: (F1)-5-2

Week	SU	MO	TU	WE	TH	FR	SA
1	1	1	1	1	1	1	1
2	1	1	1	l.	1	1	L
3	1	. 1	1	1	1	L	1
4	1	1	L	1	1	1	1
5	I	1	1	L	I	1	1
6	L	1	1	1	1	L	1
7	1	1	1	1	1	1	1
8	1	1	1	1	1	l.	t
9	1	1	1		1	1	1
10	1	i	1	L	1	Į.	1

PREEMPTION TABLES

Priority Preemp	tor 2								Key	/: (F1)-4-	1
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase	1											
Hold Phases						6						
Exit Phases	1											
Exit Calls												
Spare											74	
Term Overlaps	A:			B:			C:			D:		
Active	Y	ES	Ped	Dark					1			
Priority	1		Ped	Activ	e							
Det Lock	1		Zero	PC T	ime		1					
Hold Flash	1		PC T	Thru Y	ellov	v	1					
Term Ovlp ASAP			Terr	m Pha	ses		1		18.00			
Don't Override Fla	ish		П	Х								
Flash all Outputs												
Yellow-Red goes (reen											
Enable Max Preen	npt Ti	ne	П									
Active only During	Hold											
No CVM in Flash			Г									
Fast Flash GRN on	Hold											
Out of Flash	17.70		GR	EEN								
Max Time	55	Dur	ation	Time		To the same			GRN	YEL	RED	
Min Hold Time	6	Dela	ay Tir	ne		Min	imun	1		-		
Min Ped Clear	1		bit Ti		Track Clear						18	
Exit Max	1	Hld	Dela	y Tim		Hol	d		ì			

Priority Preempt	tor 3							7-112-112	1	(ey:	(F1)	-4-2
Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase	1											
Hold Phases	1	2										
Exit Phases	1											
Exit Calls	1											
Spare	1											
Term Overlaps	A:			B:			C:			D:		
Active	Y	ES	Ped	Dark					38			
Priority	1		Ped	Activ	re .							
Det Lock	1		Zer	o PC T	ime							
Hold Flash	1		PC.	Thru Y	/ellov	N	1					
Term Ovlp ASAP	1		Ter	m Pha	ses		1	- Sanctile - Alle				
Don't Override Fla	sh			Х		100						
Flash all Outputs			П		T							
Yellow-Red goes G	ireen											
Enable Max Preen	npt Ti	me	Т		- 10							
Active only During	Hold		П		The same							
No CVM in Flash					38							
Fast Flash GRN on	Hold		П		1							
Out of Flash			Т									
Max Time	55	Dur	ation	Time		1504			GRI	YEL	RED	
Min Hold Time	6	Del	ay Ti	me		Min	imun	n				100
Min Ped Clear			bit T			Tra	ck Cle	ar				100
Exit Max	1	Hld	Dela	y Tim		Hol	d		1			

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp	-	-				0		-	_	10	11	12
Trk Clr Phase	1											
Hold Phases	1											
Exit Phases	1											
Exit Calls	1											
Spare	1											
Term Overlaps	A:			B:			C:			D:		
Active	Υ	ES	Ped	Dark						18000	2 30	199
Priority	1	2012-0-	Ped	Activ	е		1					
Det Lock	1		Zero	PCT	ime		1		313			
Hold Flash	1		PC 1	Thru Y	ellov	V	1					
Term Ovlp ASAP	1		Terr	n Pha	ses							
Don't Override Fla	sh			Х								
Flash all Outputs												
Yellow-Red goes G	ireen											
Enable Max Preem	npt Tir	ne										
Active only During	Hold											
No CVM in Flash												
Fast Flash GRN on	Hold											
Out of Flash			GR	EEN					Host			
Max Time	55	Dur	ation	Time				I BINV	GRN	YEL	RED	
Min Hold Time					Minimum							THE REAL PROPERTY.
Min Ped Clear		Inhi	bit Ti	me		Trac	k Clea				是是	
Exit Max		Hld	Dela	y Tim		Hole	d					

Priority Preemp	1	2	3	4	5	6	7	8	9	(ey:	11	12
Term Phase Ovlp	1		3	4	3	0	/	0	9	10	11	12
Trk Clr Phase	+	-				-	-		-			
Hold Phases	1			4			+					-
Exit Phases	1						-			-		
Exit Calls	1											
Spare	1											
Term Overlaps	A:			B:			C:		-	D:		
Active	Y	ES	Ped	Dark					2000	Alexand .		100
Priority	1		Ped	Activ	re		1					
Det Lock	1		Zero	PC 1	ime		1					
Hold Flash			PC 1	Thru \	/ello	N	1					
Term Ovlp ASAP			Teri	m Pha	ses		1					
Don't Override Fla	ash			Х				P. W.S.				
Flash all Outputs			П		593							
Yellow-Red goes (Green		П									
Enable Max Preer	npt Ti	me			1							
Active only During	g Hold				100							
No CVM in Flash												
Fast Flash GRN on	Hold				5330							
Out of Flash		-15	GR	EEN	100							
Max Time	55	Dur	ation	Time	П				GRI	YEL	RED	
Min Hold Time	6	Del	ay Tir	ne	1	Mir	nimun	n				
Min Ped Clear		Inhi	bit Ti	ime	1	Tra	ck Cle	ar	1			
Exit Max		Hld	Dela	y Tim	1	Hol	d		1			

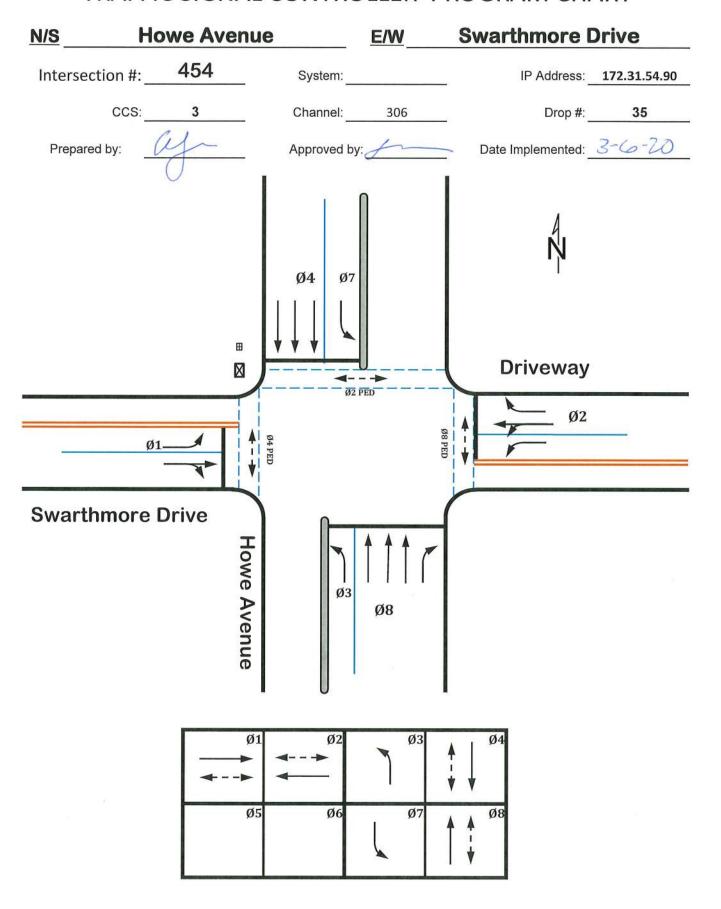
DETECTION SCHEDULE

Howe Avenue at US 50 WB offramp

		Controller			venue at		Controller	
	Phase	Det. Input	Location	Direction	Extend	Delay	Passage	Detector Type / Function Notes
	Loons	or Retrofit Vid	90		Exterio	Delay	Passage	Notes
	Ø1	1	-					
	Ø2	2	Feren	NID			250	
	Ø3		Front	NB			×	
		3		11/0			Section 1	
	Ø4	4	Front	WB			x	
	Ø5	5	to have a series of					
	Ø6	6	Front	SB			×	
12	Ø7							
BIU 1	Ø8							
8	Loops			,				
	Ø1	9						
	Ø2	10						
	Ø3	11						
	Ø4	12						
	Ø5	13						
	Ø6	14						
	Ø7	15						
	Ø8	16						
		deo Detection	BIU 2 (RI	ESERVED)	17-32			
	Ø1	33					T	
	Ø1	34						
	Ø6	35					-	
	Ø6							
	Ø6	36						
	Ø6	37		-				
		38						
~	Ø6	39						
BIU 3	Ø6	40						
8	Ø5	41						
	Ø5	42						
	Ø2	43						
	Ø2	44						
	Ø2	45						
	Ø2	46						
	Ø2	47						
	Ø2	48						
	Ø3	49						
	Øз	50						
	Ø8	51						
	Ø8	52						
	Ø8	53						
	Ø8	54						
	Ø8	55						
4	Ø8	56						
BIU 4	Ø7	57						
Ш	Ø7							
	Ø4	58						
		59		-				
	Ø4	60						
	Ø4	61						
	Ø4	62						
	Ø4	63						
	Ø4	64						

ECONOLITE ASC/3

TRAFFIC SIGNAL CONTROLLER PROGRAM CHART





Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Controller Timing Plan (MM) 2-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Direction																
Min Green	11	11	10	8	0	0	11	8	0	0	0	0	0	0	0	0
Bk Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	4	0	7	0	0	0	7	0	0	0	0	0	0	0	0
Walk2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear	0	26	0	12	0	0	0	17	0	0	0	0	0	0	0	0
Ped Clear 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Ext	2.0	2.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vehicle Ext 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max1	30	30	35	60	0	0	35	60	0	0	0	0	0	0	0	0
Max2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYM Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dym Step	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	3.5	3.5	3.5	5.0	0.0	0,0	3,5	5.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Red Clear	0.6	0.4	0.1	1.0	0.0	0.0	0.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Red Max	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Revert	2.0	2.0	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Act B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sec/Act	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Int	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Time B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cars Wt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STPTDuc	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0
TTReduc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Solutions that Move the WorldTM

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Configuration Controller Sequence

		01	02		03	04	05	06	07	08	09	10	11	12	13	14	15	16
	В			В														
Sequence 1																		
Ring 1	1	2	1	Ĩ	3	4												
Ring 2	i		•	1	7	8	204	100				*		• 5		1.0		

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

Hardware Alternate Sequence Enable: No



Solutions that Move the WorldTM

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Configuration Port 1 (SDLC)

Port 1 SDLC (MM) 1-4-1

BIU	1	2	3	4	5	6	7	8
Term & Facility								
Detector Rack								

Enable TS2/MMU Type Cabinet: No Enable MMU Extended Status: No Enable SDLC Stop Time: No Enable 3 Critical RFE's Lockup: Yes

MMU Program (MM) 1-4-2

Channel Can Se	erve With Channel
Channel 1	Channel 2

Color Check Enable (MM) 1-4-3

Enable Color Check: Yes

MMU/LS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Green																
Yellow																
Red																

Secondary Stations/Tests (MM) 1-4-4

Secondary Stations/ rests (INITAL) I								
ID	1	2	3	4	5	6	7	8	MMU
Term & Facility									

ID	1	2	3	4	5	6	7	8	Diag
Detector Rack									

Enable SDLC Diagnostic Test: No



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Controller Start / Flash Data (MM) 2-5

Phase	Phase Setting
1	
2	
3	
4	Υ
5	
6	
7	
8	Υ
9	
10	
11	
12	
13	
14	
15	
16	

Overlap	
A	İ
В	
С	
D	

Flash Thru Mon: No Flash Time: 6 All Red: 6 Power Start Seq: 1 MUTCD Enabled: No Y->G: n/a

Automatic Flash

Entry	
4	
8	

Exit	
4	
8	

Overlap Exit	
A	
В	
С	
D	

Flash Thru Mon: No Exit Flash: W Minimum Flash: 8 Mimimum Recall: No Cycle Through Phase: No



Solutions that Move the WorldTM

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Controller Options

Controller Options (MM) 2-6-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flashing Grn Ph			- 1	1960			8.03	*	34		23+	- 20	84.			
Guar Passage																
Non-Act I																
Non-Act II																
Dual Entry																
Cond Service										i .						
Cond Reservice																
Ped Re-Service																
Rest In Walk																
Flashing Walk																
Ped Clr-Yel																1
Ped Clr-Red																
IGRN + Veh Ext																

Ped Clear Protect: Off

Unit Red Revert: 2.0

MUTCD 3 Seconds Don't Walk: No

Pre-Timed Mode (MM) 2-7

Enable Pre-Timed Mode: No

Free Input Disables Pre-Timed: No

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pre-Timed									- N							

Phase Recall Options (MM) 2-8

Plan #1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Lock Detector			Х				Х									
Vehicle Recall				X				X								
Ped Recall																
Max Recall																
Soft Recall																
No Rest		10.														
Al Calc								2								



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Coordination Options

Options (MM) 3-1

Manual Pattern	Auto	ECPI Coord	Yes
System Source	TBC	System Format	STD
Splits In	Seconds	Offsets In	Seconds
Transition	Smooth	Max Select	MAXINH
Dwell / Add Time	0		
Delay Coord Wk-LZ	No	Force Off	Float
Offset Reference	Lag	Use Ped Time	Yes
Ped Recall	No	Ped Reservice	No
Local Zero Override	No	FO Added Ini Green	No
Re-sync Count	0	Multisync	No

Auto Perm Minimum Green (Seconds) (MM) 3-4

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Minimum Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Split Demand (MM) 3-5

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Demand 1											-					
Demand 2																

Demand	1	2
Detector	0	0
Call Time (Sec)	0	0
Cycle Count	0	0



Solutions that Move the World™

Seconds

Seconds

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Splits In

Offsets In

Coordination Pattern Data Coordinator Pattern Data (MM) 3-2

Coordinato	- Dattern	# 1

Split Pattern TS2 (Pat-Off) Cycle 120 Std (COS) 9 Dwell/Add Time Offset Value 94s 0 Actuated Coord Yes Timing Plan 0 0 Actuated Walk Rest No Sequence Phase Reservice Yes Action Plan 0 Max Select None Force Off None

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 1)	16	34	20	50	0	0	20	50	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	20	20	0	0
Ring Displacement	-	0	0	0
Split Sum	120s	70s	0s	Os

Misc. Data

Veh Perm 1 0 Split Demand Pat 1 0

Veh Perm 2 0 Split Demand Pat 2 0 Veh Perm 2 Disp Crossing Arterial Pat

0

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase						111/1										
Special Funciton Outputs																

Coordinator Pattern # 2

Split Pattern	2	TS2 (Pat-Off)	0-2	Splits In	Seconds
Cycle	130	Std (COS)	17	Offsets In	Seconds
Offset Value	10s	Dwell/Add Time	0		
Actuated Coord	Yes	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	Yes	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 2)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	20	20	0	0
Ring Displacement	-	0	0	0
Split Sum	130s	80s	0s	0s

 Misc. Data
 Veh Perm 1
 0
 Veh Perm 2
 0
 Veh Perm 2 Disp
 0

 Split Demand Pat 1
 0
 Split Demand Pat 2
 0
 Crossing Arterial Pat
 0

Seconds Seconds

Split Pattern

opine i accomi																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase				Х				Х								
Vehicle Recall				Х				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase		T														
Special Funciton Outputs		T	T				1		1							

Coordinator Pattern # 3

Split Pattern	3	TS2 (Pat-Off)	0-3	Splits In	
Cycle	130	Std (COS)	25	Offsets In	
Offset Value	47s	Dwell/Add Time	0		
Actuated Coord	Yes	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	Yes	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 3)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	20	20	0	0
Ring Displacement	-	0	0	0
Split Sum	130c	900	Oc.	Oc.

 Misc. Data
 Veh Perm 1
 0
 Veh Perm 2
 0
 Veh Perm 2 Disp
 0

 Split Demand Pat 1
 0
 Split Demand Pat 2
 0
 Crossing Arterial Pat
 0

Split Pattern

opiii raileiii																
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase				Х				Х								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																
Special Funciton Outputs				1												



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Coordination Split Pattern Split Pattern Data (MM) 3-3

Split Pattern # 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Split (seconds)	16	34	20	50	0	0	20	50	0	0	0	0	0	0	0	0
Coord Phase				X				Х								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																

Ring	1	2	3	4
Split Sum	120s	70s	0s	0s

Split Pattern # 2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Split (seconds)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																

Ring	1	2	3	4
Split Sum	130s	80s	0s	0s

Split Pattern # 3

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Split (seconds)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Coord Phase				Х				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase					,											

Ring	1	2	3	4
Split Sum	130s	80s	0s	0s



Solutions that Move the WorldTM

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Time Base Clock/Calendar Clock/Calendar Data (MM) 5-1

Manual Action Plan:

SYNC Reference Time: 00:00

SYNC Reference:

Reference Time

Day Light Savings:

No

Time Reset Input Set Time: 3:30:00

Standard Time From GMT: 0



Solutions that Move the WorldTM

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Time Base Day Plan/Schedule Day Plan (MM) 5-3

Day Plan #1

Event	Action Plan	Start Time
1	1	07:00
2	2	09:30
3	3	14:00
4	4	19:00

Schedule (MM) 5-4

Schedule Number - 1

Day Plan No.: 1

Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	Х	Х	Х	Х	Х	Х	Х	Χ	Χ	Χ	Х	Χ

Day (DOW)	SUN	MON	TUE	WED	THU	FRI	SAT
	Х	X	Х	Х	X	Χ	Х

Day (DOM)	1	2	3	4	5	6	7	8	9	10	11
	X	Х	X	X	Х	Х	Х	Х	Х	Х	X
	12	13	14	15	16	17	18	19	20	21	22
	X	Х	Х	X	Х	Х	Х	X	Х	Х	Х
	23	24	25	26	27	28	29	30	31		
	X	Х	Х	X	Х	Х	X	Х	Х		



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Detectors

Detectors - Pg 1

Veh Det Phase Assignment (MM) 6-1

Vehicle Detector Plan Number - 1

Veh Detector	Called Phase	Туре	
Vehicle Detector Plan Nur	nber - 2		
Veh Detector	Called Phase	Туре	

Vehicle Detector Setup (MM) 6-2

Veh Detector	Туре	TS2 Detector	Description
1	S-STANDARD	No	
2	S-STANDARD	No	
3	S-STANDARD	No	
4	S-STANDARD	No	
5	S-STANDARD	Yes	
6	S-STANDARD	No	
7	S-STANDARD	No	
8	S-STANDARD	No	
9	S-STANDARD	Yes	
10	S-STANDARD	Yes	
11	S-STANDARD	Yes	
12	S-STANDARD	Yes	
13	S-STANDARD	Yes	
14	S-STANDARD	Yes	
15	S-STANDARD	Yes	
16	S-STANDARD	Yes	
17	S-STANDARD	Yes	
18	S-STANDARD	Yes	
19	S-STANDARD	Yes	
20	S-STANDARD	Yes	
21	S-STANDARD	Yes	
22	S-STANDARD	Yes	
23	S-STANDARD	Yes	
24	S-STANDARD	Yes	
25	S-STANDARD	Yes	
26	S-STANDARD	Yes	
27	S-STANDARD	Yes	
28	S-STANDARD	Yes	
29	S-STANDARD	Yes	
30	S-STANDARD	Yes	
31	S-STANDARD	Yes	
32	S-STANDARD	Yes	
33	S-STANDARD	Yes	
34	S-STANDARD	Yes	
35	S-STANDARD	Yes	
36	S-STANDARD	Yes	
37	S-STANDARD	Yes	
38	S-STANDARD	Yes	
39	S-STANDARD	Yes	
40	S-STANDARD	Yes	
41	S-STANDARD	Yes	
42	S-STANDARD	Yes	
43	S-STANDARD	Yes	
44	S-STANDARD	Yes	
45	S-STANDARD	Yes	

46	S-STANDARD	Yes	
	S-STANDARD	Yes	
47			
48	S-STANDARD	Yes	
49	S-STANDARD	Yes	
50	S-STANDARD	Yes	
51	S-STANDARD	Yes	
52	S-STANDARD	Yes	
53	S-STANDARD	Yes	
54	S-STANDARD	Yes	
55	S-STANDARD	Yes	
56	S-STANDARD	Yes	
57	S-STANDARD	Yes	
58	S-STANDARD	Yes	
59	S-STANDARD	Yes	
60	S-STANDARD	Yes	
61	S-STANDARD	Yes	
62	S-STANDARD	Yes	
63	S-STANDARD	Yes	
64	S-STANDARD	Yes	

Vehicle Detector Plan Number - 1

Veh Detector	Phase	ECPI Log	Call Option	Delay Time	Ext Option	Extend Time / Passage Time	Queue Lim. / Discon. Time	Use Added Initial	Cross Switch Ph	Lock In	NTCIP Vol.	NTCIP Occ.	Pmt Queue Delay
1	1	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
2	2	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
3	3	No	Yes	2.0	Passage	0.0	0	No	0	None	No	No	No
4	4	No	Yes	0.0	Passage	0,0	0	No	0	None	No	No	No
5	5	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
6	6	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
7	7	No	Yes	2.0	Passage	0.0	0	No	0	None	No	No	No
8	8	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
9	9	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
10	10	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
11	11	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
12	12	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
13	13	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
14	14	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
15	15	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
16	16	No	Yes	0.0	Passage	0,0	0	No	0	None	No	No	No
17	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
18	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
19	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
20	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
21	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
22	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
23	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
24	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
25	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
26	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
27	0	No	Yes	0.0	Passage	0.0	. 0	No	0	None	No	No	No
28	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
29	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
30	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
31	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
32	. 0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
33	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
34	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
35	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
36	0	No	Yes	0.0	Passage	0,0	0	No	0	None	No	No	No
37	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
38	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
39	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
40	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
41	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
42	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
43	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

_													
44	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
45	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
46	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
47	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
48	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
49	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
50	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
51	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
52	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
53	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
54	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
55	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
56	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
57	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
58	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
59	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
60	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
61	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
62	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
63	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
64	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

١/^	hiala	Detector	Dian B	d h	
ve	nicie	Detector	Pian i	vumc	er - z

Veh Detector	Phase	ECPI Log	Call Option	Delay Time	Ext Option	Extend Time / Passage Time	Queue Lim. / Discon. Time	Use Added Initial	Cross Switch Ph	Lock In	NTCIP Vol.	NTCIP Occ.	Pmt Queue Delay
1	1	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
2	2	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
3	3	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
4	4	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
5	5	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
6	6	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
7	7	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
8	8	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
9	9	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
10	10	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
11	11	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
12	12	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
13	13	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
14	14	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
15	15	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
16	16	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
17	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
18	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
19	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
20	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
21	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
22	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
23	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
24	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
25	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
26	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
27	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
28	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
29	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
30	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
31	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
32	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
33	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
34	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
35	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
36	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
37	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
38	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
39	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
40	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
41	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
42	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

43	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
44	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
45	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
46	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
47	0	No	Yes	0,0	Passage	0.0	0	No	0	None	No	No	No
48	0	No	Yes	0,0	Passage	0.0	0	No	0	None	No	No	No
49	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
50	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
51	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
52	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
53	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
54	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
55	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
56	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
57	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
58	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
59	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
60	0	No	Yes	0.0	Passage	0,0	0	No	0	None	No	No	No
61	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
62	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
63	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
64	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

Ped Detector Phase Assignment (MM) 6-3

Mode: NTCIP

Mode: NICIP						
Called Phase	Detector					
1	1					
2	2					
3	3					
<u>4</u> 5	4					
	5					
6	6					
7	7					
8	8					
9	9					
10	10					
11	11					
12	12					
13	13					
14	14					
15	15					
16	16					

DETECTION SCHEDULE

Howe Avenue and Swarthmore Drive

		Controller		Howe Av	enue an			
	Phase		Location	Direction	Extend	Delay	Passage	/ Detector Type / Function Notes
	Loons	Det. Input or Retrofit Vid	00		extend	Delay	Passage	Notes
	Ø1			FD.				D4/D2 5 + D2/D4 + 1
	Ø2	1	Front, Mid	EB			х	D1/D3 front, D2/D4 mid
	Ø3	2	Front, Mid	WB			×	D1/D4 front, D2 mid
	Ø4	3	Front	N-W			×	D1
	Ø5	4	Front, Rear	SB			X	D1 front, D2 mid & rear
	Ø6	5						
	14.5	6						
\leftarrow	Ø7	7	Front	S-E			Х	D1
BIU	Ø8	8	Front, Rear	NB			X	D1 front, D2 mid, D3 rear
8	Loops							
	Ø1	9						
	Ø2	10						
	Ø3	11						
	Ø4	12						
	Ø5	13						
	Ø6	14						
	Ø7	15						
	Ø8	16						
		deo Detection	BIU 2 (RE	SERVED) 1	17-32			
	Ø1	33						
	Ø1	34						
	Ø6	35						
	Ø6	36						
	Ø6	37						
	Ø6	38						
	Ø6	39						
BIU 3	Ø6	40						
BII	Ø5	41						
	Ø5	42						
	Ø2	43						
	Ø2	44						
	Ø2	45						
	Ø2	46						
	Ø2	47						
	Ø2	48						
	Ø3	49						
	Ø3	50						
	Ø8	51						
	Ø8	52						
	Ø8	53						
	Ø8	54						
	Ø8	55						
BIU 4	Ø8	56						
BIL	Ø7	57						
	Ø7	58						
	Ø4	59						
	Ø4	60						
	Ø4	61		.,				
	Ø4	62						
	Ø4	63						
	Ø4	64						

APPENDIX D: SYNCHRO REPORTS

	•	→	•	•	←	•	•	†	/	>	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	ሻ	ፋ ጉ		ሻ	414		*	ተተኈ		ሻ	ተተኈ	
Traffic Volume (veh/h)	29	37	106	146	150	43	191	1043	226	31	762	110
Future Volume (veh/h)	29	37	106	146	150	43	191	1043	226	31	762	110
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	(
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	29	37	106	113	196	43	191	1043	226	31	762	110
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	163	171	143	165	276	59	200	2489	539	115	2467	353
Arrive On Green	0.09	0.09	0.09	0.09	0.09	0.09	0.04	0.20	0.20	0.06	0.55	0.55
Sat Flow, veh/h	1781	1870	1562	1781	2985	640	1781	4201	909	1781	4512	646
Grp Volume(v), veh/h	29	37	106	113	121	118	191	845	424	31	573	299
Grp Sat Flow(s),veh/h/ln	1781	1870	1562	1781	1870	1755	1781	1702	1707	1781	1702	1754
Q Serve(g_s), s	1.8	2.2	7.9	7.4	7.5	7.8	12.8	26.1	26.1	2.0	11.0	11.2
Cycle Q Clear(g_c), s	1.8	2.2	7.9	7.4	7.5	7.8	12.8	26.1	26.1	2.0	11.0	11.2
Prop In Lane	1.00		1.00	1.00		0.36	1.00		0.53	1.00		0.37
Lane Grp Cap(c), veh/h	163	171	143	165	173	162	200	2017	1011	115	1862	959
V/C Ratio(X)	0.18	0.22	0.74	0.69	0.70	0.73	0.95	0.42	0.42	0.27	0.31	0.31
Avail Cap(c_a), veh/h	441	463	387	441	463	434	200	2017	1011	181	1862	959
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.84	0.84	0.84
Uniform Delay (d), s/veh	50.4	50.5	53.1	52.8	52.8	53.0	57.5	30.2	30.2	53.4	14.8	14.8
Incr Delay (d2), s/veh	0.4	0.5	5.6	3.7	3.8	4.5	49.7	0.6	1.3	0.4	0.4	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	1.1	3.3	3.5	3.7	3.7	8.9	12.0	12.3	0.9	4.1	4.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.7	51.0	58.7	56.5	56.6	57.5	107.2	30.8	31.5	53.8	15.2	15.6
LnGrp LOS	D	D	Е	Е	Е	Е	F	С	С	D	В	Е
Approach Vol, veh/h		172			352			1460			903	
Approach Delay, s/veh		55.7			56.9			41.0			16.6	
Approach LOS		Е			Е			D			В	
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		15.3	12.5	76.8		15.4	18.0	71.3				
Change Period (Y+Rc), s		4.3	4.8	5.7		4.3	4.5	5.7				
Max Green Setting (Gmax), s		29.7	12.2	29.3		29.7	13.5	28.3				
Max Q Clear Time (g_c+l1), s		9.9	4.0	28.1		9.8	14.8	13.2				
Green Ext Time (p_c), s		0.7	0.0	0.7		1.3	0.0	3.2				
Intersection Summary												
HCM 7th Control Delay, s/veh			36.2									
HCM 7th LOS			D									
Notes												
User approved volume balance	ing amor	a the lan	es for turn	ning move	ement							
TITLE SPECIAL TOTA	3 411101			3 1110 11								

	ၨ	→	•	•	←	•	•	†	/	/	+	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1/1/	↑ ↑		1,1	^	77	ሻሻ	ተተተ	7	ሻሻ	ተተተ	7
Traffic Volume (veh/h)	108	267	140	203	764	422	257	1074	255	373	1234	204
Future Volume (veh/h)	108	267	140	203	764	422	257	1074	255	373	1234	204
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	108	267	140	203	764	422	257	1074	0	373	1234	204
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	208	576	293	278	960	1201	334	1513		554	1828	567
Arrive On Green	0.06	0.25	0.25	0.08	0.27	0.27	0.10	0.30	0.00	0.16	0.36	0.36
Sat Flow, veh/h	3456	2279	1160	3456	3554	2790	3456	5106	1585	3456	5106	1585
Grp Volume(v), veh/h	108	206	201	203	764	422	257	1074	0	373	1234	204
Grp Sat Flow(s),veh/h/ln	1728	1777	1662	1728	1777	1395	1728	1702	1585	1728	1702	1585
Q Serve(g_s), s	2.8	9.2	9.6	5.4	18.8	1.8	6.8	17.6	0.0	9.5	19.2	8.9
Cycle Q Clear(g_c), s	2.8	9.2	9.6	5.4	18.8	1.8	6.8	17.6	0.0	9.5	19.2	8.9
Prop In Lane	1.00		0.70	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	208	449	420	278	960	1201	334	1513		554	1828	567
V/C Ratio(X)	0.52	0.46	0.48	0.73	0.80	0.35	0.77	0.71		0.67	0.68	0.36
Avail Cap(c_a), veh/h	1130	649	607	1141	1303	1470	1101	2454		2022	3003	932
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.8	29.6	29.8	42.1	31.9	7.3	41.4	29.4	0.0	37.1	25.5	22.2
Incr Delay (d2), s/veh	0.7	0.8	0.9	1.4	2.2	0.1	1.4	0.7	0.0	0.5	0.5	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	3.8	3.7	2.2	7.8	1.4	2.8	6.8	0.0	3.9	7.3	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	43.5	30.4	30.7	43.5	34.0	7.5	42.8	30.1	0.0	37.6	26.0	22.6
LnGrp LOS	D	С	С	D	С	Α	D	С		D	С	С
Approach Vol, veh/h		515			1389			1331			1811	
Approach Delay, s/veh		33.3			27.4			32.6			28.0	
Approach LOS		С			С			С			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	9.9	31.0	20.2	32.7	11.6	29.4	14.2	38.7				
Change Period (Y+Rc), s	4.3	* 5.7	5.1	4.9	4.0	5.7	5.1	* 5.1				
Max Green Setting (Gmax), s	30.7	* 34	54.9	45.1	31.0	34.3	29.9	* 55				
Max Q Clear Time (g_c+I1), s	4.8	20.8	11.5	19.6	7.4	11.6	8.8	21.2				
Green Ext Time (p_c), s	0.1	4.6	0.4	8.2	0.2	2.3	0.3	12.4				
Intersection Summary	J		•		-							
HCM 7th Control Delay, s/veh			29.6									
HCM 7th LOS			29.0 C									
Notes												

User approved pedestrian interval to be less than phase max green.

^{*} HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	75	ተተተ	7	ሻ	^	7	77	ተተ _ጉ		ሻሻ	ተተተ	7
Traffic Volume (vph)	305	534	53	43	920	175	250	839	24	226	946	629
Future Volume (vph)	305	534	53	43	920	175	250	839	24	226	946	629
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Lane Util. Factor	0.97	0.91	1.00	1.00	0.95	1.00	0.97	0.91		0.97	0.91	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3433	5085	1583	1770	3539	1583	3433	5064		3433	5085	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3433	5085	1583	1770	3539	1583	3433	5064		3433	5085	1583
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	305	534	53	43	920	175	250	839	24	226	946	629
RTOR Reduction (vph)	0	0	36	0	0	119	0	2	0	0	0	0
Lane Group Flow (vph)	305	534	17	43	920	56	250	861	0	226	946	629
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA		Prot		custom
Protected Phases	1	6		5	2		3!	8		7	4	14!
Permitted Phases			6			2						1
Actuated Green, G (s)	14.2	39.1	39.1	9.6	35.0	35.0	13.2	39.5		12.8	39.1	67.0
Effective Green, g (s)	14.2	39.1	39.1	9.6	35.0	35.0	13.2	39.5		12.8	39.1	67.0
Actuated g/C Ratio	0.12	0.33	0.33	0.08	0.29	0.29	0.11	0.33		0.11	0.33	0.56
Clearance Time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lane Grp Cap (vph)	406	1656	515	141	1032	461	377	1666		366	1656	943
v/s Ratio Prot	c0.09	0.11	0.04	0.02	c0.26	0.04	c0.07	0.17		0.07	0.19	c0.29
v/s Ratio Perm	0.75	0.00	0.01	0.00	0.00	0.04	0.00	0.50		0.00	0.57	0.10
v/c Ratio	0.75	0.32	0.03	0.30	0.89	0.12	0.66	0.52		0.62	0.57	0.67
Uniform Delay, d1	51.2	30.5	27.6	52.1	40.7	31.2	51.3	32.5		51.3	33.5	18.6
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.04	0.60		1.00	1.00	1.00
Incremental Delay, d2	6.8	0.0	0.0	0.4	9.6 50.3	0.0	3.1 56.2	1.0 20.6			1.4	1.4
Delay (s) Level of Service	58.0 E	30.5 C	27.6 C	52.5 D	50.3 D	31.3 C	50.2 E	20.6 C		53.4 D	34.9 C	20.0 C
		39.7	C	U	47.4	C	E	28.6		U	32.1	C
Approach LOS								_			32.1 C	
Approach LOS		D			D			С			U	
Intersection Summary	1 1 1		00.0		014 0000	1	<u> </u>					
HCM 2000 Control Delay (s	36.2	Н	CM 2000	Level of	Service		D					
HCM 2000 Volume to Capa	0.80	0	£1	1 1: (-)			40.0					
Actuated Cycle Length (s)	120.0		um of los				19.0					
Intersection Capacity Utiliza	84.8%	IC	Level (of Service	: 		E					
Analysis Period (min) ! Phase conflict between I		15										
	ane groups											
c Critical Lane Group												

	•	→	\searrow	•	←	•	•	†	\	ļ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR	
Lane Group Flow (vph)	305	534	53	43	920	175	250	863	226	946	629	
v/c Ratio	0.75	0.32	0.09	0.24	0.92	0.31	0.66	0.51	0.62	0.56	0.65	
Control Delay (s/veh)	63.2	31.5	0.3	53.7	55.8	6.9	60.9	20.6	58.8	35.2	19.9	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	63.2	31.5	0.3	53.7	55.8	6.9	60.9	20.6	58.8	35.2	19.9	
Queue Length 50th (ft)	118	115	0	31	355	4	61	203	88	225	285	
Queue Length 95th (ft)	167	148	0	69	#473	57	151	68	126	282	526	
Internal Link Dist (ft)		794			572			911		448		
Turn Bay Length (ft)	530		100	300			260		205		270	
Base Capacity (vph)	443	1657	593	228	1037	582	457	1708	457	1692	975	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.69	0.32	0.09	0.19	0.89	0.30	0.55	0.51	0.49	0.56	0.65	

Intersection Summary

Queue shown is maximum after two cycles.

Existing AM Howe Avenue Transportation & Vision Zero 1:52 pm 08/21/2024 Tyxisting 1/20/Report

⁹⁵th percentile volume exceeds capacity, queue may be longer.

	۶	-	•	←	•	†	\	ļ	
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT	
Lane Group Flow (vph)	26	146	112	227	191	1269	31	872	
v/c Ratio	0.13	0.32	0.53	0.50	0.73	0.47	0.18	0.40	
Control Delay (s/veh)	45.4	16.3	55.8	46.4	65.4	21.1	50.9	37.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	45.4	16.3	55.8	46.4	65.4	21.1	50.9	37.3	
Queue Length 50th (ft)	20	15	92	84	140	206	25	160	
Queue Length 95th (ft)	43	41	136	109	#281	#453	m47	242	
Internal Link Dist (ft)		594		409		1494		911	
Turn Bay Length (ft)	90		140		230		100		
Base Capacity (vph)	398	819	398	825	263	2700	179	2206	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.07	0.18	0.28	0.28	0.73	0.47	0.17	0.40	

Intersection Summary

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

	۶	→	•	←	•	•	†	/	\	↓	1	
Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Group Flow (vph)	108	407	203	764	422	257	1074	255	373	1234	204	
v/c Ratio	0.46	0.43	0.60	0.72	0.28	0.65	0.72	0.16	0.64	0.70	0.32	
Control Delay (s/veh)	62.5	35.4	61.3	43.7	2.6	60.4	41.3	0.2	52.3	35.8	11.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	62.5	35.4	61.3	43.7	2.6	60.4	41.3	0.2	52.3	35.8	11.8	
Queue Length 50th (ft)	41	119	76	273	9	96	264	0	136	290	36	
Queue Length 95th (ft)	82	208	137	430	34	165	372	0	216	391	103	
Internal Link Dist (ft)		499		869			545			781		
Turn Bay Length (ft)	230		225		320	155		130	720		210	
Base Capacity (vph)	900	1015	909	1061	1873	877	1960	1583	1611	3051	1003	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.12	0.40	0.22	0.72	0.23	0.29	0.55	0.16	0.23	0.40	0.20	
Intersection Summary												

Existing AM Howe Avenue Transportation & Vision Zero 1:52 pm 08/21/2024 Tyxisting AMReport

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Queues

14: Howe Avenue & College Town Drive/Howe Avenue/College Town Drive/U.S. Rout2/50/2024p

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Movement Lane Configurations Traffic Volume (veh/h) Future Volume (veh/h) Initial Q (Qb), veh Lane Width Adj. Ped-Bike Adj(A_pbT) Parking Bus, Adj Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor Percent Heavy Veh, %	148 148 0 1.00 1.00 1.00 1.00 148 1.00	137 137 137 0 1.00 1.00 No 1870 137	273 273 0 1.00 1.00	278 278 278 0 1.00 1.00	WBT 49 49 0 1.00	104 104 0	NBL 43 43	NBT 1245 1245	NBR 254 254	SBL 46	SBT ↑↑ 1126	SBR
Traffic Volume (veh/h) Future Volume (veh/h) Initial Q (Qb), veh Lane Width Adj. Ped-Bike Adj(A_pbT) Parking Bus, Adj Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	148 148 0 1.00 1.00 1.00 1.00 1870 148 1.00	137 137 0 1.00 1.00 No 1870	273 0 1.00 1.00	278 278 0 1.00 1.00	49 49 0	104 0	43 43	1245		46		
Future Volume (veh/h) Initial Q (Qb), veh Lane Width Adj. Ped-Bike Adj(A_pbT) Parking Bus, Adj Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	148 0 1.00 1.00 1.00 1.00	137 0 1.00 1.00 No 1870	273 0 1.00 1.00	278 0 1.00 1.00	49 0	104 0	43				1126	
Initial Q (Qb), veh Lane Width Adj. Ped-Bike Adj(A_pbT) Parking Bus, Adj Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	1.00 1.00 1.00 1.00 1870 148 1.00	1.00 1.00 No 1870	0 1.00 1.00	0 1.00 1.00	0	0		1245	25/			39
Lane Width Adj. Ped-Bike Adj(A_pbT) Parking Bus, Adj Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	1.00 1.00 1.00 1870 148 1.00	1.00 1.00 No 1870	1.00 1.00	1.00 1.00			^			46	1126	39
Ped-Bike Adj(A_pbT) Parking Bus, Adj Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	1.00 1.00 1870 148 1.00	1.00 No 1870	1.00	1.00	1.00		0	0	0	0	0	(
Parking Bus, Adj Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	1.00 1870 148 1.00	No 1870				1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	1870 148 1.00	No 1870	1.00	1 00		1.00	1.00		0.99	1.00		1.00
Adj Sat Flow, veh/h/ln Adj Flow Rate, veh/h Peak Hour Factor	148 1.00	1870		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Flow Rate, veh/h Peak Hour Factor	148 1.00				No			No			No	
Peak Hour Factor	1.00	137	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
			273	278	49	104	43	1245	254	46	1126	39
Percent Heavy Veh, %	_	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	348	365	309	412	62	131	130	1982	404	133	2391	83
Arrive On Green	0.20	0.20	0.20	0.12	0.12	0.12	0.07	0.47	0.47	0.07	0.47	0.47
Sat Flow, veh/h	1781	1870	1585	3563	534	1133	1781	4240	865	1781	5067	175
Grp Volume(v), veh/h	148	137	273	278	0	153	43	999	500	46	756	409
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	0	1666	1781	1702	1701	1781	1702	1839
Q Serve(g_s), s	9.5	8.3	21.8	9.7	0.0	11.6	3.0	28.8	28.8	3.2	19.6	19.6
Cycle Q Clear(g_c), s	9.5	8.3	21.8	9.7	0.0	11.6	3.0	28.8	28.8	3.2	19.6	19.6
Prop In Lane	1.00		1.00	1.00		0.68	1.00		0.51	1.00		0.10
Lane Grp Cap(c), veh/h	348	365	309	412	0	193	130	1591	795	133	1606	867
V/C Ratio(X)	0.43	0.38	0.88	0.67	0.00	0.79	0.33	0.63	0.63	0.35	0.47	0.47
Avail Cap(c_a), veh/h	434	456	387	869	0	406	185	1591	795	167	1606	867
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.76	0.76	0.76
Uniform Delay (d), s/veh	45.9	45.4	50.9	55.1	0.0	56.0	57.3	26.1	26.1	57.1	23.3	23.3
Incr Delay (d2), s/veh	0.6	0.5	16.8	1.4	0.0	5.5	0.6	1.9	3.7	0.4	0.8	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	3.9	10.1	4.5	0.0	5.2	1.3	11.7	12.1	1.4	7.8	8.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	46.5	45.9	67.7	56.6	0.0	61.4	57.8	28.0	29.8	57.6	24.1	24.7
LnGrp LOS	D	D	Е	Е		Е	Е	С	С	Е	С	C
Approach Vol, veh/h		558			431			1542			1211	
Approach Delay, s/veh		56.7			58.3			29.4			25.6	
Approach LOS		Е			E			С			С	
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		29.7	14.5	66.5		19.3	14.0	67.0				
Change Period (Y+Rc), s		4.3	4.8	5.7		4.3	4.5	5.7				
Max Green Setting (Gmax), s		31.7	12.2	35.3		31.7	13.5	28.3				
Max Q Clear Time (g_c+l1), s		23.8	5.2	30.8		13.6	5.0	21.6				
Green Ext Time (p_c), s		1.6	0.0	2.7		1.4	0.0	2.8				
Intersection Summary												
HCM 7th Control Delay, s/veh			35.6									
HCM 7th LOS			D									
Notes												
User approved volume balancir	ng amon	ng the lane	es for turr	ning move	ement.							

	•	→	•	•	←	•	•	†	/	/	+	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	44	∱ ∱		ሻሻ	^	77	14.14	ተተተ	7	1,4	ተተተ	7
Traffic Volume (veh/h)	92	452	232	300	591	507	191	1331	239	495	1513	139
Future Volume (veh/h)	92	452	232	300	591	507	191	1331	239	495	1513	139
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	92	452	232	300	591	507	191	1331	0	495	1513	139
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	170	535	273	363	1024	1257	253	1667		561	2114	656
Arrive On Green	0.05	0.23	0.23	0.11	0.29	0.29	0.07	0.33	0.00	0.16	0.41	0.41
Sat Flow, veh/h	3456	2278	1160	3456	3554	2790	3456	5106	1585	3456	5106	1585
Grp Volume(v), veh/h	92	352	332	300	591	507	191	1331	0	495	1513	139
Grp Sat Flow(s),veh/h/ln	1728	1777	1662	1728	1777	1395	1728	1702	1585	1728	1702	1585
Q Serve(g_s), s	3.0	21.8	22.0	9.8	16.4	2.2	6.2	27.4	0.0	16.1	28.4	6.5
Cycle Q Clear(g_c), s	3.0	21.8	22.0	9.8	16.4	2.2	6.2	27.4	0.0	16.1	28.4	6.5
Prop In Lane	1.00		0.70	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	170	417	390	363	1024	1257	253	1667		561	2114	656
V/C Ratio(X)	0.54	0.84	0.85	0.83	0.58	0.40	0.76	0.80		0.88	0.72	0.21
Avail Cap(c_a), veh/h	921	529	495	930	1061	1286	897	1999		1647	2446	759
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.5	42.0	42.1	50.5	35.0	10.1	52.4	35.3	0.0	47.2	28.1	21.7
Incr Delay (d2), s/veh	1.0	9.9	11.2	1.8	0.6	0.2	1.7	2.0	0.0	1.9	0.9	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	10.3	9.9	4.2	6.9	2.7	2.7	11.1	0.0	6.9	11.2	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	54.5	51.9	53.4	52.3	35.6	10.3	54.1	37.4	0.0	49.0	29.0	21.9
LnGrp LOS	D	D	D	D	D	В	D	D	0.0	D	C	C
Approach Vol, veh/h		776			1398			1522			2147	
Approach Delay, s/veh		52.8			30.0			39.5			33.1	
Approach LOS		02.0 D			C			D			C	
			•			•	_					
Timer - Assigned Phs	1 1 2	2	3	4	5	6	/	8				
Phs Duration (G+Y+Rc), s	10.0	38.9	23.8	42.5	16.1	32.8	13.5	52.8				
Change Period (Y+Rc), s	4.3	* 5.7	5.1	4.9	4.0	5.7	5.1	* 5.1				
Max Green Setting (Gmax), s	30.7	* 34	54.9	45.1	31.0	34.3	29.9	* 55				
Max Q Clear Time (g_c+l1), s	5.0	18.4	18.1	29.4	11.8	24.0	8.2	30.4				
Green Ext Time (p_c), s	0.1	4.3	0.6	8.3	0.3	3.0	0.2	13.3				
Intersection Summary												
HCM 7th Control Delay, s/veh			36.7									
HCM 7th LOS			D									
Notes												

Notes

User approved pedestrian interval to be less than phase max green.

^{*} HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1,1	ተተተ	7	ሻ	^	7	14.54	ተተኈ		ሻሻ	ተተተ	7
Traffic Volume (vph)	651	999	110	74	754	136	242	1279	61	272	1097	565
Future Volume (vph)	651	999	110	74	754	136	242	1279	61	272	1097	565
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Lane Util. Factor	0.97	0.91	1.00	1.00	0.95	1.00	0.97	0.91		0.97	0.91	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.99		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3433	5085	1583	1770	3539	1583	3433	5051		3433	5085	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3433	5085	1583	1770	3539	1583	3433	5051		3433	5085	1583
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	651	999	110	74	754	136	242	1279	61	272	1097	565
RTOR Reduction (vph)	0	0	68	0	0	107	0	4	0	0	0	0
Lane Group Flow (vph)	651	999	42	74	754	29	242	1336	0	272	1097	565
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	1	6		5	2		3!	8		7	4	14!
Permitted Phases		10.1	6	40.0	2= 2	2		40 -				1
Actuated Green, G (s)	29.0	46.4	46.4	10.0	27.9	27.9	13.5	40.5		14.1	41.1	84.1
Effective Green, g (s)	29.0	46.4	46.4	10.0	27.9	27.9	13.5	40.5		14.1	41.1	84.1
Actuated g/C Ratio	0.22	0.36	0.36	0.08	0.21	0.21	0.10	0.31		0.11	0.32	0.65
Clearance Time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lane Grp Cap (vph)	765	1814	565	136	759	339	356	1573		372	1607	1078
v/s Ratio Prot	c0.19	0.20	0.00	0.04	c0.21	0.00	0.07	c0.26		c0.08	0.22	c0.22
v/s Ratio Perm	0.05	0.55	0.03	0.54	0.00	0.02	0.00	0.05		0.70	0.00	0.13
v/c Ratio	0.85	0.55	0.08	0.54	0.99	0.09	0.68	0.85		0.73	0.68	0.52
Uniform Delay, d1	48.4	33.5	27.6	57.8	51.0	40.8	56.2	41.9		56.1	38.8	12.3
Progression Factor	1.00	1.00	1.00	1.00 2.4	1.00	1.00	1.13 3.5	0.70		1.00	1.00	1.00
Incremental Delay, d2	8.7	0.2	0.0		30.8	0.0		5.2		6.3	2.4	0.2
Delay (s)	57.1 E	33.7 C	27.6 C	60.2 E	81.8 F	40.9 D	67.1 E	34.5 C		62.4 E	41.1 D	12.5 B
Level of Service		42.0	C	Е	74.3	U	Е	39.4			35.7	D
Approach LOS					_						_	
Approach LOS		D			E			D			D	
Intersection Summary												
HCM 2000 Control Delay (s			44.4	Н	CM 2000	Level of S	Service		D			
HCM 2000 Volume to Capa	city ratio		0.88	0		L 4! /-\			40.0			
Actuated Cycle Length (s)	4!		130.0		um of lost				19.0			
Intersection Capacity Utiliza	ιιοπ		90.1%	IC	U Level (of Service			E			
Analysis Period (min)	ono are::::==		15									
! Phase conflict between la	ane groups											
c Critical Lane Group												

	ၨ	-	•	•	←	•	•	†	\	ļ	4	
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR	
Lane Group Flow (vph)	651	999	110	74	754	136	242	1340	272	1097	565	
v/c Ratio	0.85	0.55	0.17	0.44	1.03	0.31	0.68	0.83	0.73	0.67	0.51	
Control Delay (s/veh)	59.4	36.6	7.6	64.0	90.4	9.0	72.2	33.1	68.0	40.1	10.7	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	59.4	36.6	7.6	64.0	90.4	9.0	72.2	33.1	68.0	40.1	10.7	
Queue Length 50th (ft)	273	259	3	60	~376	0	82	392	115	286	176	
Queue Length 95th (ft)	323	323	48	110	#605	54	156	196	162	340	282	
Internal Link Dist (ft)		794			572			911		448		
Turn Bay Length (ft)	530		100	300			260		205		270	
Base Capacity (vph)	937	1814	632	211	734	441	422	1674	422	1692	1109	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.69	0.55	0.17	0.35	1.03	0.31	0.57	0.80	0.64	0.65	0.51	

Intersection Summary

Existing PM Howe Avenue Transportation & Vision Zero 2:56 pm 11/07/2024 Syxisting P2MReport Page 1

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	•	→	•	←	•	†	/	ļ
Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	133	425	147	284	43	1499	46	1165
v/c Ratio	0.61	0.65	0.66	0.57	0.26	0.59	0.28	0.45
Control Delay (s/veh)	63.3	22.9	66.0	42.1	59.4	26.2	53.2	44.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	63.3	22.9	66.0	42.1	59.4	26.2	53.2	44.4
Queue Length 50th (ft)	118	66	132	92	34	311	41	270
Queue Length 95th (ft)	174	112	191	128	74	#545	m66	363
Internal Link Dist (ft)		594		409		1494		911
Turn Bay Length (ft)	90		140		230		100	
Base Capacity (vph)	392	950	392	818	183	2546	166	2599
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.45	0.38	0.35	0.23	0.59	0.28	0.45

Intersection Summary

^{# 95}th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

	•	→	✓	←	•	•	†	/	>	ļ	4	
Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Group Flow (vph)	92	684	300	591	507	191	1331	239	495	1513	139	
v/c Ratio	0.47	0.80	0.76	0.55	0.33	0.66	0.81	0.15	0.83	0.72	0.20	
Control Delay (s/veh)	73.7	55.1	73.1	43.7	3.2	74.1	49.0	0.2	68.8	37.3	14.0	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	73.7	55.1	73.1	43.7	3.2	74.1	49.0	0.2	68.8	37.3	14.0	
Queue Length 50th (ft)	42	291	138	236	19	88	406	0	226	415	36	
Queue Length 95th (ft)	77	#426	198	326	43	137	528	0	302	527	90	
Internal Link Dist (ft)		499		869			545			781		
Turn Bay Length (ft)	230		225		320	155		130	720		210	
Base Capacity (vph)	755	858	762	1074	1847	735	1643	1583	1351	2559	833	
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.12	0.80	0.39	0.55	0.27	0.26	0.81	0.15	0.37	0.59	0.17	

Intersection Summary

Queue shown is maximum after two cycles.

⁹⁵th percentile volume exceeds capacity, queue may be longer.

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Queues

14: Howe Avenue & College Town Drive/Howe Avenue/College Town Drive/U.S. Rout2/50/2024p

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

APPENDIX E: PUBLIC WORKSHOP M	IATERIALS



Please take the following brief survey. Your input is extremely valuable, and it will help the project team select the preferred future options and potential physical changes to Howe Avenue.

I.	What is your zip co	de?:		-					
2.	How often do you t	ypically travel on	Howe Avenue?						
	○ Daily○ Some○ Every Couple of \	Days (e.g., work Weeks O Mon		ng, and errands) O Weekly				
3.	How do you typical	ly travel on Howe	Avenue? Select a	II that apply.					
	□ Driving in a Perso□ Walking/Rolling□ Other (please specified)	☐ Bicycling (inc	luding using e-bil	(es) \square Scoo	ting \square Ride-S	haring (Uber		□ Para	transit
	the following questi least interested) to 5			ch potential cha	inge to Howe Av	enue on a sc	ale from		
4.	Improved public tra		ns and access		separat	ed bikeways	with a post o	r curb)	bike lanes or
	□ I □ 2	□ 3 □	□ 4 □ 5				most interested		
5.	Improved walking co	onditions such as	wider sidewalks a	and street trees	□ I	□ 2	□ 3	□ 4	□ 5
	I = least interested, 5				Reduce	d driver spec interested, 5 =	ed <i>most interested</i>	1	
	□ I □ 2	□ 3	□ 4 □ 5			□ 2	□ 3	□ 4	□ 5
6.	Improved walking as I = least interested, 5	, -	ng of Howe Aven	ue		ed driving sa interested, 5 = 1	fety most interested		
	□ I □ 2	□ 3	□ 4 □ 5		□Ⅰ	□ 2	□ 3	□ 4	□ 5
7.	Improved parking			II. Other	transportatio	on safety-relat	ted improv	ements	
	I = least interested, 5 =	most interested			(please	specify):			
	□ I □ 2	□ 3	□ 4 □ 5		l = least	interested, 5 =	most interested	1	
						□ 2	□ 3	□ 4	□ 5
COI	e following optional to mmunity perspectives What best describe Asian Black or African A Hispanic or Latin Middle Eastern o	s. Please still subm s your race or eth American o/a/x	it this survey even nnicity? Select all	n if you decide that apply. <i>(opti</i> vaiian or other to say	to not answer th	ese three op	tional question		
	\square Native American	or Alaska Native	· ·	. ,,					
13.	What is your age? (optional)							
	○ Under 18	○ 18 to 24 y	ears 0 25	to 34 years	○ 35 to 44 ye	ears			
	○ 45 to 64 years	○ 65 to 84 y	ears 085	to 99 years	O 100 years a	and older			
14.	Do you identify as s	omeone with a m	obility or related	disability that i	mpacts how you	travel? (opti	onal)		
	○Yes ○ No ○	Prefer not to say	/						
15.	Do you have any ot	her comments rel	ated to mobility	and transportat	ion safety on Ho	we Avenue?			
16.	Please provide emai	l address if you w	ant to be added 1	to our Howe er	nail noticing list				
_ •		100 H / Ou W	15 55 44464 (



Por favor responda a la siguiente breve encuesta. Su opinión es extremadamente valiosa y ayudará al equipo del proyecto a tomar decisiones sobre las opciones y mejoras preferidas a futuro y los posibles cambios en Howe Avenue.

ı.	¿Cuál es su código pos	stal?:							
2.	¿Viaja usted a menudo	por Howe Avenu	e?						
	DiariamenteCada par de semana		olo, viajes diarios al trabajo, co nente O Raramente	ompras y recado	s) O Ser	nanalmente			
3.	Cómo viaja por Howe	Avenue? Selecion	ne todo lo que aplica.						
	☐ Conduzco en mi au ☐ Caminando/Rodand	to 🗆 Pasajero	• •] Viaie comp	artido (Ubei	: Lyft).Taxi	
	☐ Otro (especifique):			,			`	, ,,	
	ra las siguientes pregunt menos interesado) al 5	•	erés en cada posible cambio	en Howe Avenue	e en una esc	ala del			
4.	Mejores condiciones y / = menos interesado, 5		das de transporte público	protegio	los o carrile		etas separad	e (carriles para bio os con un poste c	
	□ I □ 2	□ 3 □ 4	□ 5	<i>, ,,,,,,,,,</i> □ I		<i>,, 3</i>	□ 4	□ 5	
5.	Mejores condiciones p y árboles en las calles I = menos interesado, 5		o aceras más anchas	9. Reducci	ones de vel			_ 3	
	□ I □ 2	□3 □4	□ 5		□ 2	□ 3	□ 4	□ 5	
6.	Mejorar los cruces de <i>I = menos interesado, 5</i>	•	etas en Howe Ave	10. Mejores <i>I = men</i>		es de conduc o, 5 = más inte			
	□ I □ 2	□3 □4	□ 5	□ I	□ 2	□ 3	□ 4	□ 5	
7.	Mejorar el estacionam	niento		II. Otras n	nejoras rela	cionadas cor	n la seguridad	d del transporte	
•	I = menos interesado, 5			(por fav	or especifiq	ue):			
	□ I □ 2		4 □ 5	I = men	os interesado	o, 5 = más int	eresado		
					□ 2	□ 3	□ 4	□ 5	
			son opcionales y nos ayudan a encuesta incluso si decide no				amplia y rep	resentativa	
12.	¿Cuál de estas opcione	es mejor describe	su raza u origen étnico? Sele	eccione todo lo d	jue aplica. (o	pcional)			
	☐ Asiático		□ Nativo de Hawái u o	otra isla del Pacífi	со				
	\square Negro o afroamerio		☐ Blanco						
	☐ Hispano o Latino/a/☐ Del Medio Oriente	_	☐ Prefiero no decir						
	☐ Nativo americano o		a \Box Otro (especifique): _						
13.	¿Cuál es su edad? (opo	cional)							
	○ Menor de 18 años	○ 18 a 24 años	○ 25 a 34 años	○ 35 a 44 a	ños				
	○ 45 a 64 años	○ 65 a 84 años		Mayor de					
14	:Se identifica como ala	ruien con una disc	apacidad de movilidad o disc	, apacidad relacion	nada que afe	octa su forma	a de viaiar? (obcional)	
		efiero no decir	apacidad de movindad o disc	apacidad relaciói	iada que aie	cca su ioi iii	a de viajai : (t	ppcionaly	
15.	¿Tiene algún otro com	entario relacionad	do con la accesibilidad y la se	eguridad en How	e Ave?				
16.	Por favor proporcione	su correo electro	ónico si desea que lo agregue	emos a nuestra li	sta de avisos	s sobre How	ve:		



Workshop #1

Project Background and

Existing Conditions

Project Team

City of Sacramento

Jennifer Donlon Wyant, Transportation Planning Manager Ryan Dodge, Associate Planner

DKS Associates

Josh Pilachowski

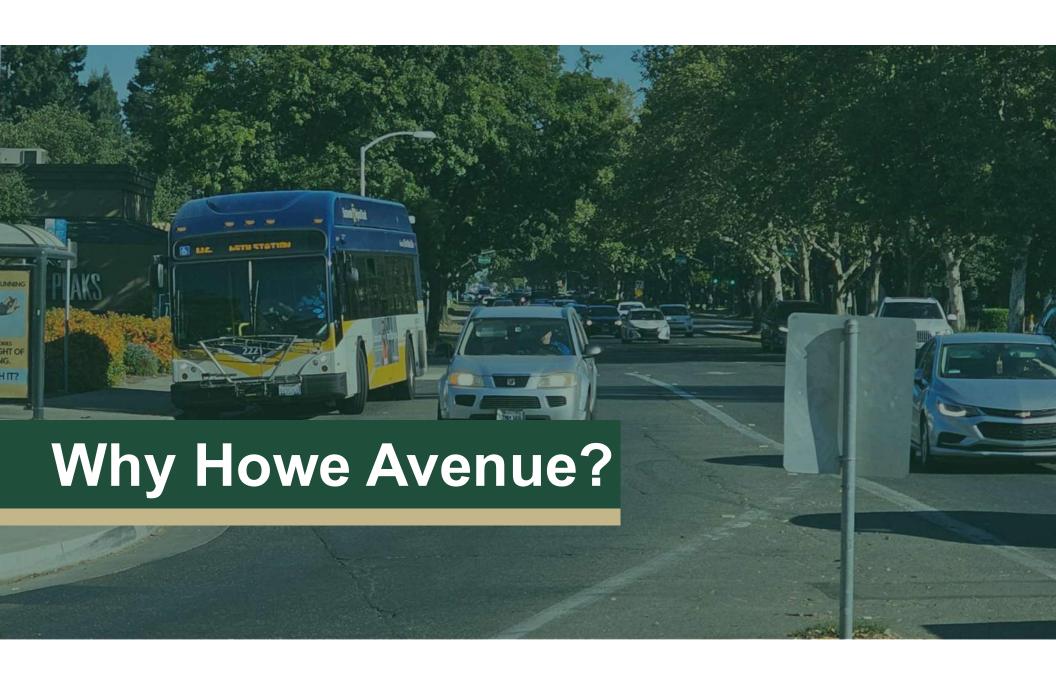
Liz Aguilar

Sylinda Villado

Agenda

- Why Howe Avenue?
- Planning Area and Existing Conditions
- Community Needs
- YOUR Needs
- Next Steps



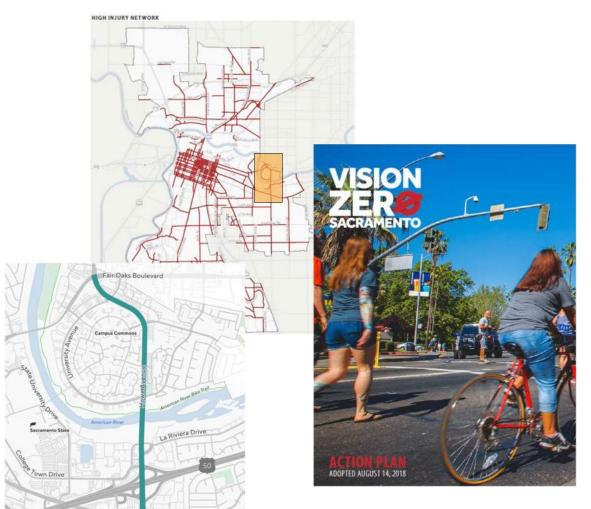


Why?

Critical corridor serving:

- Sacramento State
- Students
- Businesses
- Residents and communities

TOP 10 CORRIDOR WITH THE HIGHEST NUMBER OF FATAL AND SEVERE INJURY CRASHES.







Why? Planning Goals

The goal of the plan is to identify a data-driven, community-supported plan for a future Howe Avenue that will improve safety and mobility.

This Workshop will:

- Raise community awareness of the project
- Learn about *your* experiences and needs for the corridor
- Help us identify locations of need that don't appear in our data collection



Schedule



Engagement







Planning Area

HOWE AVENUE

- Fair Oaks Boulevard to Power Inn Light Rail Station
- Two miles



Existing Conditions: Project Team Site Walk

The team walked and drove the entire corridor, focusing on multimodal conditions and behavior along key segments and intersections.













Existing Conditions:Land Use

- Commercial and office
- Residential
- Regional parks and trails



Slide 10

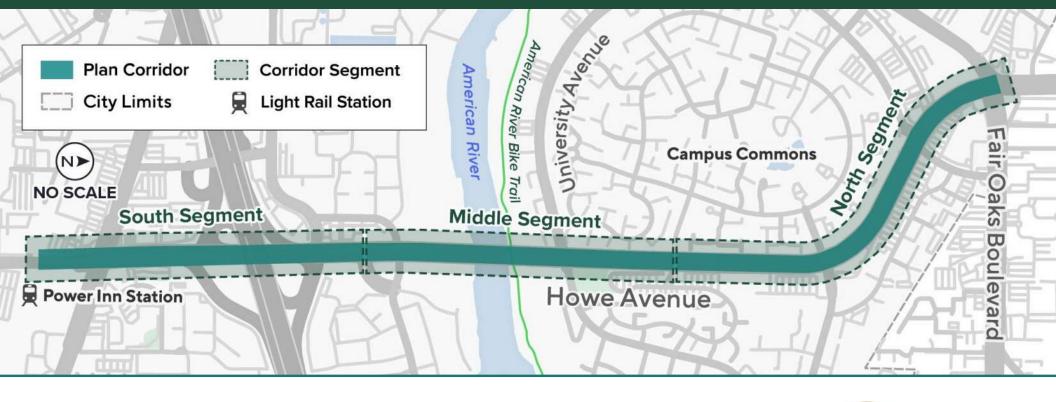
Maybe move this to just after the agenda slide? If I knew nothing about the project then my first question would be about Howe from where to where.

Ryan Dodge, 2024-10-28T16:58:05.251

RD1 Please change Folsom Boulevard to Power Inn Light Rail Station (south of Folsom Boulevard).

Ryan Dodge, 2024-10-28T17:01:43.473

Existing Conditions: Street

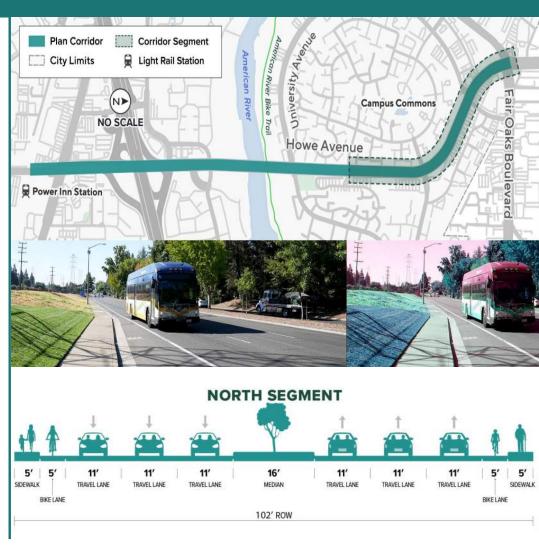




North Segment: Fair Oaks Boulevard to Swarthmore Drive

The northern segment of the study corridor stretches from Fair Oaks Boulevard to Swarthmore/University Park Drive. The segment is adjacent but not directly accessible from residential to the west, and large parking lots associated with commercial and office uses to the east.

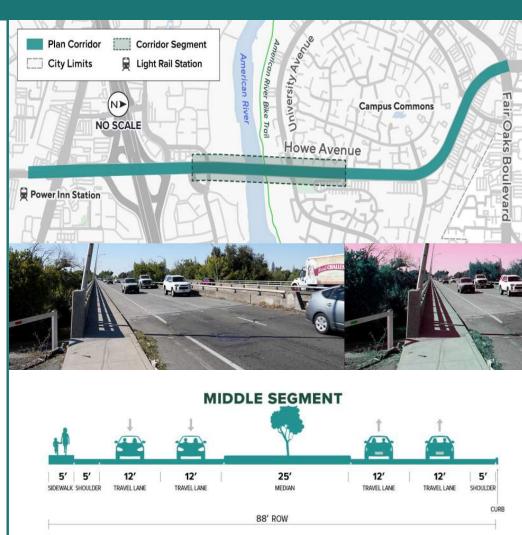
- Number of Lanes: Six (three in either direction)
 with a median
- Sidewalks: Consistent on the northbound (east) side and only present between Fair Oaks and American River Drive on the southbound (west) side
- Bikeways: Inconsistently unstriped and unsigned bicycle lane/shoulder on both sides, south of University Drive
- Transit: Yes (Line 26)



Middle Segment: Swarthmore to La Riviera

The middle segment begins at Swarthmore Drive and ends at the access road to La Riviera Drive to the northbound side of Howe Avenue, crossing the American River in between. Adjacent land uses include a business park at the segment's northern end, parks, the river, and some commercial uses.

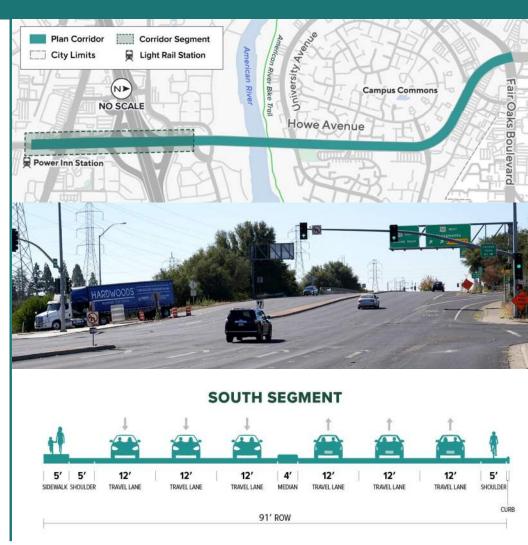
- Number of Lanes: Four (two in either direction) with a divided roadway
- Sidewalks: Both sides, with gaps separating
- Bikeways: Unstriped and unsigned shoulder on both sides
- Transit: Yes (Line 26)



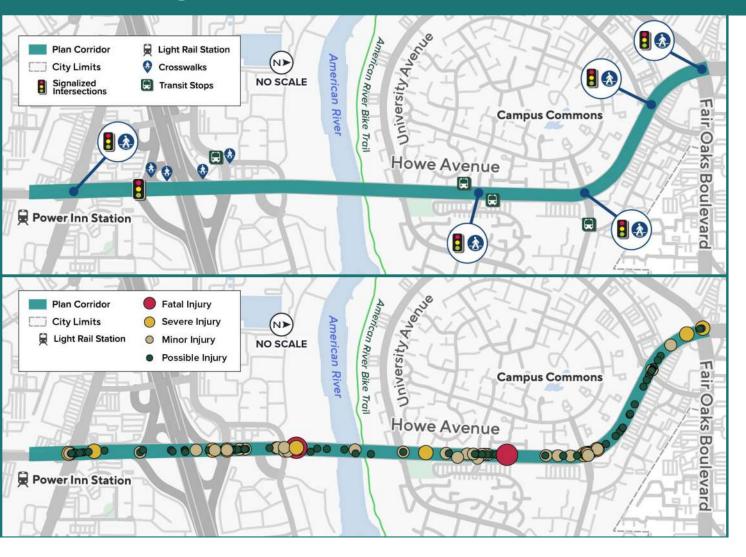
South Segment: La Riviera to Folsom

The south segment starts at the access road to La Riviera Drive and ends at Folsom Boulevard, including the freeway overpass. Adjacent uses aside from the freeway include mainly retail with some residential and commercial with parking fronting the road.

- Number of Lanes: Six (three in either direction) with a median
- Sidewalks: Southbound (west) side only
- Bikeways: unstriped and unsigned shoulder on both sides
- Transit: No



Existing Conditions



DATA COLLECTION

- Vehicular traffic and congestion
- Vehicle speeds
- Sidewalks and Crosswalks
- Bikeways
- Transit
- Safety





Walking/Rolling Needs

SIDEWALKS

- Consistent and sufficient width
- Low stress and comfortable
- Access to homes, businesses, and education



INTERSECTIONS AND CROSSING OPPORTUNITIES

- Frequency of crossings
- Visibility and line of sight

SHARED USE PATH ACCESS

Access to Jedediah Smith Memorial Trail





Bicycling Needs

BIKEWAYS

- Bidirectional facilities without gaps
- Access to homes, businesses, and education
- Low stress and comfortable for all ages

INTERSECTION OPERATIONS

- Minimal zones of conflict
- Frequency of crossings
- Visibility and line of sight

SHARED USE PATH ACCESS

Access to Jedediah Smith Memorial Trail





Please change Bicyclist to Bicycling Needs. Ryan Dodge, 2024-10-28T17:11:15.667 RD0

Transit User Needs

TRANSIT STOP ACCESS

- Bidirectional access to bus stops for all users
- Access to Power Inn Light Rail Station
- Access to homes, businesses, and education

STOP AMENITIES

• Shade, seating, lighting, and maintenance

OPERATIONAL SUPPORT

 Considerations for transit operations for improved on-time performance





Driving Needs

ACCESS

- Access to homes, businesses, and education
- Consistent design

OPERATIONS

- Minimal conflict
- Frequency of crossings
- Visibility and line of sight

RD0





Please change Auto/Truck to Driving/Riding Needs or something similar, to match the survey. Ryan Dodge, 2024-10-28T17:15:52.315 RD0

JD1 This slide is inconsistent with the other modes. It talks about crashes and discusses needs in a different manner. See my edits.

Jennifer Donlon Wyant, 2024-11-05T00:10:29.848

YOUR Needs

What are your needs for transportation changes on the corridor?

Let us know tonight!

- Take the survey
- Mark up a map
- Tell your friends, neighbors, businesses about the online survey and map
- Public comment is open until December 31

Help us develop a plan to improve safety and access on Howe Avenue!



For more information, visit our website at:











Next Steps

December 2: Virtual community meeting

Late Winter-Spring 2025: Community input on Alternatives Analysis

Summer 2025: Draft Plan

Winter 2025: Final Plan for Council approval

DECEMBER 2, 2024

 \rightarrow

6:30 PM - 7:30 PM

VIA ZOOM MEETING

Register at: bit.ly/howe-register

Meeting ID: 829 9985 3999

Passcode: Howe

Registration is required to attend







JD0 Please make this slide look better

Jennifer Donlon Wyant, 2024-11-05T00:37:44.455

JD1 Please provide the detailed information and QR code for folks to register for the meeting

Jennifer Donlon Wyant, 2024-11-05T00:38:12.741



Thank you!

PROJECT CONTACT:
Jennifer Donlon Wyant
JDonlonWyant@cityofsacramento.org

RD0

For more information, visit our website at: Para más información visite nuestro sitio web en:





Are we going to list contact person at bottom, or webpage? Ryan Dodge, 2024-10-28T17:16:39.917 RD0

Walking & Rolling

PLEASE LEAVE YOUR COMMENTS ABOUT WALKING & ROLLING ALONG HOWE AVENUE.



Power Inn Station

Campus Commons S American River Bike Trail American River La Riviera Drive Sacramento State own Drive **X** Crosswalks Plan Corridor City Limits **Transit Stops** Sidewalk Gaps **Light Rail Station** Bike Lanes University Signalized Intersections

Biking

PLEASE LEAVE YOUR COMMENTS ABOUT BIKING ALONG HOWE AVENUE.





Taking Transit

PLEASE LEAVE YOUR COMMENTS ABOUT TAKING TRANSIT ALONG HOWE AVENUE.





Driving

PLEASE LEAVE YOUR COMMENTS ABOUT DRIVING ALONG HOWE AVENUE.





APPENDIX F: PUBLIC COMMENT

SOCIAL PINPOINT COMMUNITY COMMENTS

INTERSECTION	COMMENT
WALKING	
FAIR OAKS BLVD	Too dangerous to cross Fair Oaks to get to Raleys or Starbucks. They don't seem to see pedestrians.
UNIVERSITY AVE	pedestrian island
	prioritize pedestrian crossing from campus comments to UV
	ped refuge for crossings
SWARTHMORE DR	street lighting especially at cross walks
	There is no sidewalk from American River to Swarthmore, so the public uses Campus Commons private property for access to the southbound bus stop just south of Swarthmore.
AMERICAN RIVER OVERPASS	separated walking path with greenery buffer
LA RIVIERA ACCESS RD	There should be access from the levee top trail to the bridge sidewalk that does not require you to jump the guardrail.
	There is no way for a pedestrian to get from La Riv to Howe on the North bound side of Howe
FOLSOM BLVD	Large gap in sidewalk on east side of PG&E Brighton Substation (south side of Folsom) to 8240 Folsom Blvd. Unsafe for pedestrians.
	tough to cross Folsom to LR - take alternate route
POWER INN LRT STATION	direct access to Power Inn station from Folsom
BICYCLING	
FAIR OAKS BLVD	bike detection at signals and along entire corridor
	We need bike lanes the full north/south route.

INTERSECTION	COMMENT
AMERICAN RIVER DR	driveway turnout @ apartment complex is dangerous for cyclists
	"lot of jump bikes
	bike trail on Northrop closest"
SWARTHMORE DR	separated bike lanes
	bike lane would be nice
	trail connection here for cyclists
TRANSIT	
SWARTHMORE	connector shuttle every 15 mins connecting to commerical + medical centers
	shade/cover from weather @ transit stops
DR	bus lane or light rail
	light rail please
POWER INN LRT STATION	Station feels isolated
DRIVING	
FAIR OAKS BLVD	The right turn signal on southbound Howe at Fair Oaks needs to be 'red' just a bit longer. It starts blinking yellow which for some people, they know to use caution and yieldbut for at least half, they fly thru at speed and do not allow the people coming in from the turn lane or the U Turn - to get into the Raley/Starbux/CVS parking area off of Fair Oaks Blvd. I have almost been hit by people not yielding and i am trying to cross into that parking area. It would help us motorists to not have to fight it out.
	Signal timing issues
	Crazy misaligned intersection. for the speed of traffic coming across North/South it is really off-set.
	Also- stop the southbound right hand arrow turn land from interfering with traffic with right-of-way (coming in north taking a left. I don't

INTERSECTION	COMMENT
	shop at Raleys/Starbux there because it mostly is an unsafe battle to get past those cars to get into the lot near the OrangeTheory entrance off FO Blvd.
	"Fair Oaks light is long
	congestion during peak hours"
	Narrower lanes for traffic calming
UNIVERSITY AVE	Taking a left turn at university is difficult during rush hour
AMERICAN RIVER DR	"many accidents at Howe/American
	Reduce spaces?"
	When driving eastbound on American River (or turning left onto Howe from the Campus Commons side of American River), cars are in danger of being hit at high speeds by southbound Howe traffic who ignore the red light (or can't easily see it's gone red because of the blind curve coming towards the intersection). Perhaps retiming the lights so that the outflow traffic eastbound on American River from Campus Commons doesn't get a green immediately after the red to stop southbound Howe traffic would cause fewer accidents and near misses (including pedestrians trying to cross Howe on the north crosswalk along American River).
	avoid N Howe and take American River to Fair Oaks
	Cars use this RHT to access Fulton (via Munroe). They drive through this intersection as if it's not a light and cause problems for cyclists and pedestrians.
	Driveway is confusing for drivers
	Super wide traffic lanes here due to the merge and the paint is unclear. Make the lanes narrower to reduce vehicle speed
SWARTHMORE DR	Extend the LHT lane further at Swarthmore by several car lengths. Because the speed driving North on Howe is high during heavier traffic times, need more room to slow down to safely enter the LHT lane at Swarthmore.

INTERSECTION	COMMENT
	in general, the speeds on Howe Ave are just usually too fast. I work out at the Rio Del Oro club and live right across the street. I do NOT feel safe to walk or ride my bike across Howe- so i DRIVE 1/4 mile to the gym when i would love to ride my bike. It is just so dangerous. Listening to the traffic at night - esp. THUR Nights Motorcycle racesI am kind of afraid to go out at all onto that road. It is a shame we can't get some better modulated traffic speeds and wider/safer for peds and bikes. Def need to widen it? Run the lite rail down it? etc.
AMERICAN RIVER DR OVERPASS	Speeds are too high over the river and down towards Fair Oaks Blvd. The light at Swarthmore slows traffic down, but it is a speedway from the I-50 interchange to Swarthmore. With the incline to the bridge, people often drive 15+ over the posted sped limit.
LA RIVIERA ACCESS RD	short on ramps - cars come fast, can't accelerate to avoid conflict
	reduce speed and improve signal times
US 50	The bulb out for the LHT is at an awkward angle for drivers making a LHT. Many vehicles hit the traffic furniture, scraping the left side of their vehicles.
POWER INN LRT STATION	signal (turning left) for power inn LRT station takes too long - needs better timing
SAFETY	
FAIR OAKS BLVD	Merge lane creates conflicts
	Congestion and aggressive drivers at shopping center
UNIVERSITY	Agree with the cutout on concrete where people like to "camp" on the sidewalk. not safe and is an eyesore to the community
	Prevent the sidewalk cutout from being used for unsheltered camping. With traffic going by at high speeds, this is an unsafe location for homeless camping. In addition, the unmanaged trash generated at this location is a health and safety and community quality of life issue.
AMERICAN RIVER DR	this intersection does not feel safe to cross on foot or walking a bike across or etc. Many like to blow through the red light and speeds are too high. I would love to ride my bike to the gym on Scripps,

INTERSECTION	COMMENT	
	however instead I drive! I just don't ride anywhere in traffic anymore. But even walking across feels like a challenge. It is a LONG crossing so more warning for cars/better marking may be needed.	
	Sound barriers should be established and road surfaces installed that minimize road noise from impacting the adjacent neighborhoods.	
	Reduce speed	
SWARTHMORE DR	make the MERGE area more clear. Trees are growing over signs and there is no paint showing the 'zipper' lane is ending. with speed of traffic on this road it is so dangerous to sit at the Swarthmore light hoping nobody careens into you and kills you as they jostle for position. The speed is TOO HIGH on this road-people are going 50-80MPH in many cases.	
AMERICAN RIVER OVERPASS	Create comfortable trail access	
COLLEGE TOWN RD	lots of crashes, drunk driving near bar	
FOLSOM BLVD	change center divide concrete so people cannot STAND there in traffic asking for money. So dangerous and they are inches from cars going 50MPH + - same at F.O and Howe intersection.	
POWER INN LRT STATION	There is a section of the railing that has been removed so people can cut though into the parking lot instead of going all the way down to power inn rd and turning in where cars enter. I have used this many times coming from the light rail stop. This should be made official and have the dirt section between the path and the parking lot paved and curb cuts added so bike riders don't have to dismount every time we use it.	
OTHER COMMENTS		
FAIR OAKS BLVD	would take bike trail, no real trail access on Howe	
UNIVERSITY AVE	new infill development will create traffic	